**SUPPORTING DOCUMENT FOR THE
HISTORICAL TANK CONTENT
ESTIMATE FOR**

SX TANK FARM

WORK ORDER ER4945

Prepared for

Westinghouse Hanford Company

June 1994

Prepared by

**ICF Kaiser Hanford Company
Richland, Washington**

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SUPPORTING DOCUMENT FOR THE HISTORICAL TANK CONTENT ESTIMATE FOR

SX TANK FARM

WORK ORDER ER4945

Prepared by

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Richland, Washington

for

Westinghouse Hanford Company

9/28/94		9/28/94
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1.0 Introduction

1.1 Purpose

This document provides historical evaluations of the radioactive mixed wastes stored in the Hanford Site 200-East Area underground single-shell tanks (SSTs). A Historical Tank Content Estimate has been developed by reviewing the process histories, waste transfer data, and available physical and chemical characterization data from various Department of Energy (DOE) and Department of Defense (DOD) contractors.

The historical data will supplement information gathered from in-tank core sampling activities that are currently underway. A tank history review that is accompanied by current characterization data creates a complete and reliable inventory estimate. Additionally, historical review of the tanks may reveal anomalies or unusual contents that are critical to characterization and post characterization activities. Complete and accurate tank waste characterizations are critical first steps for DOE and Westinghouse Hanford Company safety programs, waste pretreatment, and waste retrieval activities.

1.2 Scope

The scope of this document is limited to all the SSTs in the SX Tank Farm of the southwest quadrant of the 200 West Area. For summarized characterization data on all SST's in the southwest quadrant of the 200 West area, refer to the Historical Tank Content Estimate Report (Brevick 1994). The northwest and southwest quadrants represent an approximate geographical division of the 200-West Area tank farms. The division was made as follows:

- NW Quadrant: T, TX, TY
- SW Quadrant: S, SX, U

The following map depicts the 200-East Area.

1.3 Approach

This report is a compilation of work performed by ICF Kaiser Hanford Company, Los Alamos National Laboratories, and Westinghouse Hanford Company.

Westinghouse Hanford Company requested that ICF Kaiser Hanford Company review the history of the tanks in each of the four quadrants and incorporate the tank layering models and inventory estimates being developed by Los Alamos National Laboratories into the report. Historical waste transfer and level data, tank physical information, temperature data, sampling data, and drywell and liquid observation well data have been compiled for this report.

200 West Area

1.3.1 Surveillance Techniques for the Hanford Radioactive Mixed Waste Storage Tanks

Surveillance information is used for tank characterization. Tank integrity (i.e., sound, assumed leaker, assumed re-leaker) is investigated by comparing the changing liquid levels to liquid observation well data and drywell activity. Waste temperatures can be used to correlate the inventories of heat-generating radionuclides (^{137}Cs and ^{91}Sr) in the tanks. The instrumentation and methods used for tank surveillance are described in the following sections.

■ In-Tank Surface Levels

Surface levels within the SSTs are monitored by instruments consisting of calibrated steel tapes with an electrode plummet on the end that will complete a circuit when it contacts a conducting surface (i.e., liquid). The surface level measurements are usually taken with Food Instrument Corporation gauges and manual tapes. The tank monitoring device, manufactured by the Food Instrument Corporation, automatically moves up and down and contacts the waste. The gauge is often set to the intrusion mode by placing the plummet a short distance above the waste. If an intrusion occurs in the tank, the Food Instrument Corporation gauge will record the event when the surface level rises to meet the plummet. The manual tapes are similar to the Food Instrument Corporation gauge, except that manual operation of the tape and manual recording of the readings are required. Some tanks contain both types of level monitoring devices. The measurements are recorded on a computer automated surveillance system (CASS).

■ Interstitial Liquid Level (Liquid Observation Wells)

Food Instrument Corporation gauges and manual tapes are limited to surface level measurement; therefore, liquid observation wells in many tanks have been installed specifically to monitor the interstitial liquid level within the SSTs. The interstitial liquid is the liquid trapped within and underneath the solid waste. Fiberglass or TEFZEL-reinforced epoxy-polyester resin liquid observation well tubes (by E.I. du Pont de Nemours and Company) are sealed on the bottom and vertically installed approximately 1 in. from the tank bottom. Gamma, neutron, and acoustic probes may be lowered into the liquid observation wells to determine the interstitial liquid levels within the tank. A gamma probe detects the difference between saltcake and saltcake containing liquid, based on the principle that the liquid is the primary source of gamma emissions. A neutron probe distinguishes between the existing dry saltcake, wet saltcake, and liquid phases. Distinct differences exist in the neutron count rates of each material type. An acoustic probe emits a pulse that is reflected off the interface between the outer wall of the liquid observation well and the waste. A fiberglass/liquid interface produces a minimal reflected pulse and a fiberglass/air interface produces a maximum pulse reflection. Wet saltcake will fall between the limits appropriately; therefore, interpretation of the records will determine the liquid level. Each probe scan is fully automatic and

successful scans are input to the computer automated surveillance system.

■ **Internal Tank Temperatures (Thermocouples)**

Temperatures usually are recorded automatically in the Computer Automated Surveillance System (CASS). Temperatures are monitored with thermocouple trees that are comprised of stainless steel pipe with 4 to 18 thermocouples. Usually, the lowest sensor is located approximately 4 in. from the tank bottom and the other sensors progress up the tree at 2-ft intervals. More frequent temperature readings are available for a few select tanks due to an upgrade in the surveillance data acquisition system to the tank monitor and control system (TMACS) in 1991.

Generally, a single thermocouple sensor is sent down the liquid observation well to take semiannual readings in tanks that do not contain a thermocouple tree. The temperatures are recorded manually in degrees Fahrenheit and are entered into the surveillance analysis computer system (SACS) that is currently using the ORACLE database.

■ **External Leak Detection (Drywells)**

Drywells are located around the circumference of each SST and throughout the tank farms to determine if tank wastes have leaked. The drywells are generally 6-in. diameter carbon steel pipe, between 75- and 250-ft deep. The wells are termed dry because they are not deep enough to reach ground water. Scan profiles of radiation or moisture in the soil as a function of well depth are obtained with gamma radiation or neutron sensors. Scintillation monitors, Geiger-Mueller instruments, and neutron sensors are used to monitor the drywells. Scintillation monitors are radiation detection instruments based on the principle that light pulses are produced in some materials when they are exposed to radiation. Geiger-Mueller instruments detect low-level beta and gamma radiation. Neutron probes are equipped with a neutron source and detector that determine if moisture is present in the soil. The frequency of and probe used for drywell monitoring are specified in a schedule from the "Waste Storage Tank Status and Leak Detection Criteria" (Welty 1989).

Drywell readings are recorded at 1-ft intervals. The peak readings and the depth of the readings are recorded on a summary sheet. If a drywell indicates a new or unusual increase in activity, a rerun is requested and the drywell is retested. The wells are sealed when they are not being tested.

The drywells described in this report have a 6-digit computer identification number: the first two digits denote the tank farm (i.e., A=10, AX=11, B=20, BX=21, BY=22, and C=30), the third and fourth are the last two digits of the tank number (i.e., 241-A-105 would be 10-05 and 00 indicates a non-specific tank), and the fifth and sixth describe the clockwise location of the well from due north. For example, the identification number of the first drywell for Tank 241-BY-102 would be 22-02-01.

Laterals (i.e., horizontal drywells) are positioned under some SSTs to detect radionuclides in the soil which could be indicative of tank leakage. The drywells are monitored by radiation detection probes and occasionally by a temperature probe. Laterals have 4-in. inside diameter steel pipes located 8 to 10 ft below the concrete base of the tank, and each tank has three laterals. Laterals are located only in the A Tank Farm and a portion of the SX Tank Farm.

■ In-Tank Photography

In-tank photography is another waste volume determination method used to resolve in-tank measurement anomalies and determine tank integrity. Photographs can help determine sludge and liquid levels, provide a degree of corroboration with other waste management processes, and are a source of information on foreign objects contained in the tanks. The photos can be compared to see if tank wastes with similar histories have similar characteristics.

1.3.2 Approach and Development of Supporting Information Contained in the Historical Tank Content Estimate and Supporting Documents

Extensive information was gathered for each tank. This document contains a comprehensive data set on each tank, that are summarized in the Historical Tank Characterization Estimates.

■ Tank Level Histories

The tank level histories are graphical representations of waste levels over the lifetime of a tank. They include information such as pH, in-tank photo dates, waste types, transfer data, and physical data. Information from the mid 1940s to 1980 was compiled from two Westinghouse Hanford Company documents (Anderson 1990 and Welty 1988). Data from 1977 to the present were obtained from the monthly waste status summary reports. The following Hanford Site operating contractors prepared summaries: Atlantic Richfield Hanford Company from 1973 to 1977, Rockwell Hanford Operations from 1977 to 1987, and Westinghouse Hanford Company from 1987 to present. Script files were imported from a spreadsheet to AutoCAD 12 to graph the surface level data. Liquid observation well data were obtained from the Westinghouse Hanford Company Tank Farm Surveillance group in a spreadsheet format. Additional information was gathered from various documents and comments were added directly to each drawing.

The liquid, solid, and interstitial liquid levels (liquid observation wells data) are shown on the tank level history graphs as volumes and tank elevations. The following formulas were used to relate the volumes to the respective elevation for each tank farm design:

FORMULAS

$$\frac{\text{Total Gallons}}{2750 \frac{\text{Gallons}}{\text{Inch}}} = \text{Total Inches} \quad (1)$$

$$\frac{\text{Total Gallons} - 12,500 \text{ Gallons}}{2750 \frac{\text{Gallons}}{\text{Inch}}} + 12 \text{ Inches} = \text{Total Inches} \quad (2)$$

$$\frac{\text{Total Gallons} - 12,500 \text{ Gallons}}{2750 \frac{\text{Gallons}}{\text{Inch}}} = \text{Total Inches} \quad (3)$$

$$\frac{\text{Total Gallons} - 18,500 \text{ Gallons}}{2750 \frac{\text{Gallons}}{\text{Inch}}} + 12 \text{ Inches} = \text{Total Inches} \quad (4)$$

$$\frac{\text{Total Gallons} - 590 \text{ Gallons}}{196 \frac{\text{Gallons}}{\text{Inch}}} + 6 \text{ Inches} = \text{Total Inches} \quad (5)$$

Equation No.	Applicable Tank Farms:	Tank Diameter
1	A, AN, AP, AW, AX, AY, AZ, SY	75 ft
2	BY, S, TX, TY	75 ft
3	B, BX, C, T, U	75 ft
4	SX	75 ft
5	B, C, T, U (200 Series)	20 ft

■ Temperature Plots

There are two categories of temperature data, one or few temperature readings per day and thermocouple temperature data. The documentation used for the first category includes Waste Status Summary Reports (Roberts, R.E. 2/58 - 10/58, Thress, M.A. 11/58 - 2/59, Lentz, J.E. 3/59-12/60, and Roberts, R.E. 6/61 - 6/62), RHO-CD-1172, and HW-83906. The thermocouple temperature data were obtained from the Westinghouse Hanford Company ORACLE database commonly known as the Surveillance Analysis Computer System (SACS) and various retrieved hand-entered temperature data sheets. Temperature versus time plots were developed for both categories of temperature data. Historical temperature plots cover the time span between January 1953 and January 1973. The common temperature span used for these plots is 350 degrees. There are no tanks that have temperature data outside the sliding 350 degree temperature range.

No thermocouple information has been located prior to 1973. The thermocouple temperature information was parsed in an EXCEL spreadsheet and graphed to show each individual thermocouple probe. January of 1973 is then the starting date for all thermocouple plots. The temperature range for all tank thermocouple plots in all tank farms was kept to a 120 degree F span, except where the data exceeded this range. In the few tanks where the temperature span exceeds this sliding range the data are shown using the smallest temperature range possible. A consistent time frame and temperature range is essential in comparing temperature information from one tank to another. If documentation was available, thermocouple elevations were included in the plots for tanks currently containing thermocouple trees. Thermocouples are ordered from the bottom to the top of the tank. Therefore, a plot of thermocouple 1 over time would indicate the temperature near the bottom of the tank. In-tank temperature information is available in Appendix D.

■ Surface Level Plots

The surface level data from 1991 to 1993 were obtained from the Westinghouse Hanford Company ORACLE database. The information was parsed in an EXCEL spreadsheet and graphed to show the waste level versus time. Current in-tank surface level information is available in Appendix E.

■ Drywell Plots

The drywell information was obtained from the manual records of the Westinghouse Hanford Company Tank Farm Surveillance Group. Data from 1990 to the present were input into an EXCEL spreadsheet and graphed to show the peaks in counts/second (c/s) and the peak depths in feet (ft) versus the date on the same chart. Tank drywell information is available in Appendix F.

■ Tank Profiles and Other Drawings

The drawings included in this report have been compiled from several sources including as-built drawings, the Waste Storage Tank Status and Leak Detection Criteria (Welty 1988), and the Riser Configuration Document for Single-Shell Waste Tanks (Alstad 1991).

The risers and penetrations throughout the tank dome are used for many purposes. Some risers were installed during the original tank construction and others were added later.

Through the years, sleeves or smaller risers were installed in many of the larger risers. For the riser configurations in this report, a tank may have a riser number followed by a letter which means that a larger riser was fitted with smaller sleeves. Depending on the intended use, the riser sleeves can be as large as 12 in. or as small as 4 in. For example, a saltwell pump and screen require a 12-in. riser but a thermocouple tree requires only a 4-in. riser. The tank profile drawings are in Appendix K.

■ Photographs

The tank farm photos were labeled to indicate the relative position of each tank in the farm and arrows were added to show the cascade series of each tank farm.

The latest in-tank and tank farm photos were obtained from Pacific Northwest Laboratory. In-tank photos have been arranged to show the contents of each tank. The auxiliary equipment within each photo collage was identified if possible and labeled appropriately. The latest in-tank and tank farm photos are available in Appendix I.

■ Historical Sample Analysis Data

The sampling data were obtained from the WHC Tank Waste and Retrieval Group. Tables were made for the samples that were taken prior to September 1989. The information was compiled in EXCEL to present the data in as similar a manner as possible. The tables include physical data, chemical analysis data by component, and radiological analysis data by component. Any other data included with the sample references are summarized as text. Tank historical sample analysis data are available in Appendix H.

1.3.3 Approach and Development of the Process-Based Historical Tank Content Estimate

The process-based historical tank content estimates presented in this report were taken from work being performed by Los Alamos National Laboratories. The tank content estimates are the primary source of tank characterization data until the tank characterization reports are completed. The tank characterization reports will incorporate current core sampling and analysis results with historical-based tank content estimates to present the most current evaluation of the tank waste constituents.

Generating historical tank content estimates involves management and evaluation of large quantities of data. Several smaller components of the data management effort make up the system of generating historical tank estimates. The components are described in the following sections.

■ Waste Status and Transaction Record Summary Database

The waste status and transaction record summary database (i.e., transaction summary) is a database of all known waste transfer records. Historically, when waste was pumped from a process plant to tank or tank to tank, a record of the pumped waste volume and type was kept. The transaction summary is the recorded waste level of the solids and supernatant.

The waste status and transaction record summary database is being partitioned into four separate sections (i.e., quadrants). The waste status and transaction record summary database for the northeast quadrant is available in WHC-SD-WM-TI-615 Rev. 0 (Agnew 1994).

■ Tank Layering Model

The tank layering model is derived from the waste status and transaction record summary database. The purpose of the tank layering model is to predict the waste types and volumes in each tank. The transaction summary database records the types of waste that enter each tank and the corresponding increase in the solids volume from each waste entry. Each waste type that increases the solids volume in the tank is recorded in the tank layering model. Therefore, the completeness and accuracy of the information in the tank layering model is directly related to the completeness and accuracy of the transaction summary database.

The tank layering model was created to develop historical tank content estimates. The results of the tank layering model are reported in this document. The tank layering model is presented graphically with the inventory estimate described below in Appendix K.

■ Defined Waste Types

Early in the development of the historical tank content estimates, a need to compile the chemical compositions of all known waste types into one source document was recognized. This compilation was performed by Los Alamos National Laboratories. The Hanford defined waste document was developed independently of the waste status and transaction record summaries database and the tank layering model. However, the Hanford defined waste list will be used with the tank layering model to obtain the actual tank waste inventory estimates as described below.

The Hanford defined waste document gives the compositions for all known Hanford waste types that went into the double-shell and single-shell tanks. For more details of the methods used to develop these waste types, refer to the Hanford Defined Wastes Document (Agnew 1994).

■ Inventory Estimates

The end result of combining the tank layer model and the Hanford defined waste types is the tank inventory estimate. When the volumes and compositions of each waste type in a particular tank are known from the tank layering model and the Hanford defined

wastes document, a calculation of the total chemical inventory in the tank is performed. The individual tank results are presented in tabular form in Appendix K.

The inventory estimates developed by Los Alamos National Laboratory are quality checked against existing data from current sample analyses, thermal and physical models, and historical records. The checking constitutes a large portion of the time required to develop the estimates. When estimates are checked against existing data, the models used may be reevaluated. Thus, the process of generating estimates will iterate and the associated errors will be reduced over time as the historical knowledge of the tank waste operations increases.

1.3.4 Assumptions

The quality of the historical information available for the tanks often requires that assumptions and judgement calls be made on the applicability and validity of the data. Some assumptions were used to interpret the data.

■ Temperature Data

The lines joining the data points on the temperature plots were detached to show gaps in data of more than three years.

The single thermocouple tree in some tanks was removed and replaced with two trees. The original single thermocouple tree and tree 1 data were plotted on the same graph, and the tree 2 data were graphed separately.

No conclusion has been made on the status of thermocouples with less than 5 data points. In general, when there is thermocouple data with less than 5 data points, the data are retained on the temperature data sheets, but have not been plotted. Some possible explanations for the limited data are that the thermocouple failed, it was inoperable when readings were taken, or the operator misrepresented the number of thermocouples and the temperature data in the tank.

The thermocouples used in the trees were installed as purchased. There were no field calibrations before 1991. In 1991, a survey of Ferrocyanide Watch List thermocouple trees was conducted. The thermocouple tree probe temperatures were tested against probes inserted in liquid observation wells or by other methods as specified in Engineering Evaluation of Thermocouples in FeCN Watchlist Tanks, (Bussell 1992). Thermocouples, with equipment that could be repaired outside the tank, were made operable at this time.

It is assumed that the sinusoidal variances in the data can be attributed to seasonal and diurnal trends which are clear after 1991 due to an upgrade in thermocouple surveillance to a computerized data acquisition system, i.e., Tank Monitor and

Control System (TMACS). Also, in general, the temperatures decrease from the bottom to the top of the tanks.

All the temperature data received by ICF Kaiser Hanford Company was reviewed for suspect data points. Data that obviously deviate from the temperature trend for a any tank are marked as suspect and designated in the comment column as either "suspect data (low)" or "suspect data (high)". Typically, suspect data sharply deviates from the data trend 15 degrees F or more (See historical and thermocouple temperature data in Appendix D - Temperature Graphs and Data).

After review of the data, it was determined that some data was recorded in degrees Celsius rather than in degrees Fahrenheit as it was electronically received. The data are converted to Fahrenheit and evaluated against the rest of the data set. Where the converted data are found to be consistent with the temperature trend, they are designated in the comment column as "raw data - assumed degree C". Other delineations used to flag suspect data or substantiate the degree Celsius conversions are found from the Tank Waste Information Network System (TWINS) database, property of Battelle - Pacific Northwest Laboratory. Data recorded in degree C or input incorrectly and confirmed with TWINS are delineated in the comments column as: "degree C/TWINS confirm" and "wrong input/TWINS confirm", respectively (See historical and thermocouple temperature data in Appendix D - Temperature Graphs and Data).

In addition, some of the lines of data were flagged in the comment column by Westinghouse Hanford Company (WHC) before transmission of the data. Some of the WHC comment flags include "cass" or "SET#2 FROM CASS". It is assumed that "cass", an acronym for Computer Automated Surveillance System, applies to all the data taken on that particular day, and that "SET#2 FROM CASS" applies to the contiguous data designated under the TREE SET # column as 2 (See historical and thermocouple temperature data in Appendix D - Temperature Graphs and Data).

Sources of temperature data are located in the footnotes of both the temperature plots and data. Some Historical Temperature plots use data from Waste Status Summary Reports (Roberts, R.E. 2/58 - 10/58, Thress, M.A. 11/58 - 2/59, Lentz, J.E. 3/59-12/60, and Roberts, R.E. 6/61 - 6/62). If these reports are used, footnotes on the temperature plots indicate by including the source of data concisely as from "Waste Status Summary Reports" (See historical temperature plots in Appendix D - Temperature Graphs and Data).

■ Drywell Data

The drywell data did not appear to have had a quality review; therefore, the following assumptions were made about the data:

-A data point is considered suspect if an apparent rerun has been performed.

-A data point is considered to be a rerun if the preceding data are erratic and the rerun is performed on the same day if monitored daily, within one or two days if monitored weekly, or within several days if monitored monthly or yearly.

-If suspect data were indeed relevant, the appropriate surveillance organizations would have followed the appropriate procedures to identify any problems.

■ **Sampling Data**

The data obtained from the historical analytical information are understood to be widely variable in type, quality, and scope. The data range from process control data obtained from a grab sample on a few selected analytes to a total characterization suite performed on a core sample. There are no specific quantitative data quality criteria for the information incorporated into the historical tank content estimate. A qualitative assessment of the information sources is done during construction of the historical tank content estimate. The available data are assessed for suitability and consistency in the study and each data source is weighted appropriately for its contribution to the overall estimates.

When the sampling data were compiled, a sample was considered a solids sample if it was greater than 30% solids. Sludge/slurry samples were included.

■ **Inventory Estimates**

Solid waste formations vary by type and are determined individually by examination of the historical fill records. Further refinement and bounding of the solids formation are provided by conformation to physically attainable systems (e.g., waste volumes contained in the tanks do not exceed the tank capacity and negative void fractions are not possible).

Waste stream compositions were based on process flow sheet information and previous analytical data.

Solids were evenly distributed throughout tank. The solids were assumed to be evenly distributed throughout the slurry during their transfer and their settling rate was assumed to be uniform throughout the tank.

Complete settling of the sludge occurred and the solids settled in a pseudo-pancake formation (i.e., flat layers conforming to the boundaries of the tank) which was a simplifying assumption. Localized mounding and pocketing in various areas of the tank may have occurred due to inlet/outlet phenomena (e.g., cascades and transfers from the floating suction pumps that remove or deposit sludge). This phenomenon would have affected only a small fraction of the tank area and does not impact the overall results of this study. However, spatial variability within physical configuration and process history is acknowledged. No method is currently available that would adequately model this discrepancy. An effort

is underway to develop this concept and incorporate it into the tank characterization process, but it is incomplete at this time.

Solids from a specifically designated waste type are homogeneous, which is a simplifying assumption. Variation and layering of the sludge due to component concentration differences between batches, precipitate particle size, and particle density were quite likely. The effect of these factors on the distribution of analytes within the solids is unknown; however, the effect was probably small and not detectable with the present sample collection and analysis process.

Solids compaction did not occur and was not accounted for in the study which is a simplifying assumption. Although compaction probably occurred in the history of the tanks because of the formation of additional solids layers on top of each other, the degree of compression was not known and, therefore, was not incorporated.

Density and other physical characteristics of the solids were determined by individual waste type using available information or were based on approximate physical analogues.

The capacity of the tanks was never exceeded during transfers. Tank capacity is dependent on fill status, fill order, tank location in a cascade, and tank type.

Leaking of the tanks was not incorporated during the time of the study but was accounted for at the end.

Cascades, tank transfers, and crib line effluents were normally free of particulate; therefore, the majority of solids were confined to their initial receiver tanks and were not cribbed or transferred extensively from tank to tank. This assumption based on cases of plugged cascade lines when appreciable amounts of solids tried to cascade, and the pumping equipment typically was not designed to transfer of substantial quantities of solids (except when sluicing or specifically transferring solids). Monitors on the crib discharge lines should have indicated significant solids contamination, and the tank farm operating procedures would have prevented solids discharges to the ground.

1.4 Historical Information Quality

The quality of historical data compiled for this report varied greatly. Some data came from published documentation. Other data were retrieved electronically from various Westinghouse Hanford Company databases. The quality of data used in the estimates is described in the following section.

■ Level Histories

The level history narrative is designed to give a general description of the waste types contained in a specific tank from startup to the present. The history presents physical

characteristics of the waste such as waste pH values and the latest maximum temperature of the waste. It also presents information on when the tank was removed from service, if it was stabilized, the method of stabilization, if it ever leaked, and the current stabilization status. It is not designed to be a detailed summary of every waste type and transaction for that tank. The waste types are general and usually are given only for large transactions (i.e., if a waste is not of sufficient volume to significantly impact the total volume of the tank then it was not reported in the narrative). For a more complete record of transactions and types of wastes involved, see the waste status and transaction record summary (Agnew 1994).

The accuracy of the tank level histories relies on the completeness of the Westinghouse Hanford Company document "A History of the 200 Area Tank Farms" (Anderson 1990); the monthly Westinghouse Hanford Company, Atlantic Richfield Hanford Company, and Rockwell Hanford Operations waste summary reports; and the waste status and transaction record summary (Agnew 1994).

Surface level readings may be affected by several factors: plummet error, flushing water accumulation, and waste surface irregularities. Crystalline wastes (i.e., saltcake) can build up on the end of the plummet gradually and contact the waste which indicates a false surface level increase. Significant level discrepancies occur when the buildup breaks off or when the measuring instrument plummet is flushed to remove the saltcake buildups. Flushing the Food Instrument Corporation Gauge, manual tapes, or any other equipment may cause accumulated wash water to collect under the plummet which indicates a false increase in the overall volume of waste within the tank. Surface level readings often are difficult to obtain from tanks that have a relatively dry saltcake surface. Some tanks have crystalline buildup on in-tank equipment (i.e., pumps, thermocouples, liquid observation wells, and other protruding equipment). As the supernatant is pumped from the tanks, the crystalline structure may remain attached to the equipment and be suspended above the liquid. Therefore, an accurate surface level measurement would be difficult if the breakup of the crystalline structure was inconsistent and a nonuniform waste surface was created. Steel tapes that are bent or warped from operation or those discarded on the waste surface are other sources of altered surface level readings.

Routine measurements of solids and sludges in most SSTs were not reported in the Anderson document until 1965. The solids measurements are taken with a steel donut on a string and operators interpret the sludge level. The interpretation could introduce a wide range of variability in the recorded solids level. Sometimes estimates taken from photographic data and saltwell pumping activities are the only indications of the solids levels.

■ Liquid Observation Well Data

The liquid observation well data were obtained electronically from the Westinghouse Hanford Company Surveillance Group. Some

discrepancies exist in the liquid observation well readings for tanks with liquid waste surfaces. The discrepancies were supposed to be addressed in a December 1993 rebaselining of the liquid observation well data. Agreement between the liquid observation well plots and the data obtained from the surveillance group has been verified; however, errors in the data prior to the exchange of information could still exist. The liquid observation well data were understood to be unverified prior to the exchange. Therefore, the data should be reviewed before being used for any design purposes or safety evaluations.

■ Temperature Readings

The single-shell tank temperature profiles are provided by electronic data from Westinghouse Hanford Company. Agreement between the thermocouple plots and the data obtained from the surveillance group has been verified; however, errors in the data prior to the exchange of information could still exist. Thermocouples used in the thermocouple trees were purchased and installed according to the American Society of Testing and Materials (ASTM) standard. There were no field calibrations before 1991 when a survey of Ferrocyanide Watch List thermocouple trees was conducted and a few of the thermocouple trees were compared against a thermocouple probe inserted in a liquid observation well.

During a review of the plots, some thermocouples were found to have outlying data points and many of them have only one or two readings. The unusual readings may be the result of the thermocouples functioning on only one occasion, the operator misrepresenting the number of thermocouples in the tank, unnecessary thermocouples readings, or possible thermocouple failure.

Occasionally the operator would read the temperature in degrees celsius instead of degrees fahrenheit and would not indicate this on the data sheets. The thermocouple data were understood to be unverified prior to the exchange. An attempt has been made by ICF Kaiser Hanford to validate and verify the data, however, the data should be checked before being used for any design purposes or safety evaluations.

■ Surface Level Data

The surveillance automated computer system data were obtained electronically from the Westinghouse Hanford Company Surveillance Group and were plotted. The data are actual surface levels recorded from the surveillance equipment. If the surveillance equipment in a particular tank riser was removed from service, the readings may show a level change when a new instrument and/or riser is used, especially if the waste surface shows severe heterogeneity.

Agreement between the plots and the data obtained from the surveillance group has been verified; however, errors in the data prior to the exchange of information could still exist. The surveillance automated computer system data were understood to be

unverified prior to the exchange. Therefore, the data should be reviewed before being used for any design purposes or safety evaluations.

■ **Drywell Data**

The drywell information is received on data sheets for each drywell. If the readings are questionable, Westinghouse Hanford Company often will request a rerun of the drywell scan. Because the reruns are not indicated on the data sheets, it can be difficult to determine if the data sheet has been superseded. In some wells, several scans occurred on the same day with no explanation; therefore, the scan with the accepted results is not identifiable.

■ **Riser Configuration**

The riser configuration was determined from the WHC Riser Configuration Document for Single-Shell Waste Tanks (Alstad 1991). The information was current as of June 1991; therefore, any changes made after that date would not be included.

■ **Photographs**

The photo collages were made from the latest available in-tank photographs. In some tanks, photos have not been taken since the early 1970s. Some tanks had fogging problems in the vapor space which prevented use of the latest photos. Sometimes a review of the older photos was useful to determine the waste changes. Collages made from older photos may not be indicative of current tank contents, especially if the tank has been pumped since the last photo date.

■ **Historical Sample Analysis Data**

The historical sample results only refer to sample and analysis information obtained before August 1989. The historical sample and analysis results have not been validated by the characterization program. When validation occurs, they will be reissued in a later revision of the Historical Tank Content Estimate report and supporting documentation. The sample data often were retrieved from memos that indicated the results of the sample analysis. The analytical methods, holding times, and quality control information are unavailable. The location at which the sample was taken was not provided which leads to integration of some uncertainty into the sampling results. The analytical scope performed in many cases was quite narrow which limited the available data set. However, the data set is the only available historical chemical characterization information.

1.5 Background SW Quadrant

The SSTs located on the Hanford Site near Richland, Washington were built between 1943 and 1964 to provide interim storage for high-level nuclear wastes. Processes such as plutonium recovery from spent nuclear fuel rods and uranium metal recovery generated the millions of gallons of mixed radioactive hazardous waste solutions stored within these tanks.

The southwest quadrant located in the 200-West exclusion area consists of 43 tanks grouped into three tank farms. The tank farms are: S Farm (twelve 758,000 gal tanks), SX Farm (fifteen 1,000,000 gal tanks), and U Farm (twelve 500,000 gal tanks and four 55,000 gal tanks). Single-shell tank construction consists of mild steel cylinders and bases inside reinforced concrete, and covered by a reinforced concrete dome. Depending upon the farm, the top of the tanks are buried between 6 and 11 ft underground.

Several waste tanks are on watch lists. The definition of a watch list tank is explained in a later section of this report. Wastes stored in the NE quadrant were generated mostly from Plutonium Uranium Extraction (PUREX) and a Bismuth Phosphate Plant (B Plant); however, some tanks in the quadrant received wastes from the other onsite separation processes. The separation processes went through many changes as new technologies became available. Liquid waste volumes were reduced by evaporators, in-tank solidification units, or chemical precipitation of radionuclides. The resulting supernatant was disposed of in the ground. Vaults were used for temporary storage or treatment of waste and they were the intermediate storage point for tank waste or waste awaiting further processing. A special rail car facility in the NE quadrant was used to unload onsite waste that was distributed to an evaporator, tanks, or processing facilities. The facilities were sources of the waste that exists in the SSTs of the NE quadrant.

1.5.1 Waste Generating Processes

Although not all of the processes listed below contributed waste directly to tanks in the NE quadrant, the waste they generated could have been indirectly transferred to the quadrant through tank to tank transfers. The plants and processes that generated waste now contained in the SSTs and the DSTs are presented in chronological order.

■ T Plant

T Plant was the first-full scale separations plant at Hanford. It was constructed in 1944 and was used as a separation facility for irradiated production reactor fuel until 1956. The bismuth phosphate separation process used at T Plant was identical to the one used at B Plant. Since 1957, T Plant has been used as a decontamination and repair facility. The facility was modified in 1978 for storage of pressurized water reactor (PWR) core II fuel assemblies. T Plant provided facilities for decontamination, decomposition, repair, testing, shipping, and burial of contaminated tools and equipment from onsite and offsite locations.

The following wastes were sent to SSTs: waste solution from equipment decontamination efforts at T Plant, decontamination waste (DW), metal waste (MW) from the bismuth phosphate process, first-cycle (1C) decontamination waste from the bismuth phosphate process, and second-cycle (2C) decontamination waste from the bismuth phosphate process.

■ B Plant

B Plant was constructed between August 1943 and February 1945. The bismuth phosphate process ran until 1952. One of the first plants built along with T Plant, B Plant was designed to separate plutonium from uranium and the bulk of fission products in irradiated fuel via the bismuth phosphate separation process. In 1968, B Plant became a waste fractionation plant and was retrofitted to remove cesium 137 and strontium 90 from PUREX acid waste, high-level supernatant liquids, and sludge from self-boiling liquid wastes.

B Plant contained 40 processing cells that served several functions (e.g. equipment storage, radionuclide purification, liquid waste concentration, and solvent extraction). Cells 5, 23, 24 and 25 were used as liquid waste concentrators for the B Plant processing. Cell 23 of B Plant was used as a waste concentrator from July 28, 1967 to February 2, 1968. Because B Plant was being upgraded to a waste fractionation plant, the Cell 23 concentrator was running specifically to concentrate intermediate level waste in the single-shell tanks.

In 1974, the Waste Encapsulation and Storage Facility (WESF) was added to B plant to encapsulate strontium and cesium that was recovered from the B Plant process. The cesium capsules were leased commercially for irradiation of food, medical supplies, and lumber. The strontium and cesium capsules are stored in water basins for future retrieval. Currently most of B Plant is going through closure except for the plant sections that are needed to support the WESF mission. The closures result from a 1991 evaluation of the future B Plant mission.

The following B Plant waste streams were sent to SSTs: B Plant high-level waste (B), B Plant flush (BFSH), low-level waste from the waste fractionation plant (BL), complex concentrate (CC) or (CCPL), complexed waste (CPLX), fission products waste (FP), metal waste (MW), REDOX ion exchange waste processed at B Plant (RIX), ion exchange (IX), strontium sludge (SRS), cell 5 tank 6 waste (5-6), first-cycle waste (1C), and second-cycle waste (2C).

■ Bismuth Phosphate Process

The B and T Plants used a bismuth phosphate extraction to remove plutonium from uranium fuel elements. The extraction waste that resulted was a metal waste that still contained 90% of the fission products and 99% of the original uranium. The metal waste was sent to specific tank cascades in the 200-East and 200-West Areas. First-cycle decontamination waste (1C), which contained approximately 10% of the fission products, was also stored in other underground waste tanks in the 200 Areas.

■ Plutonium Finishing Plant

The Plutonium Finishing Plant (PFP or Z Plant), previously called Plutonium Recovery and Finishing Operations, began operation in late 1949 to process plutonium and prepare plutonium products.

PFP operations included plutonium handling, plutonium reclamation, plutonium conversion, and decontamination and decommissioning.

Waste from this plant contained minor amounts of fission products and low concentrations of plutonium and other transuranic elements, but was high in metallic nitrates. Initially, the waste was discharged via cribs to soil columns, which absorbed the transuranic elements and retained them close to the point of discharge. Later waste from Z plant was stored along with other waste in underground tanks.

The following waste was sent to tanks: waste from the Plutonium Reclamation Facility and the remote mechanical C line (Z).

■ Uranium Oxide Plant

The 224-U Building was completed in 1944 as part of the U Plant complex. The building was converted to a UO_3 plant in 1951. The 224-UA building was constructed in 1957 with six installed calciners. The UO_3 plant was able to handle the uranyl nitrate hexahydrate (UNH) stream from REDOX, U Plant, and PUREX. The UO_3 plant shut down in 1972 and restarted in 1984 with the feed lines from REDOX and the U Plant canyon disconnected. Since 1984, there have been 17 campaigns at the plant that averaged 8 days each. The plant can calcine UNH much faster than the PUREX plant can produce it. Final deactivation was ordered for the plants in 1992. In April 1993, the UO_3 plant resumed operations to convert 200,000 gal of remaining UNH to uranium oxide powder. A final deactivation plan for the facility was prepared in the summer of 1993 and will be carried out in the next few years.

In the basic UO_3 process, calcining consisted of concentrating and heating liquid UNH until it was converted to a stable orange-yellow powder. The nitric acid in the UNH solution was also recovered in the same process. The UO_3 powder was the base material needed to manufacture uranium hexafluoride (UF_6) which is the primary feed material for gaseous diffusion plants in the United States.

■ REDOX

The Reduction and Oxidation extraction (REDOX) plant was built between May 1950 and August 1951 and operated until July 1967. Uranium and plutonium were extracted from solid uranium metal slugs that were irradiated in the Hanford reactors or piles into a methyl isobutyl ketone (hexone) solvent by a continuous solvent extraction process. The REDOX process was the first at Hanford to recover both plutonium and uranium.

The waste stream which was slightly acidic contained fission products and large quantities of aluminum nitrate that were used to promote the extraction of plutonium and uranium. The waste was then neutralized and stored in SSTs.

The following wastes were sent to SSTs: REDOX process waste resulting from the dissolution of aluminum and zircaloy fuel element cladding, REDOX coating waste (CWR), REDOX high-level waste (R), and the supernatant liquid portion of waste generated by the REDOX process, REDOX supernatant (RSN). RSN is found above the sludge in the underground storage tanks.

■ U Plant

U Plant (221-U) was built as one of three original bismuth phosphate process facilities although it was not used for that purpose. U Plant was modified extensively and used for the uranium recovery process. U Plant operated from 1952 to 1958. The main canyon at U Plant currently stores failed equipment.

Uranium in waste from the BiPO_4 process initially was stored in the SSTs. Later it was mined by sluicing, dissolved in nitric acid, and processed through a solvent extraction process. For every gallon of metal waste originally stored, the uranium extraction process yielded approximately 1.4 gal of UR waste. The waste volume increase made development of a technology that would reduce the volume of the stored waste a priority. This need resulted in the development/implementation of the ferrocyanide scavenging process.

The waste sent to the SSTs from U Plant was called tributyl phosphate (TBP). In reality it contained very little TBP; therefore, to eliminate confusion, it will be referred to as uranium recovery (UR) waste in this report.

■ Strontium Semiworks

The strontium or hot semiworks processing facility (i.e., C Plant) was built in 1949 as a hot pilot plant for the REDOX process, but was later converted to a pilot plant for the PUREX process. In 1960, the plant was reactivated and used later as a process demonstration for the conversion of B Plant to a waste fractionation facility and was used to recover strontium 90, promethium 147, and cesium 144 from PUREX waste. The building and building site have been decontaminated and decommissioned.

The strontium semiworks waste sent to SSTs was known as hot semiworks (HS), strontium semiworks (SSW), and fission products waste (FP).

■ PUREX

The Plutonium Uranium Extraction (PUREX) plant (i.e., A Plant) was an advanced solvent extraction process that used tributyl phosphate in a paraffin hydrocarbon solvent to recover uranium and plutonium from nitric acid solutions of irradiated uranium. PUREX was built between April 1953 and April 1955, it operated until 1972 when it was closed for 11 years. Two thorium campaigns were conducted in the PUREX plant between 1966 and 1971. The irradiated waste was similar to the PUREX waste but it contained thorium and uranium 233 rather than uranium and plutonium which was extracted from typical PUREX waste. It began operating again in November

1983 and was shut down in 1988 after a safety violation. The PUREX Plant was shut down several times between 1988 and 1990 for various reasons. In October 1990, the PUREX Plant was put in standby mode and was eventually identified for closure in December 1992 by Secretary of Energy James Watkins.

The following PUREX waste streams were sent to SSTs: cladding waste (CW) or (CWP), organic solvent wash waste (OWW), neutralized PUREX plant acid waste (P), low-level waste from PUREX (PL), PUREX sludge supernatant liquid (PSS), organic wash waste using sodium carbonate (CARB), cesium feed (CF), and concentrated neutralized high-level waste (1WW).

1.5.2 Waste Management Operations

This section describes the different waste concentrating methods used in the 200 Areas. Evaporating, concentrating, and scavenging are all methods used to reduce liquid volumes or precipitate solids out of the supernatant solutions. The operations are presented in chronological order.

■ 242-T Evaporator

The 242-T Evaporator was built in the early 1950s to reclaim nonboiling waste storage capacity in existing tanks. The evaporator was shut down in the summer of 1955 and modified for tributyl phosphate scavenging, although scavenging was never performed in this evaporator. The 242-T Evaporator restarted in 1965 and operated until 1976. Tank 241-TX-118 was the feed tank for the evaporator.

The following wastes were sent to tanks from the 242 T Evaporator: Slurry product from the evaporator bottoms (EB), evaporator feed (EF), and terminal liquor (TL).

■ 242-B Evaporator

The 242-B Evaporator was built south of the B Tank Farm and started operating in December 1951. It received feed waste until November 1954 and was shut down in September 1955. The evaporator was never reactivated. Tanks 241-B-105 and -106 were used as the bottoms and feed tank respectively. The evaporator operated at atmospheric pressure.

■ Ferrocyanide Scavenging

Ferrocyanide scavenging was developed to reduce waste volumes. The ferrocyanide flow sheet was first tested in U Plant in October 1953. In-farm scavenging was completed in March 1956 and December 1957 for the 200-West and 200-East Areas respectively. The ferrocyanide scavenging program was designed to remove fission products such as ^{137}Cs (half life: 28.6 yr) and ^{90}Sr (half life: 30.2 yr) from the UR and 1C wastes as a precipitate. Because the ^{90}Sr was essentially insoluble in the neutralized UR waste, the strontium compounds would precipitate as phosphates, sulfates, or hydrated oxides when the acidic waste was neutralized. However, common cesium compounds are quite soluble even at alkaline pHs.

Development of the nickel ferrocyanide scavenging process provided a relatively simple process to precipitate ^{137}Cs and enhance the precipitation of ^{90}Sr . The precipitating chemicals were added in stainless steel process vessels with agitation (i.e. U Plant, T Plant, or the CR vault) and the waste slurry was routed

to specific SSTs for settling. After the ^{137}Cs and ^{90}Sr precipitates settled, the clarified supernatant was sampled and disposed of in cribs. After the ^{137}Cs and ^{90}Sr precipitates settled, the clarified supernatant was sampled and disposed of in cribs.

■ In-Tank Solidification

The primary function of the in-tank solidification systems was to concentrate the nonboiling waste directly inside of specially designed tanks that would produce a saltcake slurry. Each in-tank solidification system included a heat exchanger for water evaporation and a series of bottoms tanks. The first in-tank solidification unit (ITS #1) operated with an airlift circulator through Tank 241-BY-102 and the second in-tank solidification unit (ITS #2) operated with a similar circulator through Tank 241-BY-112. Tank 241-BY-112 contained a 4,000 kW electric immersion heater. Tank 241-BY-101 contained an in-tank solidification prototype that was used only for demonstration purposes. In-tank solidification units 1 and 2 began operating in 1965 and 1968, respectively. In 1971 in-tank solidification unit 1 became the cooler for in-tank solidification unit 2. Both units were shut down in 1974.

■ REDOX Concentrator

The REDOX concentrator was used for volume reduction of dilute 200-West Area tank farm wastes by removing water. The concentrator received tank farm wastes from July 28, 1967 until June 30, 1972. Cell D in the REDOX process was the concentration and neutralization section of the plant.

■ 242-S Evaporator/Crystallizer

The 242-S Evaporator/Crystallizer began operating in November 1973 and shut down in 1981. It was designed as a reduced pressure (i.e., partial vacuum) evaporator/crystallizer. Aqueous salt wastes were converted in the evaporator to salt crystals for storage in underground tanks in the S and SX Tank Farms.

The following waste types were sent to SSTs from the 242-S Evaporator: non-complexed waste concentrated until the solution was nearly saturated with sodium aluminate known as double-shell slurry feed (DSSF), slurry product from the evaporator bottoms (EB), evaporator feed (EF), Hanford defense residual liquor (HDRL), partial neutralized feed waste (PNF), and terminal liquor (TL).

■ 242-A Evaporator/Crystallizer

Construction of the 242-A Evaporator/Crystallizer was completed in 1976. The evaporator began operation in March 1977 with a design life of 10 years. In 1987, design changes were developed to extend the facilities operating life by 10 years. The

evaporator was shut down in April 1989 because of regulatory issues and restarted in May 1994 after extensive modifications.

The following evaporated wastes were sent to SSTs: evaporator bottoms from B Plant low-level waste feed (BLEB), non-complexed waste concentrated in evaporators known as double-shell slurry feed (DSSF), evaporator feed (EF) or (EVAP), evaporator bottoms (EB), and terminal liquor (TL).

1.5.3 Miscellaneous Waste Sources and Equipment

There are various other sources of waste on the Hanford Site, as well as other material added to the tanks. Some wastes are from the 300 Area, 100 Area production reactors, various laboratories, and catch tanks. Unique contents added to SSTs included laboratory wastes, diatomaceous earth, Portland cement, shroud tubes, ceramic balls, experimental fuel elements, and relatively small amounts of enriched uranium, plutonium, cobalt, and natural uranium.

The following wastes contribute to SST waste: diatomaceous earth (DE), Hanford defense residual liquor (HDRL), Hanford laboratory operations (HLO), filtered Hanford water (H₂O), phosphate decontamination waste from N reactor (N), and non-complexed waste (NCPL).

■ Critical Mass Lab

The critical mass lab was used to develop data on the factors that are necessary to make a criticality or self-sustained nuclear reaction occur. Because plutonium is the key radioactive element on the Hanford Site, the research was based on plutonium criticality safety in various fuel cycles. This facility was located next to the strontium semiworks and ran from the early 1950s to the early 1980s. The plutonium used in the lab was reprocessed in PUREX.

■ 244-AR, -BXR, and -CR Process Vaults

There are three process vaults in the NE quadrant: the AR Vault, the BXR Vault, and the CR Vault. The vaults were composed of several process vessels or tanks used to prepare the waste for treatment or storage. Specific wastes from tanks can be pumped temporarily to the vaults and the wastes can be sent directly to desired tanks or processing facilities later.

The AR Vault was designed and constructed between 1964 and 1968 and is located next to the A and AX Tank Farms. The AR Vault has been in standby mode since 1978.

The 244-BXR Vault is located south of the 241-BX Tank Farm and was constructed between 1950 and 1951. The BXR Vault began operating in 1952 and became inactive in 1956. The waste in the vault was difficult to handle, so the vault was high-pressure steam jetted in 1976. The vault was interim isolated after 1976 and interim stabilized in March 1985. Tank BXR-004 was removed in 1963.

The CR Vault was constructed in 1952 and is located next to the C Tank Farm. Saltwell waste from the C Tank Farm is interim stored in the CR Vault. The 244-BXR and -CR Vaults were constructed to aid in the recovery of uranium from bismuth phosphate metal waste. The CR Vault received waste from the Strontium Semiworks Plant en route to the 241-C Tank Farm.

■ **204-AR and 204-S Railroad Car Facilities**

The 204-AR rail car unloading facility was built in 1981 and replaced the 204-S rail car unloading facility. The facilities were built for unloading radioactive liquid waste tank cars.

Liquids or slurries from the 1314-N Building in the 100 Area and the 340 Building in the 300 Area are unloaded at the 204-AR unloading facility.

1.5.4 Timeline

The following timeline represents the times and spans of different events that occurred during the lifetime of major Hanford plants in the 200-East and 200-West Areas. The plants were the main contributors of waste currently contained in SSTs. The following list of abbreviations and corresponding meanings are used on the timeline:

PUREX:	Plutonium uranium extraction process
UO ₃ :	Uranium trioxide
PFP:	Plutonium finishing plant
RG-RB:	Rubber glove - remote button line
RMA:	Remote mechanical "A" line
RSE:	Recuplex solvent extraction
RMC:	Remote mechanical "C" line
PRF:	Plutonium reclamation facility
PCB:	Polychlorinated biphenyls
WESF:	Waste encapsulation and storage facility
ITS:	In-tank solidification (units 1 and 2)
PWR:	Pressurized water reactor
REDOX:	Reduction oxidation process

PROCESSES PRODUCING WASTE CONTAIN

ED IN 200 AREA TANK FARMS

1.6 Safety Issues

The safety issues that effect the tanks can be divided into two groups: watch list and non-watch list. The watch lists are listings of the tanks believed to pose potential safety hazards to the environment and the public. Non-watch list issues are of concern because they may impact the environment.

1.6.1 Watch List Safety Issues

Issues in these tanks were identified as "issues/situations that contain most necessary conditions that could lead to worker (onsite) or offsite radiation exposure through an uncontrolled release of fission products" under Public Law 101-510, Section 3137, of the National Defense Authorization Act of Fiscal Year 1991 (i.e., the Wyden Amendment). As of October 1993, 45 SSTs and 6 double-shell tanks are on a watch list. In the NE quadrant, 21 of the 66 SSTs are on a watch list. The four watch list designations described in this report are: ferrocyanide, hydrogen/flammable gas, organic salts, and high-heat load. The following sections provide a general description and criteria of the different watch lists. For a more complete explanation, refer to the Hanford Site Tank Farm Facilities Interim Safety Basis (WHC 1993).

■ Ferrocyanide

A tank containing or believed to contain greater than 1,000 gram moles of ferrocyanide (dry basis) is on the Ferrocyanide Watch List.

■ Hydrogen and Flammable Gas

Most tanks were placed on the Hydrogen/Flammable Gas Watch List because of the potential to contain flammable gases rather than the verified presence of hazardous concentrations. Hydrogen/Flammable Gas Watch List tanks have been identified as unreviewed safety questions due to the concern of a flammable gas burn resulting in a radiological release.

■ Organic Salts

Tanks containing or believed to contain more than the equivalent of 10% by weight of sodium acetate or 3 wt% total organic carbon (TOC) on a dry basis received a watch list designation as in the Tank Farm Surveillance and Waste Status Summary Report (Hanlon 1993).

■ High-Heat Loads

Tanks with a heat load greater than 40,000 Btu/hr are designated as high-heat load tanks. Tank 241-C-106 is the only high-heat load tank on the High-Heat Load Watch List.

A tank that does not appear on a watch list but has a heat load less than 40,000 Btu/hr is considered a low-heat load tank by default.

The following table lists the tanks in the SW quadrant that appeared on a watch list as of November 1993. A current listing is published monthly in the Tank Farm Surveillance and Waste Status Summary Report (Hanlon 1993).

SW Quadrant SST Watch List Tanks

SST Tank	Category	SST Tank	Category
241-S-102	Hydrogen & Organic Salts	241-SX-109	Hydrogen, other tanks vent through it
-S-111	Hydrogen	-U-103	Hydrogen
-S-112	Hydrogen	-U-105	Hydrogen
-SX-101	Hydrogen	-U-106	Organic Salts
-SX-102	Hydrogen	-U-107	Hydrogen & Organic Salts
-SX-103	Hydrogen	-U-108	Hydrogen
-SX-104	Hydrogen	-U-109	Hydrogen
-SX-105	Hydrogen	-U-111	Organic Salts
-SX-106	Hydrogen & Organic Salts		

1.6.2 Non-Watch List Safety Issues

Tank leaks are a safety hazard because of the potential chemical and radioactive liquid releases to the ground. Corrosion is the main cause of tank leaks and stabilization, integrity, and intrusion prevention are discussed in the corrosion section of this report. Criticality, tank bumps, and toxic vapor releases are other safety issues that do not require a watch list designation and/or continual monitoring under the Wyden Amendment.

■ Corrosion

Corrosion is believed to be caused by localized or general reduction in SST mild carbon liner thickness. Localized liner thickness reduction is caused by three types of corrosion: pitting corrosion, stress corrosion cracking, and crevice cracking. General liner thickness reduction may be caused by uniform corrosion.

The SSTs were removed from service on or before November 21, 1980 and no longer accept wastes. When the SSTs are deactivated, an effort is made to minimize potential leaks into the earth by reducing the liquid waste contained in the SSTs. Primary stabilization is the first deactivation process of removing the supernatant or free liquid above the solid wastes within the SSTs. Supernatant is removed by turbine or jet pumps in a saltwell system, low-volume submersible pumps, or in situ drying. In

saltwell systems, the liquid is pumped from the waste through a pipe screen in a manner similar to ground water pumping. Tanks with less than 50,000 gal of drainable interstitial liquid and less than 5,000 gal of supernatant liquid are known as interim stabilized tanks. Liquid waste is sent to the evaporator/crystallizer concentrating facilities and the concentrated waste is deposited into double-shell tanks (DSTs).

Eventually, SSTs will be interim stabilized and prepared for intrusion prevention (formerly known as interim isolation). Stabilization efforts will be completed prior to final closure of the SSTs. Partial isolation of the tanks includes sealing the piping and risers that are not required for pumping or other stabilization methods. Intrusion prevention is the total physical and administrative effort involved in sealing inactive storage tank accesses against liquid additions while still allowing for long-term surveillance.

There are 67 assumed/confirmed leaking SSTs in the 200 East and West Areas with 11 in the SW quadrant. The remaining 33 tanks in the SW quadrant are sound. There are 11 interim stabilized tanks in the SW quadrant and 33 noninterim stabilized tanks. Intrusion prevention is in place for 18 SSTs in the SW quadrant, and 25 tanks are at the partial interim isolation stage.

■ **Criticality**

Criticality is an inadvertent self-sustained nuclear chain reaction. Studies have concluded that a nuclear criticality accident in the tank farms is probably not an imminent risk. However, definitive knowledge of the fissile material inventory and distribution within the tanks is lacking. Therefore, criticality remains a safety issue. The key criticality radionuclide on the Hanford Site is plutonium. A fissile material criticality prevention specification of 125 kg has been placed on the tanks. An unusual occurrence report involving nuclear criticality was filed in June 1991 for Tank 241-C-104. An inventory of 56 kg was calculated later which indicated a low probability for criticality. Criticality is considered an unreviewed safety question but is not affected by the Wyden Amendment according to the Hanford Site Tank Farm Facilities Interim Safety Basis (WHC 1993).

■ **Tank Bumps**

Tank bumps have been an issue at Hanford since 1953 with the last bump occurring in 1968. The A Tank Farm is known to have had tank bumps. Tank bumps occur when heat from the hotter solid waste in the lower portion of the tank is suddenly transferred to a near boiling supernatant. Mixing can be achieved by "roll over" or sudden restart of airlift circulators which results in rapid fluid vaporization and a sudden internal tank pressurization that causes a bump. The three documented bumps that have occurred were due to airlift circulator failure followed by rapid startup of the airlift circulators which causes rapid mixing. Two key factors have been identified to control bumping: liquid and solid temperatures must be maintained as far away from the local boiling point as possible

and airlift circulators and ventilation systems must be operated as designed. A tank bump is extremely unlikely if airlift circulators and vent flow rates are maintained at 500 to 1,000 ft³/min per tank and 50 ft³/min to the airlift circulators, according to the Hanford Site Tank Farm Facilities Interim Safety Basis (WHC 1993).

■ **Toxic Vapor Releases**

The safety concern of toxic vapor releases have been analyzed recently at Hanford. Odors have been released from the C Tank Farm in the NE quadrant and from Tank 241-SY-101. Tank 241-C-105 has experienced releases that have resulted in worker exposure. If toxic vapors are determined to exist in a tank, three safety recommendations should be followed: determine a release rate, determine offsite and onsite exposure concentrations, and determine if the release is a spray effect. The entire issue of toxic gas releases at the tank farms has just begun to be understood, Hanford Site Tank Farm Facilities Interim Safety Basis (WHC 1993).

2.0 SX Tank Farm

2.0.1 SX Tank Farm History

The SX Tank Farm was constructed between 1953 and 1954 under specification HW-4957. It is located in the 200-West Area, south of 13th Street and the S Tank Farm, west of Beloit Ave., east of Cooper Avenue, and north of 10th Street. The SX Tank Farm contains 15 type IV tanks that were constructed to the third-generation design. They were the first tanks designed for self-boiling waste and the original construction included underground duct headers connected to a common condenser-ventilation system. The 75-ft diameter, 1 Mgal tanks have a 12-in. dish bottom, no knuckle, and a 30-ft operating depth. The tanks were designed with a primary steel liner and a concrete dome with various risers. The tanks are covered with approximately 7 ft 3 in of overburden. Various coatings and materials seal the inside and outside of the tanks liners, domes, risers, and manholes. Cascade overflows are connected from Tank 241-SX-101 to -102 to -103, Tank 241-SX-104 to -105 to -106, Tank 241-SX-107 to -108 to -109, Tank 241-SX-110 to -111 to -112, and Tank 241-SX-113 to -114 to -115. Tanks 241-SX-103, -106, -109, and -112 were designed to overflow to a crib. The tanks were designed to withstand pH values from 8-10, fluid temperatures up to 250° F, and a boiling period of 1-5 years.

Fourteen tanks contain non-complexed waste and one tank contains dilute complex waste. Six tanks are on the Hydrogen Watch List, one is on the Hydrogen Watch List and the Organic Salts Watch Lists, seven are high-heat load tanks, and two are low-heat load tanks.

The first six tanks started operation in 1954 by receiving REDOX Plant salt waste and first-cycle condensate. After the tanks had self-concentrated for several years, they served as bottoms and receiver tanks for the 242-S Evaporator. The other nine tanks were not released for operational use until late 1955 when they received REDOX high-level boiling waste and salt waste. The heat load on the ventilation system increased when wastes self-concentrated and sometimes condensate was refluxed back to tanks to maintain an even cooling rate. Airlift circulators were necessary to mix tank contents and prevent bumping.

The 1993 aerial photograph shows tank, condenser, control house, and transfer box locations in the SX Tank Farm. The arrows between tanks represent the direction of cascade overflows.

2.0.1.1 SX Tank Farm Waste History

The first six tanks in the SX Tank Farm started operation in 1954 and the last nine tanks began operating in late 1955. The first six tanks received REDOX Plant waste and first-cycle condensate; the other nine received REDOX high-level boiling waste. The first six tanks were full of liquid by early 1954. Tank 241-SX-106 served as a slurry receiver and a temporary storage

repository for customer waste and did not fill as quickly as the others. Most of the last nine tanks were filled with liquid during 1955 and the waste self-concentrated during the next few years. During the 1960s and 1970s, the last nine tanks developed leaks and were removed from service. As a result, none of the tanks contain much waste and some are almost empty. Tanks 241-SX-101 through -106 are one-half to two-thirds full of solids, mostly saltcake, and contain some sludge. All tanks were removed from service by 1980 and have been interim isolated or partially interim isolated.

2.0.1.2 SX Tank Farm Temperature History

The tanks within the SX Tank Farm, except Tank 241-SX-115, contain at least one thermocouple tree. Tanks 241-SX-107, -108, -109 and -112 contain 7 thermocouple trees. Tank 241-SX-110 and -111 contain 6 thermocouple trees. Tank 241-SX-115 has no thermocouple junction box and no readings have been taken since January 1991. Each of the remaining tanks has approximately 6 thermocouple probes on each tree. Tanks 241-SX-101, -102, -103, -104, -105, -106, and -109 are on the Hydrogen Watch List and Tank 241-SX-106 is on the Organic Salts Watch List. The watch list tanks have weekly temperature monitoring requirements and the rest have semiannual temperature monitoring requirements.

2.0.1.3 SX Tank Farm Integrity

The 15 1 Mgal tanks in the SX Tank Farm are out of service. As of November 1993, five tanks (i.e., Tanks 241-SX-101, -102, -103, -105, and -106) were categorized as sound and ten were categorized as assumed leakers (i.e., Tanks 241-SX-104, -107, -108, -109, -110, -111, -112, -113, -114, and -115). Tank integrity surveillance methods include liquid observation wells, surface level measurements, and leak detection drywells. If a discrepancy is observed as a result of the surveillance activities; notification, reporting, documentation, and investigation of the surveillance anomaly (data outside the criteria limits, changing trend, or departure from steady state) is conducted in accordance with the appropriate procedure. Generally, the first action is to determine if the discrepancy is caused by something other than a tank leak or intrusion.

Tanks 241-SX-101, -102, -103, -104, -105, and -106 have liquid observation wells to monitor the interstitial liquid level. The interstitial liquid levels are monitored weekly with a neutron probe and on request with a gamma probe. The maximum deviation from the established baseline is a 0.3-ft increase or a 0.4-ft decrease.

Surface level monitoring for manual measurement devices in the SX Tank Farm is conducted daily or quarterly, depending on the tank. The maximum allowable decrease from the established baseline is 2.0 in. for Tank 241-SX-106 or no criterion for all other tanks. The maximum allowable increase from the baseline is 1, 2, 3, or 5 in. depending on the tank. The no criterion designation was

established for waste tanks containing sludge with little or no solution. For these tanks, a surface level decrease is not a valid means of leak detection because the level may decrease from sludge slumpage (during saltwell pumping), tape flushes, and perforation of the exposed sludge at the point of probe contact. Tanks with a saltcake surface and equipped with an automatic Food Instrument Corporation gauge may have a 10-in. decrease criterion to alert operating personnel if the gauge unwinds in search of a conductive liquid surface.

The SX Tank Farm has 98 leak detection wells (i.e., drywells) that were drilled from 1954 to 1978. Five are not tank-specific and drywell 41-00-08 (active prior to 1990, current readings > 200 c/s) is currently active with readings greater than the 50 c/s background radiation. The drywells in the SX Tank Farm are monitored monthly, yearly, or on request with scintillation or Geiger-Mueller probes. Increased activity action criteria for monitoring conducted with scintillation and shielded scintillation probes are as follows: if the normal readings are less than 200 c/s, the readings must double and exceed 200 c/s; if the normal readings are greater than 200 c/s, the readings must double. Increased activity action criteria for monitoring conducted with Geiger-Mueller probes are as follows: if the normal readings are between 16 and 1,000 c/s, the readings must triple; if the normal readings are greater than 1,000 c/s, the readings must double. Drywells associated with assumed leaking tanks are monitored for contamination migration and the criteria limits only apply where new radiation peaks occur. If increasing drywell activity has not exceeded the action criteria stated above, appropriate personnel will determine if increased monitoring is required.

Tanks 241-SX-105, -107, -108, -109, -110, -111, -112, -114, and -115 in the SX Tank Farm have three laterals positioned approximately 8 ft below the tank bottoms. The laterals extend from four leak detection caissons and are monitored monthly with Geiger-Mueller probes. Lateral information will not be presented in this report.

The SX Tank Farm layout includes information on the peak drywell, lateral layout, tank integrity, and tank status. The drywell information is based on summarized data prior to 1987 and data collected from January 1990 to the present.

2.0.1.4 SX Tank Farm Historical Sample Analysis Data

The major waste products from the REDOX process are sodium nitrate, sodium aluminate, sodium silicate, chromium hydroxide, iron hydroxide, and zirconium oxide. The major evaporator product is sodium nitrate with minor amounts of phosphates, carbonates, and nitrites.

Test results from supernatant, sludge, and saltcake waste samples have been compiled to make up a historical collection or library. Data were selected from the collection for use in this

report. In most cases, one sample was obtained and analyzed at a time; therefore, measurement variability cannot be assessed in the analytical procedures or the sampling techniques. Homogeneity or a lack of it in the tanks cannot be evaluated from the data available.

Wastes were added to and removed from the tanks continuously until they were removed from service in the late 1970s or early 1980s. Because of the continuous activity, samples taken after activity ceased are more likely to represent the tank contents than the earlier samples. In many cases, the activities involved should be considered to determine the value of a sample.

Samples were usually analyzed for a specific purpose (i.e., to discover if the wastes in the tank could be sluiced, pumped, or concentrated further, or if supernatant could be sent to a crib). The specific nature of the samples often resulted in a fairly limited look at the chemicals that might be in the tank. For these reasons, the data provide less information than desired in most cases. However, the data provide some useful information for characterization of the tank contents when used cautiously.

2.0.2 Current Status of SX Tank Farm

Tanks 241-SX-101, -102, -103, -104, -105, -106, and -109, in the SX Tank Farm were added to the Hydrogen Watch List officially in January 1991. They are unreviewed safety questions because of the potential consequence of a radiological release resulting from a flammable gas burn. Previous safety studies did not investigate this potential. Tank 241-SX-106 is an organic salts watch-list tank and is a safety concern because high organic concentration in the tank could support an exothermic reaction at elevated temperatures and thus have a potential for release of high-level waste. Organic Salts Watch List tanks have a weekly temperature monitoring requirement. High-heat load tanks (>40,000 Btu/hr) include 241-SX-107, -108, -109, -110, -111, -112, and -114. The tanks are actively ventilated and are monitored weekly for temperature. Tanks 241-SX-113 and -115 are low-heat load tanks (<40,000 Btu/hr) low-heat load tanks. Typically, low-heat load tanks are monitored for temperature on a semiannual basis. Four categories of waste are stored in the SX Tank Farm including dilute complexed (in Tank 241-SX-101), non-complexed (in Tanks 241-SX-103, -106, -107, -108, -109, -110, -111, -112, -113, -114, and -115), and double-shell slurry feed (in Tanks 241-SX-102, -104, and -105). The waste volume totals 4,453,000 gal which is comprised of 63,000 gal of supernatant; 488,000 gal of saltslurry; 2,136,000 gal of saltcake; 512,000 gal of unknown waste; and 1,254,000 gal of sludge.

2.0.2.1 SX Tank Farm In-Tank Photographs

The SX Tank Farm is made up of 15 third generation design tanks. The first six tanks started operation in 1954 and the other nine were released for operation in late 1955. Tanks in this farm

were fitted with air-lift circulators and mechanical augers, thermocouples, and interconnected condensers to accommodate self-boiling wastes. The initial operations of REDOX brought the first self-boiling wastes to Hanford tanks in 1952. Many of these tanks developed leaks in the 1960s and were removed from service. Tanks that did not develop leaks served as bottoms and receiver tanks for the 242-S Evaporator.

The photographs for this tank farm were usually taken from one of the side risers and the camera was aimed toward the other side. Enough pictures were taken in each tank to cover the entire inside surface area and then the photos were assembled into a montage portraying the inside of each tank. Most of the photographic montages provide a good representation of present tank contents because, except where noted, no activity has occurred to affect the tank since the photographs were taken.

2.1 Tank 241-SX-101

2.1.1 241-SX-101 Tank History

2.1.1.1 Waste History Tank 241-SX-101

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-101 was filled with waste from the REDOX facility from the second quarter of 1954 until the third quarter of 1971. The tank received evaporator bottoms and/or REDOX ion exchange wastes from the fourth quarter of 1973 until the third quarter of 1975. From the fourth quarter of 1975 until the first quarter of 1979, the tank received terminal liquors, residual evaporator liquors, and partial neutralized feed wastes. The wastes originated from the bottoms and recycle streams of the 242-S Evaporator/Crystallizer. The tank received complexed waste from the second quarter of 1979 until the third quarter of 1980. In the fourth quarter of 1980, the waste was classified as non-complexed. Presently, the waste is classified as dilute complexed waste.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-101 received REDOX waste from the second quarter of 1954 until the third quarter of 1955. From the third quarter of 1957 until the first quarter of 1974, the tank received wastewater.

The tank was removed from service in 1980 and was partially isolated in June 1985. The tank level was adjusted in May 1978, July 1979, 1980, and April 1982. In-tank photographs were taken on the following dates: April 1968, October 1971, October 1974, October 1975, February 1978, two in 1979, September 1980, two in 1981, February 1982, February 1987, and October 1989. Sketch ES-TKS-E79, which shows a graphical representation of the Tank 241-SX-101 level history, and the historical waste level data used to make it are in Appendix C. Five pH readings are listed on the sketch: 12.5 in November 1974, >14.0 in July 1979, 13.4 in July 1980, 13.6 in October 1980, and 13.3 in April 1990. The latest maximum temperature reading from October 1993 is 140° F. Presently, the tank is categorized as sound and is non-stabilized.

2.1.1.2 Temperature History 241-SX-101

The single thermocouple tree in Tank 241-SX-101 has six thermocouple probes in riser 15. Risers 2 and 10 were also used to monitor the waste temperature, but no longer contain a thermocouple tree. Thermocouple elevations are not available. Thermocouples 1 through 4 have similar readings that span from January 1988 to the present. Thermocouple 5 shows trends similar to those found in the first 4 thermocouples and span from January 1988 to June 1992. Two data points are available for thermocouple 6: one in July 1988 and the other in January 1993.

The mean temperature of the first electronically available thermocouple data taken was 163°F. A sum of the squares regression line fit averaged for thermocouples 1 through 5, starting in 1988, shows a slightly decreasing near zero slope $\pm 3^\circ\text{F}$. Not enough data points for thermocouple 6 are recorded to give any conclusive information about in-tank temperature trends. Thermocouple 5 recorded temperatures 15°F lower than other thermocouples in the tank. From January 1988 until now, the median temperature has been 136.7°F with a minimum of 101.6°F and a maximum of 174°F. Tank 241-SX-101 is on the Hydrogen Watch List and has a weekly temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-101 are in Appendix D.

2.1.1.3 Integrity of Tank 241-SX-101

Tank 241-SX-101 is categorized as sound and is partially isolated. The Tank 241-SX-101 surface level is monitored with a Food Instrument Corporation gauge. The gauge is set in the intrusion mode for a 1-in. increase. If the Food Instrument Corporation gauge fails, manual field measurements will be conducted quarterly, and the maximum allowable increase from the 172-in. baseline is 3 in. There is no criterion for a decrease. Due to the Food Instrument Corporation gauge setting, a limited number of surface level measurements is available. A figure in Appendix E graphically represents the surface level measurements taken during the first and second quarters of 1993. The two readings are 171.2 and 166.9 in.

The Tank 241-SX-101 liquid observation well is located in riser 14. The tank is monitored weekly with a neutron probe and on request with a gamma probe. The maximum deviations from the established baseline value are a 0.3-ft increase and a 0.4-ft decrease. Sketch ES-TKS-E79, in Appendix C, includes a graphical representation of the liquid observation well data.

Seven drywells are identified for Tank 241-SX-101. Drywells 41-01-01 (active prior to 1987, no longer active) and 41-01-06 (not active prior to 1991, current readings < 200 c/s) have or had readings greater than the 50 c/s background radiation.

Appendix F contains graphical representations of the data for the active drywells from January 1990 to the present. The graphs include the peak c/s (some wells have multiple peaks), the depth at which the peak occurred, and the date of the reading.

2.1.1.4 Historical Sample Analysis Data for Tank 241-SX-101

Tank 241-SX-101 was used for interim storage of customer waste. Results are included in this report of six analyses from Tank 241-SX-101 that were performed between November 1974 and October 1980. The most recent samples, analyzed on October 29, 1980, were reported as consisting of a very dilute solution

containing a small quantity of reddish-brown solids. The analysis was made on two samples, one near the surface and the other 15.5 ft down. The supernatant was mostly sodium nitrate but also contained some sodium aluminate, sodium carbonate, and sodium phosphate. A 70% solids sample taken in July 1980, showed the solids to be primarily iron and chromium compounds and the supernatant to be mostly nitrates. The solids were thought to be corrosion products. A 1979 sample was dark green in appearance, a 1978 sample was grayish-white, and the 1974 sample was a clear, yellow liquid. The analysis of the 1979 sample was similar to the 1980 supernatant sample. The results of these analyses are presented in Appendix H.

2.1.2 Current Status of Tank 241-SX-101

Tank 241-SX-101 entered service in May 1954 and currently stores 456,000 gal of waste. The waste material is comprised of 1,000 gal of supernatant; 52,000 gal of saltslurry; 71,000 gal of unknown waste; and 332,000 gal of sludge with 124,000 gal of pumpable liquid remaining. The tank is identified on the Hydrogen Watch List, is actively ventilated, and is categorized as sound with partial interim isolation completed. Tank 241-SX-101 is equipped to cascade to Tank 241-SX-102 and is first in the three-tank cascade flow series. Appendix G contains a plan view and tank cross-section that depict the approximate waste level and riser configuration. Tank 241-SX-101 has a total of 17 risers and two are available for use: one 8-inch riser (no. 11) and one 12-inch riser (no. 19).

2.1.2.1 Waste Layer Volume Approximation for Tank 241-SX-101

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.1.2.2 In-Tank Photograph 241-SX-101

From the picture of Tank 241-SX-101 in Appendix I, the waste surface appears to be completely dry and the tank waste seems to be well mixed. The tank contained a substantial amount of supernatant when it was sampled for chemical analyses; therefore, the chemical data may not be a true representation of tank contents. The tank contained a self-concentrator that appears clearly in the montage. Temperature probes, a liquid observation well, and a level probe are also shown. A discarded level measurement tape is on the waste surface in the center of the picture and two darkened areas may be due to some foreign contaminant. Currently the tank is filled with waste to a height of approximately 14 ft which corresponds with a waste quantity of about 460,000 gal.

2.1.3 Synopsis Tank 241-SX-101

(To be completed)

2.2 Tank 241-SX-102

2.2.1 241-SX-102 Tank History

2.2.1.1 Waste History Tank 241-SX-102

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-102 was filled with waste from the REDOX facility from the second quarter of 1954 until the first quarter of 1972. The tank received salt waste during the third quarter of 1955. From the first quarter of 1962 until the fourth quarter of 1964, there were several transfers from the TX tank farm. From the second quarter of 1972 until the fourth quarter of 1977, the tank received evaporator bottoms, REDOX ion exchange, evaporator feed, and residual evaporator liquor wastes from the 242-S Evaporator/Crystallizer. In the first quarter of 1978 the tank received partial neutralized feed waste, which continued until the second quarter of 1980. In the third quarter of 1980, the waste was classified as double-shell slurry feed. The waste is still classified as double-shell slurry feed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-102 received wastewater from the second quarter of 1971 until the first quarter of 1972.

The tank was removed from service and labeled inactive in 1980. The tank was partially isolated in June 1985. The tank level was adjusted in January 1977, August 1980, and April 1982. In-tank photographs were taken on the following dates: September 1971, several in 1975, two in 1976, January 1977, several in 1978, two in 1980, March 1984, and July 1988. Sketch ES-TKS-E80, which shows a graphical representation of the Tank 241-SX-102 level history, and the historical waste level data used to make it are in Appendix C. Four pH readings are listed on the sketch: 12.2 in August 1972, 13.3 in October 1974, >14.0 in April 1975, and >14.0 in March 1980. The latest maximum temperature reading from October 1993 is 152° F. Presently, the tank is categorized as sound and is non-stabilized. A figure in Appendix C graphically represents the Tank 241-SX-102 level history.

2.2.1.2 Temperature History 241-SX-102

The single thermocouple tree in Tank 241-SX-101 has 6 thermocouple probes in riser 16. Thermocouple elevations are not available. Thermocouples 1 and 6 have similar readings that span from January 1988 to the present. Thermocouples 2 through 5 have a large gaps in the available data, and cover the same time period as thermocouples 1 and 6. Thermocouple 2 has gaps between August 1988 and January 1991 and between March 1991 and August 1993. Thermocouples 3 and 4 have a gap between August 1988 and August 1993. Thermocouple 5 has gaps between April 1989 and March 1992 and between May 1992 and August 1993. Overall, the temperature

readings decrease a maximum of 60°F from thermocouple 1 to thermocouple 6 which is probably due to the increasing elevation with each thermocouple number.

The mean temperature of the first electronically available thermocouple data was 146°F. A sum of the squares regression line fit averaged for all the thermocouples, starting in 1988, shows a slightly decreasing near zero slope $\pm 6^\circ\text{F}$. Outlying points occur in July 1988 and October 1993 for thermocouple 1, in February and October 1993 for thermocouple 3, and in April 1992 for thermocouple 5. A common outlying point is apparent in March 1989 for thermocouples 5 and 6. An annual temperature undulation or seasonal temperature trend is more apparent in thermocouple 6 after January 1991. From January 1988 to the present, the median temperature is 143.2°F with a minimum of 76.7°F and a maximum of 191°F. Tank 241-SX-102 is on the Hydrogen Watch List and has a weekly temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-102 are in Appendix D.

2.2.1.3 Integrity of Tank 241-SX-102

Tank 241-SX-102 is categorized as sound and is partially isolated. The Tank 241-SX-102 surface level is monitored with a Food Instrument Corporation gauge. The gauge is set in the intrusion mode for a 1-in. increase. If the Food Instrument Corporation gauge fails, manual field measurements will be conducted quarterly and the maximum allowable increase from the 205-in. baseline is 3 in. There is no criterion for a decrease. Due to the Food Instrument Corporation gauge setting, a limited number of surface level measurements are available. Appendix E contains a figure which graphically represents the surface level measurements taken during the third quarter of 1992 and the second quarter of 1993. The three readings range from 197.8 to 196 in.

The Tank 241-SX-102 liquid observation well is located in riser 14. The tank is monitored weekly with a neutron probe and on request with a gamma probe. The maximum deviations from the established baseline are a 0.3-ft increase and a 0.4-ft decrease. Sketch ES-TKS-E80 in Appendix C includes a graphical representation of the liquid observation well data.

Six drywells are identified for Tank 241-SX-102. Drywells 41-02-02 (active prior to 1990, current readings > 200 c/s), 41-02-08 (active prior to 1990, current readings < 200 c/s), and 41-02-11 (active prior to 1990, current readings < 200 c/s) have or had readings greater than the 50 c/s background radiation.

Appendix F contains graphical representations of the data for the active drywells from January 1990 to the present. The graphs include the peak c/s (some wells have multiple peaks), the depth at which the peak occurred, and the date of the reading.

2.2.1.4 Historical Sample Analysis Data for Tank 241-SX-102

Results of six sets of samples taken from Tank 241-SX-102 between October 14, 1974 and September 3, 1980 are included in this report. The most recent sample was 40% solids and was found to contain primarily oxides of chromium and uranium with lesser amounts of lead, bismuth, iron, nickel, and zirconium. A sample of salt analyzed in 1976 contained almost all sodium nitrate. A sludge sample was analyzed in November 1974, a layer of floating solid material was analyzed in May 1975, and a liquid sample was analyzed in October 1974. The complete chemical and physical data from these samples are presented in Appendix H.

2.2.2 Current Status of Tank 241-SX-102

Tank 241-SX-102 entered service in May 1954 and currently stores 543,000 gal of waste. The waste is comprised of 46,000 gal of saltslurry; 438,000 gal of saltcake; 33,000 gal of unknown waste; and 26,000 gal of sludge with 177,000 gal of pumpable liquid remaining. The tank is identified on the Hydrogen Watch List, is actively ventilated, and is categorized as sound with partial interim isolation completed. Tank 241-SX-102 is equipped to cascade to Tank 241-SX-103 and is second in the three-tank cascade series. Appendix G contains a figure that depicts the approximate waste level and riser configuration. Tank 241-SX-102 has 13 risers and one 12-in. riser, no. 8, is available for use.

2.2.2.1 Waste Layer Volume Approximation for Tank 241-SX-102

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.2.2.2 In-Tank Photograph 241-SX-102

The entire waste surface in the Tank 241-SX-102 picture appears to have solidified, except for the small liquid area in the foreground (see Appendix I). Data from the level history diagram agree with this observation. A sample taken from this tank in 1980 was found to contain chromium, lead and uranium oxide, and a variety of other compounds normally found in the tanks. The waste surface seems to be composed of at least two distinct structural phases which could indicate some lack of homogeneity in the waste matrix. The Food Instrument Corporation level probe is shown clearly in the middle of the tank and the temperature probe, the Liquid Observation Well, and a saltwell screen are found around the perimeter of the tank. No debris is evident on the surface. The tank contains approximately 540,000 gal of waste with a total depth of approximately 17 ft.

2.2.3 Synopsis Tank 241-SX-102

(To be completed)

2.3 Tank 241-SX-103

2.3.1 241-SX-103 Tank History

2.3.1.1 Waste History Tank 241-SX-103

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-103 was filled with waste from the REDOX facility from the second quarter of 1954 until the first quarter of 1971. The tank was air sparged from the fourth quarter of 1958 until the third quarter of 1960. In addition to the REDOX waste, the tank received coating waste and organic solvent wash waste from the third quarter of 1971 until the first quarter of 1975. From the second quarter of 1975 until the second quarter of 1976, the tank received bottoms and recycle waste from the 242-S Evaporator/Crystallizer. The tank contained evaporator feed and residual evaporator liquor from the third quarter of 1976 until the fourth quarter of 1977. From the first quarter of 1978 until the second quarter of 1980, the tank contained partial neutralized feed waste. In the third quarter of 1980, the waste was classified as double-shell slurry feed. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-103 received wastewater during the fourth quarter of 1963.

The tank was labeled inactive in 1978 and was removed from service in 1980. It was partially isolated in June 1985. The tank level was adjusted in September 1978, August 1980, and July 1991. In-tank photographs were taken on the following dates: May 1971, several in 1975, July 1976, two in 1977, two in 1978, several in 1980, January 1983, and December 1987. Sketch ES-TKS-E81, which shows a graphical representation of the Tank 241-SX-103 level history, and the historical waste level data used to make it are in Appendix C. Four pH readings are listed on the sketch: 11.8 in February 1972, 13.1 in October 1974, 14.0 in April 1975, and 13.2 in May 1988. The latest maximum temperature reading from October 1993 is 176° F. Presently, the tank is categorized as sound and is non-stabilized.

2.3.1.2 Temperature History 241-SX-103

The single thermocouple tree in Tank 241-SX-103 has 6 thermocouple probes in riser 2. Elevations are available for all the thermocouple probes. Thermocouples 1 through 3 and 5 have similar readings that span from January 1988 to the present. Two data points are available for thermocouple 4: one in July 1988 and one in April 1993. Data for thermocouple 6 contain fewer points than probes 1 through 3 and 5 and span from January 1988 to November 1993. A gap in the data is apparent from October 1988 to October 1991. The data for this thermocouple are approximately 90 to 100°F lower than readings for the previous 5 probes which is

probably due to the thermocouple elevation for the probe being much higher than the previous probes. After October 1991, the data vary widely. Review of the Tank 241-SX-103 level history indicates that over the time span of the available readings, thermocouple probes 1 through 5 are in the solids, and thermocouple 6 is in the vapor space.

The mean temperature of the first electronically available data was 169°F. A sum of the squares regression line fit averaged for thermocouples 1 through 5, starting in 1988, shows a slightly decreasing near zero slope $\pm 2.7^\circ\text{F}$. Not enough data points for thermocouple 4 are recorded to give any conclusive information about in-tank temperature trends. A sum of the squares regression line fit for thermocouple 6, starting in 1988, shows a near zero slope $\pm 19^\circ\text{F}$ over the time span of available data. From January 1988 to the present, the median temperature is 175°F with a minimum of 38°F and a maximum of 233°F. Tank 241-SX-103 is on the Hydrogen Watch List and has a weekly temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-103 are in Appendix D.

2.3.1.3 Integrity of Tank 241-SX-103

Tank 241-SX-103 is categorized as sound and is partially isolated. The Tank 241-SX-103 surface level is monitored with a Food Instrument Corporation gauge. The gauge is set in the intrusion mode for a 1-in. increase. If the Food Instrument Corporation gauge fails, manual field measurements will be conducted quarterly and the maximum allowable increase from the 242.6-in. baseline is 3 in. There is no criterion for a decrease. Due to the Food Instrument Corporation gauge setting, a limited number of surface level measurements is available. Appendix E contains a figure that graphically represents the surface level measurements from January 1991 to February 1992 and from September 1992 to June 1993. The readings range from 243.5 to 238.1 in. Occurrence Report No.92-0078 was issued in October 1992 when the Food Instrument Corporation gauge indicated a waste level decrease in excess of the 5 in. maximum allowable decrease. The Food Instrument Corporation level indicator was found to be out of calibration by 1.5 in. When recalibrated, the subsequent readings were within the allowable deviation limits.

The Tank 241-SX-103 liquid observation well is located in riser 14. The tank is monitored weekly with a neutron probe and on request with a gamma probe. The maximum deviations from the established baseline are a 0.3-ft increase and a 0.4-ft decrease. Sketch ES-TKS-E81 in Appendix C is a graphical representation of the liquid observation well data.

Six drywells are identified for Tank 241-SX-103. Drywell 41-03-02 (active prior to 1990, current readings < 200 c/s) has or had readings greater than the 50 c/s background radiation.

Appendix F contains figures that are graphical representations of the data for the active drywell from January 1990 to the present. The graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.3.1.4 Historical Sample Analysis Data for Tank 241-SX-103

Four sets of samples from Tank 241-SX-103 are included in this report which were analyzed between June 10, 1975 and October 10, 1977. The samples taken in 1977 were dark grey slush that was found to be 42% liquid. Salts from the tank were analyzed twice in 1976 and they were found to be mostly sodium nitrate. A reddish-brown sludge from the tank was analyzed in 1975 for plutonium content and heat generation. Complete results from these analyses are in Appendix H.

2.3.2 Current Status of Tank 241-SX-103

Tank 241-SX-103 entered service in May 1954 and currently stores 652,000 gal of waste. The waste is comprised of 1,000 gal of supernatant; 539,000 gal of saltcake; and 10,000 gal of unknown waste; and 102,000 gal of sludge with 211,000 gal of pumpable liquid remaining. The tank is identified on the Hydrogen Watch List, is actively ventilated, and is categorized as sound, with partial interim isolation completed. Tank 241-SX-103 is third in the three-tank cascade series. Appendix G contains a figure that depicts the approximate waste level and riser configuration. Tank 241-SX-103 has 13 risers and one 12-in. riser, no. 7, is available for use.

2.3.2.1 Waste Layer Volume Approximation for Tank 241-SX-103

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.3.2.2 In-Tank Photograph 241-SX-103

The assembled photographs of the inside of Tank 241-SX-105 provide a clear picture of the waste surface (see Appendix I). The picture shows a few pools of liquid randomly distributed in a predominantly solid surface. The last analytical samples from the tank, taken in 1977, were reported to be dark grey which indicates that the colors in the picture are reasonably true. The level gauge, temperature probe, and saltwell screen are all visible and labeled. Manholes, risers, and nozzles are clearly seen in the picture. One or more level measurement tapes are on the surface in the center of the tank. The waste level in the tank dropped a few inches after the photographs were taken; therefore, some liquid that shows in the pictures may no longer be there. Currently, the tank contains about 650,000 gal of waste which corresponds with a depth of approximately 20 ft.

2.3.3 Synopsis Tank 241-SX-103

(To be completed)

2.4 Tank 241-SX-104

2.4.1 241-SX-104 Tank History

2.4.1.1 Waste History Tank 241-SX-104

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-104 was filled with waste from the REDOX facility from the first quarter of 1955 until the third quarter of 1971. The tank received evaporator bottoms and REDOX ion exchange waste from the fourth quarter of 1971 until the second quarter of 1975. From the third quarter of 1975 until the second quarter of 1976, the tank received bottoms and recycle from the 242-S Evaporator/Crystallizer. The tank received concentrated evaporator feed during the third quarter of 1976. From the fourth quarter of 1976 until the fourth quarter of 1977, the tank received residual evaporator liquor waste. From the first quarter of 1978 until the fourth quarter of 1979, the tank contained partial neutralized feed waste. In the first quarter of 1980, the waste was classified as double-shell slurry feed. The waste is still classified as double-shell slurry feed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-104 received REDOX waste from the first quarter of 1955 until the third quarter of 1956. From the second quarter of 1957 until the third quarter of 1965, the tank received wastewater.

The tank was removed from service and labeled inactive in 1980. The tank was partially isolated in June 1985. Between June 1988 and June 1989, 113,200 gal of liquid were saltwell jet pumped. The tank's level was adjusted in August 1980, four times in 1988, and five times in 1989. In-tank photographs were taken on the following dates: October 1971, July 1975, several in 1976, February 1977, several in 1978, April 1979, two in 1980, April 1981, February 1984, and August 1988. Sketch ES-TKS-E82, which shows a graphical representation of the Tank 241-SX-104 level history, and the historical waste level data used to make it are in Appendix C. Five pH readings are listed on the sketch: 11.7 in February 1972, >13.1 in October 1974, >14.0 in February 1975, 13.5 in December 1975, and 13.0 in May 1988. The latest maximum temperature reading from October 1993 is 168° F. Presently, the tank is categorized as an assumed leaker and is non-stabilized.

2.4.1.2 Temperature History 241-SX-104

The single thermocouple tree in Tank 241-SX-104 has 6 thermocouple probes in riser 2. Elevations are available for all the thermocouple probes. The thermocouples have similar readings that span from January 1988 to the present. Temperature readings for thermocouple probe 6 are 60 to 70°F lower than those for the previous probes. The lower readings are probably due to the elevation for probe 6 being much higher than the other probe

elevations. Review of the Tank 241-SX-104 level history indicates that over the time span of the available readings, thermocouple probes 1 through 5 are in the solids, and thermocouple 6 is in the vapor space.

The mean temperature of the first electronically available thermocouple data was 167°F. A sum of the squares regression line fit averaged for all the thermocouples, starting in 1988, shows a slightly decreasing near zero slope $\pm 5^\circ\text{F}$ over the time span of available readings. An annual temperature undulation or seasonal temperature trend is apparent in thermocouple 6 after January 1991. From January 1988 to present, the median temperature is 157.65°F with a minimum of 55.1°F and a maximum of 224.4°F. Tank 241-SX-104 is on the Hydrogen Watch List and has a weekly temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-104 are in Appendix D.

2.4.1.3 Integrity of Tank 241-SX-104

Tank 241-SX-104 is categorized as an assumed leaker and is partially isolated. The Tank 241-SX-104 surface level is monitored with a Food Instrument Corporation gauge. The gauge is set in the intrusion mode for a 1-in. increase. If the Food Instrument Corporation gauge fails, manual field measurements will be conducted quarterly and the maximum allowable increase from the 237-in. baseline is 5 in. There is no criterion for a decrease. Data are not available for a surface level plot due to the Food Instrument Corporation gauge setting.

The liquid observation wells for Tank 241-SX-104 are located in risers 14 and 16 which are out of service. The tank is monitored weekly with a neutron probe and on request with a gamma probe. The maximum deviations from the established baseline are a 0.3-ft increase and a 0.4-ft decrease. Sketch ES-TKS-E82 in Appendix C is a graphical representation of the liquid observation well data.

Six drywells are identified for Tank 241-SX-104. Drywell 41-04-03 (active prior to 1990, current readings > 200 c/s) is active with readings greater than the of 50 c/s background radiation.

Appendix F contains a figure that is a graphical representation of the data for the active drywell from January 1990 to the present. The graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.4.1.4 Historical Sample Analysis Data for Tank 241-SX-104

Six sets of samples from Tank 241-SX-104 were analyzed between December 16, 1974 and July 7, 1988 and are included in this report. Two samples were taken in 1988: one from the upper portion of the tank and one from a lower level. The samples were

primarily liquid with a small amount of grey solids. The solutions were determined to be nearly saturated in dissolved metallic salts and the major radionuclide present was cesium-137. A salt sample analyzed in 1977 was also grey and was found to contain mostly sodium nitrate. Similarly, a sample in 1976 contained various sodium salts. Appendix H contains tables that show the results of the six analyses.

2.4.2 Current Status of Tank 241-SX-104

Tank 241-SX-104 entered service in February 1955 and currently stores 614,000 gal of waste. The waste is comprised of 445,000 gal of saltcake and 169,000 gal of sludge with 195,000 gal of pumpable liquid remaining. The tank is identified on the Hydrogen Watch List, is actively ventilated, and is categorized as an assumed leaker, with partial interim isolation completed. Tank 241-SX-104 is equipped to cascade to Tank 241-SX-105 and is first in the three-tank cascade series. Appendix G contains a figure that depicts the approximate waste level and riser configuration. Tank 241-SX-104 has 12 risers and two are available for use: one 4-in. riser, no. 3, and one 12-in. riser, no. 7.

2.4.2.1 Waste Layer Volume Approximation for Tank 241-SX-104

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.4.2.2 In-Tank Photograph 241-SX-104

The waste surface in the Tank 241-SX-104 picture appears to have solidified, with the exception of a few small liquid areas around the perimeter of the tank (see Appendix I). The tank mostly contains saltcake which is primarily sodium nitrate and that is what appears to be on the waste surface. Soon after the pictures were taken, the tank level dropped; therefore, the tank now may contain less liquid than the picture indicates. The Food Instrument Corporation level probe, the temperature probe, the liquid observation well, and a saltwell screen are all visible and labeled. Currently, the tank contains about 600,000 gal of waste which corresponds with a depth of approximately 19 ft.

2.4.3 Synopsis Tank 241-SX-104

(To be completed)

2.5 Tank 241-SX-105

2.5.1 241-SX-105 Tank History

2.5.1.1 Waste History Tank 241-SX-105

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-105 was filled with waste from the REDOX facility from the second quarter of 1955 until the second quarter of 1971. The tank received waste from Hanford Laboratory Operations during the third and fourth quarters of 1967. From the fourth quarter of 1967 until the first quarter of 1969, the tank received evaporator bottoms waste from REDOX. From the fourth quarter of 1971 until the first quarter of 1975, the tank received evaporator bottoms and REDOX ion exchange wastes. The tank contained evaporator bottoms, evaporator feed, or residual evaporator liquor wastes from the second quarter of 1975 until the fourth quarter of 1979. From the first quarter of 1978 until the fourth quarter of 1979, the tank contained partial neutralized feed waste. In the first quarter of 1980, the waste was classified as double-shell slurry feed. The waste is still classified as double-shell slurry feed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-105 received REDOX waste from the second quarter of 1955 until the second quarter of 1967. From the third quarter of 1967 until the third quarter of 1972 the tank received wastewater. During the first, second, and third quarters of 1968, the tank received saltcake waste from the REDOX concentrator.

The tank was labeled inactive in 1978, was removed from service in 1980, and was partially isolated in 1985. The tank level was adjusted in September 1978, August 1980, and April 1982. In-tank photographs were taken on the following dates: several in 1975, March 1976, several in 1977, September 1978, several in 1979, August 1980, April 1983, and June 1988. Sketch ES-TKS-E83, which shows a graphical representation of the Tank 241-SX-105 level history, and the historical waste level data used to make it are in Appendix C. Three pH readings are listed on the sketch: 12.0 in February 1972, 13.2 in November 1974, and 13.8 in December 1975. The latest maximum temperature reading from October 1993 is 181° F. The tank is presently categorized as sound and is non-stabilized.

2.5.1.2 Temperature History 241-SX-105

The single thermocouple tree in Tank 241-SX-105 has 6 thermocouple probes in riser 2. Risers 12 and 15 were previously used to monitor the waste temperature. Thermocouple elevations are not available. Thermocouples 1 and 3 through 6 have similar readings that span from January 1988 to the present. Thermocouple 2 has readings that span from January 1988 to April 1989. Overall, the temperature readings decrease a maximum of 20°F from

thermocouple 1 to thermocouple 5. Thermocouple 6 has readings up to 110°F lower than thermocouples 1 through 5 which is probably due to the increasing elevation with each thermocouple number.

The mean temperature of the first electronically available thermocouple data was 156°F. A sum of the squares regression line fit averaged for thermocouples 1 and 3 through 6, starting in 1988, shows a slightly decreasing near zero slope $\pm 5.4^\circ\text{F}$. A sum of the squares regression line fit for thermocouple 2, starting in 1988, shows a near zero slope $\pm 9.3^\circ\text{F}$. A common outlying point is apparent in March 1989 for thermocouples 2, 3, and 5. Another common outlying point is apparent in July 1993 for thermocouples 3 through 5. An annual temperature undulation or seasonal temperature trend is more apparent in thermocouple 6 after January 1991. From January 1988 to present, the median temperature is 168.8°F with a minimum of 77°F and a maximum of 230°F. Tank 241-SX-105 is on the Hydrogen Watch List and has a weekly temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-105 are in Appendix D.

2.5.1.3 Integrity of Tank 241-SX-105

Tank 241-SX-105 is categorized as sound and is partially isolated. The Tank 241-SX-105 surface level is monitored with a Food Instrument Corporation gauge. The gauge is set in the intrusion mode for a 1-in. increase. If the Food Instrument Corporation gauge fails, manual field measurements will be conducted quarterly and the maximum allowable increase from the 257-in. baseline is 3-in. There is no criterion for a decrease. Due to the Food Instrument Corporation gauge setting, a limited number of surface level measurements are available. Appendix E contains a figure that graphically represents the surface level measurements for the second and third quarters of 1991. The readings range from 255 to 247.2 in.

The Tank 241-SX-105 liquid observation well is located in riser 16. The tank is monitored weekly with a neutron probe and on request with a gamma probe. The monitoring limits are a 0.3-ft decrease and a 0.4-ft increase. Sketch ES-TKS-E83 in Appendix C is a graphical representation of the liquid observation well data. Occurrence Report No. 92-0086 was issued in November 1993 when the interstitial liquid level appeared to have decreased more than the 0.3-ft decrease criteria over a five-year period. Upon investigation, the decrease was attributed to evaporation.

Seven drywells are identified for Tank 241-SX-105 and drywells 41-05-10 and 41-05-12 were active before 1987.

2.5.1.4 Historical Sample Analysis Data for Tank 241-SX-105

Between October 4, 1974 and March 29, 1977, four sets of samples from Tank 241-SX-105 were analyzed. The 1977 analysis indicated that the solids were essentially sodium nitrate with lesser amounts of aluminate, carbonate, and sulfate. In 1974 a sludge sample composed of two layers was analyzed. The top layer was dark grey and soft while the bottom layer was dark brown and hard with large chunks throughout. The materials were mostly an aluminum compound. Tables which contain the complete results of the analyses are found in Appendix H.

2.5.2 Current Status of Tank 241-SX-105

Tank 241-SX-105 entered service in February 1955 and currently stores 683,000 gal of waste. The waste is comprised of 628,000 gal of saltcake and 55,000 gal of sludge with 238,000 gal of pumpable liquid remaining. The tank is categorized as sound, with partial interim isolation completed. Tank 241-SX-105 is on the Hydrogen Watch List and is actively ventilated. The tank is equipped to cascade to Tank 241-SX-106 and is second in the three-tank cascade series. Appendix G contains a figure that depicts the approximate waste level and riser configuration. Tank 241-SX-105 has 20 risers and two are available for use: one 4-in. riser, no. 3, and one 12-in. riser, no. 6.

2.5.2.1 Waste Layer Volume Approximation for Tank 241-SX-105

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.5.2.2 In-Tank Photograph 241-SX-105

In a picture of Tank 241-SX-105, the contents appear to be thoroughly dried out which corresponds with the level history diagram (see Appendix I). Chemical samples from 1977 indicate that the tank contained primarily sodium nitrate at that time and there has been no activity in the tank since then. Different colored areas in the picture show some lack of homogeneity in the waste material at least on the surface. The chemical analysis sample described the material, on the surface as dark grey and soft. The level measurement device, temperature probe, and saltwell are seen in the background. After the photographs were taken, the total waste level has remained stable at approximately 21 ft which corresponds with a waste content of about 680,000 gal.

2.5.3 Synopsis Tank 241-SX-105

(To be completed)

2.6 Tank 241-SX-106

2.6.1 241-SX-106 Tank History

2.6.1.1 Waste History Tank 241-SX-106

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-106 was filled with waste from the REDOX facility from the third quarter of 1954 until the fourth quarter of 1971. During the second and third quarters of 1967, the tank received waste from Hanford Laboratory Operations. From the first quarter of 1972 until the second quarter of 1974, the tank received evaporator bottoms and REDOX ion exchange waste. From the first quarter of 1975 until the fourth quarter of 1976, the tank received various types of waste from the BX, C, and S Tank Farms. During the entire year of 1977, the tank contained residual evaporator liquor wastes. From the first quarter of 1978 until the third quarter of 1980, the tank contained partial neutralized feed waste, complex waste, and non-complexed waste. In the fourth quarter of 1980, the waste was classified as double-shell slurry feed. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-106 received wastewater from the third quarter of 1954 until the fourth quarter of 1975. During the third and fourth quarters of 1980 the tank received a HNO_3 / KMnO_4 solution.

The tank was removed from service and labeled inactive in 1980 and was partially isolated in 1985. The tank level was adjusted in December 1979 and October 1980. In-tank photographs were taken on the following dates: March 1975, several in 1977, March 1978, May 1979, October 1980, January 1981, August 1982, June 1983, February 1987, and June 1989. Sketch ES-TKS-E84, which shows a graphical representation of the Tank 241-SX-106 level history, and the historical waste level data used to make it are in Appendix C. Eight pH readings are listed on the sketch: 11.3 in December 1974, 13.7 in December 1976, >13.6 in February 1977, 14.0 in April 1978, 12.6 in December 1978, 13.3 in September 1979, 12.8 in September 1979, and 13.2 in November 1979. The latest maximum temperature reading from October 1993 is 112° F. Presently, the tank is categorized as sound and is non-stabilized. Appendix C contains a figure that graphically represents the Tank 241-SX-106 level history.

2.6.1.2 Temperature History 241-SX-106

The single thermocouple tree in Tank 241-SX-106 has 6 thermocouple probes in riser 16. Riser 2 was previously used to monitor the waste temperature. Thermocouple elevations are not available. The thermocouples have similar readings that span from

January 1988 to the present. Temperature readings for thermocouple probe 6 are 35 to 40°F lower than the previous probes.

The mean temperature of the first electronically available thermocouple data was 104°F. A sum of the squares regression line fit averaged for the thermocouples, starting in 1988, shows a slightly decreasing near zero slope $\pm 5^\circ\text{F}$. Mild, recurring variations in temperature are apparent in all the thermocouples after January 1991. From January 1988 to present, the median temperature is 102.5°F with a minimum of 63.8°F and a maximum of 124.8°F. Tank 241-SX-106 is on the Hydrogen and Organic Salts Watch Lists and has a weekly temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-106 are in Appendix D.

2.6.1.3 Integrity of Tank 241-SX-106

Tank 241-SX-106 is categorized as sound and is partially isolated. The Tank 241-SX-106 surface level is monitored with a Food Instrument Corporation gauge. If the Food Instrument Corporation gauge fails, manual field measurements will be conducted daily. The maximum allowable deviations from the established 201.6-in. baseline are a 3-in. increase and a 2-in. decrease. Appendix E contains a figure that graphically represents the surface level measurements from January 1991 to the present. The current baseline was established on July 31, 1993 and since then, the surface level has had an increasing trend with the data ranging from 202.5 to 201.1 in. The plot has one inaccurate data point that has been superseded by an apparent rerun. In November 1980, Operating Limit Deviation Report No.80-16 was issued because of a liquid level increase in Tank 241-SX-106. In January 1981, it was upgraded to Occurrence Report 81-02. The cause of the liquid level increases was attributed to a leaking steam coil.

Event Fact Sheet No. TF-EFS-89-097 was issued in November 1989 when the surface level measurement exceeded the maximum operating limit. The increase was attributed to a leak in the steam coils.

Occurrence Report No. 91-0206 was issued in March 1991 when, following the installation and calibration of new instrumentation, the surface level measurement exceeded the 3-in. increase criteria and 206-in. maximum operating limit. The increase was attributed to a damaged steam coil.

The Tank 241-SX-106 liquid observation well is located in riser 14. The tank is monitored weekly with a neutron probe and on request with a gamma probe. The monitoring limits are a 0.3-ft decrease and a 0.4-ft increase. Sketch ES-TKS-E84 in Appendix C is a graphical representation of the liquid observation well data.

Six drywells are identified for Tank 241-SX-106 and drywell 41-06-09 was active prior to 1987.

2.6.1.4 Historical Sample Analysis Data for Tank 241-SX-106

Tank 241-SX-106 was a slurry receiver and a temporary storage repository for customer waste. Results from Tank 241-SX-106 samples taken between December 1974 and November 1979 are included in this report. The samples analyzed in 1979 were run to help determine cross-site transfer requirements. The samples contained mostly sodium nitrate, sodium nitrite, sodium carbonate, sodium hydroxide, and sodium aluminate. Level history data indicate that the tank contained mostly supernatant when the 1978 and 1979 samples were analyzed. Sample results from 1978 suggest that the liquid was primarily a solution of sodium salts. Several volume changes in the tank occurred between 1975 and 1980; however, solid samples analyzed in 1977 and early 1978 appeared to be mostly sodium compounds. The analyses results are presented in Appendix H.

2.6.2 Current Status of Tank 241-SX-106

Tank 241-SX-106 entered service in 1954 and currently stores 538,000 gal of waste. The waste is comprised of 61,000 gal of supernatant; 390,000 gal of saltslurry; 86,000 gal of saltcake; and 1,000 gal of unknown waste with 233,000 gal of pumpable liquid remaining. The tank is identified on the Hydrogen Watch List, is actively ventilated, and is categorized as sound with partial interim isolation completed. Tank 241-SX-106 is third in the three-tank cascade series. Appendix G contains a figure that depicts the approximate waste level and riser configuration. Tank 241-SX-106 has 12 risers and one 12-in. riser, no. 6, is available for use.

2.6.2.1 Waste Layer Volume Approximation for Tank 241-SX-106

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.6.2.2 In-Tank Photograph 241-SX-106

From the picture in Appendix I the tank appears to contain mostly liquid with a thin layer of solid salt floating on top of the surface. The solid is very light colored and the liquid appears very dark which is probably due to the inability of light to penetrate below the solid top layer. The tank received many different waste types and it will probably contain a more than normal complex mixture of waste compounds. The level history diagram indicates that the tank contains almost all solid material. There may be only a little liquid in the tank or the tank may contain evaporator bottoms which have a high specific gravity and that were often considered to be solid. Two saltwell screens, a Food Instrument Corporation level probe, two temperature probes, and some nozzles and risers are visible in the picture. No debris is evident on the surface. The surface level appears to have remained constant after the series of photographs was taken in

1989. The waste level is at about 17 ft which corresponds with a total waste quantity of about 540,000 gal.

2.6.3 Synopsis Tank 241-SX-106

(To be completed)

2.7 Tank 241-SX-107

2.7.1 241-SX-107 Tank History

2.7.1.1 Waste History Tank 241-SX-107

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-107 was filled with waste from the REDOX facility from the second quarter of 1956 until the fourth quarter of 1969. In the fourth quarter of 1967, the tank was labeled as a suspect leaker. During the fourth quarter of 1968, the sludge was air-dried. From the first quarter of 1969 until the third quarter of 1971 and from the third quarter of 1976 until the fourth quarter of 1977, the tank was air-cooled. The tank contains 41 bottles of neutralized waste from the 100 F Area and each bottle has less than 1 g ²³⁹Pu. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-107 received REDOX waste from the second quarter of 1956 until second quarter of 1964. From the third quarter of 1957 until the fourth quarter of 1966, the tank received wastewater. During the first quarter of 1960, the tank received REDOX cladding waste.

The tank was removed from service and labeled an assumed leaker (<5,000 gal) in 1964. The tank was primary stabilized in 1978 and administratively interim isolated in October 1979. Intrusion prevention was completed in September 1982. The tank level was adjusted in December 1971 and April 1982. In-tank photographs were taken on the following dates: several in 1968, several in 1969, several in 1970, January 1971, April 1972, February 1974, August 1977, November 1979, August 1983, and March 1987. Sketch ES-TKS-E85, which shows a graphical representation of the Tank 241-SX-107 level history, and the historical waste level data used to make it are in Appendix C. The latest maximum temperature reading from October 1993 is 170° F. Presently, the tank is categorized as an assumed leaker and is stabilized.

2.7.1.2 Temperature History 241-SX-107

The eight thermocouple trees in Tank 241-SX-107 are in risers 9, 10, 11, 12, 14, 15, 18, and 19. Each tree has 8 thermocouple probes. No data are available for tree 1. Elevations are not available for the tree 8 thermocouple probes. All the thermocouples on tree 2 have similar temperature readings that span from January 1989 to the present. Overall, the temperature readings decrease a maximum of 25°F from thermocouple 1 to thermocouple 8 on tree 2. One data point available in January 1989 from all the thermocouple probes of trees 3 and 4. Three data points span from January 1989 to July 1989, and are available from each thermocouple on trees 5 and 6. A minimum of three data points for the thermocouple probes of tree 7 are available from January

1989 to July 1989. Thermocouples 1, 2 and 5 through 7 on tree 8 have similar readings that span from January 1989 to the present. Thermocouples 3 and 8 on tree 8 have fewer data points that span from January 1989 to June 1993. Thermocouple 4 on tree 8 spans from January 1989 to the present. The readings deviate from other thermocouple readings on this tree 8 between December 1993 and January 1994. Review of the Tank 241-SX-107 level history readings for thermocouple trees 2 through 5 indicates that probes 1 through 3 are in or near the solids level, and probes 4 through 8 are in the vapor space.

The mean temperature of the first electronically available daily thermocouple readings was 176°F for tree 2, 182°F for tree 3, 184°F for tree 4, 170°F for tree 5, 179°F for tree 6, 149°F for tree 7, and 160°F for tree 8. A sum of the squares regression line fit for tree 2, starting in 1989, shows a slightly decreasing near zero slope $\pm 7.5^\circ\text{F}$. A sum of the squares regression line fit for tree 8, starting in 1989, shows a slightly decreasing near zero slope $\pm 10^\circ\text{F}$. Thermocouple 4 on tree 8 shows a depressed temperature from December 1993 to January 1994. A pronounced temperature decrease is apparent for thermocouple 8 on tree 8. From January 1989 to present, the median temperature is 130°F with a minimum of 58°F and a maximum of 229°F. Tank 241-SX-107 is a high-heat load tank and has a monthly temperature reading requirement.

Plots of the thermocouple readings for Tank 241-SX-107 are in Appendix D.

2.7.1.3 Integrity of Tank 241-SX-107

Tank 241-SX-107 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-107 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the established 42.25-in. baseline is 1 in. There is no criterion for a decrease. A figure in Appendix E graphically represents the surface level measurements from January 1991 to the present. The surface level for the past three years has remained steady with the readings ranging between 41 and 40.25 in.

Seven drywells are identified for Tank 241-SX-107. Drywells, 41-07-05 (active prior to 1990, current readings > 200 c/s), 41-07-07 (active prior to 1990, current readings > 200 c/s), and 41-07-08 (active prior to 1990, current readings > 200 c/s) have or had readings greater than the 50 c/s background radiation.

Graphical representations of the data for each active drywell from January 1990 to the present are in Appendix F. Each graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.7.1.4 Historical Sample Analysis Data for Tank 241-SX-107

Results are included in this report for one analysis from Tank 241-SX-107 which was taken January 29, 1977. The sample was extremely hard with coarse granular crystals, brown to whitish-gray, and about 60% water soluble. Analysis indicated the solids were essentially a mixture of sodium nitrate with lesser amounts of aluminate, carbonate, hydroxide, and iron etc. The calculated heat generation rate due to strontium and cesium was 0.02 watts/liter. The tank contains 41 bottles of neutralized acid with a small amount (<1 gm each) of plutonium. Appendix H contains the complete results from this analysis.

2.7.2 Current Status of Tank 241-SX-107

Tank 241-SX-107 entered service in April 1956 and currently stores 104,000 gal of waste. The waste is comprised of 3,000 gal of unknown waste and 101,000 gal of sludge with no pumpable liquid remaining. The tank is identified as a high-heat load tank, is actively ventilated, and is categorized as an assumed leaker with interim stabilization and partial interim isolation completed. Tank 241-SX-107 is equipped to cascade to Tank 241-SX-108 and is first in the three-tank cascade series. Appendix G contains a figure that depicts the approximate waste level and riser configuration. Tank 241-SX-107 has 22 risers and three 12-in. risers (no. 6, no. 16, and no. 17) are available for use.

2.7.2.1 Waste Layer Volume Approximation for Tank 241-SX-107

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.7.2.2 In-Tank Photograph 241-SX-107

From the Tank 241-SX-107 picture in Appendix I, the waste appears to have solidified. Data from the level history diagram agree with this observation. Two distinct colors are on the surface: dark yellow and light brown. A chemical sample taken from the tank in 1977 was described as brown to whitish grey. The dark yellow color may be due to a residue on the surface left by evaporating liquid. The residue appears to be similar to residue in other tanks and to liquid on the waste surface in some tanks. The airlift circulators are visible in this tank because the waste level is relatively low. There are several temperature probes. The flex and float pump and the air sweep that are visible in this tank are not seen in many of the tank pictures. The waste surface seems to be free of debris. Records indicate that 41 bottles of neutralized waste are in the tank, and each one contains less than one gram of plutonium. Since these photographs were taken in 1987, the waste level has remained constant. The tank contains about 100,000 gal of waste which corresponds with a depth of approximately 4 ft.

2.7.3 Synopsis Tank 241-SX-107

(To be completed)

2.8 Tank 241-SX-108

2.8.1 241-SX-108 Tank History

2.8.1.1 Waste History Tank 241-SX-108

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-108 was filled with waste from the REDOX facility from the fourth quarter of 1955 until the fourth quarter of 1969. In the first quarter of 1967, the tank was suspected of having a leak. During the fourth quarter of 1968, the sludge in the tank was air-dried. From the first quarter of 1969 until the third quarter of 1971 and from the third quarter of 1976 until the third quarter of 1977, the tank was air-cooled. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-108 received REDOX waste from the fourth quarter of 1955 until the second quarter of 1964. From the fourth quarter of 1955 until the fourth quarter of 1963 the tank received wastewater.

The tank was removed from service and labeled an assumed leaker of 2,400 to 35,000 gal in 1962. The tank was primary stabilized in 1978 and administratively interim stabilized in August 1979. Intrusion prevention was completed in December 1982. The tank level was adjusted in April 1974 and April 1984. In-tank photographs were taken on the following dates: September 1967, several in 1968, several in 1969, several in 1970, two in 1971, April 1972, February 1974, April 1976, July 1977, January 1980, August 1983, and March 1987. Sketch ES-TKS-E86, which shows a graphical representation of the Tank 241-SX-108 level history, and the historical waste level data used to make it are in Appendix C. One pH reading is listed on the sketch: >14.0 in March 1961. The latest maximum temperature readings from October 1993 are 196° F for thermocouple tree 2 and 200°F for thermocouple tree 8. Presently, the tank is categorized as an assumed leaker and is stabilized.

2.8.1.2 Temperature History 241-SX-108

The eight thermocouple trees in Tank 241-SX-108 are in risers 9, 10, 11, 12, 14, 15, 18, and 19 and each tree has at least four probes. Data are not available for tree 6 in riser 15. Riser 21 was previously used to record temperature data. None of the trees have specific thermocouple elevations. Data are available for thermocouples 1, 3, 5, and 7 on tree 1. The thermocouples on tree 1 have three data points that span from January 1989 to July 1989. Overall, the temperature readings decrease a maximum of 40°F from thermocouple 1 to thermocouple 7 on tree 1. Thermocouples 1 and 3 on tree 2 have similar data that span from January 1989 to the present. Thermocouples 2 and 4 on tree 2 have similar data that

span from January 1990 to the present. Thermocouples 5 and 6 on tree 2 have similar data that span from January 1989 to January 1992. The temperature readings decrease a maximum of 60°F from thermocouple 1 to thermocouple 7 on tree 2. There is only one data point available in January 1989 from the thermocouple probes for tree 3. Limited data from two points are available for thermocouples 1, 3, 5, and 7 on tree 4. Three data points, spanning from January 1989 to January 1990, are available from each thermocouple on tree 5. At least one data point per thermocouple is available from January 1989 to April 1989 for tree 7. Thermocouples 1 and 3 on tree 8 have similar data that span from January 1989 to the present. Thermocouples 2 and 4 on tree 8 have similar data that span from January 1990 to the present. Thermocouples 5 and 6 on tree 8 have similar data that span from January 1989 to January 1992. The overall temperature readings decrease a maximum of 45°F from thermocouple 1 to thermocouple 7 on tree 8.

The mean temperature of the first electronically available daily thermocouple readings was 159°F for tree 1, 173.5°F for tree 2, 180°F for tree 3, 158°F for tree 4, 172°F for tree 5, 157°F for tree 7, and 176°F for tree 8. Not enough data points for trees 1, 3 through 5, and 7 are recorded to give any conclusive information about in-tank temperature trends. A sum of the squares regression line fit for tree 2, starting in 1989, shows a slightly decreasing near zero slope $\pm 6^\circ\text{F}$. A sum of the squares regression line fit for tree 8, starting in 1989, shows a slightly decreasing near zero slope $\pm 7^\circ\text{F}$. An outlying point is apparent in December 1993 for thermocouple 2 on tree 8. Wide variations in temperature are visible between January 1990 and March 1992 for thermocouple 3 on tree 8. From January 1989 to present, the median temperature is 145°F with a minimum of 117°F and a maximum of 225°F. Tank 241-SX-108 is a high-heat load tank and has a monthly temperature reading requirement.

Plots of the thermocouple readings for Tank 241-SX-108 are in Appendix D.

2.8.1.3 Integrity of Tank 241-SX-108

Tank 241-SX-108 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-108 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the established 37-in. baseline is 1 in. There is no criterion for a decrease. A figure in Appendix E graphically represents the surface level measurements from January 1991 to the present. The surface level for the past three years remained steady at 37 in. until the first quarter of 1994 when the readings increased to 37.75 in.

Six drywells are identified for Tank 241-SX-108. Drywells 41-08-02 (active prior to 1990, current readings > 200 c/s), 41-08-04 (active prior to 1990, current readings < 200 c/s), 41-08-07 (active prior to 1990, current readings > 200 c/s), and 41-08-11

(active prior to 1990, current readings > 200 c/s) have or had readings greater than the 50 c/s background radiation.

Appendix F contains figures that are graphical representations of the data for the active drywells from January 1990 to the present. Each graph includes the peak c/s, the depth at which the peak occurred (some wells have multiple peaks), and the date of the reading.

2.8.1.4 Historical Sample Analysis Data for Tank 241-SX-108

Data are included in this report from sample data reported in April 1961 and June 1966. In 1961, the supernatant was examined and found to contain sodium nitrates, nitrites, sulfates, etc. The tank was removed from service in 1962 as a confirmed leaker and supernatant was pumped from the tank in 1967. The 1966 analysis appears to have been made to determine the quantity of some of the radioactive elements in the tank and this evaluation is only of radionuclides. Results of these analyses are in Appendix H.

2.8.2 Current Status of Tank 241-SX-108

Tank 241-SX-108 entered service in November 1955 and currently stores 115,000 gal of waste comprised entirely of sludge with no pumpable liquid remaining. The tank is identified as a high-heat load tank, is actively ventilated, and is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-108 is equipped to cascade to Tank 241-SX-109 and is second in the three-tank cascade series. Appendix G contains a figure that depicts the approximate waste level and riser configuration. Tank 241-SX-108 has 22 risers and three 12-in. risers (no.7, no.16, and no.17) are available for use.

2.8.2.1 Waste Layer Volume Approximation for Tank 241-SX-108

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.8.2.2 In-Tank Photograph 241-SX-108

Tank 241-SX-108 is an assumed leaker that has been pumped out and partially stabilized and, as expected, the tank waste appears to be completely dry. There is a small amount of brown residue on the surface of the solid waste material and the waste material appears to be light grey. The airlift circulators are protruding from the surface because the waste level in the tank is so low. Records indicate that there is a bulge in the bottom of this tank (ARHCO 1967). Temperature probes are situated around the perimeter of the tank. A turbine pump, the manual tape level measuring device, and some risers and nozzles are identified in the picture in Appendix I. A discarded level measurement tape is on the surface near the center of the tank. The waste level in the tank is approximately 4 ft deep and level measurements indicate that it

has not changed since the tank contents were photographed in 1987. The measured depth corresponds with a tank content of 115,000 gal.

2.8.3 Synopsis Tank 241-SX-108

(To be completed)

2.9 Tank 241-SX-109

2.9.1 241-SX-109 Tank History

2.9.1.1 Waste History Tank 241-SX-109

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-109 was filled with waste from the REDOX facility from the third quarter of 1955 until the fourth quarter of 1973. In the fourth quarter of 1967, the tank was suspected of having a leak. From the third quarter of 1976 until the first quarter of 1978, the tank was air-cooled. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-109 received REDOX waste from the third quarter of 1955 until the third quarter of 1962. From the third quarter of 1955 until the fourth quarter of 1963, the tank received wastewater.

The tank was removed from service and labeled an assumed leaker (<10,000 gal) in 1965. The tank was administratively interim stabilized in May 1981 and intrusion prevention was completed in September 1982. The tank level was adjusted in October 1973 and April 1982. In-tank photographs were taken on the following dates: several in 1969, May 1981, and May 1986. The latest maximum temperature readings from October 1993 are 147°F for thermocouple tree 2 and 157°F for thermocouple tree 8. Presently, the tank is categorized as an assumed leaker and is stabilized. Sketch ES-TKS-E87, which shows a graphical representation of the Tank 241-SX-109 level history, and the historical waste level data used to make it are in Appendix C.

2.9.1.2 Temperature History 241-SX-109

Tank 241-SX-109 has eight thermocouple trees in risers 9, 10, 11, 12, 14, 15, 18, and 19 and each tree has 8 thermocouple probes. Data are not available for tree 1 in riser 9. Riser 20 was previously used to monitor the waste temperature. None of the trees have specific thermocouple elevations. The thermocouples on tree 2 have similar temperature readings that span from August 1989 to the present. The overall temperature readings decrease a maximum of 15°F from thermocouple 1 to thermocouple 8 on tree 2. A data point from December 1989 is the only one available from all the thermocouple probes for trees 3, 5, and 7. At least three data points, that span from January 1989 to December 1989 are available for each thermocouple on trees 4 and 6. The thermocouples for tree 2 have similar temperature readings that span from January 1989 to the present. The overall temperature readings decrease a maximum of 10°F from thermocouple 1 to thermocouple 8 on tree 8.

The mean temperature of the first daily electronically available thermocouple readings was 151°F for tree 2, 167°F for

tree 3, 164°F for tree 4, 149°F for tree 5, 148°F for tree 6, 148°F for tree 7, and 157°F for tree 8. A sum of the squares regression line fit for tree 2, starting in 1989, shows a slightly decreasing near zero slope $\pm 4.3^\circ\text{F}$. A common outlying point occurs for thermocouples 5 through 8 on tree 2 in January 1990. Not enough data points are recorded for trees 3 through 7 to give any conclusive information about in-tank temperature trends. A sum of the squares regression line fit for tree 8, starting in 1989, shows a slightly decreasing near zero slope $\pm 5^\circ\text{F}$. Thermocouple 5 on tree 8 shows an outlying point of 104.2°F in September 1989. Another outlying point of 30°F is evident for thermocouple 8 on tree 8 in November 1993. From August 1989 to present, the median temperature is 140.7°F with a minimum of 94.10°F and a maximum of 173.7°F. Tank 241-SX-109 is a high-heat load tank and has a weekly temperature reading requirement.

Plots of the thermocouple readings for Tank 241-SX-109 are in Appendix D.

2.9.1.3 Integrity of Tank 241-SX-109

Tank 241-SX-109 is categorized as an assumed leaker and is interim isolated with intrusion prevention completed. The Tank 241-SX-109 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the established 96-in. baseline is 1 in. There is no criterion for a decrease. The figures in Appendix E graphically represent the surface level measurements from January 1991 to the present. The readings for the last three years range from 96 to 92 in.

Seven drywells are identified for Tank 241-SX-109. Of these, drywells 41-09-02 (active prior to 1987, no longer active), 41-09-03 (active prior to 1987, current readings > 200 c/s), 41-09-04 (active prior to 1987, no longer monitored), 41-09-07 (active prior to 1990, current readings > 200 c/s), and 41-09-09 (active prior to 1990, current readings > 200 c/s) have or had readings greater than the 50 c/s background radiation.

Appendix F contains figures that are graphical representations of the drywell data for the active drywells from January 1990 to the present. Each graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.9.1.4 Historical Sample Analysis Data for Tank 241-SX-109

No data met the selection criteria.

2.9.2 Current Status of Tank 241-SX-109

Tank 241-SX-109 entered service in September 1955 and currently stores 250,000 gal of waste. The waste is comprised of 145,000 gal of unknown waste and 105,000 gal of sludge with no pumpable interstitial liquid remaining. The tank is identified on the Hydrogen Watch List (categorized as hydrogen because other hydrogen tanks vent through it) and is a high-heat load tank with

active ventilation. It is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-109 is third in the three-tank cascade series. A figure in Appendix G depicts the approximate waste level and riser configuration. Tank 241-SX-109 has 21 risers and one 20-in. riser (no.13) is available for use (integrated with an air filter).

2.9.2.1 Waste Layer Volume Approximation for Tank 241-SX-109

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.9.2.2 In-Tank Photograph 241-SX-109

In the Tank 241-SX-109 picture, the contents appear to be thoroughly dried out which corresponds with what is reported on the level history diagram. The appearance of the surface is that of a thick slurry or mixture from which all of the moisture has evaporated. Tank wall colors are reasonable so the color of the waste surface should be essentially true in this picture. The components appear to be a mixture of white and light brown with a few small deposits that are yellow. The waste in the tank has almost covered the airlift circulators. Several temperature probes, a pump, a manual tape height gauge, and some nozzles are visible in the picture. A discarded tape is on the surface at the base of the manual tape and there is a little debris at the bottom of the air circulator line. Since these photographs were taken in 1987, the waste level has remained constant. The tank contains about 250,000 gal of waste which corresponds with a waste level of about 8 ft.

2.9.3 Synopsis Tank 241-SX-109

(To be completed)

2.10 Tank 241-SX-110

2.10.1 241-SX-110 Tank History

2.10.1.1 Waste History Tank 241-SX-110

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-110 was filled with waste from the REDOX facility from the third quarter of 1959 until the third quarter of 1975. The tank received REDOX ion exchange waste from the third quarter of 1971 until the third quarter of 1975. From the fourth quarter of 1975 until the third quarter of 1976, the tank contained evaporator bottoms, ion exchange, B Plant low-level, 224-U, Battelle laboratory, and evaporator feed wastes. The tank was air-cooled from the fourth quarter of 1976 until the first quarter of 1978. The tank contains 16 plastic bottles or containers (3-in. diameter by 54-in. long) that have 113 g uranium natural, 63 g uranium depleted, 6 g enriched uranium, and 204 g plutonium total volume. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-110 received REDOX waste from the third quarter of 1960 until the second quarter of 1966. From the third quarter of 1963 until the first quarter of 1976, the tank received wastewater.

The tank was removed from service and labeled an assumed leaker (5,500 gal) in 1976. The tank was primary stabilized in 1978 and administratively interim stabilized in August 1978. Intrusion prevention was completed in June 1985. The tank level was adjusted in October 1976. In-tank photographs were taken on the following dates: June 1974, October 1975, two in 1976, July 1977, November 1979, June 1982, and February 1987. Sketch ES-TKS-E88, which shows a graphical representation of the Tank 241-SX-110 level history, and the historical waste level data used to make it are in Appendix C. One pH reading is listed on the sketch: >14.0 in September 1974. The latest maximum temperature readings from October 1993 are 174° F for thermocouple tree 2 and 170° F for thermocouple tree 8. Presently, the tank is categorized as an assumed leaker and is stabilized.

2.10.1.2 Temperature History 241-SX-110

Tank 241-SX-110 has eight thermocouple trees in risers 9, 10, 12, 14, 15, 18, 19, and 20 and most of them have 8 thermocouple probes. There are no data for trees 1 and 3. Tree 5 has only 4 thermocouple probes and tree 7 has only 1 thermocouple probe. None of the trees have specific thermocouple elevations. All the thermocouples on trees 2 and 8 have similar temperature readings that span from August 1989 to the present. The overall temperature readings decrease a maximum of 50°F from thermocouple 1 to thermocouple 8 on tree 2. At least two data points are available

from January 1989 to July 1989 for all probes on tree 4 except thermocouple 5. Thermocouple 5 on tree 4 has no data points recorded. All the thermocouples on tree 5 have different data recorded. Data for thermocouple 1 on tree 5 span from March 1989 to June 1989. One data point in March and April 1989, respectively, is available for thermocouples 2 and 3 on tree 5. Data for thermocouple 4 on tree 5 are available from January 1989 to June 1989. At least two data points are available from January 1989 to July 1989 for all probes on tree 6 except thermocouple 3. Thermocouple 3 on tree 6 has no data points recorded. Only one data point is available in May 1989 for the one thermocouple probe of tree 7.

The mean temperature of the first electronically available daily thermocouple readings was 156°F for tree 2, 161°F for tree 4, 168°F for tree 5, 56°F for tree 6, 154°F for tree 7, and 143°F for tree 8. A sum of the squares regression line fit for tree 2, starting in 1989, shows a slightly decreasing near zero slope $\pm 4.8^\circ\text{F}$. Not enough data points for trees 4 through 7 are recorded to give any conclusive information about in-tank temperature trends. Although there are five or more data points, not enough data throughout the time frame exist for thermocouple 1 on tree 5 or thermocouple 1 on tree 6 to make an accurate analysis of temperature trends in the tank. A sum of the squares regression line fit for tree 8, starting in 1989, shows a slightly decreasing near zero slope $\pm 5^\circ\text{F}$. From August 1989 to the present, the median temperature is 132.9°F with a minimum of 47°F and a maximum of 189°F. Tank 241-SX-110 is a high-heat load tank and has a monthly temperature reading requirement.

Plots of the thermocouple readings for Tank 241-SX-110 are in Appendix D.

2.10.1.3 Integrity of Tank 241-SX-110

Tank 241-SX-110 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-110 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the established 28-in. baseline is 1 in. There is no criterion for a decrease. A figure in Appendix E graphically represents the surface level measurements from January 1991 to the present. The waste level for the last three years has remained steady with the readings ranging from 28 to 26.75 in. The plot has an inaccurate data point that is attributed to input error of the field data sheet into the computer automated surveillance system.

Tank 241-SX-110 does not have a liquid observation well.

Eight drywells are identified for Tank 241-SX-110. Drywells 41-10-01 (active prior to 1990, current readings < 200 c/s) and 41-10-08 (active prior to 1987, no longer active) have or had readings greater than the 50 c/s background radiation.

A figure in Appendix F is a graphical representation of the data for the active drywell from January 1990 to the present. The graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.10.1.4 Historical Sample Analysis Data for Tank 241-SX-110

No sampling data were available or applicable. The tank contains 16 poly bottles or containers (3-in. diameter by 54 in. long) in which there are 113 gm natural uranium, 52 gm depleted uranium, and 6 gm enriched uranium.

2.10.2 Current Status of Tank 241-SX-110

Tank 241-SX-110 entered service in November 1960 and currently stores 62,000 gal of waste. The waste is comprised of 30,000 gal of unknown waste and 32,000 gal of sludge with no pumpable liquid remaining. The tank is identified as a high-heat load tank, is actively ventilated, and is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-110 is equipped to cascade to Tank 241-SX-111 and is first in the three-tank cascade series. A figure in Appendix G depicts the approximate waste level and riser configuration. Tank 241-SX-110 has 21 risers and two 12-in. risers (no.16 and no.17) are available for use.

2.10.2.1 Waste Layer Volume Approximation for Tank 241-SX-110

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.10.2.2 In-Tank Photograph 241-SX-110

The portion of the tank surface visible in the montage in Appendix I shows what appears to be two different materials. Around the perimeter, the material has a well defined crystalline pattern with a whitish matrix and a tan material in the interstices and at the boundaries. Inside that region, a more uniform solid region appears to have formed. The airlift circulators are protruding from the surface and temperature probes are situated around the perimeter of the tank. A pump, the manual tape level measuring device, and some risers, manholes, and nozzles have been identified in the picture. Sixteen bottles containing enriched uranium and plutonium from Argonne National Laboratory were added to this tank and they can be seen in the picture lying on the surface. The waste level in the tank is approximately 2 ft deep and level measurements indicate that it has not changed since the tank contents were photographed in 1987. The measured depth corresponds with a tank content of 62,000 gal.

2.10.3 Synopsis Tank 241-SX-110

(To be completed)

2.11 Tank 241-SX-111

2.11.1 241-SX-111 Tank History

2.11.1.1 Waste History Tank 241-SX-111

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-111 was filled with waste from the REDOX facility from the third quarter of 1956 until the third quarter of 1971. From the fourth quarter of 1971 until the second quarter of 1974, the tank received evaporator bottoms and REDOX ion exchange wastes. In the second quarter of 1974, the tank was reported as a suspect leaker. From the third quarter of 1976 until the first quarter of 1978, the tank was air-cooled. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-111 received REDOX waste from the second quarter of 1956 until the fourth quarter of 1965. From the second quarter of 1956 until the fourth quarter of 1966, the tank received wastewater.

The tank was removed from service and labeled an assumed leaker (500 - 2,000 gal) in 1974. The tank was primary stabilized in 1978 and supernatant pumped for interim stabilization in July 1979. Intrusion prevention was completed in December 1982. The tank level was adjusted in May 1974. In-tank photographs were taken on the following dates: May 1974, two in 1979, October 1982, and March 1987. Sketch ES-TKS-E89, which shows a graphical representation of the Tank 241-SX-111 level history, and the historical waste level data used to make it are in Appendix C. Two pH readings are listed on the sketch: >13.2 in May 1974 and 13.8 in August 1975. The latest maximum temperature readings from October 1993 are 190°F for thermocouple tree 2 and 162°F for thermocouple tree 8. Presently, the tank is categorized as an assumed leaker and is stabilized.

2.11.1.2 Temperature History 241-SX-111

Tank 241-SX-111 has eight thermocouple trees in risers 9, 10, 11, 12, 14, 15, 18, and 19 and each tree has between 2 and 8 thermocouple probes. No data are available for trees 1 and 3. Elevations are not available for the thermocouple probes. All the thermocouples on tree 2 have similar temperature readings that span from August 1989 to the present. The overall temperature readings decrease a maximum of 55°F from thermocouple 1 to thermocouple 8 on tree 2. At least two data points are available from January 1989 to June 1989 for all probes on trees 4, 5, and 7. At least two data points are available from March 1989 to June 1989 for all probes on tree 6. All the thermocouples on tree 8 have similar temperature readings that span from January 1989 to the present.

The overall temperature readings decrease a maximum of 30°F from thermocouple 1 to thermocouple 8 on tree 8.

The mean temperature of the first electronically available daily thermocouple readings was 159°F for tree 2, 184°F for tree 4, 119°F for tree 5, 138°F for tree 6, 166°F for tree 7, and 137°F for tree 8. A sum of the squares regression line fit for tree 2, starting in 1989, shows a slightly decreasing near zero slope $\pm 5.8^\circ\text{F}$. A common outlying point is apparent for thermocouples 2 through 5 in December 1993. Not enough data points for trees 4 through 7 are recorded to give any conclusive information about in-tank temperature trends. Although there are five or more data points, not enough data exist throughout the time frame for thermocouple 3 on tree 4; the thermocouples on tree 5; thermocouples 1, 3, and 4 on tree 6; or thermocouple 1 on tree 7 to make an accurate analysis of temperature trends in the tank. A sum of the squares regression line fit for tree 8, starting in 1989, shows a slightly decreasing near zero slope $\pm 6.8^\circ\text{F}$ over the time span of available readings. An outlying point can be seen for thermocouple 1 on tree 8 in May 1989. A common outlying point is apparent for thermocouples 3 through 5 on tree 8 in December 1993. From January 1989 to present, the median temperature is 143°F with a minimum of 70°F and a maximum of 254°F. Tank 241-SX-111 is a high-heat load tank and has a monthly temperature reading requirement.

Plots of the thermocouple readings for Tank 241-SX-111 are in Appendix D.

2.11.1.3 Integrity of Tank 241-SX-111

Tank 241-SX-111 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-111 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the established 49.75-in. baseline value is 1 in. There is no criterion for a decrease. Appendix E contains a figure that graphically represents the surface level measurements from January 1991 to the present. The waste level for the last three years has remained steady with the readings ranging from 49.75 to 49.5 in.

Seven drywells are identified for Tank 241-SX-111. Drywells, 41-11-03 (active prior to 1990, no longer active), 41-11-09 (active prior to 1990-readings < 50 c/s, no longer active), and 41-11-10 (active prior to 1990, current activity < 200 c/s) have or had readings greater than the 50 c/s background radiation.

Appendix F contains graphical representations of the drywell data for the active drywells from January 1990 to the present. The graphs include the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.11.1.4 Historical Sample Analysis Data for Tank 241-SX-111

Results of two sets of samples taken from Tank 241-SX-111 September 1974 and August 1975 are included in this report. The sample taken in 1975 was centrifuged to separate it into solid and liquid portions. The solid sludge was brownish-gray. The sampled material contained sodium salts and various other metallic compounds. The 1974 sample appears to have been almost all sodium nitrate, sodium nitrite, sodium hydroxide, and sodium carbonate. Complete results from these analyses are in Appendix H.

2.11.2 Current Status of Tank 241-SX-111

Tank 241-SX-111 entered service in June 1956 and currently stores 125,000 gal of waste. The waste is comprised of 41,000 gal of unknown waste and 84,000 gal of sludge with no pumpable liquid remaining. The tank is identified as a high-heat load tank, is actively ventilated, and is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-111 is equipped to cascade to Tank 241-SX-112 and is second in the three-tank cascade series. A plan view and tank cross-section in Appendix G depict the approximate waste level and riser configuration. Tank 241-SX-111 has 20 risers and three 12-in. risers (no.6, no.16, and no.17) are available for use.

2.11.2.1 Waste Layer Volume Approximation for Tank 241-SX-111

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.11.2.2 In-Tank Photograph 241-SX-111

Tank 241-SX-111 is an assumed leaker that has been pumped out and partially stabilized and, as expected, the waste appears to be completely dry. The pattern on the surface in the tank is different than the surface that is seen in most tanks. An unusual grouping of parallel lines is emanating from what appears to be a hole near the center of the tank. There is a similar pattern between twelve and one o'clock in the background. Material may have been expelled from these holes at some time in the past. The unusual markings on the wall could also be attributed to some type of eruption or explosion. The airlift circulators are protruding from the surface and temperature probes are situated all around the perimeter of the tank. A turbine pump, the manual tape level measuring device, and some risers and nozzles have been identified in the picture. There is a discarded tape on the surface at the base of the manual tape measuring device. The tank contains approximately 125,000 gal of waste with a depth of approximately 4 ft. Data supplied indicate that there has been no activity in the tank since these photographs were taken so this picture should be representative of current tank contents.

2.11.3 Synopsis Tank 241-SX-111

(To be completed)

2.12 Tank 241-SX-112

2.12.1 241-SX-112 Tank History

2.12.1.1 Waste History Tank 241-SX-112

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-112 was filled with waste from the REDOX facility from the first quarter of 1956 until the second quarter of 1974. In the first quarter of 1969, the tank was reported as a suspect leaker. From the third quarter of 1976 until the first quarter of 1978, the tank was air-cooled. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-112 received REDOX waste from the first quarter of 1956 until the four quarter of 1966. From the third quarter of 1963 until the fourth quarter of 1966, the tank received wastewater.

The tank was removed from service and labeled an assumed leaker (30,000 gal) in 1969. The tank was primary stabilized in 1978 and administratively interim stabilized in July 1979. Intrusion prevention was completed in December 1982. The tank level was adjusted in May 1974 and April 1982. In-tank photographs were taken on the following dates: January 1969, September 1971, May 1974, May 1975, April 1981, April 1984, and March 1987. The latest maximum temperature readings from October 1993 are 153° F for thermocouple tree 2 and 160° F for thermocouple tree 8. Presently, the tank is categorized as an assumed leaker and is stabilized. Sketch ES-TKS-E90, which shows a graphical representation of the Tank 241-SX-112 level history, and the historical waste level data used to make it are in Appendix C.

2.12.1.2 Temperature History 241-SX-112

Tank 241-SX-112 has eight thermocouple trees in risers 9, 10, 11, 12, 14, 15, 18, and 19 and each tree has between 1 and 8 thermocouple probes. No data are available for tree 5 in riser 14. Riser 3 was previously used to record temperature data. Tree 1 has 2 thermocouple probes, tree 3 has 4 thermocouple probes, tree 4 has 3 thermocouple probes, tree 6 has 1 thermocouple probe, and the rest have 8 thermocouple probes. All the trees have specific thermocouple elevations. Two data points for the thermocouples on tree 1 span from April 1989 to May 1989. All the thermocouples on tree 2 have similar temperature readings that span from January 1989 to the present. Overall, the temperature readings decrease a maximum of 20°F from thermocouple 1 to thermocouple 8 on tree 2. There are two data points for the thermocouples on tree 3 for the period from April to June 1989. At least one data point is available from March 1989 to May 1989 for all probes on tree 4. Two data points that span the period from March to June 1989 are

available for the thermocouple on tree 6. There are at least 2 data points available from March 1989 to July 1989 for all probes on tree 7. All the thermocouples on tree 8 have similar temperature readings from August 1989 to the present. Overall, the temperature readings decrease a maximum of 30°F from thermocouple 1 to thermocouple 8 on tree 8. Review of the Tank 241-SX-112 level history over the time readings were taken for thermocouple tree 1 through 8 indicates that probes 1 through 3 are generally in or near the solids level, and probes 4 through 8 are in the vapor space.

The mean temperature of the first electronically available daily thermocouple readings was 129°F for tree 1, 172°F for tree 2, 126°F for tree 3, 129°F for tree 4, 178°F for tree 6, 153°F for tree 7, and 138°F for tree 8. Not enough data points are recorded for tree 1 and trees 3 through 7 to give any conclusive information about in-tank temperature trends. A sum of the squares regression line fit for tree 2, starting in 1989, shows a slightly decreasing near zero slope $\pm 4.3^\circ\text{F}$. Although there are five or more data points, not enough data exist throughout the time frame for thermocouple 2 on tree 7 to make an accurate analysis of temperature trends in the tank. A sum of the squares regression line fit for tree 8, starting in 1989, shows a near zero slope $\pm 4.6^\circ\text{F}$. From January 1989 to present, the median temperature is 130°F with a minimum of 101°F and a maximum of 226°F. Tank 241-SX-112 is a high-heat load tank and has a monthly temperature reading requirement.

Plots of the thermocouple readings for Tank 241-SX-112 are in Appendix D.

2.12.1.3 Integrity of Tank 241-SX-112

Tank 241-SX-112 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-112 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the 36.5-in. baseline is 1 in. There is no criterion for a decrease. A figure in Appendix E graphically represents the surface level measurements from January 1991 to the present. The surface level for the past three years has remained steady with the readings ranging from 35 to 33.75 in.

Tank 241-SX-112 does not have a liquid observation well.

Seven drywells are identified for Tank 241-SX-112. Drywells 41-12-02 (active prior to 1990, current activity > 200 c/s), and 41-12-03 (active prior to 1990, current activity > 200 c/s) have or had readings greater than the 50 c/s background radiation.

Appendix F contains graphical representations of the drywell data for the active drywells from January 1990 to the present. The graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.12.1.4 Historical Sample Analysis Data for Tank 241-SX-112

No data were available for this tank.

2.12.2 Current Status of Tank 241-SX-112

Tank 241-SX-112 entered service in February 1956 and currently stores 92,000 gal of waste. The waste is comprised of 19,000 gal of unknown waste and 73,000 gal sludge with no pumpable liquid remaining. The tank is identified as a high-heat load tank, is actively ventilated, and is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-112 is third in the three-tank cascade series. Appendix G contains a plan view and tank cross-section that depict the approximate waste level and riser configuration for the tank. Tank 241-SX-112 has 21 risers and one 12-in. riser (no.6) is available for use.

2.12.2.1 Waste Layer Volume Approximation for Tank 241-SX-112

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.12.2.2 In-Tank Photograph 241-SX-112

Tank 241-SX-112 is an assumed leaker that has been pumped out and partially stabilized, and as expected, the waste appears to be completely dry (picture see Appendix I). There is a small amount of yellow residue on the surface of the solid waste material which appears to be light grey. The airlift circulators are protruding from the surface because the waste level in the tank is so low. Temperature probes are situated around the perimeter of the tank. A turbine pump, the manual tape level measuring device, and some risers and nozzles are identified in the picture. Some discarded tape or wire is on the surface directly in the center of the tank. The waste level in the tank is approximately 3 ft deep and level measurements indicate that it has not changed since the tank contents were photographed in 1987. The depth corresponds with a tank content of about 90,000 gal.

2.12.3 Synopsis Tank 241-SX-112

(To be completed)

2.13 Tank 241-SX-113

2.13.1 241-SX-113 Tank History

2.13.1.1 Waste History Tank 241-SX-113

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-113 was filled with waste from the REDOX facility from the first quarter of 1958 until the third quarter of 1971. The tank bulged in the third quarter of 1958. In the second quarter of 1962, the tank was reported as a suspect leaker. From the third quarter of 1976 until the first quarter of 1977, desiccant was added to the tank. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994)). Tank 241-SX-113 received REDOX waste during the first and second quarters of 1958.

The tank was removed from service and labeled an assumed leaker (15,000 gal) in 1962. As of April 1972, 41 tons of diatomaceous earth had been added to the tank. The tank was administratively interim stabilized in November 1978 and intrusion prevention was completed in September 1982. In-tank photographs were taken on the following dates: March 1967, December 1969, January 1970, several in 1972, May 1974, April 1976, January 1980, January 1983, and March 1988. Sketch ES-TKS-E91, which shows a graphical representation of the Tank 241-SX-113 level history, and the historical waste level data used to make it are in Appendix C. One pH reading is listed on the sketch: 13.6 in October 1962. The latest maximum temperature reading from October 1993 is 73°F. Presently, the tank is categorized as an assumed leaker and is stabilized.

2.13.1.2 Temperature History 241-SX-113

The single thermocouple tree in Tank 241-SX-113 has 18 thermocouple probes in riser 3. Thermocouple elevations are not available for any thermocouple probes. All the thermocouples have similar readings that span from January 1988 to the present.

The mean temperature of the first electronically available thermocouple data was 81°F. A sum of the squares regression line fit averaged for all the thermocouples, starting in 1988, shows a slightly decreasing near zero slope $\pm 2^\circ\text{F}$. From January 1988 to present, the median temperature is 78.9°F with a minimum of 73.2°F and a maximum of 81°F. Tank 241-SX-113 has a semiannual temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-113 are in Appendix D.

2.13.1.3 Integrity of Tank 241-SX-113

Tank 241-SX-113 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-113 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the 15-in. baseline is 1 in. There is no criterion for a decrease. A figure in Appendix E graphically represents the surface level measurements from January 1991 to the present. The surface level for the past three years has remained steady with the readings ranging from 15 to 14.75 in.

Tank 241-SX-113 does not have a liquid observation well.

One drywell is identified for Tank 241-SX-113, and it is not considered active.

2.13.1.4 Historical Sample Analysis Data for Tank 241-SX-113

No sampling data were available or applicable. This tank was tested and found to be leaking in 1962 and then it was filled with diatomaceous earth to dry the contents and stop further leaks.

2.13.2 Current Status of Tank 241-SX-113

Tank 241-SX-113 entered service in February 1958 and currently stores 26,000 gal of waste. The waste is comprised of 20,000 gal of unknown waste and 6,000 gal of sludge with no pumpable liquid remaining. This tank is identified as a low-heat load tank, is passively ventilated, and is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-113 is equipped to cascade to Tank 241-SX-114 and is first in the three-tank cascade series. The plan view and tank cross-section in Appendix G depict the approximate waste level and riser configuration. Tank 241-SX-113 has 11 risers and two are available for use: one 4-in. riser (no.4) and one 12-in. riser (no.7).

2.13.2.1 Waste Layer Volume Approximation for Tank 241-SX-113

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.13.2.2 In-Tank Photograph 241-SX-113

Diatomaceous earth was added to Tank 241-SX-113 in 1972, and it appears from the picture in Appendix I to be covering the entire surface. The surface is completely dry and uniformly grey except for a few stains that are probably rust. The airlift circulators are protruding from the surface and two temperature probes are visible. A turbine pump, the manual tape level measuring device, and some risers, manholes, and nozzles have been identified in the picture. There is a discarded tape on the surface at the base of the manual tape measuring device. The tank contains 26,000 gal of waste with a depth of approximately 1 ft. Data supplied indicate

that there has been no activity in this tank since these photographs were taken so this picture should be representative of current tank contents.

2.13.3 Synopsis Tank 241-SX-113

(To be completed)

2.14 Tank 241-SX-114

2.14.1 241-SX-114 Tank History

2.14.1.1 Waste History Tank 241-SX-114

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-114 was filled with waste from the REDOX facility from the first quarter of 1957 until the fourth quarter of 1972. From the first quarter of 1972 until the fourth quarter of 1972, the tank received evaporator bottoms and REDOX ion exchange wastes. In the first quarter of 1974, the tank was reported as a suspect leaker. The tank was air-cooled from the third quarter of 1976 until the first quarter of 1978. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-114 received REDOX waste from the fourth quarter of 1956 until the second quarter of 1965. From the fourth quarter of 1956 until the fourth quarter of 1966, the tank received wastewater.

The tank was removed from service and labeled an assumed leaker of approximately 8,000 gal in 1972. It was primary stabilized in 1978 and administratively interim stabilized in July 1979. Intrusion prevention was completed in September 1982. The tank level was adjusted in September 1971 and April 1982. In-tank photographs were taken on the following dates: May 1974, January 1979, April 1982, and February 1987. Sketch ES-TKS-E92, which shows a graphical representation of the Tank 241-SX-114 level history, and the historical waste level data used to make it are in Appendix C. Two pH readings are listed on the sketch: 13.6 in October 1962 and 12.1 in August 1972. The latest temperature readings from October 1993 are 189° F and 186° F from thermocouple trees 2 and 8, respectively. Presently, the tank is categorized as an assumed leaker and is stabilized.

2.14.1.2 Temperature History 241-SX-114

There are eight thermocouple trees in Tank 241-SX-114 in risers 9, 10, 11, 12, 14, 15, 18, and 19. Each tree has 8 thermocouple probes. No specific thermocouple elevations are available for any of the thermocouples. A minimum of three data points span the time frame from January 1989 to June 1989 for the thermocouples on tree 1. All the thermocouples on tree 2 have similar temperature readings that span from August 1989 to the present. Overall, the temperature readings decrease a maximum of 60°F from thermocouple 1 to thermocouple 8 on tree 2. A minimum of one data point is available for the thermocouples on tree 3 and 5 spanning from January to December 1989. A minimum of 3 data points are available from January 1989 to December 1989 for all probes on tree 4. Only one data point in December 1989 exists for the

thermocouples on tree 6 and 7. All the thermocouples on tree 8 have similar temperature readings that span from August 1989 to the present. Overall, the temperature readings decrease a maximum of 40°F from thermocouple 1 to thermocouple 8 on tree 8.

The mean temperatures of the first electronically available daily thermocouple readings were 167°F for tree 1, 170°F for tree 2, 155°F for tree 3, 188°F for tree 4, 201°F for tree 5, 167°F for tree 6, 136°F for tree 7, and 158°F for tree 8. Not enough data points for tree 1 and trees 3 through 7 are recorded to give any conclusive information about in-tank temperature trends. A sum of the squares regression line fit for tree 2, starting in 1989, shows a near zero slope $\pm 5.6^\circ\text{F}$. Even though there are five or more data points, not enough data exist throughout the time frame for thermocouple 2 and 3 on tree 1, thermocouples 3 and 4 on tree 3, and thermocouple 1 on tree 4 to make an accurate analysis of temperature trends in the tank. A sum of the squares regression line fit for tree 8, starting in 1989, shows a near zero slope $\pm 6.5^\circ\text{F}$ over the time span of available readings. From August 1989 to present, the median temperature is 159.9°F with a minimum of 108°F and a maximum of 220.3°F. Tank 241-SX-114 is a high-heat load tank and has a monthly temperature reading requirement.

Plots of thermocouple readings for Tank 241-SX-113 are in Appendix D.

2.14.1.3 Integrity of Tank 241-SX-114

Tank 241-SX-114 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-114 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the 71.25-in. baseline is 1 in. There is no criterion for a decrease. A figure in Appendix E graphically represents the surface level measurements from January 1991 to the present. The surface level for the past three years has remained steady with the readings ranging from 67 to 66 in.

Tank 241-SX-114 does not have a liquid observation well.

Seven drywells are identified for Tank 241-SX-114. Drywells 41-14-04 (active prior to 1990, no longer active), 41-14-06 (active prior to 1990, no longer active), and 41-14-09 (active prior to 1990, current readings < 200 c/s) have or had readings greater than the 50 c/s background radiation.

Appendix F contains a graphical representation of the data for the active drywell from January 1990 to the present. The graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.14.1.4 Historical Sample Analysis Data for Tank 241-SX-114

Data have been tabulated for an analysis that was performed on a sludge sample from Tank 241-SX-114 in 1962. The sampled waste

was transferred to Tank 241-SX-113 for a leak test and then returned to Tank 241-SX-114 after the test was completed. The sludge was almost all sodium nitrate. Results of the analysis will be found in Appendix H.

2.14.2 Current Status of Tank 241-SX-114

Tank 241-SX-114 entered service in November 1956 and currently stores 181,000 gal of waste. The waste is comprised of 133,000 gal of unknown waste and 48,000 gal of sludge with no pumpable liquid remaining. The tank is identified as a high-heat load tank, is actively ventilated and is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-114 is equipped to cascade to Tank 241-SX-115 and is second in the three-tank cascade series. A plan view and tank cross-section in Appendix G depict the approximate waste level and riser configuration. Tank 241-SX-114 has 21 risers and two 12-in. risers (no.16 and no.17) are available for use.

2.14.2.1 Waste Layer Volume Approximation for Tank 241-SX-114

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.14.2.2 In-Tank Photograph 241-SX-114

In the Tank 241-S-114 picture in Appendix I, the surface is shown to be thoroughly dried out which corresponds with level history data. A dark yellow residue has dried on the surface in a few places which is probably a result of liquid evaporation from the small pools that remained in the tank after it was partially stabilized. Airlift circulators, temperature probes, nozzles, risers, and a level measurement device are all clearly identified in the picture. An old level measurement tape, a float, and a dead rabbit can be seen on the waste surface. The sequence of photographs that makes up this picture is from 1987. Since then, the tank level has remained constant at about 6 ft which corresponds with a waste content of 181,000 gal. There were no additions to or removals from the tank since 1987. Therefore, the picture should provide a good representation of present tank contents.

2.14.3 Synopsis Tank 241-SX-114

(To be completed)

2.15 Tank 241-SX-115

2.15.1 241-SX-115 Tank History

2.15.1.1 Waste History Tank 241-SX-115

The waste history narrative in the following paragraph is from "A History of the 200 Area Tank Farms" (Anderson 1990). Tank 241-SX-115 was filled with waste from the REDOX facility from the third quarter of 1958 until the second quarter of 1970. In the second quarter of 1965, the tank was reported as a suspect (i.e. assumed) leaker. The tank was air-cooled from the third quarter of 1976 until the fourth quarter of 1977. Presently, the waste is classified as non-complexed.

The waste history narrative of the primary additions that follow in this paragraph are from the "Waste Status and Transaction Record Summary" (Agnew 1994). Tank 241-SX-115 received wastewater from the third quarter of 1958 until the third quarter of 1963. From the third quarter of 1958 until the third quarter of 1960, the tank received REDOX waste.

The tank was removed from service and labeled an assumed leaker (50,000 gal) in 1965. It was primary stabilized in 1978 and administratively interim stabilized in September 1978. Intrusion prevention was completed in December 1982. The tank level was adjusted in March 1972 and April 1982. In-tank photographs were taken on the following dates: December 1969, February 1972, May 1974, October 1981, and March 1988. Sketch ES-TKS-E93, which shows a graphical representation of the Tank 241-SX-115 level history, and the historical waste level data used to make it are in Appendix C. One pH reading is listed on the sketch: 13.7 in September 1964. A current temperature is unavailable for this tank because there is no thermocouple junction box from December 1991. Presently, the tank is categorized as sound and is non-stabilized.

2.15.1.2 Temperature History 241-SX-115

Tank 241-SX-115 currently has no thermocouple tree. An observation from a walk through in March 1993 indicates that riser 4 had a thermocouple tree with the wires cut. As of September 1993, there was no thermocouple junction box and the last reading had been taken prior to December 1991.

2.15.1.3 Integrity of Tank 241-SX-115

Tank 241-SX-115 is categorized as an assumed leaker and is interim stabilized with intrusion prevention completed. The Tank 241-SX-115 surface level is monitored quarterly with a manual tape. The maximum allowable increase from the 7.5-in. baseline is 1 in. There is no criterion for a decrease. Appendix E contains a figure that graphically represents the surface level measurements from January 1991 to the present. The surface level for the past three years has remained steady with the readings ranging from 7 to 6 in.

Tank 241-SX-115 does not have a liquid observation well. Seven drywells are identified for Tank 241-SX-115. Drywell 41-15-07 (active prior to 1990, current activity > 200 c/s) is active with readings greater than the 50 c/s background radiation.

Appendix F contains a figure that is a graphical representation of the data for the active drywell from January 1990 to the present. The graph includes the peak c/s, the depth at which the peak occurred, and the date of the reading.

2.15.1.4 Historical Sample Analysis Data for Tank 241-SX-115

Tank 241-SX-115 was removed from service in 1965 as a confirmed leaker. The tank was sampled in June 1966 and in April 1975. A sludge sample received in March 1975 and analyzed in April was dark brown and quite dry. The 1966 analysis was limited in scope and the sample was not described. Results of these analyses are given in Appendix H.

2.15.2 Current Status of Tank 241-SX-115

Tank 241-SX-115 entered service in September 1958 and currently stores 12,000 gal of waste. The waste is comprised of 6,000 gal of unknown waste and 6,000 gal of sludge with no pumpable liquid remaining. The tank is identified as a low-heat load tank, is passively ventilated, and is categorized as an assumed leaker with interim stabilization and intrusion prevention completed. Tank 241-SX-115 is third in the three-tank cascade series. A plan view and tank cross-section are in Appendix G that depict the approximate waste level and riser configuration. Tank 241-SX-115 has 10 risers and one 12-in. riser (no.6) is available for use.

2.15.2.1 Waste Layer Volume Approximation for Tank 241-SX-115

A comparative analysis of all layer approximations for the entire tank farm and the data used to derive the tank layer approximations are located in Appendix K.

2.15.2.2 In-Tank Photograph 241-SX-115

The waste in the photographs in Appendix I appears to be dry material. A 1975 sludge sample from Tank 241-SX-115 was dark brown and quite dry. The color corresponds with the color of the waste material in the center of this picture. The different material around the edge of this tank may be only on the surface. The waste level in this tank is relatively low so the airlift circulators are visible. A temperature probe, a turbine pump, a condenser pit riser, and some nozzles are also in the photos. Part of the surface is not shown. After these photographs were taken in 1988, waste level in the tank has remained stable at the 1 ft level which corresponds with a waste content of about 12,000 gal.

2.15.3 Synopsis Tank 241-SX-115 (To be completed)

GLOSSARY

0.17	Transaction flag key-monthly volumes derived from semiannual reports.
0.33	Transaction flag key-monthly volumes derived from quarterly reports.
1	Monthly report.
1AYIN	See Waste Abbreviations.
1AZIN	See Waste Abbreviations.
1C	See Waste Abbreviations.
1CEB	See Waste Abbreviations.
1CS	See Waste Abbreviations.
1st Generation Tank	The original tank design encompassing Tank Farms B, C, T, U (excluding the 200 series tanks), and BX. These tanks have an operating capacity of 530,000 gal, a 75-ft diameter, a 12-in. dish bottom, and a 4-ft knuckle. Also see Type II tanks.
222-B	See Facilities.
222-C	See Facilities.
222-T	See Facilities.
222-U	See Facilities.
224	See Waste Abbreviations.
224-F	See Waste Abbreviations.
231Z	See Waste Abbreviations.
242-A	See Facilities.
242-B	See Facilities.

242-S	See Facilities.
242-T	See Facilities.
2AYIN	See Waste Abbreviations.
2AZIN	See Waste Abbreviations.
2C	See Waste Abbreviations.
2nd Generation Tank	Same as original tank design (1st generation, or type II) except the operating capacity was increased to 758,000 gal. Also see Type III tanks.
2SYIN	See Waste Abbreviations.
3	Quarterly report.
3AWIN	See Waste Abbreviations.
3rd Generation Tank	The first generation of the type IV tanks, contains the SX Tank Farm only. These tanks have a 1,000,000 gal operating capacity, a 75-ft diameter, a 14.875-in. dish bottom, and no knuckle. Also see Type IV tanks.
4th Generation Tank	The second generation of the type IV tanks, contains the A Tank Farm only. These tanks are the same as the 3rd generation except they have a flat bottom. Also see Type IV tanks.
5	See Waste Abbreviations.
5-6#	Cells 5 and 6 from B-Plant.
5AWIN	See Waste Abbreviations.
5th Generation Tank	The third generation of the type IV tanks, contains the AX Tank Farm only. These tanks are the same as the 4th generation with the addition of grid drain slots beneath the steel liner bottom.
6	Semiannual report.

6AWIN	See Waste Abbreviations.
A Plant (PUREX)	See Facilities.
A1 SLTCK	See LANL Defined Waste List.
A2 SLTSLRY	See LANL Defined Waste List.
Active Tank	A tank that contains more than 33,000 gal of waste and/or is still involved in waste management operations.
Active Drywell	Drywell in which radiation readings of greater than 50 counts/second are detected. To be considered active, the readings must be consistent as to depth and radiation level for repeated readings.
ADD	Add primary waste from process.
ADJ	Adjustment to waste amount-see CORR.
AGE, AGING	Waste Abbreviation.
Aging Waste	High-level, first-cycle solvent extraction waste from the PUREX Plant (NCAW).
Airlift Circulator	The airlift circulators are installed in tanks used to age wastes. The circulators promote mixing of the supernate and prevent agglomeration of radionuclides. By maintaining motion within the body of liquid, the circulators minimize superheat buildup and, consequently, minimize bumping.
Annulus	A vessel space in the form of a ring; the space between concentric walls.
AR Vault	A structure containing tanks and chemical processing equipment that is used for waste processing or storage operations.
AR	See LANL Defined Waste List.

Assumed Leaker	A waste storage tank for which surveillance data, in the past, has indicated a loss of liquid attributed to a breach of integrity.
Assumed Re-leaker	A designation that exists after a tank has been declared an "assumed leaker" and then the surveillance data indicate a new loss of liquid attributed to a breach of integrity.
Assumed Leaking Tank	In 1984, the criteria designations of "suspect leaker," "questionable integrity," "confirmed leaker," "declared leaker," "borderline," and "dormant" were merged into one category now reported as "assumed leaker."
B SLTCK	See LANL Defined Waste List.
B	See Waste Abbreviations.
B Plant (222-B)	See Facilities.
B860N	See Waste Abbreviations.
Background Radiation	Radioactivity from naturally occurring sources; primarily radiation from cosmogenic and naturally occurring radionuclides.
Baseline	A reference; for example, a specified liquid level or radiation level against which new information is compared.
BFSH	See Waste Abbreviations.
BL	See Waste Abbreviations.
BLEB	See Waste Abbreviations.
BLIX	See Waste Abbreviations.
BLIXB	See Waste Abbreviations.
BNW	Battelle Northwest Laboratory.
BNW	See Waste Abbreviations.

BPDCC	See Waste Abbreviations.
BPDCS	See Waste Abbreviations.
BPDCV	See Waste Abbreviations.
BPFPS	See Waste Abbreviations.
BPLCS	See Waste Abbreviations.
BPLDC	See Waste Abbreviations.
BPLDN	See Waste Abbreviations.
Bumping, Tank Bump	A tank bump occurs when solids overheat in the lower portion of the tank. The hot solids rapidly transfer heat to the liquid, some of which quickly vaporizes. The sudden pressurization caused by vapor generation is called a "bump".
BVCLN	See Waste Abbreviations.
BY SLTCK	See LANL Defined Waste List.
C Plant (222-C)	See Facilities.
C PLANT	See SSW.
Caisson	An underground structure used to store high-level waste; typical designs include corrugated metal or concrete cylinders, 55-gal drums welded end-to-end, and vertical steel pipes below grade.
Calcine	To heat a substance to a high temperature, but below its melting point, causing loss of volatile constituents such as moisture; refers also to the material produced by this process.
CARB	See Waste Abbreviations.
CAS	Cascade-see SET and END. This process filled three tanks with one pump using overflow siphoning. Normal use was with

a sequence of tanks such as 101, 102, 103, or 110, 111, 112.

Cascade	Eleven of the single-shell tank farms (all except the AX Tank Farm) were equipped with overflow lines between tanks. The tanks were connected in series and were placed at different elevations creating a downhill gradient for liquids to flow from one tank to another.
CASS	Acronym for Computer Automated Surveillance System.
Catch Tanks	Small capacity single-shell tanks associated with diversion boxes and diverter stations. The tanks are designed to receive any transfer line cleanout, spills or leakage from the boxes, or leakage from the adjacent pipe encasement.
CAW	Current acid waste; this is PUREX acid HLW.
CC	See Waste Abbreviations.
CCGL	See Waste Abbreviations.
CCGR	See Waste Abbreviations.
CCPL	See Waste Abbreviations.
CCPLX	See Waste Abbreviations.
CCW	Concentrated customer waste.
CDF	Composition data file or transaction flag key-unit volume assumed to make stream active.
CE	See Waste Abbreviations.
CELL 23	Waste from cell 23 at B-Plant. Cell 23 contained an evaporator.
CEM	See Waste Abbreviations.

CF	See Waste Abbreviations.
CON	See Waste Abbreviations.
COND	Condensate-see EVAP, EB.
Condensate	Liquid formed from cooling vapors.
Conductivity Probe	A device that completes an electrical circuit when contacted by a conductive material.
Confirmed or Storage Declared Leaker	The designation of any underground waste tank where the data are considered sufficient to support a conclusion with 95 percent confidence that the tank has leaked.
COOL	Change in waste volume due to cooling. See CORR.
CORR	Correction to waste amount-see ADJ, LEAK, COOL.
CP	See Waste Abbreviations.
CPLX	See Waste Abbreviations.
CR Vault	Facility located adjacent to C Farm, used for scavenging campaign following uranium recovery. Ferrocyanide was added to tank supernatants in CR Vault and the slurry was returned to C-Farm.
Crib	A linear excavation approximately 15 ft in depth, with a perforated pipe in the bottom. The ditch is backfilled with broken rock or other loose material and then covered by soil and by a liquid impermeable membrane; the pipe is then used to distribute intermediate level liquid wastes along the crib.
Crust	A hard surface layer that has formed on top of the liquid in many waste tanks that contain concentrated solutions.
CSFD	See Waste Abbreviations.

CSR	See Waste Abbreviations.
CST	See Waste Abbreviations.
CSWLE	See Waste Abbreviations.
CSWLW	See Waste Abbreviations.
CTW	Caustic waste for makeup.
CW	See Waste Abbreviations
CWP	See Waste Abbreviations.
CWP/ZR	See Waste Abbreviations.
CWP2	See LANL Defined Waste List.
CWR	See Waste Abbreviations.
CX70	See Waste Abbreviations.
D	Transaction Flag Key-Amount by difference.
DBP	Dibutyl phosphate.
DC	See Waste Abbreviations.
DCS	Acroynm for dilute caustic solutions
DE	Acronym for diatomaceous earth that was added to Tanks 241-BX-102, -SX-113, -TX-106, and -U-104 from 1970 to 1972.
DE	See LANL Defined Waste List.
Deliquescent	A solid that is capable of absorbing moisture from the air and becoming a liquid.
Desiccant	A drying agent such as diatomaceous earth.
Diatomaceous Earth	Diatomite, a light friable siliceous material, derived chiefly from diatom (algae) remains that is added to selected underground waste storage tanks

to absorb and, thereby, immobilize residual liquids (i.e help to stabilize the tank).

DBP	Dibutyl phosphate.
DIL	Dilution
DILFD	Dilute feed
Ditch	A linearly oriented excavation often used for the temporary diversion or disposal of process waste streams.
Diversion Box	A below grade concrete enclosure containing the remotely maintained jumpers and spare nozzles for the routing of waste solution to storage tank farms.
DN/PT	See Waste Abbreviations.
DN/PD	See Waste Abbreviations.
DN	See Waste Abbreviations.
Double-Shell Tank	The newer underground waste storage tanks consisting of a concrete shell and two concentric carbon steel liners with an annular space between the liners.
Double-Shell Slurry	Waste that exceeds the sodium aluminate saturation boundary in the evaporator without exceeding receiver tank composition limits. For reporting purposes, DSS is considered a solid.
Double-Shell Slurry Feed (DSSF)	Waste concentrated just before reaching the sodium aluminate saturation boundary in the evaporator without exceeding receiver tank composition limits. This form is not as concentrated as DSS.
Drywell	A steel casing, generally 6 inches in diameter drilled into the ground to various depths, and used to insert monitoring instruments for measuring the presence of radioactivity or moisture

content.

Drywell (in-tank)	A sealed casing within a tank that is attached to a riser. It is used to insert experimental equipment, such as neutron or acoustical probes, to determine the level of drainable interstitial liquor.
DSS	See Waste Abbreviations.
DSSF	See Waste Abbreviations.
DUMM	See Waste Abbreviations.
DUMMY	See Waste Abbreviations.
DW	See Waste Abbreviations.
DWBIX	See Waste Abbreviations.
E	Transaction flag key-waste transferred through evaporator.
EB	See Waste Abbreviations.
EDTA	Ethylenediaminetetraacetic acid.
EF	See Waste Abbreviations.
EFD	See Waste Abbreviations.
END	Disconnect Cascaded Tanks, see CAS, Set.
Environs	Surrounding area, vicinity.
EV	Evaporation.
EVAP	See Waste Abbreviations.
EVAPF	See Waste Abbreviations.
Evaporator Feed	Any waste liquid that can be concentrated to form saltcake; e.g., low heat waste, dilute interstitial liquor, aged waste, and other radioactive waste solutions.

Evaporator-Crystallizer	242-A and 242-S waste concentration facilities that operate at a reduced pressure (vacuum) and are capable of producing a slurry containing about 30 volume percent solids at a specific gravity of greater than 1.6.
EVS	Partial neutralization in the 242-S Evaporator.
EVT	HEDTA destruction in the 242-B or 242-T Evaporators.
FD	See Waste Abbreviations.
FECN	Ferrocyanide wastes created during a scavenging campaign in 1953-57. See SCAV, P00, T00.
Ferrocyanide	An ion composed of iron and cyanide with the chemical formula of $\text{Fe}(\text{CN})_6^{4-}$.
FIC	A Food Instrument Corporation automatic liquid level gauge based on a conductivity probe. At Hanford, they are electrically connected to a computer for data transmission, analysis, and reporting. Local readings may also be obtained from a dial.
First- And Second-Cycle Decontamination Wastes	Waste contained 10 percent of the original fission product activity and 2 percent of the products. By-product cake solution was mixed with product waste and neutralized with 50 percent caustic. The waste contained a mixture of suspended solids, hydroxides, carbonate and phosphate, scavenger metals, chromium, iron, sodium, and silicofluoride.
FLSH	See Waste Abbreviations.
FP	Fission Product Waste. Waste produced at B Plant and Hot Semiworks in campaigns for Cs and Sr recovery during the 1960s. Cs was removed from PUREX supernatant and Sr was removed from

	PUREX sludge; both were removed from acidic waste.
FP	See Waste Abbreviations.
GA	Gain to tank.
Gamma Ray	Electromagnetic radiation sometimes emitted by the nuclei of radioactive substances during decay, similar in nature to X-rays.
GAS	Slurry growth as a result of gas generation.
GM Instrument	Instrument for detecting low-level beta and gamma radiation using a Geiger-Mueller tube.
GROUP	A group of tanks where ITS averaged the supernatant phases-see ITS.
Gunite	A building material consisting of a mixture of cement, sand, and water that is sprayed onto a mold.
H ₂ O	Water.
HDRL	See Waste Abbreviations.
HEAT	A tank correction, see CORR, COOL.
HEDTA	N hydroxy-ethylenediaminetriacetic acid.
Heel	The amount remaining in a vessel or container after most of the contents have been removed.
Hexone	Methyl isobutyl ketone, an organic solvent used in the REDOX solvent extraction process. Also known as Isobutyl methyl ketone, Methyl isobutyl ketone, 4-Methyl 2-pentanone, MIBK.
High-Level Waste	Waste from the fuel reprocessing operations in separations plants.
Historical Information	All information obtained from material

referenced in published documentation and unpublished sources. Unpublished sources include electronically retrieved data (i.e. temperatures, liquid observation well, sampling, and surface level) and photographs.

HLO	See Waste Abbreviations.
HLO	Hanford Laboratory Operations.
HLW	See Waste Abbreviations.
HOT-SEMI	See HS, SSW.
HS	See Waste Abbreviations.
HS	Hot Semi-Works. A pilot facility that had a variety of operations. C Plant.
HWVP	Dilute, non-complexed waste from the vitrification plant.
I&S	Tank isolated and stabilized.
Inactive Tank	A tank that has been removed from liquid-processing service, has been pumped to less than 33,000 gal of waste, and is waiting to be, or is in the process of being, stabilized and interim isolated. Includes all tanks not in active or active-restricted categories. Otherwise inactive contingency spares that would be used if an active tank failed are also included.
INST	Change in tank level due to change in instrumentation.
Interim Isolated	An administrative designation reflecting the completion of the physical effort required to minimize the addition of liquids into an inactive storage tank, process vault, sump, catch tank, or diversion box.
Interim Stabilized	A tank which contains less than 50,000 gallons of drainable interstitial liquid

and has less than 5,000 gallons of supernatant liquid. If the tank was jet pumped to achieve interim stabilization, then the jet pump flow must also have been at or below 0.05 gallons per minute before interim stabilization is completed.

Interstitial Liquor	The liquid that fills the interstices or the void volume in the solid material in a waste tank.
Interstitial	The volume within a solid matrix made up of the crevices, cracks, and void spaces.
Intrusion Mode FIC Setting	The FIC probe is positioned a short distance above the waste surface. If the surface level of the waste in the tank increases, thereby touching the probe tip, a positive indication is received.
Intrusion Prevention	This is an administrative designation reflecting the completion of the physical effort required to minimize the addition of liquid into an inactive storage tank, process vault, catch tank, sump, or diversion box.
ISO	Tank is interim-isolated.
ITS	The In-Tank Solidification Program was a program used to reduce waste volume directly by evaporating the wastes from inside certain tanks in the BX and BY Farms. The process used both hot air (ITS-1) and an electric heater (ITS-2).
IWW	See Waste Abbreviations.
IX	See Waste Abbreviations.
Jet Pump	A modified commercially available low capacity jet pump used as a salt well pump.
Knuckle	Point where the side wall and the bottom

	curved surface of a tank meet.
L222S	See Waste Abbreviations.
L3A4A	See Waste Abbreviations.
LaF	See Waste Abbreviations.
Lateral	Horizontal drywell under A Farm and certain SX Farm waste storage tanks.
Leak Detection Pit	Collection point for any leakage from AX Farm tanks. The pits are equipped with radiation and liquid detection instruments.
LEAK	Tank leak volume, see CORR.
LETf	Liquid effluent treatment facility from N-Reactor.
Level Adjustment	Any update in the waste inventory (or tank level) in a tank. The adjustments usually result from surveillance observations or historical investigations.
Level History	A diagram that shows the history of the waste level and waste level changes in a tank. The diagram also includes other related data.
Liquid Observation Well (LOW)	Liquid observation wells are used to monitor the interstitial liquid level (ILL) in single-shell waste storage tanks. Three probes are used to monitor changes in the ILL: acoustic, gamma, and neutron. Each method can indicate intrusions or leakage by increases or decreases in the ILL.
Liquid Level Best Engineering Judgement Line	During the initial fill of certain single-shell tanks, only the liquid level was reported. To adjust for the big increase in level height, which occurred when solids were added to the record, a sloped line was used to reflect solids volume between the

initial fill and the time the solids data was recorded.

LO	Loss from tank.
LUNC	See Waste Abbreviations.
LW	See Waste Abbreviations.
Metal Waste (MW)	Waste from the extraction containing all the uranium, approximately 90 percent of the original fission product activity, and approximately 1 percent of the product. This waste was brought just to the neutral point with 50 percent caustic and then treated with an excess of sodium carbonate. This procedure yielded almost completely soluble waste at a minimum total volume. The exact composition of the carbonate compounds was not known but was assumed to be an uranium phosphate carbonate mixture.
Molarity	Number of gram molecular weights (moles) per liter of solution.
Mole	The amount of a substance with weight equal to the molecular weight in grams.
MW	See Waste Abbreviations.
MWF	See Waste Abbreviations.
N	See Waste Abbreviations.
NCAW	See Waste Abbreviations.
NCPL	See Waste Abbreviations.
NCPLEX	See Waste Abbreviations.
NCPLX	See Waste Abbreviations.
NCRW	See Waste Abbreviations.
Neutralized PUREX Acid Waste	The original plant in 1956 neutralized all the high-level waste and sent it to the 241-A Tank Farm. As fission product

recovery started, a portion of the waste was treated for strontium recovery and then neutralized. As of 1967, all of the high-level waste left PUREX as an acid solution for treatment at B Plant.

Neutron Probe

Probe equipped with a neutron source and detector. They are used in dry well monitoring to determine the moisture content of the soil as one means for detecting leaks in underground waste storage tanks or pipelines.

NFAW

See Waste Abbreviations.

NHAW

See Waste Abbreviations.

NIT

HNO₃/KMNO₄ solution added during evaporator operation.

Noise At The Bottom Of Well--Drywell Probe

Erroneous reading caused by probe coming contact with foreign objects at the bottom of a well.

Non-Complexed (NCPLX)

General waste term applied to all Hanford Site liquors not identified as complexed (containing organics).

NPH

Normal paraffin hydrocarbon.

NRAW

See Waste Abbreviations.

NRP82

See Waste Abbreviations.

NRPO4

See Waste Abbreviations.

NRSO4

See Waste Abbreviations.

NTA

Nitrilotriacetic acid.

Nuclear reactor

A device for creating a controlled nuclear chain reaction using atomic fuel, as for the production of energy.

Open Hole Salt Well

A well in which a pump is inserted in solid waste. Frequently used to remove the liquid from tanks containing less than 2 feet of sludge.

Organic Wash Waste(OWW)	The solvent used in PUREX was treated before reuse by washing with potassium permanganate and sodium carbonate, followed by dilute nitric acid and then a sodium carbonate wash.
Out-of-Service-Tank	A tank that does not meet the definition of an in-service tank. Before September 1988, these tanks were defined as inactive. {Note: all single-shell tanks (SSTs) are out of service.}
OWW	See Waste Abbreviations.
P	See Waste Abbreviations.
P1:	See LANL Defined Waste List.
P2:	See LANL Defined Waste List.
PADFG	See Waste Abbreviations.
PADWG	See Waste Abbreviations.
Partially Interim Isolated	The administrative designation reflecting the completion of the physical effort required for Interim Isolation except for the isolation of risers and piping that will be required for jet pumping or for other methods of stabilization.
PAS	See Waste Abbreviations.
PASF	See Waste Abbreviations.
PAW	See Waste Abbreviations.
PD	See Waste Abbreviations.
PDBNG	See Waste Abbreviations.
PDBSU	See Waste Abbreviations.
PDBTG	See Waste Abbreviations.
PDCSS	See Waste Abbreviations.

PDL87	See Waste Abbreviations.
PDL89	See Waste Abbreviation.
PDNSG	See Waste Abbreviations.
PDS87	See Waste Abbreviations.
PDS89	See Waste Abbreviations.
PDSLGL	See Waste Abbreviations.
PDSUP	See Waste Abbreviations.
PFeCN	See Waste Abbreviations.
PFeCN1:	See LANL Defined Waste List.
PFeCN2:	See LANL Defined Waste List.
PFMMS	See Waste Abbreviations.
PFP (Z-Plant)	See facilities.
PFP	Plutonium finishing plant waste (see Z, 224, PRF).
PFPGR	See Waste Abbreviations.
PFPNT	See Waste Abbreviations.
PFPPT	See Waste Abbreviations.
PFPSL	See Waste Abbreviations.
pH	A measure of the hydrogen ion concentration in a solution.
Pile	An early term used to describe a nuclear reactor.
PL	See Waste Abbreviations.
PML89	See Waste Abbreviations.
PMS89	See Waste Abbreviations.
PN	See Waste Abbreviations.

PNF	See Waste Abbreviations.
POO-P##	In-Plant scavenging with FeCN-see SCAV, TOO-T##.
Portland Cement	A hydraulic cement made by finely pulverizing the clinker produced by calcining to incipient fusion a mixture of clay and limestone or similar materials.
PRF	Plutonium Reclamation Facility-Type of waste generated in Z-Plant for "finishing wastes". Solvent based extraction process using CCl ₄ /TBP.
Primary Addition	An addition of waste from a specific plant or process vault. These additions come from the "waste Status and Transaction Record Summary", WHC-SD-WM-TI-614 & -615 Rev. 0 DRAFT.
Primary Stabilization	The condition of an inactive waste storage tank after all liquid above the solids, other than isolated surface pockets, has been removed. Isolated surface pockets of liquid are those not pumpable by conventional techniques.
Probe	A device used to get information about the environment. In this report, an instrument package designed to be inserted in drywells, risers, or ports to measure waste characteristics.
PSL	See Waste Abbreviations.
PSS	See Waste Abbreviations.
PSSF	See Waste Abbreviations.
Psychrometry	Determination of humidity or dew point from wet and dry bulb temperatures with the difference in the two used as a measure of dryness in the atmosphere.
PT	See Waste Abbreviations.

PUREX	See Facilities.
PX86S	See Waste Abbreviations.
PXBAW	See Waste Abbreviations.
PXBSG	See Waste Abbreviations.
PXFTF	See Waste Abbreviations.
PXLOW	See Waste Abbreviations.
PXMET	See Waste Abbreviations.
PXMSC	See Waste Abbreviations.
PXNAW	See Waste Abbreviations.
Questionable Integrity	Any tank that has a small decrease in liquid level or a radiation increase in an associated dry well, for which the data are insufficient to support a conclusion with 95 percent confidence that the tank is sound.
R	See Waste Abbreviations.
R SLTCK:	See LANL Defined Waste List.
R1:	See LANL Defined Waste List.
R2:	See LANL Defined Waste List.
Radiation Zone	An area containing radioactive materials in quantities significant enough to require control of personnel entry to the area.
Radiation	Particles and electromagnetic energy emitted by nuclear transformations that are capable of producing ions when interacting with matter.
Readily available have Risers	Risers located above grade which do not apparatus attached to or contained in them.

REC	Receive waste from another tank-see XFER.
REDOX	See Facilities.
Removed From Service is not (Tanks)	Any tank that is a confirmed leaker or intended for reuse.
Rerun Drywell Data	Surveillance data which supersedes "suspect data".
RESO	See Waste Abbreviations.
RIX	See Waste Abbreviations.
RMC	Remote Mechanical C-Line -Process used in Z-Plant.
RSN	See Waste Abbreviations.
RSS	See Waste Abbreviations.
RTX	See Waste Abbreviations.
S	Transaction Flag Key-Partial neutralization (PNF).
S-Plant (REDOX)	See Facilities.
S1 SLTCK:	See LANL Defined Waste List.
S2 SLTSLRY:	See LANL Defined Waste List.
Salt Cake	Crystallized nitrate and other salts deposited in waste tanks, usually after active measures are taken to remove moisture.
Salt Well	A hole drilled or sluiced into a salt cake and lined with a cylindrical screen to permit drainage and jet pumping of interstitial liquors.
SCAV	Scavenging campaign with FECN on TBP, 1952-57. See TOO-T##, POO-P##.
Scavenged	Waste which has been treated with ferrocyanide to remove cesium from the

	supernatant by precipitating it into the sludge.
Scintillation Monitor	A radiation detection instrument based on the principle that light pulses are produced in some materials when they are exposed to radiation.
Self Concentrating	High-level liquid radioactive waste whose constituent radionuclides contribute sufficient decay heat to cause the solution to boil and/or self-concentrate.
Self-Evaporation	A waste material in which moisture is being lost as the moisture changes to a vapor and diffuses into the atmosphere.
SET	Connect cascaded tanks together-see CAS and END.
SIX	See Waste Abbreviations.
SL	See Waste Abbreviations.
SL3SY	See Waste Abbreviations.
Sludge	Primarily insoluble metal hydroxides and oxides precipitated from neutralized waste.
Slugs	An early term for uranium fuel elements which had been machined or extruded into short cylinders which were then clad or encased in corrosion-resistant metals.
Sluicing, or sluiced	To wash with water. At Hanford, this has meant to dissolve or suspend in solution by action of a high pressure water stream.
Slurry	Insoluble material suspended in water or aqueous solution.
Sound Tank	The classification of a waste storage tank for which surveillance data indicates there has been no loss of liquid attributed to a breach of

	integrity.
SPRG	Sparge-transfer of water or volume
SRR	See Waste Abbreviations.
SRS	See Waste Abbreviations.
SRS	See Waste Abbreviations.
SSW	See Waste Abbreviations.
STAB	Tank stabilized by removal of liquid. Both floating suction and salt-well jet pumps used to remove liquid.
Stabilization	The removal, or immobilization, as completely as possible, of the liquid contained in a radioactive waste storage tank by salt well pumping, open hole salt well pumping, diatomaceous earth addition, etc.
Static Tank	A tank with no significant change in liquid level or involvement in transfer operations during a stated period of time.
Strontium Semi-Works	Called C-Plant or Hot Semi-Works, was a pilot plant for both Redox and Purex, then reconfigured for strontium recovery.
SU	See Waste Abbreviations.
Supernatant (Supernatant Liquid)	In waste storage tanks, the liquid quantity defined by the difference between the measured liquid level and the measured average solids level in a tank.
Surveillance	Regular or systematic watch kept over someone or something.
Suspect Data	Surveillance data which does not fall within the expected range and is superseded by "reruns."

SV	Transaction Flag Key-Amount by difference in solids.
SW RCR	Salt-well Receiver.
SWLIQ	See Waste Abbreviations.
SWLQW	See Waste Abbreviation.
T-Plant (222-T)	See Facilities.
T1 SLTCK:	See LANL Defined Waste List.
T2 SLTCK:	See LANL Defined Waste List.
Tank Farm	An area containing a number of storage tanks; i.e., a chemical tank farm for storage of chemicals used in a plant, or underground waste tank storage of radioactive waste.
TBP	Tributyl phosphate, a solvent used in the PUREX solvent extraction process.
TBP	See Waste Abbreviations.
TCO	See Waste Abbreviations.
Terminal Liquor	The liquid product from the evaporation-crystallization process which, upon further concentration, forms an unacceptable solid for storage in single-shell tanks. Terminal liquor is characterized by a caustic concentration of approximately 5.5 M (the caustic molarity will be lower if the aluminum salt saturation is reached first).
TFeCN	See Waste Abbreviations.
TH	See Waste Abbreviations.
Thermocouple Tree	A group of thermocouples assembled in a pipe and inserted into a waste tank for measuring temperatures at regular (normally 2 feet) vertical intervals.
Thermocouple,	A probe for measuring temperature,

Thermocouple probe	consisting of two dissimilar metal wires joined at one end (hot junction) with the free ends joined to a measuring instrument. Electrical potential changes due to temperature changes at the hot end are measured and calibrated to read out as temperature.
Thermowell	A well in a waste tank which contains thermocouples.
THL	See Waste Abbreviations.
Thorium	A chemical element which is also a fertile material. By fertile is meant that when subjected to radiation in a nuclear reactor it will be converted, in this case, to ²³³ uranium, a potential fuel.
TK	Tank. TK-17-2, however, was an early designation for B-Plant.
TL	See Waste Abbreviations.
TOO-T##	In-Tank scavenging with FECN, see SCAV, P##.
TPLAL	See Waste Abbreviations.
TPLAN	See Waste Abbreviations.
TPLAS	See Waste Abbreviations.
TR	Transfer from tank.
Trench	A deep furrow in the ground. At Hanford they are used for the disposal of solid waste.
trFlag	Transaction Flag Keys-used by W-Trac-see CDF, D, E, S, SV, 1, 3, 6, 0.17, 0.33.
Tributyl Phosphate(TBP)	A chemical compound, also an organic solvent used in the PUREX solvent extraction process.

Type I Tank	These are the 200 series B, C, T, and U Farm tanks. They have an operating capacity of 55,000 gal, a 20-ft diameter, a 6-in. dish bottom, and a 3-ft knuckle. There is no generation associated with type I tanks.
Type II Tank	These are the original, 1st generation, tank designs, encompassing B, C, T, U (excluding the 200 series tanks), and BX Tank Farms. Also see 1st Generation Tank.
Type III Tank	These are the 2nd Generation tank designs, encompassing BY, S, TX, and TY Tank Farms. Also see 2nd Generation Tank.
Type IV Tank	These include 3rd, 4th, and 5th generation tank designs, encompassing SX, A, and AX Tank Farms respectively. Also see 3rd Generation Tank, 4th Generation Tank, and 5th Generation Tank.
Type V Tank	These are the first double shell tank designs, encompassing AY, AZ, and SY Tank Farms.
U-Plant (222-U)	See Facilities.
U1U2	See Waste Abbreviations.
UNKN	Unknown waste origin sink.
UNKNOWN:	See LANL Defined Waste List.
UR	Uranium recovery operation in 222-U, 1952-57. Created TBP (primary waste) and FECN (scavenging wastes). See TFeCN, PFeCN, POO, TOO, FeCN.
UR:	See LANL Defined Waste List.
Watch List Tank	An underground storage tank containing waste that requires special safety precautions because it may have a serious potential for release of high-level radioactive waste because of

uncontrolled increases in temperature or pressure. Special restrictions have been placed on these tanks by "Safety Measures for Waste Tanks at Hanford Nuclear Reservation," Section 3137 of the National Defense Authorization Act for Fiscal Year 1991, November 5, 1990, Public Law 101-501 (also known as the Wyden Amendment).

WATER	Flush water from various sources.
WTR	Water.
WVP	Waste volume projections
XFER	Transfer of waste out of tank.
Z	See Waste Abbreviations
Z-Plant	See Facilities
Z-PLANT	PFP. Plutonium Finishing Plant.
ZAW	See Waste Abbreviations.
ZHIGH	See Waste Abbreviations.
ZLAB	See Waste Abbreviations.
ZLOW	See Waste Abbreviations.
ZPRFL	See Waste Abbreviations.
ZPRFS	See Waste Abbreviations.
ZRM	See Waste Abbreviations.
ZRMCL	See Waste Abbreviations.
ZRMCS	See Waste Abbreviations.

WASTE ABBREVIATIONS

1AYIN	Concentrated complex waste from 101 AY inventory
1AZIN	Pre 2-81 101AZ inventory
1C	First cycle waste
1CEB	1st cycle evaporator bottoms
1CS	1st cycle scavenging waste
224	224-U waste
224-F	224-U waste. LaF Pu finishing plant
231Z	Dilute, phosphate waste from 231Z laboratories
2AYIN	Pre 2-81 102AY inventory
2AZIN	Pre 2-81 concentrated complex waste from 102AZ inventory
2C	Second cycle waste
2SYIN	Pre 2-81 102SY inventory
3AWIN	Pre 2-81 103AW inventory
5-6	B-Plant tank 5,6 waste
5AWIN	Pre 2-81 105AW inventory
6AWIN	Concentrated phosphate waste in 106AW inventory
AGE, AGING	Aging waste
B	B-Plant high- level waste
B860N	Dilute, non-complexed waste from B Plant cell drainage
BFSH	B-Plant flush waste water
BL	B-Plant low-level waste

BLEB	B-Plant low-level evaporator bottoms
BLIX	B-Plant low level ion exchange?
BLIXB	B-Plant low level ion exchange bottoms?
BNW	Battelle Northwest Laboratory waste
BPDCC	Dilute, complexed waste from B Plant cesium processing
BPDCS	Dilute, complexed waste from B Plant strontium processing
BPDCV	Dilute, complexed waste from B Plant vessel clean-out
BPFPS	B Plant high Tru solids from retrieved PFP solids
BPLCS	Dilute, non-complexed waste from B Plant strontium processing
BPLDC	Dilute, complexed waste from B Plant cesium processing
BPLDN	Dilute, non-complexed waste from B Plant cesium processing
BVCLN	Dilute, non-complexed waste from B Plant vessel clean-out
CARB	PUREX organic wash waste
CC	Complexant concentrate waste
CCGL	B-Plant high Tru solids from retrieved complexed concentrate
CCGR	Dilute, non-complexed waste from retrieved complexed concentrate
CCPL	Complexant concentrate
CCPLX	Complexant concentrate-see CPLX

CE	Evaporator concentrate
CEM	Concrete-see CON
CF	Cesium feed
CON	Concrete-see CEM
CP	Concentrated phosphate waste from N Reactor decontamination
CPLX	Complex waste
CSFD	Cesium feed
CSR	Waste sent to B-Plant for cesium recovery
CST	Caustic solution
CSWLE	Complexed salt well liquid east area
CSWLW	Complexed salt well liquid west area
CW	Coating waste
CWP/ZR	Coating waste (PUREX), Zirconium cladding
CWP	Coating waste (PUREX)
CWR	Coating waste (REDOX)
CX70	Dilute, complexed mixture hot-semiworks Tru solids
DC	Dilute complexed waste
DN/PD	DN with P Tru solids
DN	Dilute non-complexed waste
DN/PT	DN with PFP Tru solids
DSS	Double-shell slurry
DSSF	Double-shell slurry feed

DUMM	Dummy waste
DUMMY	Dummy waste
DW	Decontamination waste
DWBIX	Decontamination waste and B-Plant ion exchange
EB	Evaporator bottoms
EF	Evaporator feed
EFD	Evaporator feed dilute
EVAP	Evaporator feed (post 1976)
EVAPF	Dilute, non-complexed waste from evaporator pad flush
FD	Feed dilute
FLSH	Flush water
FP	Fission product waste
HDRL	Hanford defense residual liquor
HLO	Hanford laboratory operations waste
HLW	High level waste-generic for all Hanford tank wastes
HS	Hot semiworks waste
IWW	PUREX #1 acid concentrator waste
IX	Ion exchange waste
L222S	222S laboratory, dilute non-complexed waste
L3A4A	Dilute non-complexed laboratory wastes from 300 & 400 areas
LaF	Lanthanum fluoride waste generated in PFP

LUNC	Dilute, non-complexed waste from UNC fuels fabrication
LW	Laboratory waste
MW	Metal waste
MWF	Metal waste feed
N	N-Reactor waste
NCAW	Neutralized current acid waste, primary HLW stream from PUREX process
NCPLEX	Non-complexed waste-see NCPLX
NCPLX	Non-complexed waste-see NCPLEX
NCPL	Non-Complexed waste
NCRW	Neutralized cladding removal waste-same as CWP.
NFAW	Aging waste from PUREX/PFM high level waste
NHAW	Aging waste from PUREX/PFM processing of NPR fuel
NRAW	Aging waste from PUREX/PFM residue acid waste
NRP82	Dilute, non-complexed waste from FY82 100-N area waste transfer
NRPO4	Dilute, phosphate waste from 100N area
NRSO4	Dilute, non-complexed waste from 100N area
OWW	Organic wash waste
P	PUREX waste
PADFG	Purex ammonia destruction waste, from fuels grade fuel
PADWG	Purex ammonia destruction waste, from

	weapons grade fuel
PAS	Purex acidified sludge
PASF	Purex ammonia scrubber feed
PAW	Purex acidified waste
PD	Purex decladding waste
PDBNG	Decladding sludge (non-Tru) from B Plant processing
PDBSU	Dilute, non-complexed waste from B Plant decladding waste
PDBTG	B Plant aging waste solids from Purex decladding waste
PDCSS	Dilute non-complexed Purex decladding waste, FY1986 only
PDL87	Purex decladding supernatant, 1987
PDL89	Purex decladding supernatant, non-Tru, spent metathesis removed
PDNSG	Non-Tru decladding sludge from Purex
PDS87	Purex decladding sludge
PDS89	Purex decladding sludge after FY89
PDSLGL	Purex decladding sludge sol Purex
PDSUP	Dilute, non-complexed waste, Purex decladding waste
PFeCN	Ferrocyanide sludge produced by in-plant scavenging of waste from uranium recovery
PFMMS	Dilute, non-complexed waste from shear/leach processing of NPR fuel
PFPGR	Dilute, non-complexed waste from retrieved PFP solids

PFPNT	Non-tru sludge from the PFP sol Z Plant
PFPPT	Dilute, non-complexed waste from the PFP (with TRUEX)
PFPSL	High-tru sludge from the PFP sol Z Plant
PL	PUREX low-level waste
PML89	Purex spent metathesis liquid after FY89
PMS89	Purex spent metathesis solids after FY89
PN	Purex neutralized cladding waste
PNF	Partial neutralized waste
PSL	Purex sludge sluiced during recovery of strontium
PSS	PUREX sludge supernatant
PSSF	Purex sludge supernatant feed
PT	Tru solids from 200W
PX86S	Dilute, non-complexed waste from Purex miscellaneous streams (NPR fuel) FY86
PXBAW	B Plant aging waste supernatant from retrieved aging waste
PXBSG	B Plant aging waste solids from retrieved aging waste
PXFTF	Dilute, non-complexed waste from Purex miscellaneous streams (FFTF)
PXLOW	Purex low level waste
PXMET	Purex dilute, non-complexed decladding: spent metathesis
PXMSC	Dilute, non-complexed waste from Purex miscellaneous streams (NPR fuel)
PXNAW	Aging waste from Purex high level waste

R	REDOX waste
RESL	Residual evaporator liquor
RIX	REDOX ion exchange waste
RSN	REDOX supernatant
RSS	Redox sludge supernatant
RTX	Redox ion exchange
SIX	PUREX ion exchange waste
SL	Sludge
SL3SY	Double shell slurry from end of FY80, 103SY inventory
SRR	Waste sent to B-Plant for strontium recovery
SRS	Strontium sludge
SRS	Strontium recovery supernatant
SSW	Strontium semiworks waste
SU	Supernatant
SWLIQ	Dilute, non-complexed waste from east area single shell tanks
SWLQW	Dilute, non-complexed waste from west area single shell tanks
TBP	Tri-Butyl Phosphate
TCO	Dilute non-complexed waste from terminal cleanout
TFeCN	Ferrocyanide sludge produced by in-tank or in-farm scavenging
TH	Thoria HLW or cladding waste
THL	Thoria low level waste

TL	Terminal liquor
TPLAL	Dilute, non-complexed waste from T Plant
TPLAN	Dilute, non-complexed waste from T Plant
TPLAS	Sludge from T Plant operations
U1U2	Dilute, non-complexed waste from U1/U2 groundwater pumping
Z	Z-Plant waste
ZAW	Purex waste stream from zirconium clad fuel
ZHIGH	Dilute, non-complexed waste from the PFP (without Truex)
ZLAB	Dilute, non-complexed waste from the PFP laboratories
ZLOW	Dilute, non-complexed waste from Pre-FY85 Z Plant operations
ZPRFL	Dilute, non-complexed waste from PRF processing
ZPRFS	PFP Tru solids from PRF processing
ZRMCL	Dilute, non-complexed waste from PFP RMC processing
ZRMCS	PFP Tru solids from PFP RMC processing

A. LANL Defined Wastes

LANL DEFINED WASTE LIST

A1 SLTCK	Saltcake waste generated from the 242-A evaporator-crystallizer from 1977 until 1980.
A2 SLTSLRY	Salt slurry waste generated from the 242-A evaporator-crystallizer from 1981 until 1994.
AR	"Washed" PUREX sludge from the AR vault.
B SLTCK	Saltcake waste generated from the 242-B evaporator from 1951 until 1955.
BY SLTCK	Saltcake waste generated from in-tank solidification units 1 and 2 between 1965 and 1974.
CWP2	Cladding waste-PUREX 2???
DE	Diatomaceous earth.
P1	PUREX high-level waste generated between 1955 and 1962.
P2	PUREX high-level waste generated between 1963 and 1967.
PFeCN1	Ferrocyanide sludge generated from in-plant scavenging of waste from uranium recovery.
PFeCN2	Same as PFeCN1, except used 0.0025 M ferrocyanide.
R SLTCK	Salt cake waste from the REDOX concentrator.
R1	REDOX waste generated between 1952 and 1957.
R2	REDOX waste generated between 1958 and 1966.

S1 SLTCK	Saltcake waste generated from the 242-S evaporator/crystallizer from 1973 until 1976.
S2 SLTSLRY	Salt slurry waste generated from the 242-S evaporator-crystallizer from 1977 until 1980.
T1 SLTCK	Saltcake waste generated from the 242-T evaporator from 1951 until 1955.
T2 SLTCK	Saltcake waste generated from the 242-T evaporator from 1965 until 1955.
UNKNOWN	Unkown waste type.
UR	Uranium recovery waste (also known as tributyl phosphate (TBP) waste).

FACILITIES

A Plant (PUREX)	The facility at Hanford which contains the latest solvent extraction process for recovery of both plutonium and uranium.
B Plant (222-B)	One of the three original bismuth-phosphate processing facilities. Later converted to a waste fractionation plant.
C Plant (222-C)	Initially a pilot plant for Redox, later a pilot plant for Purex and B-Plant waste partitioning.
S Plant (REDOX)	The facility at Hanford which contains the original extraction process for recovery of both plutonium and uranium.
T Plant (222-T)	One of the three original bismuth-phosphate processing facilities. Later converted to a decontamination facility.
U Plant (222-U)	One of the three original bismuth-phosphate processing facilities. Later converted to a uranium recovery plant.
PFP (Z Plant)	Plutonium Finishing Plant. The final operations for production of plutonium products are carried out in this facility.
242-A	A forced circulation vacuum evaporation system.
242-B	An evaporator that operates at atmospheric pressure. Also referred to as an open air type evaporator.
242-S	A forced circulation vacuum evaporation system.
242-T	An evaporator that operates at atmospheric pressure. Also referred to as an open air type evaporator.

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•••

ANDERSON 1990
WASTE TYPES

R:

R: X:
20: 20:

10/27/79
10/27/79
10/27/79

PRIMARY
ADDITIONS

R:

WTP:

FLX
X

DC

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO FNUCLE
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READINGS: PHOTO
 (LIQUID), FIC/PHOTO (SOLIDS)
 WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-355
 RHO-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

EB: EVAPORATOR BOTTOMS
 NCPLX: NON-COMPLEXED WASTE
 PNF: PARTIAL NEUTRALIZED WASTE
 R: REDOX WASTE
 TL: TERMINAL LIQUOR
 RIX: REDOX ION EXCHANGE WASTE
 CPLX: COMPLEX WASTE
 RESD: RESIDUAL EVAPORATOR LIQUOR
 DC: DILUTE COMPLEXED WASTE
 WTR: WASTE WATER

LEGEND

□ — □ — □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

SX TANK FARM
CASCADE

NOTE:
 CONNECTED TO THE
 241-SX SLUDGE
 COOLER.

CAPACITY
(GALLONS)

1,041,500
 —
 975,500
 —
 909,500
 —
 843,500
 —
 777,500
 —
 711,500
 —
 645,500
 —
 579,500
 —
 513,500
 —
 447,500
 —
 381,500
 —
 315,500
 —
 249,500
 —
 183,500
 —
 117,500
 —
 51,500

T=140°F (10/93)

SLRVICL (80)

PHOTOS (81)
 PHOTO (2/82), LEVEL ADJUSTMENT (4/82)

PARTIALLY ISOLATED (6/85)

PHOTO (2/87)

PHOTO (3/89)

pH 13.3

SUPERNATANT 1 K GAL
 S2 SLTSLRY 52 K GAL
 UNKNOWN 71 K GAL
 R1 332 K GAL

See glossary for abbreviations and definitions

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-101 SINGLE-SHELL TANK
 LEVEL HISTORY 1952 TO 1993
 SOUND/NON-STABILIZED TANK
 WATCH LIST: HYDROGEN

SIZE: 8.00 NO. 1000 NO. DATE
 B1 241 ES-TKS-E79 6/94
 SCALE: NONE JOB NO. SHEET 1 OF 1

PRIMARY
ADDITIONS

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READINGS: PHOTO
 (LIQUID), MANUAL TAPE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RHO-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

EB: EVAPORATOR BOTTOMS
 PNF: PARTIAL NEUTRALIZED WASTE
 R: REDOX WASTE
 RIX: REDOX ION EXCHANGE WASTE
 DSSF: DOUBLE-SHELL SLURRY FEED
 RESD: RESIDUAL EVAPORATOR LIQUOR
 WTR: WASTE WATER

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

SX TANK FARM
 CASCADE

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-102 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 SOUND/NON-STABILIZED TANK
 WATCH LIST: HYDROGEN

SIZE	BLOS NO.	DWG NO.	DATE
B	241	ES-TKS-E80	6/94
SCALE	NOTE	JOB NO.	SHEET 1 OF 1

ANDERSON
WASTE TYPES

TO:

CA:
OWN:
R:

EG:
EVAP:
FESD:

WTP:

WSTRS
WASTE TYPES

LEVEL IN
FEET
LEVEL IN
INCHES

32' 384"
30' 360"
28' 336"
26' 312"
24' 288"
22' 264"
20' 240"
18' 216"
16' 192"
14' 168"
12' 144"
10' 120"
8' 96"
6' 72"
4' 48"
2' 24"
0' 0"

CASCADE
OVERFLOW
TO CRIB
~373"

NOTE:
TANKS CONNECTED TO
THE 241-SX SLUDGE
COOLER.

RECEIVING SALT WASTE

LIQUID
LEVEL

TO 101-U

FROM 113-SX

TO 102-SX
FROM 114-SX

TO 102-SX

TO 101-TX

FROM 111-SX

TO 101-TX, FROM 110-SX

FROM 105-SX
FROM 108-SX, TO 101-TY

PHOTO (5/71)
FROM 103-BX,
101-BX

TO 104-BX
pH 11.8

pH 13.1

TO 102-S
PHOTOS (75-78)
pH 14.0

242-S BOTTOMS
& RECYCLE
LEVEL ADJUSTMENT (9/78),
PHOTOS (80)
INACTIVE (78)

SOLIDS
LEVEL

YEARS

EF
FLX:

NOTES:

CONSTRUCTED 1953-1954
NOMINAL CAPACITY: 1,000,000 GAL
DISH BOTTOM, NO KNUCKLE
75 FOOT DIAMETER TANK
SURFACE LEVEL READING: FIC (LIQUIDS)
SLUDGE MEASUREMENT DEVICE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
WHC REPORT WHC-EP-0182-(MONTHLY)
WHC REPORT WHC-MR-0132
WHC REPORT SD-WM-TI-355
RHO-CD-0014-(MONTHLY)

DWG. H-2-39511
DWG. H-2-39510
DWG. H-2-39517

NCPLX: NON-COMPLEXED WASTE
EB: EVAPORATOR BOTTOMS
CW: COATING WASTE
PNF: PARTIAL NEUTRALIZED WASTE
R: REDOX WASTE
OWW: ORGANIC WASH WASTE
DSSF: DOUBLE-SHELL SLURRY FEED
EVAP: EVAPORATOR FEED
RESID: RESIDUAL EVAPORATOR LIQUOR
WTR: WASTE WATER

LEGEND

□ — □ — □ LIQUID OBSERVATION
WELL (LOW)
— LIQUID LEVEL
- - - LIQUID LEVEL BEST
ENGINEERING JUDGEMENT
/// SOLIDS LEVEL
/// SOLIDS LEVEL BEST
ENGINEERING JUDGEMENT

**SX TANK FARM
CASCADE**

U.S. DEPARTMENT OF ENERGY
RICHLAND FIELD OFFICE
ICF KAISER HANFORD

241-SX-103 SINGLE-SHELL TANK
LEVEL HISTORY 1954 TO 1993
SOUND/NON-STABILIZED TANK
WATCH LIST: HYDROGEN

SIZE	BLOCK NO.	DWG NO.	DATE
B	241	ES-TKS-E81	6/94
SCALE	SCALE	JOB NO.	SHEET 1 OF 1

ANDERSON 1990
WASTE TYPES

R:

WTR:

PRIMARY
ADDITIONS

SSSF

NOTES:

CONSTRUCTED 1953-1954
NOMINAL CAPACITY: 1,000,000 GAL
DISH BOTTOM, NO KNUCKLE,
75 FOOT DIAMETER TANK
SURFACE LEVEL READINGS, FIC (LIQUIDS),
SLUDGE MEASUREMENT DEVICE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
WHC REPORT WHC-EP-0182 (MONTHLY)
WHC REPORT WHC-MR-0132
WHC REPORT SD-WM-TI-356
P40-CD-0014 (MONTHLY)

DWG. H-2-39511
DWG. H-2-39510
DWG. H-2-39517

EB: EVAPORATOR BOTTOMS
PNF: PARTIAL NEUTRALIZED WASTE
R: REDOX WASTE
RIX: REDOX ION EXCHANGE WASTE
DSSF: DOUBLE-SHELL SLURRY FEED
RESS: RESIDUAL EVAPORATOR LIQUOR
WTR: WASTE WATER

LEGEND

□ □ □ LIQUID OBSERVATION
WELL (LOW)
— LIQUID LEVEL
- - - LIQUID LEVEL BEST
ENGINEERING JUDGEMENT
/// SOLIDS LEVEL
/// SOLIDS LEVEL BEST
ENGINEERING JUDGEMENT

SX TANK FARM
CASCADE

U.S. DEPARTMENT OF ENERGY
RICHLAND FIELD OFFICE
ICF KAISER HANFORD

241-SX-104 SINGLE-SHELL TANK
LEVEL HISTORY 1954 TO 1993
ASSUMED LEAKER/NON-STABILIZED
WATCH LIST: HYDROGEN

SIZE	BLOCK NO	DWG NO	DATE
B	241	ES-TKS-E82	6/94
SCALE	AS SHOWN	JOB NO	REVISION 1 OF 1

ANDERSON 1990
WASTE TYPES

R:

R:
TLO:
EB:

200
1960

200
1960

200
1960

PRIMARY
ADDITIONS

R:

WTR:
RSLTCK

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE,
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO
 (LIQUIDS), FIC (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-556
 RHC-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

EB: EVAPORATOR BOTTOMS
 HLO: HANFORD LABORATORY OPERATIONS WASTE
 PNF: PARTIAL NEUTRALIZED WASTE
 R: REDOX WASTE
 RIX: REDOX ION EXCHANGE WASTE
 DSSF: DOUBLE-SHELL SLURRY FEED
 RESO: RESIDUAL EVAPORATOR LIQUOR
 WTR: WASTE WATER
 RSLTCK: REDOX SALTCAKE WASTE

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

SX TANK FARM
CASCADE

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-105 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 SOUND/NON-STABILIZED TANK
 WATCH LIST: HYDROGEN

SIZE	BLOG NO	DWG NO	DATE
B	241	ES-TKS-E83	6/94
SCALE	NOTE	LOG NO	SHEET 1 OF 1

ANDERSON 1990
WASTE TYPES

WTR:

PRIMARY
ADDITONS

NOTE:
CONNECTED TO THE 241-SX
SLUDGE COOLER IN 4/76.

LEVEL IN
FEET
LEVEL IN
INCHES

32' 384"
30' 360"
28' 336"
26' 312"
24' 288"
22' 264"
20' 240"
18' 216"
16' 192"
14' 168"
12' 144"
10' 120"
8' 96"
6' 72"
4' 48"
2' 24"
0' 0"

CASCADE
OVERFLOW
TO CRIB
~373"

CONDENSATE

TO 107-SX, 108-SX & 114-SX
TO 108-SX, 111-SX, 114-SX, 115-SX & 106-SX

TO 202-S DISSOLVES

LIQUID
LEVEL

RECEIVED BNW WASTE

FROM 105-SX,
TO 114-SX

TO 102-S

pH 11.3, PHOTO (3/75)
pH 13.6, 13.7

FROM 101-C

PHOTO (3/78)

PHOTO (5/79)

PHOTOS (77)
TRANSFERS, pH 14.0, 12.6
LEVEL ADJ (12/79)
pH 13.2 PHOTO (10/80), pH 13.3

YEARS

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE
 75 FOOT DIAMETER TANK
 SURFACE LEVEL FEADINGS
 FIC (LIQUIDS), PHOTO SLUDGE
 MEASUREMENT, DEVICE (SOLIDS)
 WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RHO-CD-0014-(MONTHLY)
 DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

DRILL: PLANT HIGH-LEVEL WASTE
 DRILL: PLANT LOW-LEVEL WASTE
 CCNW: BATTELLE LAB WASTE
 CCPLX: COMPLEXANT CONCENTRATE
 CPLX: COMPLEX WASTE
 CW: PUREX COATING WASTE
 DSSF: DOUBLE-SHELL SLURRY FEED
 EW: DECONTAMINATION WASTE
 FLO: EVAPORATOR BOTTOMS
 FLO: HANFORD LABORATORY OPERATIONS WASTE
 IX: ION EXCHANGE WASTE
 LW: LABORATORY WASTE
 N: N-REACTOR WASTE
 NCPLX: NON-COMPLEXED WASTE
 QWW: ORGANIC WASH WASTE
 L: PUREX LOW-LEVEL WASTE
 NF: PARTIAL NEUTRALIZED WASTE
 SS: PUREX SLUDGE SUPERNATANT
 REDOX: REDOX WASTE
 RESD: RESIDUAL EVAPORATOR LIQUOR
 RIX: REDOX ION EXCHANGE WASTE
 TBP: TRI-BUTYL PHOSPHATE
 WTR: WASTE WATER
 NIT: HNO₃/KMnO₄ TREATMENT SOLUTION

LEGEND

□ □ □ LIQUID OBSERVATION
 — WELL (LOW)
 — LIQUID LEVEL
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 / / / / / ENGINEERING JUDGEMENT

SX TANK FARM
CASCADE U.S. DEPARTMENT OF ENERGY
RICHLAND FIELD OFFICE
ICF KAISER HANFORD

241-SX-106 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 SOUND/NON-STABILIZED TANK
 WATCH LIST: HYDROGEN & ORGANICS

SIZE	BLDG NO	DWG NO	DATE
B	241	ES-TKS-E84	6/94
SCALE	NAME	PLC NO	REVISION
			1 OF 1

LEVEL ADJUSTMENT (10/80)

PHOTO (8/82)

PHOTO (6/83), LEAKING STEAM COIL

PARTIALLY ISOLATED (1985)

PHOTO (2/87)

PHOTO (4/88), LEAKING STEAM COIL

PHOTO (6/89)

T=112°F (10/93)

CAPACITY
(GALLONS)

— 1,041,500

— 975,500

— 909,500

— 843,500

— 777,500

— 711,500

— 645,500

— 579,500

— 513,500

— 447,500

— 331,500

— 315,500

— 249,500

— 183,500

— 117,500

— 51,500

— 0

DISH BOTTOM

DISH

TOP

SUPERNATANT 61 K GAL
 S2 SLTSLRY 390 K GAL
 S1 SLTCK 86 K GAL
 UNKNOWN 1 K GAL

See glossary for abbreviations and definitions

ANDERSON 1990
WASTE TYPES

R:

ACPLD:

PRIMARY
ADDITIONS

R:
WTR:

CWR:

LEVEL IN
FEET
LEVEL IN
INCHES

32' 384"
30' 360"
28' 336"
26' 312"
24' 288"
22' 264"
20' 240"
18' 216"
16' 192"
14' 168"
12' 144"
10' 120"
8' 96"
6' 72"
4' 48"
2' 24"
0' 0"

CASCADE
OVERFLOW
~ 373"

SELF CONCENTRATING

FROM 241-S
FROM 106-SX
FROM 240-S
LIQUID
LEVEL

WATER (COOLING)

TO 102-SX
TO 114-SX

ASSUMED LEAKER (64), (< 5,000 GAL.)
REMOVED FROM SERVICE (64)

TO 110-SX & 111-SX, PHOTOS (68)

AIR COOLING, PHOTOS (69)

PHOTOS (70)

PHOTO (11/71), LEVEL ADJUSTMENT (12/71)

PHOTO (11/72)

PHOTOS (74)

PHOTO (8/77)

PRIMARY STABILIZED (78)

PHOTO (11/79), ADMINISTRATIVELY INTERIM STABILIZED (10/79)

SOLIDS
LEVEL

YEARS

NOTE:
CONNECTED TO SX
41 BOTTLES OF NE
FROM 100-F AREA,
< 1 g ²³⁹Pu

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE,
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO (LIQUIDS),
 MANUAL TAPE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0162 (MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-355
 RHC-CD-0014 (MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

EDGE COOLER.
 STABILIZED WASTE
 CH WITH

CAPACITY
 (GALLONS)

— 1,041,500

— 975,500

— 909,500

— 843,500

— 777,500

— 711,500

— 645,500

— 579,500

— 513,500

— 447,500

— 381,500

— 315,500

— 249,500

— 183,500

— 117,500

— 51,500

T=170°F (10/95)

NCPLX: NON-COMPLEXED WASTE
 R: REDOX WASTE
 WTR: WASTE WATER
 CWR: CLADDING WASTE-REDOX

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 // // // SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

SX TANK FARM
 CASCADE

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-107 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 ASSUMED LEAKER/STABILIZED TANK
 WATCH LIST: N/A

SIZE	BLOG NO	DWG NO	DATE
B	241	ES-TKS-E85	6/94
SCALE	NOTE	LOG NO	SHEET 1 OF 1

LEVEL ADJUSTMENT (4/82), INTRUSION PREVENTION (9/82)
 PHOTO (8/83)

PHOTO (3/87)

UNKNOWN 3 K GAL
 24 K GAL
 77 K GAL
 See glossary for abbreviations and definitions

DIS- BOTTOM
 TOP

ANDERSON 1990
WASTE TYPES

NOPLX.

PRIMARY
ADDITIONS

R:
WTR:

LEVEL IN
FEET
LEVEL IN
INCHES

← CASCADE
OVERFLOW
~373"

32' 38.4"

30' 36.0"

28' 33.6"

26' 31.2"

24' 28.8"

22' 26.4"

20' 24.0"

18' 21.6"

16' 19.2"

14' 16.8"

12' 14.4"

10' 12.0"

8' 9.6"

6' 7.2"

4' 4.8"

2' 2.4"

0' 0"

1945

50

55

60

65

70

75

YEARS

SELF CONCENTRATING

FROM 106-SX

FROM 106-SX
PH > 14.0

ASSUMED LEAKER (62), (2,400 GAL TO 35,000 GAL)
REMOVED FROM SERVICE (62)

TO 103-SX

TO 114-SX, FROM 105-SX

TO 103-SX

LIQUID
LEVEL

PHOTO (9/67)
PHOTOS (68)

AIR COOLED, PHOTOS (69)
PHOTOS (70)
PHOTOS (71)
PHOTO (4/72)

PHOTO (2/74), LEVEL ADJUSTMENT (4/74)

PHOTO (4/76)

PHOTO (7/77)

PRIMARY STABILIZED (78)

ADMINISTRATIVELY INTERIM STABILIZED (8/79)

NOTE:
TANK HOOKED TO

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DIS- BOTTOM, NO KNUCKLE,
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO (LIQUIDS),
 MANUAL TAPE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RPO-SD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

X SLUDGE COOLER

CAPACITY
 (GALLONS)

— 1,041,500

—

— 975,500

—

— 909,500

—

— 843,500

—

— 777,500

—

— 711,500

—

— 645,500

—

— 579,500

—

— 513,500

—

— 447,500

—

— 381,500

—

— 315,500

—

— 249,500

—

— 183,500

—

— 117,500

—

— 51,500

—

— 0

—

— DIS- BOTTOM

R: REDOX WASTE
 NCPLY: NON-COMPLEXED WASTE
 WTR: WASTE WATER

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LCW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

SX TANK FARM CASCADE

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER MANAGED

241-SX-108 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 ASSUMED LEAKER/STABILIZED TANK
 WATCH LIST: N/A

SIZE	BLOG NO	DWG NO	DATE
3	241	ES-TKS-E86	6/94
SCALE	1" = 10'	1" = 10'	1 OF 1

ANDERSON 1990
WASTE TYPES

1.

NOPLA

PRIMARY
ADDITIONS

WTR.

LEVEL IN
FEET
LEVEL IN
INCHES

32' 384"

30' 360"

28' 336"

26' 312"

24' 288"

22' 264"

20' 240"

18' 216"

16' 192"

14' 168"

12' 144"

10' 120"

8' 96"

6' 72"

4' 48"

2' 24"

0' 0"

CASCADE
OVERFLOW
~373"

RECEIVING SALT WASTE

SELF-CONCENTRATING
PUMPED OUT

LIQUID
LEVEL

TO 110-SX

FROM 102-SX & 105-SX

REMOVED FROM SERVICE (65), ASSUMED LEAK (65)
($\leq$ 10,000 GAL)

TO 105-SX, PHOTOS (69)

LEVEL ADJUSTMENT (10/73)

AIR COOLED

SOLIDS
LEVEL

NOTE:
TANKS SX-1
VENT THROU

1945

50

55

60

YEARS

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE,
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO
 (LIQUIDS), MANUAL (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RPO-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

NCPLX: NON-COMPLEXED WASTE
 R: FEDCOX WASTE
 WTR: WASTE WATER

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

**SX TANK FARM
 CASCADE**

U.S. DEPARTMENT OF ENERGY			
RICHLAND FIELD OFFICE ICF KAISER HANFORD			
241-SX-109 SINGLE-SHELL TANK LEVEL HISTORY 1954 TO 1993 ASSUMED LEAKER/STABILIZED TANK WATCH LIST: HYDROGEN			
SIZE	BLOG NO.	DWG NO.	DATE
B	241	ES-TKS-E87	6/94
SCALE	1"=10'	LOG NO.	SHEET 1 OF 1

THRU SX-106
 SX-109

PHOTO (3/81), ADMINISTRATIVE
 LEVEL ADJUSTMENT (4/82), INTRUSION PREVENTION (9/82)

STABILIZED (84)

PHOTO (5/86)

TRCE 2 T=147°F (10/93), TRCE 8 T=157°F (10/93), SOLIDS VOLUME UPDATE (10/93)

**CAPACITY
 (GALLONS)**

— 1,041,500
 —
 — 975,500
 —
 — 909,500
 —
 — 843,500
 —
 — 777,500
 —
 — 711,500
 —
 — 645,500
 —
 — 579,500
 —
 — 513,500
 —
 — 447,500
 —
 — 381,500
 —
 — 315,500
 —
 — 249,500
 —
 — 183,500
 —
 — 117,500
 —
 — 51,500
 —
 — 0

UNKNOWN 145 K GAL
 R2 16 K GAL
 R1 89 K GAL

See glossary for abbreviations and definitions

ANDERSON 1290
WASTE TYPES

PRIMARY
ADDITIONS

R:

WTR:

NOTE:

TANK CONTAINS 16 BOTTLES OF
ENRICHED URANIUM AND PLUTONIUM
FROM ARGONNE NATIONAL LAB
CONNECTED TO 241-SX SLUDGE COOLER.

LEVEL IN
FEET
LEVEL IN
INCHES

32' 384"
30' 360"
28' 336"
26' 312"
24' 288"
22' 264"
20' 240"
18' 216"
16' 192"
14' 168"
12' 144"
10' 120"
8' 96"
6' 72"
4' 48"
2' 24"
0' 0"

← CASCADE
OVERFLOW
~373"

T=212°F
SELF-CONCENTRATING
LIQUID LEVEL

FROM 112-SX & 106-SX

FROM 102-SX

TO 103-SX
FROM 202-S

FROM 107-SX

FROM 112-SX

TO 102-SX
FROM 105-SX
pH >14.0

PHOTO (6/74)
TO 110-S
TO 102-SX,

FROM 103-B, 103-BX & 105-BX

LEVEL ADJUSTMENT (10/76), PHOTOS (76), ASSUMED LEAKER
FROM 103-BX, 103-B, INACTIVE (76)

REMOVED FROM SERVICE (76), QUESTIONABLE INTEGRITY (76)

TO 102-SX, PHOTO (7/77), AIR COOLED
PRIMARY STABILIZED (78)

ADMINISTRATIVELY INTERIM STABILIZED (8/79), PHOTO (11/79)

SOLIDS
LEVEL

YEARS

1945 50 55 60 65 70 75 80

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE,
 15 FOOT DIAMETER TANK
 SURFACE LEVEL READING: MANUAL (LIQUIDS)
 PHOTO AND SLUDGE MEASUREMENT DEVICE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RHO-CD-0014-(MONTHLY)

DWG. H-2-36511
 DWG. H-2-36510
 DWG. H-2-36517

BL: B-PLANT LOW-LEVEL WASTE
 BDNW: BATTLE LAB WASTE
 ED: EVAPORATOR BOTTOMS
 IX: ION EXCHANGE WASTE
 R: REDOX WASTE
 RIX: REDOX ION EXCHANGE WASTE
 224: 224-U WASTE
 NCPLX: NON-COMPLEXED WASTE
 WTR: WASTE WATER

CAPACITY
 (GALLONS)

— 1,041,500

— 975,500

— 909,500

— 843,500

— 777,500

— 711,500

— 645,500

— 579,500

— 513,500

— 447,500

— 381,500

— 315,500

— 249,500

— 183,500

— 117,500

— 51,500

TREE 2 T=174°F (10/93), TREE 8 T=170°F (10/93)

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 // // // SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

**SX TANK FARM
 CASCADE**

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-110 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 ASSUMED LEAKER/STABILIZED TANK
 WATCH LIST: N/A

SIZE: B, LOG NO: 241, DWG NO: ES-TKS-E88, DATE: 6/94
 SCALE: 1"=10', JOB NO: , SHEET: 1 OF 1

PHOTO (6/83)
 STABILIZED (84)
 INTRUSION PREVENTION (6/85)
 PHOTO (2/87)

20' KNUCKLE
 30 K GAL
 32 K GAL
 See glossary for abbreviations and definitions

DIS- BOTTOM

ANDERSON 1990
WASTE TYPES

PRIMARY
ADDITIONS

WTR:

NOTES:

CONSTRUCTED 1953-1954
NOMINAL CAPACITY: 1,000,000 GAL
DISH BOTTOM, NO KNUCKLE
75 FOOT DIAMETER TANK
SURFACE LEVEL READING: MANUAL
TAPE (LIQUIDS), PHOTO, SLUDGE
MEASURING DEVICE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
WHC REPORT WHC-EP-0182-(MONTHLY)
WHC REPORT WHC-MR-0132
WHC REPORT SD-WM-TI-355
RHO-CD-0014-(MONTHLY)

DWG. H-2-39511
DWG. H-2-39510
DWG. H-2-39517

EB: EVAPORATOR BOTTOMS
R: REDOX WASTE
RIX: REDOX ION EXCHANGE WASTE
NOPLX. NON-COMPLEXED WASTE
WTR: WASTE WATER

LEGEND

□ □ □ LIQUID OBSERVATION
WELL (LOW)
— LIQUID LEVEL
- - - LIQUID LEVEL BEST
ENGINEERING JUDGEMENT
/// SOLIDS LEVEL
/// SOLIDS LEVEL BEST
ENGINEERING JUDGEMENT

SX TANK FARM CASCADE

U.S. DEPARTMENT OF ENERGY
RICHLAND FIELD OFFICE
ICF KAISER HANFORD

241-SX-111 SINGLE-SHELL TANK
LEVEL HISTORY 1954 TO 1993
ASSUMED LEAKER/STABILIZED TANK
WATCH LIST: N/A

SIZE	BLOG NO	DWG NO	DATE
B	241	ES-TKS-E89	6/84
SCALE	NOTE	FILE NO	SHEET 1 OF 1

CONNECTED TO SX SLUDGE
LEAKER

CAPACITY
(GALLONS)

— 1,041,500

— 975,500

— 909,500

— 843,500

— 777,500

— 711,500

— 645,500

— 579,500

— 513,500

— 447,500

— 381,500

— 315,500

— 249,500

— 183,500

— 117,500

— 51,500

— 0

DISH BOTTOM

PHOTO (10/82), INTRUSION PREVENTION (12/82)

STABILIZED (84)

PHOTO (3/87)

T=190°F (10/93), T=162°F (10/93)

UNKNOWN 41 K GAL
R2 41 K GAL
R1 43 K GAL

See necessary for abbreviations and definitions

0 35 90 95

DISH
BOTTOM

ANDERSON 1990
WASTE TYPES

R:

NOPLY

PRIMARY
ADDITIONS

R:

WTR.

LEVEL IN
FEET
LEVEL IN
INCHES

CASCADE
OVERFLOW
~373"

NOTE:
CONNECTED

32' 384"
30' 360"
28' 336"
26' 312"
24' 288"
22' 264"
20' 240"
18' 216"
16' 192"
14' 168"
12' 144"
10' 120"
8' 96"
6' 72"
4' 48"
2' 24"
0' 0"

SELF CONCENTRATING

TO 111-SX

TO 110-SX

FROM 102-SX

TO 102-SX
FROM 202-S

FROM 107-SX
TO 110-SX, 111-SX & 114-SX, ASSUMED LEAKER (69), (30,000 GAL)
REMOVED FROM SERVICE (69), PHOTO (1/69)

PHOTO (9/71)

PHOTO (5/74), LEVEL ADJUSTMENT (5/74)

PHOTO (5/75)

STABILIZED PHASE I, AIR COOLED
PRIMARY STABILIZED (78)
ADMINISTRATIVELY INTERIM STABILIZED (7/79)

YEARS

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO
 (LIQUIDS), MANUAL TAPE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RHO-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

R: REDOX WASTE
 NCPLX: NON-COMPLEXED WASTE
 WTR: WASTE WATER

SX SLUDGE COOLER

CAPACITY
(GALLONS)

- 1,041,500

- 975,500

- 909,500

- 843,500

- 777,500

- 711,500

- 645,500

- 579,500

- 513,500

- 447,500

- 381,500

- 315,500

- 249,500

- 183,500

- 117,500

- 51,500

- 0

TREE 2 T=153°F (10/93), TREE 8 T=160°F (10/93)

LEGEND LIQUID OBSERVATION
WELL (LOW)

LIQUID LEVEL

LIQUID LEVEL BEST
ENGINEERING JUDGEMENT

SOLIDS LEVEL

SOLIDS LEVEL BEST
ENGINEERING JUDGEMENTSX TANK FARM
CASCADE

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-112 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 ASSUMED LEAKER/STABILIZED TANK
 WATCH LIST: N/A

SIZE	FILE NO	DWG NO	DATE
B	241	ES-TKS-E90	6/94
SCALE	NOTE	DATE	1 OF 1

UNKNOWN 19 K GAL
 25 K GAL
 48 K GAL
 See glossary for abbreviations and definitions

DISH BOTTOM

ANDERSON 1990
WASTE TYPES

R

NCPLX

PRIMARY
ADDITIONS

R:

LEVEL IN
FEET
LEVEL IN
INCHES

32' 384"

30' 360"

28' 336"

26' 312"

24' 288"

22' 264"

20' 240"

18' 216"

16' 192"

14' 168"

12' 144"

10' 120"

8' 96"

6' 72"

4' 48"

2' 24"

0' 0"

CASCADE
OVERFLOW
2373

NOTE:
BOTTOM LIFTED TO 4 FT AND THEN
RETURNED TO ITS ORIGINAL POSITION.
CONNECTED TO SX SLUDGE COOLER

SELF-CONCENTRATING

LIQUID
LEVEL

TO 108-SX, TANK BULGED

ASSUMED LEAKER (62), (15,000 GAL), pH 13.6, REMOVED FROM SERVICE (62)

PHOTO (3/67)

PHOTO (12/69)

PHOTO (1/70)

LEVEL ADJUSTMENT (12/71)

ADDED 41 TONS OF DIATOMACEOUS EARTH, PHOTOS (72)

PHOTO (5/74)

PHOTO (4/76)

ADMINISTRATIVELY INTERIM STABILIZED (11/78)

SOLIDS
LEVEL

UNKNOWN
OF
R1
See glossary f.

YEARS

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 HIGH BOTTOM, NO KNUCKLE,
 30 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO (LIQUIDS),
 MANUAL TAPE (SOLIDS)

W-C REPORT WHC-EP-0347 SUPPLEMENT
 W-C REPORT WHC-EP-0182-(MONTHLY)
 W-C REPORT WHC-MR-0132
 W-C REPORT SD-WM-TI-356
 PHOTO-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

CAPACITY
 (GALLONS)

R: PEDOX WASTE
 NCPLX: NON-COMPLEXED WASTE

LEGEND

□ — □ — □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

SX TANK FARM
CASCADE

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-113 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 ASSUMED LEAKER/STABILIZED TANK
 WATCH LIST: N/A

SIZE	BLOG NO	DWG NO	DATE
B	241	ES-TKS-E91	6/94
SCALE	AS SHOWN	SHEET	1 OF 1

/58)

LEVEL ADJUSTMENT (4/82), INTRUSION PREVENTION (9/82)
 PHOTO (1/83)
 STABILIZED (84)

20 K GAL
 4 K GAL
 2 K GAL

abbreviations and definitions

PHOTO (3/88)

T=73°F (10/93)

DISH BOTTOM

0

DISH

ANDERSON 1990
WASTE TYPES

R:

WASTE
TYPE

RCPL:

PRIMARY
ADDITIONS

R:
WTR:

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE,
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO (LIQUIDS),
 MANUAL TAPE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0182-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RHO-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

EB: EVAPORATOR BOTTOMS
 R: REDOX WASTE
 RIX: REDOX ION EXCHANGE WASTE
 NCPLX: NON-COMPLEXED WASTE
 WTR: WASTE WATER

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

**SX TANK FARM
 CASCADE**

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-114 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 ASSUMED LEAKER/STABILIZED TANK
 WATCH LIST: N/A

SIZE: B	BLDG NO: 241	DWG NO: ES-TKS-E92	DATE: 6/94
SCALE: NONE	LOGS NO:	SHEET: 1	OF: 1

CONNECTED TO SX
 COOLER

PHOTO (4/82), LEVEL ADJUSTMENT (4/82), INTRUSION PREVENTION (9/82)
 STABILIZED (84)
 PHOTO (2/87)

UNKNOWN 133 K GAL
 37 K GAL
 11 K GAL
 See glossary for abbreviations and definitions

DISH BOTTOM
 DISH TOP

ANDERSON 1990
WASTE TYPES

R:

NOFLX

PRIMARY
ADDITIONS

R:
WTR:

NOTE:
CONNECTED TO SX S

LEVEL IN
FEET
LEVEL IN
INCHES

CASCADE
OVERFLOW
~ 373"

32' 384"
30' 360"
28' 336"
26' 312"
24' 288"
22' 264"
20' 240"
18' 216"
16' 192"
14' 168"
12' 144"
10' 120"
8' 96"
6' 72"
4' 48"
2' 24"
0' 0"

LIQUID
LEVEL

FROM 106-SX & 109-SX
FROM 102-SX
SELF CONCENTRATING
TO 202-S DISSOLVERS
pH 13.7, TO 105-SX,
TO 102-SX

ASSUMED LEAKER (65), (50,000 GAL), REMOVED FROM SERVICE (65)

TO 105-SX

PHOTO (12/69)

PHOTO (2/72), LEVEL ADJUSTMENT (3/72)

PHOTO (5/74)

AIR COOLED

PRIMARY STABILIZED (78), ADMINISTRATIVELY INTERIM STABILIZED (9/78)

T=117°F

SOLIDS
LEVEL

YEARS

NOTES:

CONSTRUCTED 1953-1954
 NOMINAL CAPACITY: 1,000,000 GAL
 DISH BOTTOM, NO KNUCKLE,
 75 FOOT DIAMETER TANK
 SURFACE LEVEL READING: PHOTO (LIQUIDS),
 MANUAL TAPE (SOLIDS)

WHC REPORT WHC-EP-0347 SUPPLEMENT
 WHC REPORT WHC-EP-0162-(MONTHLY)
 WHC REPORT WHC-MR-0132
 WHC REPORT SD-WM-TI-356
 RHO-CD-0014-(MONTHLY)

DWG. H-2-39511
 DWG. H-2-39510
 DWG. H-2-39517

GE COOLER

CAPACITY
(GALLONS)

R: REDOX WASTE
 NCPLX: NON-COMPLEXED WASTE
 WTR: WASTE WATER

LEGEND

□ □ □ LIQUID OBSERVATION
 WELL (LOW)
 — LIQUID LEVEL
 - - - LIQUID LEVEL BEST
 ENGINEERING JUDGEMENT
 // // // SOLIDS LEVEL
 / / / / / SOLIDS LEVEL BEST
 ENGINEERING JUDGEMENT

SX TANK FARM
CASCADE

PHOTO (10/81)
 LEVEL ADJUSTMENT (4/82), INTRUSION PREVENTION (12/82)

STABILIZED (84)

PHOTO (3/88)

NO THERMOCOUPLE JUNCTION BOX (12/91)

UNKNOWN 6 K GAL
 R1 6 K GAL
 See glossary for abbreviations and definitions

U.S. DEPARTMENT OF ENERGY
 RICHLAND FIELD OFFICE
 ICF KAISER HANFORD

241-SX-115 SINGLE-SHELL TANK
 LEVEL HISTORY 1954 TO 1993
 ASSUMED LEAKER/STABILIZED TANK
 WATCH LIST: N/A

SIZE	BLDG NO	DWG NO	DATE
B	241	ES-TKS-E93	6/94
SCALE	NONE	JOB NO	1 OF 1

**241-SX-101 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1954					
2	303	115	0	0	
3	1000	369	0	0	
4	1000	369	0	0	
1-1955	888	328	0	0	
2	653	243	0	0	
3	892	330	0	0	
4	785	291	0	0	
1-1956	696	258	0	0	
2	634	236	0	0	
3	594	221	0	0	
4	571	213	0	0	
1-1957	544	203	0	0	
2	516	193	0	0	
3	549	205	0	0	
4	521	195	0	0	
1-1958	510	191	0	0	
2	494	185	0	0	
3	494	185	0	0	
4	488	183	0	0	
1-1959	480	180	0	0	
2	484	181	0	0	
3	475	178	0	0	
4	475	178	0	0	
1-1960	459	172	0	0	
2	450	169	0	0	
3	447	168	0	0	
4	445	167	0	0	
1-1961					
2	439	165	0	0	
3					
4	442	166	0	0	
1-1962					
2	442	166	0	0	
3					
4	442	166	0	0	
1-1963					
2	442	166	0	0	
3					
4	447	168	0	0	
1-1964					
2	447	168	0	0	
3					
4	465	174	0	0	
1-1965					
2	464	174	447	168	

241-SX-101 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	464	174	447	168	
4	466	175	447	168	
1-1966	466	175	447	168	
2	466	175	447	168	
3	466	175	447	168	
4	466	175	447	168	
1-1967	466	175	447	168	
2	466	175	447	168	
3	466	175	447	168	
4	466	175	447	168	
1-1968	466	175	447	168	
2	465	174	447	168	
3	467	175	447	168	
4	467	175	447	168	
1-1969	469	176	447	168	
2	469	176	447	168	
3	470	176	464	174	
4	470	176	465	174	
1-1970	469	176	465	174	
2	468	175	465	174	
3	467	175	466	175	
4	467	175	466	175	
1-1971	466	175	466	175	
2	466	175	466	175	
3	466	175	466	175	
4	891	329	466	175	
1-1972	891	329	466	175	
2	915	338	466	175	
3	915	338	466	175	
4	915	338	466	175	
1-1973	903	334	466	175	
2	901	333	466	175	
3	916	338	466	175	
4	913	337	466	175	
1-1974	926	342	466	175	
2	923	341	466	175	
3	922	341	466	175	
4	923	341	466	175	
1-1975	926	342	466	175	
2	934	345	466	175	
3	934	345	466	175	
4	931	344	466	175	
1-1976	931	344	466	175	
2	931	344	466	175	
3	931	344	466	175	
4	931	344	466	175	

241-SX-101 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1977	934	345	466	175	
2	931	344	466	175	
3	931	344	466	175	
4	934	345	466	175	
1-1978	937	346	403	152	
2	934	345	403	152	
3	937	346	403	152	
4	937	346	403	152	
1-1979	937	346	403	152	
2	708	263	403	152	
3	887	328	403	152	
4	546	204	403	152	
1-1980	744	276	403	152	
2	803	297	403	152	
3	593	221	447	168	
4	471	177	455	171	
1-1981	471	177	455	171	
2	471	177	455	171	
3	471	177	455	171	
4	461	173	455	171	
1-1982	461	173	455	171	
2	456	171	455	171	
3	456	171	455	171	
4	456	171	455	171	
1-1983	456	171	455	171	
2	456	171	455	171	
3	456	171	455	171	
4	456	171	455	171	
1-1984	456	171	455	171	
2	456	171	455	171	
3	456	171	455	171	
4	456	171	455	171	
1-1985	456	171	455	171	
2	456	171	455	171	
3	456	171	455	171	
4	456	171	455	171	
1-1986	456	171	455	171	168
2	456	171	455	171	167
3	456	171	455	171	168
4	456	171	455	171	168
1-1987	456	171	455	171	167
2	456	171	455	171	
3	456	171	455	171	166
4	456	171	455	171	166
1-1988	456	171	455	171	166
2	456	171	455	171	166

241-SX-101 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	456	171	455	171	165
4	456	171	455	171	166
1-1989	456	171	455	171	165
2	456	171	455	171	169
3	456	171	455	171	166
4	456	171	455	171	167
1-1990	456	171	455	171	166
2	456	171	455	171	
3	456	171	455	171	166
4	456	171	455	171	165
1-1991	456	171	455	171	165
2	456	171	455	171	165
3	456	171	455	171	165
4	456	171	455	171	166
1-1992	456	171	455	171	
2	456	171	455	171	
3	456	171	455	171	
4	456	171	455	171	165
1-1993	456	171	455	171	165
2	456	171	455	171	165
3					165
4					164

**241-SX-102 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1954					
2	0	0	0	0	
3	303	115	0	0	
4	1000	369	0	0	
1-1955	1000	369	0	0	
2	980	362	0	0	
3	983	363	0	0	
4	983	363	0	0	
1-1956	983	363	0	0	
2	983	363	0	0	
3	980	362	0	0	
4	978	361	0	0	
1-1957	978	361	0	0	
2	978	361	0	0	
3	978	361	26	15	
4	978	361	26	15	
1-1958	986	364	26	15	
2	986	364			
3	989	365	26	15	
4	552	206	26	15	
1-1959	549	205	0	0	
2	546	204	0	0	
3	273	105	0	0	
4	271	104	0	0	
1-1960	267	102	0	0	
2	266	102	0	0	
3	265	102	0	0	
4	261	100	0	0	
1-1961					
2	612	228	0	0	
3					
4	645	240	0	0	
1-1962					
2	850	314	0	0	
3					
4	755	280	0	0	
1-1963					
2	791	293	0	0	
3					
4	140	56	0	0	
1-1964					
2	792	293	0	0	
3					
4	795	294	0	0	
1-1965					
2	805	298	84	36	

241-SX-102 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	805	298	84	36	
4	312	119	84	36	
1-1966	733	272	84	36	
2	744	276	84	36	
3	758	281	84	36	
4	758	281	84	36	
1-1967	758	281	84	36	
2	759	281	84	36	
3	761	282	84	36	
4	760	282	84	36	
1-1968	757	281	84	36	
2	754	279	84	36	
3	750	278	84	36	
4	744	276	84	36	
1-1969	739	274	84	36	
2	735	273	84	36	
3	733	272	46	22	
4	730	271	51	24	
1-1970	728	270	51	24	
2	726	269	51	24	
3	725	269	59	27	
4	723	268	59	27	
1-1971	720	267	59	27	
2	636	237	59	27	
3	862	319	59	27	
4	843	312	59	27	
1-1972	369	139	59	27	
2	908	335	59	27	
3	908	335	59	27	
4	908	335	59	27	
1-1973	912	337	59	27	
2	912	337	59	27	
3	927	342	59	27	
4	927	342	59	27	
1-1974	927	342	59	27	
2	956	353	59	27	
3	363	137	59	27	
4	609	227	117	48	
1-1975	978	361	150	60	
2	747	277	612	228	
3	967	357	612	228	
4	576	215	499	187	
1-1976	640	238	475	178	
2	827	306	475	178	
3	931	344	475	178	
4	851	315	491	184	

241-SX-102 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1977	975	360	497	186	
2	967	357	497	186	
3	961	355	497	186	
4	967	357	497	186	
1-1978	799	296	497	186	
2	799	296	497	186	
3	796	295	497	186	
4	794	294	497	186	
1-1979	796	295	497	186	
2	796	295	497	186	
3	865	320	497	186	
4	868	321	497	186	
1-1980	846	313	497	186	
2	849	314	497	186	
3	538	201	518	194	
4	538	201	518	194	
1-1981	538	201	518	194	
2	538	201	518	194	
3	538	201	518	194	
4	538	201	518	194	
1-1982	538	201	518	194	
2	543	203	543	203	
3	543	203	543	203	
4	543	203	543	203	
1-1983	543	203	543	203	
2	543	203	543	203	
3	543	203	543	203	
4	543	203	543	203	
1-1984	543	203	543	203	
2	543	203	543	203	
3	543	203	543	203	
4	543	203	543	203	
1-1985	543	203	543	203	
2	543	203	543	203	
3	543	203	543	203	
4	543	203	543	203	
1-1986	543	203	543	203	201
2	543	203	543	203	201
3	543	203	543	203	200
4	543	203	543	203	201
1-1987	543	203	543	203	199
2	543	203	543	203	
3	543	203	543	203	200
4	543	203	543	203	199
1-1988	543	203	543	203	199
2	543	203	543	203	200

**241-SX-102 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	543	203	543	203	199
4	543	203	543	203	198
1-1989	543	203	543	203	199
2	543	203	543	203	199
3	543	203	543	203	199
4	543	203	543	203	194
1-1990	543	203	543	203	197
2	543	203	543	203	
3	543	203	543	203	198
4	543	203	543	203	196
1-1991	543	203	543	203	197
2	543	203	543	203	197
3	543	203	543	203	195
4	543	203	543	203	197
1-1992	543	203	543	203	
2	543	203	543	203	
3	543	203	543	203	
4	543	203	543	203	197
1-1993	543	203	543	203	195
2					196
3					195
4					195

**241-SX-103 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1954					
2	0	0	0	0	
3	0	0	0	0	
4	637	237	0	0	
1-1955	827	306	0	0	
2	824	305	0	0	
3	943	348	0	0	
4	943	348	0	0	
1-1956	943	348	0	0	
2	943	348	0	0	
3	941	347	0	0	
4	941	347	0	0	
1-1957	941	347	0	0	
2	941	347	0	0	
3	941	347	10	9	
4	941	347	10	9	
1-1958	941	347	10	9	
2	450	169			
3	752	279			
4	697	259	10	9	
1-1959	664	247	0	0	
2	645	240	0	0	
3	625	233	0	0	
4	610	227	0	0	
1-1960	595	222	0	0	
2	590	220	0	0	
3	582	217	0	0	
4	580	216	0	0	
1-1961					
2	222	86	0	0	
3					
4	813	301	0	0	
1-1962					
2	740	274	0	0	
3					
4	731	271	0	0	
1-1963					
2	722	268	0	0	
3					
4	126	51	0	0	
1-1964					
2	658	245	0	0	
3					
4	660	245	0	0	
1-1965					
2	659	245	73	32	

**241-SX-103 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	668	248	73	32	
4	675	251	73	32	
1-1966	681	253	73	32	
2	692	257	73	32	
3	167	66	73	32	
4	505	189	73	32	
1-1967	530	198	73	32	
2	532	199	73	32	
3	536	200	73	32	
4	554	207	128	52	
1-1968	686	255	128	52	
2	685	254	127	51	
3	684	254	125	51	
4	700	260	126	51	
1-1969	681	253	125	51	
2	680	253	125	51	
3	678	252	125	51	
4	675	251	125	51	
1-1970	674	250	125	51	
2	671	249	125	51	
3	670	249	125	51	
4	669	249	125	51	
1-1971	292	111	125	51	
2	160	63	125	51	
3	946	349	125	51	
4	948	350	125	51	
1-1972	948	350	125	51	
2	948	350	125	51	
3	948	350	125	51	
4	948	350	125	51	
1-1973	920	340	125	51	
2	918	339	125	51	
3	930	343	125	51	
4	929	343	125	51	
1-1974	928	343	125	51	
2	927	342	125	51	
3	928	343	125	51	
4	928	343	79	34	
1-1975	293	112	112	46	
2	945	349	249	96	
3	961	355	249	96	
4	810	300	249	96	
1-1976	640	238	249	96	
2	912	337	249	96	
3	967	357	249	96	
4	656	244	249	96	

241-SX-103 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1977	981	362	623	232	
2	967	357	623	232	
3	961	355	623	232	
4	961	355	623	232	
1-1978	761	282	758	281	
2	758	281	758	281	
3	758	281	758	281	
4	758	281	758	281	
1-1979	758	281	758	281	
2	758	281	758	281	
3	758	281	758	281	
4	829	307	758	281	
1-1980	736	273	714	265	
2	743	275	714	265	
3	666	247	634	236	
4	666	247	634	236	
1-1981	666	247	634	236	
2	666	247	634	236	
3	666	247	634	236	
4	666	247	634	236	
1-1982	666	247	634	236	
2	667	248	635	236	
3	667	248	635	236	
4	667	248	635	236	
1-1983	667	248	635	236	
2	667	248	635	236	
3	667	248	635	236	
4	667	248	635	236	
1-1984	667	248	635	236	
2	667	248	635	236	
3	667	248	635	236	
4	667	248	635	236	
1-1985	667	248	635	236	
2	667	248	635	236	
3	667	248	635	236	
4	667	248	635	236	
1-1986	667	248	635	236	243
2	667	248	635	236	244
3	667	248	635	236	243
4	667	248	635	236	243
1-1987	667	248	635	236	242
2	667	248	635	236	
3	667	248	635	236	242
4	667	248	635	236	242
1-1988	667	248	635	236	241
2	667	248	635	236	242

**241-SX-103 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	667	248	635	236	241
4	667	248	635	236	241
1-1989	667	248	635	236	241
2	667	248	635	236	242
3	667	248	635	236	240
4	667	248	635	236	241
1-1990	667	248	635	236	240
2	667	248	635	236	
3	667	248	635	236	240
4	667	248	635	236	240
1-1991	667	248	635	236	240
2	667	248	635	236	240
3	652	242	651	242	240
4	652	242	651	242	240
1-1992	652	242	651	242	
2	652	242	651	242	
3	652	242	651	242	
4	652	242	651	242	239
1-1993	652	242	651	242	238
2	652	242	651	242	239
3					239
4					239
					238

**241-SX-104 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1954					
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
1-1955	507	190	0	0	
2	994	367	0	0	
3	960	354	0	0	
4	901	333	0	0	
1-1956	872	322	0	0	
2	899	332	0	0	
3	851	315	0	0	
4	832	308	0	0	
1-1957	792	293	0	0	
2	810	300	0	0	
3	821	304	0	0	
4	835	309	0	0	
1-1958	821	304	0	0	
2	816	302	0	0	
3	814	301	0	0	
4	794	294	0	0	
1-1959	786	291	0	0	
2	780	289	0	0	
3	769	285	0	0	
4	764	283	0	0	
1-1960	767	284	0	0	
2	765	283	0	0	
3	752	279	0	0	
4	749	278	0	0	
1-1961		5			
2	739	274	0	0	
3		5			
4	730	271	0	0	
1-1962		5			
2	726	269	0	0	
3		5			
4	726	269	0	0	
1-1963		5			
2	719	267	0	0	
3		5			
4	718	266	0	0	
1-1964		5			
2	713	265	0	0	
3		5			
4	719	267	0	0	
1-1965		5			
2	730	271	191	75	

**241-SX-104 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	737	273	191	75	
4	741	275	191	75	
1-1966	741	275	191	75	
2	750	278	191	75	
3	761	282	191	75	
4	774	287	191	75	
1-1967	780	289	191	75	
2	788	292	191	75	
3	794	294	191	75	
4	792	293	191	75	
1-1968	791	293	191	75	
2	789	292	191	75	
3	786	291			
4	784	290	191	75	
1-1969	781	289	191	75	
2	779	289	191	75	
3	777	288	164	65	
4	775	287	165	65	
1-1970	774	287	165	65	
2	772	286	165	65	
3	771	286	169	67	
4	769	285	169	67	
1-1971	766	284	169	67	
2	764	283	169	67	
3	269	103	169	67	
4	943	348	169	67	
1-1972	942	348	169	67	
2	942	348	169	67	
3	942	348	169	67	
4	942	348	169	67	
1-1973	924	341	169	67	
2	922	341	169	67	
3	939	347	169	67	
4	937	346	169	67	
1-1974	934	345	169	67	
2	931	344	169	67	
3	927	342	169	67	
4	926	342	139	56	
1-1975	923	341	169	67	
2	708	263	169	67	
3	917	339	282	108	
4	763	283	519	194	
1-1976	664	247	563	210	
2	681	253	563	210	
3	972	359	563	210	
4	758	281	563	210	

241-SX-104 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1977	772	286	673	250	
2	945	349	673	250	
3	953	352	807	299	
4	964	356	807	299	
1-1978	972	359	807	299	
2	970	358	807	299	
3	970	358	807	299	
4	967	357	807	299	
1-1979	972	359	807	299	
2	970	358	807	299	
3	917	339	807	299	
4	917	339	807	299	
1-1980	950	351	755	280	
2	958	354	755	280	
3	763	283	713	265	
4	763	283	713	265	
1-1981	763	283	713	265	
2	763	283	713	265	
3	763	283	713	265	
4	763	283	713	265	
1-1982	763	283	713	265	
2	763	283	713	265	
3	763	283	713	265	
4	763	283	713	265	
1-1983	763	283	713	265	
2	763	283	713	265	
3	763	283	713	265	
4	763	283	713	265	
1-1984	763	283	713	265	
2	752	279	752	279	
3	752	279	752	279	
4	752	279	752	279	
1-1985	752	279	752	279	
2	752	279	752	279	
3	752	279	752	279	
4	752	279	752	279	
1-1986	752	279	752	279	277
2	752	279	752	279	277
3	752	279	752	279	277
4	752	279	752	279	277
1-1987	752	279	752	279	276
2	752	279	752	279	
3	752	279	752	279	275
4	752	279	752	279	276
1-1988	752	279	752	279	277
2	752	279	752	279	276

241-SX-104 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	636	237	635	236	274
4	631	235	631	235	
1-1989	623	232	631	235	
2	615	229	615	229	
3	614	229	614	229	
4	614	229	614	229	220
1-1990	614	229	614	229	217
2	614	229	614	229	
3	614	229	614	229	217
4	614	229	614	229	216
1-1991	614	229	614	229	216
2	614	229	614	229	
3	614	229	614	229	215
4	614	229	614	229	
1-1992	614	229	614	229	
2	614	229	614	229	
3	614	229	614	229	
4	614	229	614	229	
1-1993	614	229	614	229	
2	614	229	614	229	
3					
4					

241-SX-105 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1954					
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
1-1955	0	0	0	0	
2	142	57	0	0	
3	963	355	0	0	
4	963	355	0	0	
1-1956	963	355	0	0	
2	963	355	0	0	
3	960	354	0	0	
4	960	354	0	0	
1-1957	952	351	0	0	
2	937	346	0	0	
3	931	344	15	11	
4	923	341	15	11	
1-1958	920	340	15	11	
2	920	340			
3	920	340	15	11	
4	920	340	15	11	
1-1959	920	340	0	0	
2	919	339	0	0	
3	916	338	0	0	
4	915	338	0	0	
1-1960	910	336	0	0	
2	911	337	0	0	
3	906	335	0	0	
4	908	335	0	0	
1-1961					
2	904	334			
3					
4	901	333	0	0	
1-1962					
2	898	332	0	0	
3					
4	340	129	0	0	
1-1963					
2	695	258	0	0	
3					
4	627	233	0	0	
1-1964					
2	708	263	0	0	
3					
4	796	295	0	0	
1-1965					
2	714	265	43	21	

**241-SX-105 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	662	246	43	21	
4	604	225	43	21	
1-1966	541	202	43	21	
2	480	180	43	21	
3	442	166	43	21	
4	412	155	43	21	
1-1967	428	161	43	21	
2	474	178	43	21	
3	450	169	43	21	
4	450	169	43	21	
1-1968	542	202	43	21	
2	629	234	55	25	
3	787	291	57	26	
4	878	325	57	26	
1-1969	735	273	59	27	
2	113	46	59	27	
3	301	115	58	26	
4	293	112	58	26	
1-1970	286	109	58	26	
2	279	107	68	30	
3	274	105	66	29	
4	267	102	66	29	
1-1971	262	101	66	29	
2	263	101	66	29	
3	909	336	66	29	
4	647	241	66	29	
1-1972	945	349	66	29	
2	940	347	66	29	
3	948	350	66	29	
4	946	349	66	29	
1-1973	938	346	66	29	
2	937	346	66	29	
3	945	349	66	29	
4	944	349	66	29	
1-1974	944	349	66	29	
2	942	348	66	29	
3	940	347	66	29	
4	937	346	37	19	
1-1975	934	345	73	32	
2	252	97	73	32	
3	956	353	263	101	
4	865	320	464	174	
1-1976	978	361	491	184	
2	744	276	491	184	
3	769	285	491	184	
4	972	359	480	180	

241-SX-105 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1977	978	361	739	274	
2	942	348	739	274	
3	961	355	739	274	
4	747	277	739	274	
1-1978	747	277	739	274	
2	747	277	739	274	
3	741	275	741	275	
4	744	276	741	275	
1-1979	744	276	741	275	
2	750	278	741	275	
3	750	278	741	275	
4	805	298	741	275	
1-1980	884	327	741	275	
2	884	327	741	275	
3	688	255	673	250	
4	688	255	673	250	
1-1981	688	255	673	250	
2	688	255	673	250	
3	688	255	673	250	
4	688	255	673	250	
1-1982	688	255	673	250	
2	683	254	683	254	
3	683	254	683	254	
4	683	254	683	254	
1-1983	683	254	683	254	
2	683	254	683	254	
3	683	254	683	254	
4	683	254	683	254	
1-1984	683	254	683	254	
2	683	254	683	254	
3	683	254	683	254	
4	683	254	683	254	
1-1985	683	254	683	254	
2	683	254	683	254	
3	683	254	683	254	
4	683	254	683	254	
1-1986	683	254	683	254	251
2	683	254	683	254	251
3	683	254	683	254	248
4	683	254	683	254	249
1-1987	683	254	683	254	249
2	683	254	683	254	
3	683	254	683	254	249
4	683	254	683	254	249
1-1988	683	254	683	254	248
2	683	254	683	254	249

241-SX-105 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	683	254	683	254	248
4	683	254	683	254	248
1-1989	683	254	683	254	
2	683	254	683	254	248
3	683	254	683	254	247
4	683	254	683	254	248
1-1990	683	254	683	254	247
2	683	254	683	254	
3	683	254	683	254	247
4	683	254	683	254	247
1-1991	683	254	683	254	247
2	683	254	683	254	246
3	683	254	683	254	245
4	683	254	683	254	246
1-1992	683	254	683	254	
2	683	254	683	254	
3	683	254	683	254	
4	683	254	683	254	244
1-1993	683	254	683	254	245
2	683	254	683	254	245
3					244
4					244

**241-SX-106 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

YEAR	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1954	0	0	0	0	
2	0	0	0	0	
3	18	12	0	0	
4	97	41	0	0	
1-1955	71	31	0	0	
2	142	57	0	0	
3	127	51	0	0	
4	187	73	0	0	
1-1956	351	133	0	0	
2	323	123	0	0	
3	417	157	0	0	
4	367	139	0	0	
1-1957	252	97	0	0	
2	103	43	0	0	
3	197	77	0	0	
4	315	120	0	0	
1-1958	238	92	0	0	
2	183	72	0	0	
3	95	40	0	0	
4	175	69	0	0	
1-1959	634	236	0	0	
2	206	80	0	0	
3	71	31	0	0	
4	130	53	0	0	
1-1960	150	60	0	0	
2	54	25	0	0	
3	54	25	0	0	
4	44	21	0	0	
1-1961					
2	321	122	0	0	
3					
4	150	60	0	0	
1-1962					
2	110	45	0	0	
3					
4	81	35	0	0	
1-1963					
2	279	107	0	0	
3					
4	297	113	0	0	
1-1964					
2	399	150	0	0	
3					
4	481	180	0	0	
1-1965					
2	447	168	0	0	

241-SX-106 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

YEAR	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	343	130	0	0	
4	461	173	0	0	
1-1966	516	193	0	0	
2	400	151	0	0	
3	357	135	0	0	
4	389	147	0	0	
1-1967	409	154	0	0	
2	213	83	0	0	
3	228	88	0	0	
4	224	87	0	0	
1-1968	172	68	0	0	
2	129	52	0	0	
3	165	65	0	0	
4	306	117	0	0	
1-1969	444	167	0	0	
2	399	150	0	0	
3	374	141	1	6	
4	369	139	1	6	
1-1970	363	137	1	6	
2	362	137	1	6	
3	373	141	1	6	
4	412	155	1	6	
1-1971	449	169	1	6	
2	493	185	1	6	
3	472	177	1	6	
4	340	129	1	6	
1-1972	937	346	1	6	
2	937	346	1	6	
3	907	335	1	6	
4	932	344	1	6	
1-1973	893	330	1	6	
2	919	339	1	6	
3	959	354	1	6	
4	936	346	1	6	
1-1974	963	355	1	6	
2	952	351	1	6	
3	966	357	1	6	
4	238	92	1	6	
1-1975	466	175	9	9	
2	854	316	9	9	
3	777	288	9	9	
4	219	85	26	15	
1-1976	43	21	26	15	
2	970	358	26	15	
3	453	170	26	15	
4	945	349	29	16	

**241-SX-106 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

YEAR	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
1-1977	945	349	373	141	
2	942	348	373	141	
3	948	350	373	141	
4	950	351	373	141	
1-1978	279	107	150	60	
2	150	60	150	60	
3	516	193	150	60	
4	205	80	87	37	
1-1979	816	302	87	37	
2	967	357	87	37	
3	967	357	87	37	
4	832	308	87	37	
1-1980	260	100	87	37	
2	671	249	87	37	
3	890	329	87	37	
4	477	179	477	179	
1-1981	477	179	477	179	
2	477	179	477	179	
3	477	179	477	179	
4	477	179	477	179	
1-1982	477	179	477	179	
2	477	179	477	179	
3	477	179	477	179	
4	477	179	477	179	
1-1983	477	179	477	179	
2	488	183	477	179	
3	509	190	477	179	
4	511	191	477	179	
1-1984	511	191	477	179	
2	511	191	477	179	
3	511	191	477	179	
4	511	191	477	179	
1-1985	511	191	477	179	
2	511	191	477	179	
3	511	191	477	179	
4	511	191	477	179	
1-1986	511	191	477	179	185
2	511	191	477	179	187
3	511	191	477	179	188
4	511	191	477	179	189
1-1987	511	191	477	179	192
2	511	191	477	179	
3	511	191	477	179	192
4	511	191	477	179	197
1-1988	538	201	477	179	201
2	538	201	477	179	199

241-SX-106 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

YEAR	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	LOW (in)
3	538	201	477	179	199
4	538	201	477	179	200
1-1989	538	201	477	179	
2	538	201	477	179	200
3	538	201	477	179	199
4	538	201	477	179	204
1-1990	538	201	477	179	204
2	538	201	477	179	
3	538	201	477	179	203
4	538	201	477	179	202
1-1991	538	201	477	179	204
2	538	201	477	179	205
3	538	201	477	179	204
4	538	201	477	179	204
1-1992	538	201	477	179	
2	538	201	477	179	
3	538	201	477	179	
4	538	201	477	179	200
1-1993	538	201	477	179	200
2					200
3					200
4					200

241-SX-107 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1955					
2					
3					
4					
1-1956					
2	548	205	0	0	
3	493	185	0	0	
4	399	150	0	0	
1-1957	324	123	0	0	
2	543	203	0	0	
3	612	228	0	0	
4	623	232	0	0	
1-1958	612	228	0	0	
2	640	238	0	0	
3	714	265	2	6	
4	656	244			
1-1959	634	236			
2	626	233			
3	620	231			
4	623	232			
1-1960	646	240			
2	645	240			
3	629	234			
4	626	233			
1-1961					
2	626	233			
3					
4	651	242			
1-1962					
2	648	241	0	0	
3					
4	332	126	0	0	
1-1963					
2	494	185	0	0	
3					
4	418	157	0	0	
1-1964					
2	495	185	0	0	
3					
4	517	193	0	0	
1-1965					
2	472	177	13	10	

**241-SX-107 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	472	177	13	10	
4	425	160	13	10	
1-1966	519	194	13	10	
2	491	184	13	10	
3	477	179	13	10	
4	461	173	13	10	
1-1967	447	168	13	10	
2	441	166	13	10	
3	491	184	13	10	
4	477	179	101	42	
1-1968	466	175	101	42	
2	473	177	98	41	
3	178	70	146	58	
4	147	59	147	59	
1-1969	136	55	136	55	
2	135	54	135	54	
3	135	54	135	54	
4	134	54	134	54	
1-1970	134	54	134	54	
2	131	53	131	53	
3	131	53	131	53	
4	131	53	131	53	
1-1971	131	53	131	53	
2	131	53	131	53	
3	131	53	131	53	
4	110	45	110	45	
1-1972	110	45	110	45	
2	110	45	110	45	
3	110	45	110	45	
4	110	45	110	45	
1-1973	110	45	110	45	
2	110	45	110	45	
3	110	45	110	45	
4	110	45	110	45	
1-1974	110	45	110	45	
2	110	45	110	45	
3	110	45	110	45	
4	109	45	109	45	
1-1975	109	45	109	45	
2	109	45	109	45	
3	109	45	109	45	
4	109	45	109	45	
1-1976	109	45	109	45	
2	109	45	109	45	
3	109	45	109	45	
4	109	45	109	45	

**241-SX-107 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	109	45	109	45	
2	109	45	109	45	
3	109	45	109	45	
4	109	45	109	45	
1-1978	109	45	109	45	
2	109	45	109	45	
3	109	45	109	45	
4	109	45	109	45	
1-1979	109	45	109	45	
2	109	45	109	45	
3	109	45	109	45	
4	109	45	109	45	
1-1980	109	45	109	45	
2	109	45	109	45	
3	109	45	109	45	
4	109	45	109	45	
1-1981	109	45	109	45	
2	109	45	109	45	
3	109	45	109	45	
4	109	45	109	45	
1-1982	109	45	109	45	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1983	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1984	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1985	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1986	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1987	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1988	104	43	104	43	
2	104	43	104	43	

241-SX-107 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	104	43	104	43	
4	104	43	104	43	
1-1989	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1990	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1991	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1992	104	43	104	43	
2	104	43	104	43	
3	104	43	104	43	
4	104	43	104	43	
1-1993	104	43	104	43	
2	104	43	104	43	
3					
4					

**241-SX-108 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1955					
2					
3					
4	564	210			
1-1956	466	175	0	0	
2	481	180	0	0	
3	527	197	0	0	
4	470	176	0	0	
1-1957	703	261	0	0	
2	574	214	0	0	
3	494	185	0	0	
4	623	232	0	0	
1-1958	541	202	0	0	
2	596	222	0	0	
3	593	221	3	6	
4	785	291			
1-1959	763	283			
2	754	279			
3	764	283			
4	722	268			
1-1960	717	266			
2	718	266			
3	739	274	0	0	
4	756	280	0	0	
1-1961					
2	728	270	0	0	
3					
4	700	260	0	0	
1-1962					
2	315	120	0	0	
3					
4	714	265	0	0	
1-1963					
2	524	196	0	0	
3					
4	633	235	0	0	
1-1964					
2	660	245	0	0	
3					
4	678	252	0	0	
1-1965					
2	637	237	16	11	

**241-SX-108 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	637	237	16	11	
4	653	243	16	11	
1-1966	653	243	16	11	
2	640	238	16	11	
3	626	233	16	11	
4	601	224	16	11	
1-1967	213	83	16	11	
2	216	84	16	11	
3	213	83	0	5	
4	211	82	120	49	
1-1968	130	53	120	49	
2	135	54	130	53	
3	126	51	126	51	
4	126	51	126	51	
1-1969	145	58	145	58	
2	143	57	143	57	
3	143	57	143	57	
4	142	57	142	57	
1-1970	142	57	142	57	
2	142	57	142	57	
3	142	57	142	57	
4	142	57	142	57	
1-1971	142	57	142	57	
2	142	57	142	57	
3	142	57	142	57	
4	142	57	142	57	
1-1972	142	57	142	57	
2	142	57	142	57	
3	142	57	142	57	
4	142	57	142	57	
1-1973	142	57	142	57	
2	142	57	142	57	
3	142	57	142	57	
4	142	57	142	57	
1-1974	142	57	142	57	
2	142	57	142	57	
3	142	57	142	57	
4	87	37	87	37	
1-1975	87	37	87	37	
2	87	37	87	37	
3	87	37	87	37	
4	87	37	87	37	
1-1976	87	37	87	37	
2	87	37	87	37	
3	87	37	87	37	
4	87	37	87	37	

241-SX-108 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	87	37	87	37	
2	87	37	87	37	
3	87	37	87	37	
4	87	37	87	37	
1-1978	87	37	87	37	
2	87	37	87	37	
3	87	37	87	37	
4	87	37	87	37	
1-1979	87	37	87	37	
2	87	37	87	37	
3	87	37	87	37	
4	87	37	87	37	
1-1980	87	37	87	37	
2	87	37	87	37	
3	87	37	87	37	
4	87	37	87	37	
1-1981	87	37	87	37	
2	87	37	87	37	
3	87	37	87	37	
4	87	37	87	37	
1-1982	87	37	87	37	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1983	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1984	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1985	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1986	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1987	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1988	115	47	115	47	
2	115	47	115	47	

241-SX-108 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total	Total	Solids	Solids	
	(K gal)	(in)	(K gal)	(in)	
3	115	47	115	47	
4	115	47	115	47	
1-1989	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1990	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1991	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1992	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	115	47	115	47	
1-1993	115	47	115	47	
2	115	47	115	47	
3	115	47	115	47	
4	87	37	87	37	

241-SX-109 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1955					
2					
3	520	194			
4	662	246			
1-1956	956	353	0	0	
2	908	335	0	0	
3	890	329	0	0	
4	981	362	0	0	
1-1957	969	358	0	0	
2	961	355	0	0	
3	959	354	0	0	
4	956	353	0	0	
1-1958	956	353	0	0	
2	959	354	0	0	
3	967	357	0	0	
4	964	356	0	0	
1-1959	961	355	0	0	
2	959	354	0	0	
3	960	354	0	0	
4	959	354	0	0	
1-1960	953	352	0	0	
2	951	351	0	0	
3	667	248	0	0	
4	665	247	0	0	
1-1961					
2	659	245	0	0	
3					
4	337	128	0	0	
1-1962					
2	486	182	0	0	
3					
4	676	251	0	0	
1-1963					
2	733	272	0	0	
3					
4	722	268	0	0	
1-1964					
2	710	263	0	0	
3					
4	676	251	0	0	
1-1965					
2	670	249	68	30	

**241-SX-109 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	665	247	68	30	
4	631	235	68	30	
1-1966	612	228	68	30	
2	576	215	68	30	
3	565	211	68	30	
4	557	208	68	30	
1-1967	546	204	68	30	
2	544	203	68	30	
3	541	202	68	30	
4	538	201	164	65	
1-1968	530	198	164	65	
2	524	196	180	71	
3	519	194	186	73	
4	510	191	187	73	
1-1969	511	191	191	75	
2	508	190	187	73	
3	352	133	178	70	
4	346	131	176	69	
1-1970	342	130	176	69	
2	341	129	194	76	
3	343	130	193	75	
4	341	129	189	74	
1-1971	337	128	189	74	
2	333	126	189	74	
3	333	126	189	74	
4	277	106	189	74	
1-1972	274	105	189	74	
2	275	105	35	18	
3	273	105	189	74	
4	270	103	189	74	
1-1973	268	103	189	74	
2	268	103	189	74	
3	257	99	189	74	
4	256	98	189	74	
1-1974	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	
1-1975	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	
1-1976	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	

**241-SX-109 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	
1-1978	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	
1-1979	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	
1-1980	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	
1-1981	257	99	257	99	
2	257	99	257	99	
3	257	99	257	99	
4	257	99	257	99	
1-1982	257	99	257	99	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1983	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1984	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1985	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1986	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1987	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1988	250	96	250	96	
2	250	96	250	96	

**241-SX-109 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	250	96	250	96	
4	250	96	250	96	
1-1989	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1990	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1991	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1992	250	96	250	96	
2	250	96	250	96	
3	250	96	250	96	
4	250	96	250	96	
1-1993	250	96	250	96	
2	250	96	250	96	
3					
4					

241-SX-110 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1955					
2					
3					
4					
1-1956					
2					
3					
4					
1-1957					
2					
3					
4					
1-1958					
2					
3					
4					
1-1959					
2	0	0			
3	9	9			
4	9	9			
1-1960	9	9			
2	176	69			
3	175	69			
4	297	113			
1-1961					
2	642	239			
3					
4	678	252			
1-1962					
2	706	262	0	0	
3					
4	720	267	0	0	
1-1963					
2	711	264	0	0	
3					
4	719	267	0	0	
1-1964					
2	702	261	0	0	
3					
4	672	250	0	0	
1-1965					
2	158	63	51	24	

241-SX-110 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	188	74	51	24	
4	420	158	51	24	
1-1966	554	207	51	24	
2	631	235	51	24	
3	631	235	51	24	
4	623	232	51	24	
1-1967	620	231	51	24	
2	628	234	51	24	
3	640	238	51	24	
4	634	236	32	17	
1-1968	641	238	32	17	
2	640	238	58	26	
3	776	287	50	23	
4	789	292	42	21	
1-1969	932	344	42	21	
2	942	348	8	8	
3	952	351	8	8	
4	945	349	24	14	
1-1970	944	349	24	14	
2	943	348	32	17	
3	948	350	32	17	
4	959	354	32	17	
1-1971	958	354	32	17	
2	294	112	32	17	
3	930	343	32	17	
4	936	346	32	17	
1-1972	931	344	32	17	
2	927	342	32	17	
3	916	338	32	17	
4	906	335	32	17	
1-1973	934	345	32	17	
2	926	342	32	17	
3	924	341	32	17	
4	969	358	32	17	
1-1974	963	355	32	17	
2	951	351	32	17	
3	432	162	32	17	
4	420	158	32	17	
1-1975	411	155	32	17	
2	406	153	32	17	
3	183	72	32	17	
4	527	197	32	17	
1-1976	95	40	32	17	
2	334	127	32	17	
3	65	29	32	17	
4	32	17	32	17	

241-SX-110 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	32	17	32	17	
2	32	17	32	17	
3	32	17	32	17	
4	32	17	32	17	
1-1978	32	17	32	17	
2	32	17	32	17	
3	32	17	32	17	
4	32	17	32	17	
1-1979	32	17	32	17	
2	32	17	32	17	
3	32	17	32	17	
4	62	28	62	28	
1-1980	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1981	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1982	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1983	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1984	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1985	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1986	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1987	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1988	62	28	62	28	
2	62	28	62	28	

**241-SX-110 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	62	28	62	28	
4	62	28	62	28	
1-1989	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1990	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1991	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1992	62	28	62	28	
2	62	28	62	28	
3	62	28	62	28	
4	62	28	62	28	
1-1993	62	28	62	28	
2	62	28	62	28	
3					
4					

**241-SX-111 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1955					
2					
3					
4					
1-1956					
2					
3	640	238	0	0	
4	895	331	0	0	
1-1957	807	299	0	0	
2	741	275	0	0	
3	700	260	0	0	
4	675	251	0	0	
1-1958	656	244	0	0	
2	642	239	0	0	
3	631	235	29	16	
4	105	43	29	16	
1-1959	285	109	0	0	
2	439	165	0	0	
3	468	175	0	0	
4	555	207	0	0	
1-1960	632	235	0	0	
2	683	254	0	0	
3	703	261	0	0	
4	703	261	0	0	
1-1961					
2	659	245	0	0	
3					
4	634	236	0	0	
1-1962					
2	686	255	0	0	
3					
4	659	245	0	0	
1-1963					
2	637	237	0	0	
3					
4	616	229	0	0	
1-1964					
2	123	50	0	0	
3					
4	212	82	0	0	
1-1965					
2	519	194	24	14	

241-SX-111 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	566	211	24	14	
4	631	235	24	14	
1-1966	651	242	24	14	
2	650	242	24	14	
3	653	243	24	14	
4	559	209	24	14	
1-1967	640	238	24	14	
2	658	245	24	14	
3	651	242	24	14	
4	663	246	84	36	
1-1968	647	241	84	36	
2	642	239	102	42	
3	810	300	88	37	
4	807	299	90	38	
1-1969	944	349	90	38	
2	938	346	72	31	
3	938	346	72	31	
4	941	347	77	33	
1-1970	942	348	77	33	
2	942	348	77	33	
3	948	350	77	33	
4	957	353	77	33	
1-1971	944	349	77	33	
2	943	348	77	33	
3	372	141	77	33	
4	944	349	77	33	
1-1972	939	347	77	33	
2	944	349	77	33	
3	920	340	77	33	
4	908	335	77	33	
1-1973	924	341	77	33	
2	913	337	77	33	
3	905	334	77	33	
4	895	331	77	33	
1-1974	885	327	77	33	
2	128	52	83	35	
3	128	52	128	52	
4	125	51	125	51	
1-1975	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1976	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	

241-SX-111 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1978	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1979	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1980	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1981	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1982	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1983	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1984	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1985	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1986	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1987	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1988	125	51	125	51	
2	125	51	125	51	

**241-SX-111 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	125	51	125	51	
4	125	51	125	51	
1-1989	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1990	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1991	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1992	125	51	125	51	
2	125	51	125	51	
3	125	51	125	51	
4	125	51	125	51	
1-1993	125	51	125	51	
2	125	51	125	51	
3					
4					

**241-SX-112 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1955					
2					
3					
4					
1-1955					
2					
3					
4					
1-1956	556	207	0	0	
2	586	218	0	0	
3	589	219	0	0	
4	977	361	0	0	
1-1957	933	345	0	0	
2	893	330	0	0	
3	876	324	0	0	
4	865	320	0	0	
1-1958	860	318	0	0	
2	857	317	0	0	
3	860	318	48	23	
4	854	316	48	23	
1-1959	846	313			
2	838	310			
3	838	310			
4	635	236			
1-1960	411	155			
2	241	93			
3	444	167	0	0	
4	564	210	0	0	
1-1961					
2	469	176	0	0	
3					
4	472	177			
1-1962					
2	719	267	0	0	
3					
4	722	268	0	0	
1-1963					
2	717	266	0	0	
3					
4	723	268	0	0	
1-1964					
2	699	259	0	0	
3					
4	670	249	0	0	
1-1965					
2	637	237	73	32	

241-SX-112 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	629	234	73	32	
4	629	234	73	32	
1-1966	241	93	73	32	
2	524	196	73	32	
3	596	222	73	32	
4	626	233	73	32	
1-1967	634	236	73	32	
2	623	232	73	32	
3	627	233	73	32	
4	647	241	43	21	
1-1968	628	234	43	21	
2	643	239	58	26	
3	646	240	54	25	
4	682	253	46	22	
1-1969	121	49	39	19	
2	119	49	42	21	
3	120	49	35	18	
4	118	48	35	18	
1-1970	120	49	35	18	
2	120	49	35	18	
3	119	49	35	18	
4	117	48	35	18	
1-1971	119	49	35	18	
2	117	48	35	18	
3	118	48	35	18	
4	118	48	35	18	
1-1972	120	49	35	18	
2	121	49	35	18	
3	124	50	35	18	
4	121	49	35	18	
1-1973	125	51	35	18	
2	114	47	35	18	
3	119	49	35	18	
4	108	45	35	18	
1-1974	108	45	35	18	
2	108	45	35	18	
3	112	46	112	46	
4	106	44	106	44	
1-1975	106	44	106	44	
2	106	44	106	44	
3	106	44	106	44	
4	106	44	106	44	
1-1976	106	44	106	44	
2	106	44	106	44	
3	106	44	106	44	
4	106	44	106	44	

241-SX-112 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	106	44	106	44	
2	106	44	106	44	
3	106	44	106	44	
4	106	44	106	44	
1-1978	106	44	106	44	
2	106	44	106	44	
3	106	44	106	44	
4	106	44	106	44	
1-1979	106	44	106	44	
2	106	44	106	44	
3	106	44	106	44	
4	106	44	106	44	
1-1980	106	44	106	44	
2	106	44	106	44	
3	106	44	106	44	
4	106	44	106	44	
1-1981	106	44	106	44	
2	106	44	106	44	
3	106	44	106	44	
4	106	44	106	44	
1-1982	106	44	106	44	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1983	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1984	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1985	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1986	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1987	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1988	92	39	92	39	
2	92	39	92	39	

241-SX-112 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total	Total	Solids	Solids	
	(K gal)	(in)	(K gal)	(in)	
3	92	39	92	39	
4	92	39	92	39	
1-1989	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1990	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1991	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1992	92	39	92	39	
2	92	39	92	39	
3	92	39	92	39	
4	92	39	92	39	
1-1993	92	39	92	39	
2	92	39	92	39	
3					
4					

241-SX-113 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1955					
2					
3					
4					
1-1956					
2					
3					
4					
1-1957					
2					
3					
4					
1-1958	191	75			
2	321	122			
3	3	6			
4	1	6			
1-1959	0	0			
2	0	0			
3	0	0			
4	0	0			
1-1960	0	0			
2	0	0			
3	0	0			
4	0	0			
1-1961					
2	0	0			
3					
4	0	0			
1-1962					
2	0	0	0	0	
3					
4	11	9	0	0	
1-1963					
2	11	9	0	0	
3					
4	9	9	0	0	
1-1964					
2	9	9	0	0	
3					
4	9	9	0	0	
1-1965					
2	26	15	3	6	

**241-SX-113 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	26	15	3	6	
4	26	15	3	6	
1-1966	26	15	3	6	
2	26	15	3	6	
3	26	15	3	6	
4	37	19	3	6	
1-1967	37	19	3	6	
2	37	19	3	6	
3	36	18	3	6	
4	32	17	3	6	
1-1968	29	16	3	6	
2	26	15	3	6	
3	25	14	3	6	
4	24	14	3	6	
1-1969	24	14	3	6	
2	21	13	3	6	
3	20	13	3	6	
4	20	13	2	6	
1-1970	18	12	2	6	
2	18	12	2	6	
3	17	11	2	6	
4	17	11	2	6	
1-1971	17	11	2	6	
2	2	6	2	6	
3	2	6	2	6	
4	2	6	2	6	
1-1972	2	6	2	6	
2	2	6	2	6	
3	2	6	2	6	
4	2	6	2	6	
1-1973	2	6	2	6	
2	2	6	2	6	
3	2	6	2	6	
4	2	6	2	6	
1-1974	2	6	2	6	
2	2	6	2	6	
3	2	6	2	6	
4	6	7	6	7	
1-1975	6	7	6	7	
2	6	7	6	7	
3	6	7	6	7	
4	6	7	6	7	
1-1976	6	7	6	7	
2	6	7	6	7	
3	10	9	10	9	
4	10	9	10	9	

241-SX-113 SINGLE-SHELL
TANK LEVEL HISTORY

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1978					
2					
3					
4					
1-1979					
2					
3					
4					
1-1980	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1981	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1982	10	9	10	9	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1983	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1984	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1985	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1986	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1987	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1988	26	15	26	15	
2	26	15	26	15	

**241-SX-113 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total	Total	Solids	Solids	
	(K gal)	(in)	(K gal)	(in)	
3	26	15	26	15	
4	26	15	26	15	
1-1989	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1990	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1991	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1992	26	15	26	15	
2	26	15	26	15	
3	26	15	26	15	
4	26	15	26	15	
1-1993	26	15	26	15	
2	26	15	26	15	
3					
4					

**241-SX-114 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1956					
2					
3					
4					
1-1956					
2					
3					
4					
1-1957	220	85	0	0	
2	370	140	0	0	
3	675	251	0	0	
4	623	232	0	0	
1-1958	579	216	0	0	
2	601	224	0	0	
3	722	268	1	6	
4	733	272	1	6	
1-1959	761	282			
2	783	290	0	0	
3	804	298	0	0	
4	796	295	0	0	
1-1960	797	295	0	0	
2	801	297	0	0	
3	793	294	0	0	
4	820	303	0	0	
1-1961		5			
2	807	299	0	0	
3		5			
4	326	124	0	0	
1-1962		5			
2	312	119	0	0	
3		5			
4	480	180	0	0	
1-1963		5			
2	16	11	0	0	
3		5			
4	11	9	0	0	
1-1964		5			
2	388	146	0	0	
3		5			
4	708	263	0	0	
1-1965		5			
2	645	240	21	13	

241-SX-114 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	645	240	21	13	
4	664	247	21	13	
1-1966	651	242	21	13	
2	631	235	21	13	
3	631	235	21	13	
4	645	240	21	13	
1-1967	648	241	21	13	
2	650	242	21	13	
3	648	241	21	13	
4	654	243	57	26	
1-1968	638	237	57	26	
2	638	237	127	51	
3	671	249	84	36	
4	676	251	80	34	
1-1969	935	345	80	34	
2	941	347	183	72	
3	948	350	204	79	
4	943	348	204	79	
1-1970	944	349	204	79	
2	947	350	204	79	
3	942	348	204	79	
4	950	351	204	79	
1-1971	945	349	204	79	
2	942	348	200	78	
3	950	351	200	78	
4	449	169	200	78	
1-1972	527	197	200	78	
2	937	346	200	78	
3	480	180	200	78	
4	204	79	200	78	
1-1973	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1974	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1975	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1976	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	

241-SX-114 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1978	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1979	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1980	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1981	200	78	200	78	
2	200	78	200	78	
3	200	78	200	78	
4	200	78	200	78	
1-1982	200	78	200	78	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1983	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1984	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1985	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1986	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1987	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1988	181	71	181	71	
2	181	71	181	71	

241-SX-114 SINGLE-SHELL WHC-SD-WM-ER-324, Rev.0
TANK LEVEL HISTORY

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	181	71	181	71	
4	181	71	181	71	
1-1989	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1990	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1991	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1992	181	71	181	71	
2	181	71	181	71	
3	181	71	181	71	
4	181	71	181	71	
1-1993	181	71	181	71	
2	181	71	181	71	
3					
4					

**241-SX-115 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1954					
2					
3					
4					
1-1955					
2					
3					
4					
1-1956					
2					
3					
4					
1-1957					
2					
3					
4					
1-1958					
2					
3	200	78			
4	263	101			
1-1959	243	94			
2	234	90			
3	227	88			
4	439	165			
1-1960	475	178			
2	547	204			
3	631	235			
4	643	239			
1-1961					
2	645	240			
3					
4	667	248			
1-1962					
2	675	251	0	0	
3					
4	684	254	0	0	
1-1963					
2	700	260	0	0	
3					
4	702	261	0	0	
1-1964					
2	192	75	0	0	
3					
4	117	48	0	0	
1-1965					
2	8	8	3	6	

**241-SX-115 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	8	8	3	6	
4	8	8	3	6	
1-1966	8	8	3	6	
2	6	7	3	6	
3	6	7	3	6	
4	14	10	3	6	
1-1967	14	10	3	6	
2	19	12	3	6	
3	19	12	3	6	
4	19	12	3	6	
1-1968	6	7	3	6	
2	6	7	3	6	
3	6	7	3	6	
4	6	7	3	6	
1-1969	6	7	3	6	
2	5	7	3	6	
3	6	7	6	7	
4	6	7	6	7	
1-1970	6	7	6	7	
2	6	7	6	7	
3	6	7	6	7	
4	6	7	6	7	
1-1971	6	7	6	7	
2	6	7	6	7	
3	6	7	6	7	
4	6	7	6	7	
1-1972	6	7	6	7	
2	6	7	6	7	
3	6	7	6	7	
4	6	7	6	7	
1-1973	6	7	6	7	
2	6	7	6	7	
3	6	7	6	7	
4	6	7	6	7	
1-1974	6	7	6	7	
2	8	8	8	8	
3	8	8	8	8	
4	6	7	6	7	
1-1975	6	7	6	7	
2	6	7	6	7	
3	6	7	6	7	
4	6	7	6	7	
1-1976	6	7	6	7	
2	6	7	6	7	
3	10	9	10	9	
4	10	9	10	9	

**241-SX-115 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
1-1977	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1978	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1979	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1980	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1981	10	9	10	9	
2	10	9	10	9	
3	10	9	10	9	
4	10	9	10	9	
1-1982	10	9	10	9	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1983	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1984	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1985	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1986	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1987	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1988	12	10	12	10	
2	12	10	12	10	

**241-SX-115 SINGLE-SHELL
TANK LEVEL HISTORY**

WHC-SD-WM-ER-324, Rev.0

Year	Total (K gal)	Total (in)	Solids (K gal)	Solids (in)	
3	12	10	12	10	
4	12	10	12	10	
1-1989	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1990	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1991	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1992	12	10	12	10	
2	12	10	12	10	
3	12	10	12	10	
4	12	10	12	10	
1-1993	12	10	12	10	
2	12	10	12	10	
3					
4					

Tank 241-SX-101
Historical Vapor Space Temperature

Tank 241-SX-101
Historical High or Only Waste Temperature

Tank 241-SX-102
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-102
Historical High or Only Waste Temperature

D-4

Tank 241-SX-103
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-103
Historical High or Only Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-104
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-104
Historical High or Only Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-105
Historical Vapor Space Temperature

WHC-SD-WM-ER-324, Rev.0

Data obtained from RHO-CD-1172.

Tank 241-SX-105
Historical High of Only Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-106
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-106
Historical High or Only Waste Temperature

D-12

Tank 241-SX-107
Historical Vapor Space Temperature

D-13

Data obtained from RHO-CD-1172.

Tank 241-SX-107
Historical Average Waste Temperature

D-14

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-107
Historical High or Only Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-108
Historical Vapor Space Temperature

D-16

Data obtained from RHO-CD-1172.

Tank 241-SX-108
Historical Average Waste Temperature

D-17

Tank 241-SX-108
Historical High or Only Waste Temperature

**Tank 241-SX-109
Historical Vapor Space Temperature**

D-19

Data obtained from RHO-CD-1172.

Tank 241-SX-109
Historical Average Waste Temperature

D-20

Tank 241-SX-109
Historical High or Only Waste Temperature

D-21

Tank 241-SX-110
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-110
Historical Average Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-110
Historical High or Only Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

**Tank 241-SX-111
Historical Vapor Space Temperature**

Data obtained from RHO-CD-1172.

Tank 241-SX-111
Historical Average Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-111
Historical High or Only Waste Temperature

Tank 241-SX-112
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-112
Historical Average Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-112
Historical High or Only Waste Temperature

WHC-SD-WM-ER-324, Rev. 0

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-113
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-113 Historical Average Waste Temperature

D-32

Tank 241-SX-113
Historical High or Only Waste Temperature

D-33

Tank 241-SX-114
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-114
Historical Average Waste Temperature

D-35

Tank 241-SX-114
Historical High or Only Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Tank 241-SX-115
Historical Vapor Space Temperature

Data obtained from RHO-CD-1172.

Tank 241-SX-115
Historical Average Waste Temperature

D-38

Tank 241-SX-115
Historical High or Only Waste Temperature

Data obtained from HW-83906 and Waste Status Summary Reports.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-101
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-101
Thermocouple 6
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-101
Thermocouple 7
 (Thermocouple Elevation Unavailable)

241-SX-101
Thermocouple 8
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-101
Thermocouple 9
(Thermocouple Elevation Unavailable)

241-SX-101
Thermocouple 10
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-101
Thermocouple 11
 (Thermocouple Elevation Unavailable)

241-SX-101
Thermocouple 12
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-102
Thermocouple 1
(Thermocouple Elevation Unavailable)

241-SX-102
Thermocouple 2
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1993.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1993.

241-SX-102
Thermocouple 5
(Thermocouple Elevation Unavailable)

241-SX-102
Thermocouple 6
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1993.

241-SX-102
Thermocouple 7
(Thermocouple Elevation Unavailable)

241-SX-102
Thermocouple 8
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1993.

241-SX-102
Thermocouple 9
 (Thermocouple Elevation Unavailable)

241-SX-102
Thermocouple 10
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1993.

241-SX-102
Thermocouple 11
 (Thermocouple Elevation Unavailable)

241-SX-102
Thermocouple 12
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1993.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-103
Thermocouple 7
(Thermocouple Elevation Unavailable)

241-SX-103
Thermocouple 8
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-103
Thermocouple 9
 (Thermocouple Elevation Unavailable)

241-SX-103
Thermocouple 10
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-103
Thermocouple 11
 (Thermocouple Elevation Unavailable)

241-SX-103
Thermocouple 12
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-103
Thermocouple 13
(Thermocouple Elevation Unavailable)

241-SX-103
Thermocouple 14
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-104
Thermocouple 7
(Thermocouple Elevation Unavailable)

241-SX-104
Thermocouple 8
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-104
Thermocouple 9
(Thermocouple Elevation Unavailable)

241-SX-104
Thermocouple 10
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-104
Thermocouple 11
(Thermocouple Elevation Unavailable)

241-SX-104
Thermocouple 12
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-104
Thermocouple 13
 (Thermocouple Elevation Unavailable)

241-SX-104
Thermocouple 14
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-104
Thermocouple 15
 (Thermocouple Elevation Unavailable)

241-SX-104
Thermocouple 16
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-105
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-105
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-105
Thermocouple 7
(Thermocouple Elevation Unavailable)

241-SX-105
Thermocouple 8
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-105
Thermocouple 9
 (Thermocouple Elevation Unavailable)

241-SX-105
Thermocouple 10
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-105
Thermocouple 11
 (Thermocouple Elevation Unavailable)

241-SX-105
Thermocouple 12
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-105
Thermocouple 13
 (Thermocouple Elevation Unavailable)

241-SX-105
Thermocouple 14
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-105
Thermocouple 15
 (Thermocouple Elevation Unavailable)

241-SX-105
Thermocouple 16
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-106
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-106
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-106
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-106
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-106
Thermocouple 7
 (Thermocouple Elevation Unavailable)

241-SX-106
Thermocouple 8
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-106
Thermocouple 9
 (Thermocouple Elevation Unavailable)

241-SX-106
Thermocouple 10
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-106
Thermocouple 11
(Thermocouple Elevation Unavailable)

241-SX-106
Thermocouple 12
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-106
Thermocouple 13
(Thermocouple Elevation Unavailable)

241-SX-106
Thermocouple 14
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-107
Tree 1
Thermocouple 1
 0.50 ft.

241-SX-107
Tree 1
Thermocouple 2
 1.50 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

**241-SX-107
Tree 1
Thermocouple 3
2.25 ft.**

**241-SX-107
Tree 1
Thermocouple 4
2.92 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

**241-SX-107
Tree 2
Thermocouple 3
2.25 ft.**

**241-SX-107
Tree 2
Thermocouple 4
2.92 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 2
Thermocouple 5
 3.66 ft.

241-SX-107
Tree 2
Thermocouple 6
 4.33 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 2
Thermocouple 7
 5.00 ft.

241-SX-107
Tree 2
Thermocouple 8
 5.66 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

**241-SX-107
Tree 3
Thermocouple 1
0.50 ft.**

**241-SX-107
Tree 3
Thermocouple 2
1.50 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 3
Thermocouple 3
 2.25 ft.

241-SX-107
Tree 3
Thermocouple 4
 2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 4
Thermocouple 1
 0.50 ft.

241-SX-107
Tree 4
Thermocouple 2
 1.50 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 4
Thermocouple 3
 2.25 ft.

241-SX-107
Tree 4
Thermocouple 4
 2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 5
Thermocouple 1
 0.50 ft

241-SX-107
Tree 5
Thermocouple 2
 1.50 ft

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 5
Thermocouple 3
 2.25 ft

241-SX-107
Tree 5
Thermocouple 4
 2.92 ft

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 6
Thermocouple 1
 0.50 ft

241-SX-107
Tree 6
Thermocouple 2
 1.50 ft

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 6
Thermocouple 3
 2.25 ft

241-SX-107
Tree 6
Thermocouple 4
 2.92 ft

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 7
Thermocouple 1
 0.50 ft.

241-SX-107
Tree 7
Thermocouple 2
 1.50 ft

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 7
Thermocouple 3
 2.25 ft

241-SX-107
Tree 7
Thermocouple 4
 2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

**241-SX-107
Tree 8
Thermocouple 1
0.50 ft.**

**241-SX-107
Tree 8
Thermocouple 2
1.50 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 8
Thermocouple 3
 2.25 ft.

241-SX-107
Tree 8
Thermocouple 4
 2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

241-SX-107
Tree 8
Thermocouple 5
 3.66 ft.

241-SX-107
Tree 8
Thermocouple 6
 4.33 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

**241-SX-107
Tree 8
Thermocouple 7
5.00 ft.**

**241-SX-107
Tree 8
Thermocouple 8
5.66 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

**241-SX-108
Tree 1
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-108
Tree 1
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-108
Tree 1
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-108
Tree 1
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-108
Tree 2
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-108
Tree 2
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

**241-SX-108
Tree 3
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-108
Tree 3
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

**241-SX-108
Tree 4
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-108
Tree 4
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

**241-SX-108
Tree 4
Thermocouple 3**

(Thermocouple Elevation Unavailable)

**241-SX-108
Tree 4
Thermocouple 4**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-108
Tree 5
Thermocouple 1

(Thermocouple Elevation Unavailable)

241-SX-108
Tree 5
Thermocouple 2

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

**241-SX-108
Tree 5
Thermocouple 3**

(Thermocouple Elevation Unavailable)

**241-SX-108
Tree 5
Thermocouple 4**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-108
Tree 7
Thermocouple 1

(Thermocouple Elevation Unavailable)

241-SX-108
Tree 7
Thermocouple 2

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

**241-SX-108
Tree 7
Thermocouple 3**

(Thermocouple Elevation Unavailable)

**241-SX-108
Tree 7
Thermocouple 4**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-108
Tree 8
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-108
Tree 8
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-108

Tree 8

Thermocouple 3

(Thermocouple Elevation Unavailable)

241-SX-108

Tree 8

Thermocouple 4

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-108
Tree 8
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-108
Tree 8
Thermocouple 7
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

241-SX-109
Tree 1
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 1
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109
Tree 2
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 2
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109
Tree 2
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 2
Thermocouple 6
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109
Tree 3
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 3
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

**241-SX-109
Tree 4
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-109
Tree 4
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109
Tree 5
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 5
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109

Tree 5

Thermocouple 3

(Thermocouple Elevation Unavailable)

241-SX-109

Tree 5

Thermocouple 4

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109
Tree 6
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 6
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

**241-SX-109
Tree 7
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-109
Tree 7
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109

Tree 7

Thermocouple 3

(Thermocouple Elevation Unavailable)

241-SX-109

Tree 7

Thermocouple 4

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109
Tree 8
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 8
Thermocouple 6
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

241-SX-109
Tree 8
Thermocouple 7
 (Thermocouple Elevation Unavailable)

241-SX-109
Tree 8
Thermocouple 8
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

**241-SX-110
Tree 1
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-110
Tree 1
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110

Tree 1

Thermocouple 3

(Thermocouple Elevation Unavailable)

241-SX-110

Tree 1

Thermocouple 4

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110

Tree 1

Thermocouple 5

(Thermocouple Elevation Unavailable)

241-SX-110

Tree 1

Thermocouple 6

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110

Tree 1

Thermocouple 7

(Thermocouple Elevation Unavailable)

241-SX-110

Tree 1

Thermocouple 8

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110
Tree 1
Thermocouple 9
(Thermocouple Elevation Unavailable)

241-SX-110
Tree 1
Thermocouple 10
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

**241-SX-110
Tree 1
Thermocouple 13**

(Thermocouple Elevation Unavailable)

**241-SX-110
Tree 1
Thermocouple 14**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110

Tree 2

Thermocouple 1

(Thermocouple Elevation Unavailable)

241-SX-110

Tree 2

Thermocouple 2

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110
Tree 2
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-110
Tree 2
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110
Tree 2
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-110
Tree 2
Thermocouple 6
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110
Tree 2
Thermocouple 7
 (Thermocouple Elevation Unavailable)

241-SX-110
Tree 2
Thermocouple 8
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

**241-SX-110
Tree 5
Thermocouple 1**

**241-SX-110
Tree 5
Thermocouple 4**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110
Tree 8
Thermocouple 2
(Thermocouple Elevation Unavailable)

241-SX-110
Tree 8
Thermocouple 3
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-110
Tree 8
Thermocouple 6
 (Thermocouple Elevation Unavailable)

241-SX-110
Tree 8
Thermocouple 7
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

241-SX-111
Tree 1
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 1
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 2
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 2
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 2
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 2
Thermocouple 6
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 2
Thermocouple 7
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 2
Thermocouple 8
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 3
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 3
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 3
Thermocouple 3
(Thermocouple Elevation Unavailable)

241-SX-111
Tree 3
Thermocouple 4
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 4
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 4
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 4
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 4
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 5
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 5
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 5
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 5
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 6
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 6
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 6
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 6
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 7
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 7
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 7
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 7
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 8
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 8
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 8
Thermocouple 3
(Thermocouple Elevation Unavailable)

241-SX-111
Tree 8
Thermocouple 4
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 8
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 8
Thermocouple 6
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-111
Tree 8
Thermocouple 7
 (Thermocouple Elevation Unavailable)

241-SX-111
Tree 8
Thermocouple 8
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

241-SX-112
Tree 1
Thermocouple 1
 0.50 ft.

241-SX-112
Tree 1
Thermocouple 2
 1.50 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 1
Thermocouple 3
 2.25 ft.

241-SX-112
Tree 1
Thermocouple 4
 2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

**241-SX-112
Tree 2
Thermocouple 3
2.25 ft.**

**241-SX-112
Tree 2
Thermocouple 4
2.92 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 2
Thermocouple 5
 3.66 ft.

241-SX-112
Tree 2
Thermocouple 6
 4.33 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

**241-SX-112
Tree 2
Thermocouple 7
5.00 ft.**

**241-SX-112
Tree 2
Thermocouple 8
5.66 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

**241-SX-112
Tree 3
Thermocouple 1
0.50 ft.**

**241-SX-112
Tree 3
Thermocouple 2
1.50 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 3
Thermocouple 3
 2.25 ft.

241-SX-112
Tree 3
Thermocouple 4
 2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 4
Thermocouple 1
 0.50 ft.

241-SX-112
Tree 4
Thermocouple 2
 1.50 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

**241-SX-112
Tree 4
Thermocouple 3
2.25 ft.**

**241-SX-112
Tree 4
Thermocouple 4
2.92 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 5
Thermocouple 1
 0.50 ft.

241-SX-112
Tree 5
Thermocouple 2
 1.50 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 5
Thermocouple 3
2.25 ft.

241-SX-112
Tree 5
Thermocouple 4
2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 6
Thermocouple 1
 0.50 ft.

241-SX-112
Tree 6
Thermocouple 2
 1.50 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

**241-SX-112
Tree 6
Thermocouple 3
2.25 ft.**

**241-SX-112
Tree 6
Thermocouple 4
2.92 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 7
Thermocouple 1
 0.50 ft.

241-SX-112
Tree 7
Thermocouple 2
 1.50 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 7
Thermocouple 3
 2.25 ft.

241-SX-112
Tree 7
Thermocouple 4
 2.92 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

**241-SX-112
Tree 8
Thermocouple 3
2.25 ft.**

**241-SX-112
Tree 8
Thermocouple 4
2.92 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-112
Tree 8
Thermocouple 5
3.66 ft.

241-SX-112
Tree 8
Thermocouple 6
4.33 ft.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

**241-SX-112
Tree 8
Thermocouple 7
5.00 ft.**

**241-SX-112
Tree 8
Thermocouple 8
5.66 ft.**

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

241-SX-113
Tree 1
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-113
Tree 1
Thermocouple 3
(Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 4
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-113
Tree 1
Thermocouple 5
(Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 6
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-113
Tree 1
Thermocouple 7
(Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 8
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-113
Tree 1
Thermocouple 9
 (Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 10
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-113
Tree 1
Thermocouple 11
 (Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 12
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-113
Tree 1
Thermocouple 13
 (Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 14
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-113
Tree 1
Thermocouple 15
(Thermocouple Elevation Unavailable)

241-SX-113
Tree 1
Thermocouple 16
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

**241-SX-114
Tree 1
Thermocouple 3**
(Thermocouple Elevation Unavailable)

**241-SX-114
Tree 1
Thermocouple 4**
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 2
Thermocouple 3
(Thermocouple Elevation Unavailable)

241-SX-114
Tree 2
Thermocouple 4
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

**241-SX-114
Tree 3
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-114
Tree 3
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

**241-SX-114
Tree 3
Thermocouple 3**

(Thermocouple Elevation Unavailable)

**241-SX-114
Tree 3
Thermocouple 4**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 4
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 4
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 5
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 5
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 6
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 6
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 7
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 7
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 7
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 7
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 8
Thermocouple 1
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 8
Thermocouple 2
 (Thermocouple Elevation Unavailable)

Data obtained from from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 8
Thermocouple 5
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 8
Thermocouple 6
 (Thermocouple Elevation Unavailable)

Data obtained from from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-114
Tree 8
Thermocouple 7
 (Thermocouple Elevation Unavailable)

241-SX-114
Tree 8
Thermocouple 8
 (Thermocouple Elevation Unavailable)

Data obtained from from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

**241-SX-115
Tree 1
Thermocouple 1**

(Thermocouple Elevation Unavailable)

**241-SX-115
Tree 1
Thermocouple 2**

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-115
Tree 1
Thermocouple 3
 (Thermocouple Elevation Unavailable)

241-SX-115
Tree 1
Thermocouple 4
 (Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-115
Tree 1
Thermocouple 7
(Thermocouple Elevation Unavailable)

241-SX-115
Tree 1
Thermocouple 8
(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

241-SX-115

Tree 1

Thermocouple 9

(Thermocouple Elevation Unavailable)

241-SX-115

Tree 1

Thermocouple 10

(Thermocouple Elevation Unavailable)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

Historical Vapor Space Temperature Data							
Tank 241-SX-101							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/3/56		300		1/27/58		306	
8/9/56		295		2/9/58		311	
8/27/56		296		2/16/58		306	
9/7/56		296		2/27/58		308	
9/18/56		297		3/10/58		307	
9/21/56		298		3/19/58		306	
9/27/56		301		3/27/58		306	
10/30/56		301		4/4/58		303	
11/29/56		301		4/11/58		301	
12/7/56		305		4/23/58		300	
12/9/56		306		4/27/58		293	
12/19/56		305		5/9/58		296	
12/24/56		308		6/3/58		287	
1/17/57		309		6/11/58		291	
1/27/57		311		7/5/58		281	
2/7/57		312		7/9/58		286	
2/25/57		315		7/14/58		283	
3/8/57		317		7/30/58		297	
3/17/57		319		8/1/58		297	
3/27/57		318		8/12/58		300	
4/8/57		319		8/22/58		303	
4/16/57		319		8/31/58		301	
4/28/57		317		9/13/58		306	
5/7/57		317		9/17/58		306	
5/17/57		316		9/26/58		306	
5/26/57		320		10/3/58		307	
6/11/57		320		10/10/58		307	
6/18/57		313		10/16/58		308	
6/24/57		309		10/23/58		309	
7/1/57		308		10/31/58		309	
7/8/57		307		11/9/58		310	
7/11/57		305		11/23/58		312	
7/23/57		305		12/3/58		312	
8/3/57		305		11/30/58		313	
8/12/57		306		12/9/58		309	
8/25/57		306		12/10/58		304	
8/29/57		301		12/14/58		300	
9/10/57		301		12/16/58		295	
9/16/57		305		12/18/58		291	
9/24/57		303		12/20/58		284	
9/30/57		306		12/23/58		244	
10/7/57		301		12/25/58		206	
10/15/57		301		1/2/59		205	
11/8/57		326		1/9/59		206	
11/11/57		311		1/19/59		205	
11/19/57		316		1/26/59		205	
11/22/57		316		1/31/59		205	
11/26/57		320		2/6/59		204	
12/16/57		308		2/12/59		203	
12/24/57		321		2/18/59		203	
12/27/57		316		2/23/59		201	
1/5/58		321		2/28/59		203	
1/14/58		288		3/7/59		203	
1/21/58		309		3/13/59		204	
1/23/58		312		3/19/59		204	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank 241-SX-101							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
3/28/59		204		8/12/61		205	
4/6/59		203		8/17/61		203	
4/26/59		203		9/29/61		203	
4/17/59		203		10/2/61		203	
5/6/59		203		11/10/61		204	
5/17/59		203		12/30/61		204	
5/26/59		203		2/18/62		204	
6/7/59		202		4/17/62		204	
6/22/59		202		7/23/62		205	
7/1/59		202		5/30/62		205	
7/13/59		202		10/20/62		206	
7/25/59		202		9/19/62		206	
8/10/59		202		1/1/63		207	
8/24/59		202		1/24/63		207	
9/6/59		203		2/19/63		208	
9/21/59		203		2/27/63		207	
10/3/59		203		3/17/63		206	
10/16/59		203		3/28/63		205	
12/13/59		204		4/4/63		206	
12/22/59		206		4/24/63		201	
12/27/59		206		5/3/63		198	
1/3/60		205		5/11/63		189	
1/10/60		204		5/23/63		144	
1/19/60		203		5/27/63		146	
2/28/60		204		5/29/63		209	
3/3/60		203		9/15/63		208	
4/22/60		203		9/18/63		207	
4/26/60		201		9/25/63		209	
5/2/60		201		1/11/64		210	
6/4/60		200		1/13/64		211	
6/10/60		202		1/19/64		209	
6/15/60		203		1/24/64		209	
12/12/60		203		2/1/64		211	
12/16/60		203		2/4/64		211	
12/20/60		204		2/9/64		208	
2/5/61		204		2/15/64		211	
2/8/61		203		2/22/64		211	
2/14/61		202		3/4/64		227	
3/24/61		203		3/12/64		210	
3/29/61		205		3/20/64		211	
4/4/61		205		4/7/64		209	
4/10/61		203		4/12/64		211	
4/15/61		201		4/20/64		208	
4/19/61		203		10/13/64		210	
4/24/61		204		10/19/64		210	
8/2/61		204		10/22/64		210	
8/7/61		205		10/25/64		211	
8/10/61		207		11/27/64		212	

Data obtained from RHO-CD-1172.

Historical High or Only Temperature Data Tank 241-SX-101							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
5/24/54		70		8/4/54		150	
5/25/54		70		8/5/54		152	
5/26/54		70		8/6/54		151	
5/27/54		65		8/9/54		151	
5/28/54		66		8/10/54		157	
5/29/54		75		8/11/54		157	
5/30/54		70		8/12/54		157	
5/31/54		70		8/13/54		158	
6/1/54		70		8/14/54		160	
6/2/54		70		8/15/54		160	
6/3/54		75		8/16/54		160	
6/4/54		70		8/17/54		160	
6/5/54		70		8/18/54		160	
6/7/54		73		8/19/54		163	
6/8/54		74		8/20/54		167	
6/9/54		75		8/21/54		168	
6/10/54		77		8/22/54		167	
6/11/54		75		8/23/54		169	
6/14/54		77		8/24/54		169	
6/15/54		77		8/25/54		172	
6/16/54		78		8/26/54		170	
6/17/54		78		8/27/54		170	
6/18/54		78		8/28/54		175	
6/19/54		80		8/30/54		169	
6/21/54		82		8/31/54		165	
6/22/54		82		9/1/54		174	
6/23/54		85		9/2/54		172	
6/24/54		85		9/3/54		175	
6/25/54		86		9/4/54		175	
6/26/54		87		9/20/54		190	
6/27/54		88		9/21/54		193	
6/28/54		87		9/22/54		193	
6/29/54		87		9/23/54		193	
6/30/54		87		9/24/54		193	
7/1/54		91		9/25/54		193	
7/2/54		84		9/26/54		198	
7/3/54		88		9/27/54		199	
7/5/54		90		9/28/54		201	
7/6/54		90		9/29/54		200	
7/7/54		92		9/30/54		201	
7/8/54		95		10/1/54		201	
7/9/54		95		10/2/54		202	
7/10/54		95		10/4/54		205	
7/11/54		92		10/5/54		206	
7/12/54		91		10/6/54		207	
7/13/54		91		10/7/54		208	
7/14/54		92		10/8/54		208	
7/15/54		95		10/9/54		206	
7/16/54		100		10/10/54		207	
7/19/54		100		10/11/54		208	
7/20/54		105		10/12/54		209	
7/21/54		100		10/13/54		208	
7/22/54		102		10/14/54		208	
7/23/54		145		10/15/54		208	
7/26/54		145		10/16/54		210	
7/27/54		146		10/17/54		210	
7/28/54		147		10/18/54		209	
7/29/54		147		10/19/54		208	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Temperature Data							
Tank 241-SX-101							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
10/20/54		211		12/28/54		213	
10/21/54		211		12/29/54		218	
10/22/54		211		2/28/58		306	
10/25/54		211		3/31/58		297	
10/26/54		211		4/30/58		279	
10/27/54		210		5/31/58		237	
10/28/54		210		6/30/58		285	
10/29/54		210		7/31/58		293	
10/30/54		208		8/31/58		304	
10/31/54		208		9/2/58		300	
11/1/54		210		9/30/58		306	
11/2/54		210		10/31/58		308	
11/3/54		210		10/31/58		308	
11/4/54		210		11/30/58		309	
11/5/54		211		12/31/58		205	
11/6/54		205		1/31/59		205	
11/7/54		205		2/28/59		204	
11/8/54		210		3/31/59		203	
11/9/54		211		4/30/59		202	
11/10/54		211		5/31/59		202	
11/11/54		211		6/30/59		203	
11/12/54		211		7/31/59		202	
11/13/54		210		8/31/59		202	
11/14/54		210		9/30/59		201	
11/15/54		210		10/31/59		202	
11/17/54		210		11/30/59		203	
11/18/54		211		12/31/59		202	
11/19/54		210		1/31/60		200	
11/22/54		210		2/29/60		202	
11/23/54		211		3/31/60		202	
11/24/54		213		4/30/60		201	
11/25/54		213		5/31/60		201	
11/26/54		213		6/30/60		202	
11/28/54		212		7/31/60		201	
11/29/54		210		9/30/60		202	
11/30/54		212		10/31/60		202	
12/1/54		214		11/30/60		202	
12/2/54		215		12/31/60		204	
12/3/54		212		1/1/62		205	
12/4/54		213		1/1/62		205	
12/5/54		212		12/31/62		205	
12/6/54		211		1/3/63		205	
12/8/54		214		7/1/63		207	
12/9/54		210		12/31/63		208	
12/12/54		215		1/1/64		208	
12/13/54		214		6/30/64		208	
12/15/54		210		7/1/64		207	
12/16/54		212		1/14/65		210	
12/17/54		213		7/26/65		210	
12/20/54		214		10/20/65		110	
12/27/54		213					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-102							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
7/31/56		93		11/6/56		91	
8/7/56		92		11/8/56		91	
8/11/56		93		11/10/56		91	
8/13/56		94		11/11/56		91	
8/16/56		94		11/14/56		91	
8/18/56		94		11/16/56		91	
8/20/56		95		11/18/56		91	
8/22/56		95		11/22/56		91	
8/25/56		95		11/26/56		92	
8/26/56		95		12/4/56		92	
8/27/56		94		12/11/56		93	
8/29/56		93		12/17/56		93	
8/31/56		92		12/22/56		92	
8/31/56		92		12/26/56		92	
9/1/56		90		12/30/56		92	
9/1/56		91		1/4/57		150	
9/1/56		89		1/18/57		149	
9/2/56		88		2/5/57		149	
9/3/56		87		3/5/57		147	
9/3/56		86		3/18/57		146	
9/5/56		87		4/8/57		144	
9/7/56		87		4/22/57		141	
9/7/56		88		5/15/57		139	
9/8/56		89		6/5/57		136	
9/9/56		90		6/16/57		136	
9/9/56		91		7/16/57		135	
9/10/56		92		7/26/57		135	
9/11/56		93		7/31/57		139	
9/12/56		94		8/7/57		135	
9/15/56		94		8/16/57		135	
9/17/56		93		8/28/57		135	
9/19/56		93		10/17/57		136	
9/22/56		92		10/22/57		139	
9/25/56		93		10/28/57		137	
9/26/56		92		11/21/57		138	
9/29/56		92		11/28/57		141	
9/30/56		91		12/13/57		136	
10/1/56		91		1/7/58		132	
10/5/56		91		1/17/58		135	
10/6/56		92		2/4/58		133	
10/8/56		92		2/10/58		154	
10/10/56		92		2/19/58		178	
10/11/56		93		2/21/58		152	
10/14/56		92		2/23/58		132	
10/15/56		92		2/26/58		130	
10/16/56		91		3/5/58		130	
10/17/56		91		3/28/58		130	
10/20/56		91		4/5/58		146	
10/22/56		92		4/7/58		129	
10/24/56		93		4/22/58		130	
10/30/56		93		4/27/58		126	
10/31/56		93		5/17/58		124	
11/2/56		93		5/29/58		122	
11/3/56		92		6/9/58		126	
11/4/56		91		6/13/58		136	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-102							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
6/23/58		147		8/20/59		104	
7/10/58		147		8/28/59		104	
7/18/58		119		8/30/59		91	
7/21/58		116		9/5/59		107	
7/25/58		117		9/7/59		95	
7/28/58		119		9/22/59		107	
8/1/58		140		10/1/59		96	
8/3/58		120		10/7/59		107	
8/7/58		120		10/15/59		96	
8/10/58		121		10/27/59		109	
8/18/58		122		11/7/59		108	
8/27/58		123		11/24/59		107	
9/13/58		120		12/4/59		107	
9/25/58		124		12/9/59		100	
10/15/58		125		12/12/59		108	
10/27/58		125		12/22/59		104	
11/2/58		129		12/29/59		101	
11/8/58		125		12/31/59		105	
11/24/58		124		1/9/60		106	
11/29/58		124		1/13/60		101	
12/7/58		121		1/23/60		100	
12/23/58		121		1/30/60		100	
1/18/59		121		1/30/60		106	
1/23/59		118		2/5/60		105	
1/25/59		118		2/10/60		103	
2/15/59		118		2/11/60		99	
2/23/59		117		2/23/60		98	
3/3/59		116		2/27/60		103	
3/18/59		112		3/2/60		97	
3/25/59		111		3/15/60		97	
4/4/59		103		3/30/60		96	
4/5/59		111		4/10/60		95	
4/18/59		112		4/22/60		95	
5/6/59		100		5/6/60		95	
5/9/59		107		5/18/60		94	
5/14/59		107		5/30/60		94	
5/16/59		98		6/4/60		94	
5/23/59		97		6/10/60		97	
5/28/59		97		6/14/60		100	
6/4/59		96		6/16/60		108	
6/8/59		108		6/19/60		113	
6/14/59		96		6/23/60		115	
6/16/59		107		7/3/60		116	
6/25/59		106		7/10/60		115	
6/28/59		96		7/15/60		113	
7/6/59		92		7/24/60		114	
7/12/59		106		8/2/60		115	
7/12/59		93		8/9/60		112	
7/18/59		93		9/4/60		109	
7/26/59		93		9/10/60		115	
7/28/59		102		9/14/60		115	
8/2/59		157		10/3/60		113	
8/7/59		92		10/11/60		113	
8/9/59		103		10/27/60		112	
8/18/59		92		10/3/61		111	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-102							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
10/10/61		111		4/6/63		149	
10/17/61		111		4/12/63		156	
10/25/61		111		4/18/63		148	
11/3/61		113		4/30/63		145	
11/13/61		113		5/5/63		142	
11/22/61		115		5/18/63		139	
12/3/61		114		5/28/63		137	
12/11/61		114		6/8/63		136	
12/23/61		114		6/18/63		136	
1/9/62		114		6/30/63		135	
1/17/62		113		7/5/63		135	
1/27/62		112		7/9/63		131	
2/7/62		111		7/11/63		128	
2/16/62		110		8/20/63		119	
2/26/62		109		8/29/63		124	
3/7/62		109		9/5/63		119	
3/15/62		104		9/15/63		116	
3/22/62		101		10/16/63		117	
3/30/62		98		11/1/63		116	
4/6/62		97		11/24/63		117	
4/11/62		98		12/20/63		117	
4/21/62		119		12/26/63		115	
4/27/62		102		1/5/64		114	
4/27/62		100		1/15/64		113	
5/2/62		98		2/7/64		111	
5/11/62		98		2/28/64		108	
5/19/62		139		4/22/64		103	
5/25/62		144		4/30/64		103	
6/2/62		139		5/8/64		100	
6/24/62		136		6/17/64		102	
7/15/62		134		7/4/64		157	
8/19/62		130		7/15/64		154	
9/12/62		132		7/22/64		151	
10/4/62		134		8/7/64		152	
10/24/62		135		8/19/64		149	
11/9/62		136		8/23/64		150	
12/1/62		142		8/30/64		153	
12/7/62		141		9/12/64		153	
12/13/62		161		9/21/64		153	
12/21/62		178		9/30/64		152	
1/4/63		166		10/17/64		151	
1/26/63		161		11/8/64		151	
2/21/63		157		11/21/64		150	
3/14/63		153		11/27/64		150	

Data obtained from RHO-CD-1172.

Historical High or Only Temperature Data							
Tank 241-SX-102							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
9/20/54		122		11/23/54		151	
9/21/54		126		11/24/54		153	
9/22/54		126		11/25/54		151	
9/23/54		129		11/26/54		151	
9/24/54		129		11/27/54		150	
9/25/54		130		11/28/54		152	
9/26/54		146		11/29/54		150	
9/27/54		152		11/30/54		151	
9/28/54		158		12/1/54		155	
9/29/54		159		12/2/54		155	
9/30/54		161		12/3/54		155	
10/1/54		161		12/4/54		152	
10/2/54		160		12/5/54		102	
10/3/54		161		12/6/54		152	
10/4/54		161		12/8/54		152	
10/5/54		161		12/9/54		152	
10/6/54		161		12/12/54		155	
10/7/54		158		12/13/54		152	
10/8/54		157		12/15/54		154	
10/9/54		156		12/16/54		155	
10/10/54		155		12/17/54		152	
10/11/54		161		12/20/54		152	
10/12/54		158		12/22/54		152	
10/13/54		156		12/27/54		152	
10/14/54		156		12/28/54		152	
10/15/54		156		12/29/54		152	
10/16/54		155		12/30/54		152	
10/17/54		155		12/31/54		155	
10/18/54		158		3/31/58		127	
10/19/54		155		4/30/58		125	
10/20/54		155		5/31/58		133	
10/21/54		154		6/30/58		147	
10/22/54		151		7/31/58		120	
10/23/54		152		8/31/58		122	
10/24/54		152		9/2/58		123	
10/25/54		152		9/30/58		121	
10/26/54		152		10/31/58		123	
10/27/54		150		10/31/58		123	
10/28/54		150		11/30/58		124	
10/29/54		152		12/31/58		120	
10/30/54		150		1/31/59		117	
10/31/54		150		2/28/59		117	
11/1/54		150		3/31/59		107	
11/2/54		151		4/30/59		107	
11/3/54		151		5/31/59		107	
11/4/54		150		6/30/59		105	
11/5/54		151		7/31/59		102	
11/6/54		150		8/31/59		106	
11/7/54		155		9/30/59		105	
11/8/54		151		10/31/59		105	
11/9/54		151		11/30/59		104	
11/10/54		152		12/31/59		103	
11/11/54		151		1/31/60		104	
11/12/54		150		2/29/60		102	
11/13/54		150		3/31/60		102	
11/14/54		150		4/30/60		96	
11/15/54		151		5/31/60		95	
11/16/54		151		6/30/60		93	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Temperature Data								
Tank 241-SX-102								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
7/25/62		132			6/30/64		158	
12/31/62		176			7/1/64		158	
1/3/63		176			1/14/65		150	
7/1/63		138			7/26/65		143	
12/31/63		118			10/20/65		142	
1/1/64		118						

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-103							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/1/56		96		7/24/58		99	
8/2/56		95		7/26/58		109	
8/4/56		94		8/1/58		150	
8/5/56		93		8/8/58		162	
8/6/56		92		8/14/58		170	
8/7/56		91		8/31/58		188	
8/7/56		91		9/15/58		195	
8/8/56		90		9/23/58		199	
8/9/56		90		10/2/58		200	
8/16/56		89		11/1/58		202	
8/21/56		89		11/5/58		204	
8/27/56		89		12/6/58		201	
8/31/56		89		1/5/59		202	
9/5/56		89		1/14/59		195	
9/11/56		88		1/20/59		198	
9/17/56		90		1/27/59		196	
9/22/56		90		2/16/59		197	
9/29/56		90		2/25/59		193	
10/3/56		90		4/4/59		172	
10/9/56		90		4/28/59		193	
10/16/56		90		5/5/59		185	
10/25/56		89		5/10/59		169	
11/1/56		89		5/12/59		162	
11/9/56		89		5/17/59		191	
11/16/56		89		5/19/59		162	
11/21/56		88		5/23/59		163	
11/22/56		87		5/28/59		162	
11/24/56		84		5/29/59		190	
11/26/56		83		6/3/59		188	
11/27/56		81		6/4/59		162	
11/29/56		82		6/23/59		187	
11/30/56		84		6/26/59		159	
12/2/56		86		6/28/59		189	
12/3/56		88		7/2/59		158	
12/4/56		89		7/8/59		185	
12/6/56		90		7/9/59		157	
12/8/56		91		7/14/59		157	
12/14/56		90		7/31/59		182	
12/19/56		90		8/14/59		154	
12/27/56		90		10/8/59		182	
12/28/56		90		10/15/59		154	
1/8/58		109		11/7/59		154	
1/13/58		182		12/13/59		155	
1/22/58		107		1/3/60		155	
3/19/58		106		1/9/60		152	
3/28/58		101		1/15/60		154	
4/2/58		105		1/27/60		176	
4/23/58		105		2/1/60		176	
5/1/58		100		2/14/60		153	
5/16/58		99		2/17/60		171	
5/24/58		100		2/27/60		210	
5/31/58		98		3/2/60		182	
6/13/58		98		3/31/60		150	
7/1/58		99		4/29/60		148	
7/17/58		100		5/6/60		144	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-103							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
5/15/60		146		1/19/63		170	
6/25/60		139		2/13/63		169	
7/2/60		138		2/20/63		169	
7/14/60		131		3/2/63		168	
8/3/60		129		3/14/63		166	
8/30/60		126		3/23/63		168	
9/5/60		127		3/30/63		166	
9/22/60		135		4/30/63		163	
9/27/60		133		5/5/63		162	
10/7/60		148		5/30/63		157	
10/14/60		161		7/11/63		157	
10/19/60		163		8/23/63		156	
10/29/60		159		8/30/63		152	
10/2/61		164		10/2/63		151	
10/22/61		164		10/26/63		134	
11/16/61		165		11/27/63		130	
11/22/61		173		12/27/63		127	
11/25/61		173		1/24/64		124	
12/7/61		172		2/20/64		119	
12/13/61		178		3/13/64		116	
12/17/61		177		3/22/64		116	
12/21/61		173		3/24/64		137	
1/21/62		173		3/26/64		157	
3/2/62		172		3/28/64		175	
3/9/62		169		4/10/64		168	
4/9/62		166		4/24/64		163	
5/9/62		165		4/29/64		157	
5/18/62		158		5/12/64		155	
5/25/62		185		5/26/64		154	
6/14/62		175		7/3/64		152	
8/10/62		175		7/21/64		151	
10/10/62		173		8/16/64		151	
12/12/62		171		10/4/64		150	
12/28/62		170		11/28/64		150	

Data obtained from RHO-CD-1172.

Historical High or Only Waste Temperature Data							
Tank 241-SX-103							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
11/21/54		100		5/31/58		100	
11/22/54		105		6/30/58		100	
11/23/54		110		7/31/58		150	
11/24/54		116		8/31/58		185	
11/25/54		120		9/2/58		190	
11/26/54		125		9/30/58		199	
11/27/54		132		10/31/58		202	
11/28/54		143		10/31/58		202	
11/29/54		145		11/30/58		201	
11/30/54		145		12/31/58		199	
12/1/54		146		1/31/59		195	
12/2/54		149		2/28/59		195	
12/3/54		148		3/31/59		192	
12/4/54		149		4/30/59		192	
12/5/54		148		5/31/59		186	
12/6/54		143		6/30/59		189	
12/7/54		144		7/31/59		181	
12/8/54		144		8/31/59		182	
12/9/54		147		9/30/59		182	
12/10/54		144		10/31/59		178	
12/12/54		143		11/30/59		177	
12/13/54		144		12/31/59		176	
12/14/54		142		1/31/60		173	
12/15/54		140		2/29/60		171	
12/16/54		140		3/31/60		171	
12/17/54		140		4/30/60		161	
12/18/54		140		5/31/60		157	
12/19/54		140		6/30/60		155	
12/20/54		144		7/31/60		152	
12/21/54		139		9/30/60		154	
12/22/54		138		10/31/60		155	
12/23/54		138		11/30/60		155	
12/24/54		135		12/31/60		155	
12/25/54		135		1/1/62		172	
12/26/54		135		7/25/62		175	
12/27/54		138		12/31/62		170	
12/28/54		136		1/3/63		170	
12/29/54		144		7/1/63		156	
12/30/54		144		12/31/63		132	
12/31/54		134		6/30/64		148	
1/1/55		135		1/1/64		132	
1/2/55		135		7/1/64		148	
2/28/58		105		1/14/65		150	
3/31/58		102		10/20/65		166	
4/30/58		100					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-104							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/1/56		296		10/27/57		276	
8/10/56		286		11/2/57		276	
8/19/56		284		11/10/57		268	
8/22/56		281		11/21/57		268	
8/30/56		286		11/26/57		276	
9/8/56		284		12/14/57		275	
9/16/56		280		1/9/58		273	
9/21/56		276		1/12/58		269	
9/29/56		276		1/20/58		269	
10/3/56		279		1/24/58		272	
10/10/56		277		1/27/58		270	
10/17/56		281		2/2/58		269	
10/26/56		289		2/10/58		269	
11/1/56		283		2/17/58		262	
11/8/56		285		3/17/58		261	
11/14/56		281		4/10/58		251	
11/28/56		294		4/22/58		260	
12/4/56		295		4/26/58		253	
12/8/56		294		5/4/58		253	
12/12/56		291		5/8/58		252	
12/18/56		290		5/13/58		251	
12/26/56		298		5/24/58		247	
12/31/56		301		5/31/58		246	
1/16/57		301		6/1/58		243	
3/6/57		300		6/11/58		244	
3/30/57		290		6/17/58		239	
4/8/57		291		7/2/58		241	
4/13/57		294		7/7/58		238	
4/18/57		293		7/18/58		239	
4/28/57		290		7/27/58		234	
5/5/57		287		8/3/58		232	
5/13/57		285		8/23/58		232	
5/18/57		286		8/28/58		239	
5/23/57		287		9/2/58		240	
5/29/57		287		9/5/58		239	
6/1/57		283		9/8/58		237	
6/6/57		279		9/12/58		233	
6/11/57		283		9/19/58		236	
6/20/57		279		9/22/58		236	
6/25/57		282		9/30/58		233	
7/22/57		271		10/7/58		235	
7/30/57		271		10/15/58		231	
8/4/57		274		11/6/58		236	
8/7/57		275		11/12/58		233	
8/12/57		274		11/20/58		234	
8/17/57		271		11/24/58		232	
8/23/57		271		12/3/58		235	
8/27/57		275		12/10/58		234	
9/6/57		275		12/20/58		238	
9/10/57		270		1/25/59		248	
9/17/57		276		2/17/59		258	
9/21/57		272		2/24/59		262	
10/2/57		271		3/4/59		260	
10/8/57		276		3/18/59		262	
10/17/57		272		3/29/59		261	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-104							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
4/22/59		254		12/5/60		231	
4/28/59		256		12/10/60		233	
5/8/59		252		12/23/60		234	
5/25/59		253		12/28/60		232	
6/7/59		251		12/30/60		232	
6/22/59		250		1/3/61		235	
6/30/59		247		1/7/61		235	
7/7/59		249		1/9/61		230	
7/17/59		245		1/18/61		227	
8/4/59		242		1/25/61		231	
8/19/59		242		2/2/61		228	
9/4/59		249		2/15/61		228	
9/8/59		243		2/20/61		225	
9/11/59		243		3/4/61		225	
9/16/59		247		3/21/61		225	
9/29/59		246		3/25/61		222	
10/8/59		250		3/30/61		222	
10/15/59		246		4/12/61		222	
10/26/59		247		4/15/61		223	
11/4/59		251		4/20/61		226	
11/13/59		247		4/25/61		222	
12/2/59		247		4/28/61		220	
12/9/59		251		5/11/61		220	
12/17/59		248		5/15/61		217	
12/22/59		251		5/18/61		215	
12/29/59		249		5/30/61		216	
1/24/60		251		6/4/61		215	
2/27/60		247		7/10/61		207	
3/3/60		248		7/16/61		207	
3/13/60		244		9/29/61		207	
3/20/60		236		10/2/61		206	
3/21/60		235		11/23/61		206	
3/25/60		235		1/31/62		206	
3/28/60		235		2/7/62		215	
3/30/60		238		2/15/62		207	
4/7/60		235		3/1/62		208	
4/14/60		240		3/15/62		208	
4/25/60		239		4/3/62		209	
4/29/60		235		5/11/62		209	
5/23/60		237		6/15/62		209	
6/3/60		228		8/2/62		210	
6/8/60		232		8/31/62		209	
6/18/60		232		11/21/62		210	
6/23/60		228		12/31/62		210	
6/29/60		231		2/10/63		210	
7/10/60		230		3/11/63		210	
7/15/60		226		4/23/63		208	
8/17/60		227		5/3/63		206	
8/22/60		230		5/17/63		207	
8/29/60		230		6/5/63		206	
9/2/60		228		7/8/63		206	
9/28/60		228		8/19/63		207	
10/5/60		230		9/21/63		206	
10/17/60		228		10/4/63		208	
10/19/60		230		11/22/63		208	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-104							
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)
1/6/64		206			7/18/64		201
1/12/64		209			7/25/64		192
1/20/64		205			7/30/64		192
1/27/64		207			8/3/64		199
2/2/64		203			8/21/64		201
2/14/64		202			9/22/64		202
2/24/64		202			10/22/64		203
3/20/64		201			10/28/64		204
3/24/64		199			11/28/64		206
4/25/64		200					

Data obtained from RHO-CD-1172.

Historical High or Only Waste Temperature Data							
Tank 241-SX-104							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		263		12/31/59		245	
3/31/58		261		1/31/60		247	
4/30/58		224		2/29/60		248	
5/31/58		203		3/31/60		248	
6/30/58		239		4/30/60		234	
7/31/58		233		5/31/60		233	
8/31/58		240		6/30/60		230	
9/2/58		240		7/31/60		225	
9/30/58		232		9/30/60		227	
10/31/58		234		10/31/60		230	
10/31/58		234		11/30/60		231	
11/30/58		231		12/31/60		231	
12/31/58		239		1/1/62		207	
1/31/59		250		7/25/62		207	
2/28/59		255		12/31/62		209	
3/31/59		257		1/3/63		209	
4/30/59		256		7/1/63		206	
5/31/59		246		12/31/63		208	
6/30/59		244		6/30/64		199	
7/31/59		242		1/1/64		208	
8/31/59		248		7/1/64		199	
9/30/59		244		1/14/65		204	
10/31/59		245		10/20/65		211	
11/30/59		244					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-105							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
7/30/56		102		4/16/58		132	
8/1/56		101		4/22/58		135	
8/8/56		101		5/1/58		129	
8/15/56		101		5/21/58		126	
8/22/56		101		5/27/58		124	
8/27/56		101		6/7/58		126	
9/5/56		101		6/17/58		123	
9/13/56		101		6/25/58		126	
9/20/56		101		7/5/58		123	
9/25/56		101		8/3/58		125	
9/29/56		101		8/3/58		123	
10/4/56		101		8/13/58		123	
10/10/56		102		8/28/58		127	
11/12/56		104		9/5/58		126	
11/21/56		101		10/8/58		132	
12/30/56		103		10/15/58		132	
1/2/57		165		10/23/58		133	
1/8/57		155		11/1/58		134	
1/11/57		155		11/9/58		134	
1/27/57		158		11/21/58		135	
2/1/57		155		12/2/58		135	
2/21/57		155		12/9/58		135	
3/7/57		160		12/18/58		138	
3/15/57		151		1/8/59		136	
4/30/57		143		1/29/59		137	
5/25/57		133		2/23/59		137	
6/8/57		132		3/6/59		134	
6/10/57		138		3/25/59		134	
7/5/57		138		4/2/59		130	
7/15/57		130		4/3/59		120	
8/7/57		130		4/14/59		130	
8/19/57		147		4/17/59		130	
8/24/57		131		4/22/59		123	
9/9/57		131		4/28/59		122	
9/20/57		134		5/4/59		126	
9/28/57		131		5/5/59		130	
10/6/57		135		5/10/59		122	
10/25/57		135		5/10/59		128	
11/8/57		136		5/17/59		126	
11/23/57		136		5/25/59		124	
12/4/57		136		5/25/59		127	
12/14/57		138		6/2/59		121	
12/26/57		138		6/9/59		121	
1/5/58		136		6/12/59		123	
1/13/58		139		6/18/59		125	
1/20/58		139		6/22/59		126	
1/30/58		138		6/24/59		121	
2/5/58		136		7/5/59		117	
2/11/58		134		7/9/59		123	
2/18/58		135		7/18/59		121	
3/3/58		134		7/23/59		123	
3/12/58		130		8/2/59		123	
3/19/58		132		8/13/59		122	
3/30/58		134		8/29/59		122	
4/7/58		134		8/30/59		115	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-105							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
9/4/59		128		1/4/62		124	
9/5/59		116		1/11/62		128	
9/10/59		123		2/16/62		124	
9/15/59		116		2/27/62		126	
9/21/59		124		3/15/62		118	
9/26/59		149		5/11/62		116	
9/27/59		120		5/15/62		114	
10/5/59		129		5/22/62		118	
10/10/59		121		5/30/62		114	
10/18/59		117		6/14/62		112	
10/22/59		128		6/28/62		109	
10/25/59		121		7/5/62		111	
10/30/59		119		8/2/62		107	
11/5/59		135		8/9/62		110	
11/23/59		126		8/16/62		110	
12/16/59		137		8/31/62		110	
12/23/59		134		9/15/62		117	
12/27/59		134		10/2/62		113	
1/1/60		126		10/11/62		117	
1/7/60		138		10/17/62		117	
1/15/60		131		10/25/62		115	
1/24/60		137		11/28/62		115	
2/9/60		132		12/5/62		118	
2/28/60		135		12/26/62		120	
3/16/60		127		1/4/63		115	
3/23/60		123		1/10/63		120	
4/23/60		126		1/30/63		122	
4/29/60		121		2/6/63		117	
5/13/60		121		2/14/63		118	
5/23/60		124		2/21/63		113	
5/25/60		124		2/28/63		115	
5/29/60		119		3/7/63		112	
6/12/60		123		3/31/63		112	
8/12/60		113		4/6/63		106	
8/16/60		113		4/11/63		107	
8/20/60		113		4/19/63		109	
8/25/60		112		4/24/63		109	
9/1/60		112		5/1/63		109	
9/8/60		112		5/5/63		105	
9/13/60		112		5/9/63		109	
9/17/60		113		5/15/63		105	
10/28/60		120		5/24/63		105	
10/4/61		116		6/3/63		110	
10/8/61		119		6/13/63		110	
10/12/61		121		6/20/63		113	
10/20/61		122		7/9/63		113	
10/25/61		124		7/29/63		113	
10/29/61		124		8/4/63		112	
11/4/61		124		8/8/63		113	
11/10/61		125		9/1/63		114	
11/14/61		125		9/8/63		116	
11/20/61		125		9/12/63		120	
11/23/61		125		9/19/63		118	
11/29/61		125		10/6/63		119	
12/4/61		125		10/18/63		120	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-105							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
12/10/61		126		5/17/68		185	
12/15/61		127		5/21/68		185	
12/20/61		126		5/23/68		186	
12/25/61		126		5/25/68		186	
12/30/61		125		5/29/68		187	
11/27/63		123		6/1/68		187	
12/5/63		125		6/4/68		186	
12/12/63		125		6/7/68		186	
12/19/63		124		6/8/68		186	
12/22/63		159		10/30/63		124	
12/28/63		227		11/3/63		124	
12/30/63		171		11/8/63		124	
1/1/64		124		11/12/63		125	
1/11/64		167		11/18/63		123	
1/21/64		122		9/15/65		115	
3/18/64		115		9/20/65		112	
3/28/64		116		9/23/65		112	
4/1/64		114		9/27/65		113	
4/22/64		117		10/1/65		113	
4/30/64		112		10/4/65		114	
6/18/64		108		10/22/65		120	
6/26/64		105		10/26/65		120	
7/3/64		114		11/7/65		120	
7/9/64		111		11/11/65		120	
8/19/64		111		11/16/65		119	
8/26/64		116		11/18/65		118	
9/1/64		112		11/23/65		111	
10/12/64		116		11/25/65		113	
10/26/64		120		11/27/65		118	
11/13/64		114		11/29/65		120	
11/20/64		125		12/8/65		119	
11/24/64		124		12/14/65		121	
3/25/65		120		12/29/65		120	
3/28/65		118		7/9/67		193	
4/6/65		118		7/23/67		192	
4/15/65		117		8/4/67		190	
4/22/65		119		8/19/67		187	
4/27/65		116		8/25/67		190	
5/6/65		121		9/5/67		189	
5/13/65		115		9/28/67		190	
5/19/65		118		10/9/67		196	
5/21/65		118		10/21/67		196	
6/4/65		102		10/29/67		198	
6/14/65		103		11/23/67		199	
6/20/65		101		12/17/67		201	
7/6/65		109		12/20/67		201	
7/11/65		110		12/22/67		203	
7/21/65		116		12/29/67		203	
7/27/65		112		1/3/68		204	
8/3/65		112		1/16/68		200	
8/12/65		106		1/23/68		201	
8/19/65		107		1/27/68		200	
8/23/65		114		2/1/68		198	
8/29/65		111		2/9/68		197	
9/4/65		110		2/20/68		195	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-105							
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)
4/14/68		192			2/29/68		194
4/20/68		189			3/2/68		194
4/27/68		187			3/4/68		195
4/30/68		186			3/15/68		197
5/2/68		185			3/24/68		191
5/6/68		185			4/5/68		190
5/9/68		184			4/6/68		191
5/11/68		184			4/9/68		192
5/14/68		184			4/12/68		193

Data obtained from RHO-CD-1172.

Historical High or Only Temperature Data							
Tank 241-SX-105							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		138		12/31/59		132	
3/31/58		131		1/31/60		134	
4/30/58		127		2/29/60		126	
5/31/58		125		3/31/60		131	
6/30/58		126		4/30/60		122	
7/31/58		124		5/31/60		120	
8/31/58		129		6/30/60		117	
9/2/58		125		7/31/60		113	
9/30/58		127		9/30/60		118	
10/31/58		132		10/31/60		125	
10/31/58		132		11/30/60		126	
11/30/58		134		12/31/60		131	
12/31/58		137		1/1/62		127	
1/31/59		138		7/25/62		111	
2/28/59		136		12/31/62		116	
3/31/59		128		1/3/63		116	
4/30/59		129		7/1/63		112	
5/31/59		119		12/31/63		127	
6/30/59		120		6/30/64		115	
7/31/59		120		1/1/64		127	
8/31/59		128		7/1/64		115	
9/30/59		125		7/26/65		117	
10/31/59		130		10/20/65		114	
11/30/59		134					

Data obtained from HW-83906 and Waste Status Summary Report.

Historical Vapor Space Temperature Data							
Tank SX-106							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/4/56		186		5/18/59		167	
8/27/56		181		5/30/59		169	
9/2/56		184		6/6/59		185	
10/1/56		179		6/13/59		170	
10/4/56		180		7/4/59		169	
11/2/56		179		7/25/59		165	
12/5/56		178		8/8/59		172	
1/3/57		180		8/27/59		173	
1/6/57		177		9/5/59		178	
1/30/57		177		9/21/59		175	
2/3/57		179		9/26/59		175	
2/14/57		177		10/12/59		176	
2/20/57		181		10/27/59		175	
3/8/57		183		11/7/59		174	
3/26/57		171		12/10/59		176	
4/1/57		170		12/18/59		174	
5/17/57		168		2/28/60		177	
5/23/57		171		3/3/60		177	
6/3/57		171		3/19/60		172	
6/18/57		173		3/27/60		175	
6/26/57		170		4/6/60		173	
7/6/57		174		4/15/60		177	
9/5/57		174		5/12/60		176	
10/31/57		175		5/18/60		177	
11/23/57		181		5/26/60		175	
12/26/57		187		6/15/60		174	
1/19/58		186		6/22/60		172	
2/6/58		186		6/29/60		175	
2/23/58		185		7/2/60		175	
3/5/58		182		7/6/60		175	
3/22/58		183		7/14/60		175	
4/17/58		187		7/21/60		173	
4/28/58		184		7/25/60		173	
7/29/58		184		8/17/60		177	
8/2/58		184		8/21/60		176	
8/27/58		184		9/1/60		172	
9/2/58		187		9/11/60		172	
9/8/58		187		9/18/60		173	
9/16/58		189		10/27/60		173	
9/27/58		189		10/31/60		170	
10/3/58		188		11/18/60		174	
10/19/58		187		11/24/60		172	
11/4/58		186		12/23/60		171	
11/18/58		185		12/29/60		170	
12/3/58		183		1/3/61		170	
12/13/58		182		1/19/61		166	
12/25/58		179		1/28/61		164	
1/3/59		178		2/8/61		163	
1/12/59		177		2/15/61		161	
1/28/59		176		3/2/61		159	
2/11/59		175		3/10/61		159	
2/21/59		175		3/22/61		160	
3/12/59		174		3/30/61		157	
4/8/59		171		4/7/61		160	
5/2/59		168		5/14/61		160	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-106							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
5/19/61		157		4/20/63		171	
5/26/61		160		5/4/63		168	
6/9/61		160		5/18/63		168	
7/3/61		160		5/23/63		166	
7/13/61		158		6/1/63		166	
7/25/61		157		6/6/63		168	
8/3/61		156		6/16/63		171	
8/13/61		156		6/22/63		170	
8/21/61		159		7/1/63		169	
8/29/61		160		7/7/63		168	
9/2/61		161		7/13/63		169	
9/15/61		163		7/17/63		170	
9/22/61		171		8/5/63		169	
9/30/61		178		8/9/63		168	
10/2/61		180		8/24/63		175	
10/15/61		182		8/30/63		175	
10/24/61		183		9/12/63		181	
11/1/61		183		10/10/63		182	
11/8/61		183		10/14/63		184	
11/30/61		182		10/21/63		190	
12/17/61		181		10/24/63		181	
12/26/61		180		12/16/63		179	
1/1/62		177		12/20/63		178	
1/19/62		175		12/28/63		176	
1/25/62		173		1/5/64		174	
2/2/62		175		1/14/64		174	
2/22/62		178		1/23/64		174	
2/25/62		178		2/6/64		172	
3/3/62		177		2/25/64		171	
3/10/62		175		3/4/64		171	
3/18/62		175		3/15/64		169	
4/21/62		175		3/31/64		180	
4/29/62		177		4/5/64		181	
5/7/62		174		4/13/64		182	
5/16/62		176		5/12/64		182	
6/1/62		178		5/14/64		180	
6/12/62		177		5/25/64		179	
6/30/62		177		5/30/64		177	
7/16/62		177		6/8/64		177	
7/27/62		176		6/18/64		177	
8/4/62		175		6/25/64		175	
8/13/62		172		7/10/64		181	
8/16/62		171		7/17/64		184	
9/13/62		172		7/28/64		180	
10/11/62		172		8/23/64		180	
11/10/62		171		9/19/64		180	
11/18/62		174		10/16/64		181	
12/1/62		176		11/13/64		180	
12/26/62		176		11/26/64		180	
1/5/63		173		12/2/64		167	
1/23/63		174		12/7/64		168	
1/31/63		177		12/15/64		168	
2/20/63		175		12/23/64		169	
3/12/63		173		12/31/64		168	
3/27/63		172		1/4/65		168	

Data obtained from RHO-CD-1172.

Historical High or Only Temperature Data							
Tank 241-SX-106							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/23/54		55		11/15/54		133	
8/24/54		55		11/16/54		132	
8/25/54		55		11/17/54		133	
8/26/54		55		11/18/54		135	
8/27/54		55		11/19/54		135	
8/30/54		53		11/20/54		130	
8/31/54		54		11/21/54		134	
9/1/54		55		11/22/54		136	
9/2/54		55		11/23/54		137	
9/3/54		54		11/24/54		136	
9/20/54		56		11/25/54		137	
9/21/54		56		11/26/54		138	
9/22/54		56		11/27/54		138	
9/23/54		56		11/28/54		137	
9/24/54		56		11/29/54		138	
9/25/54		56		11/30/54		140	
9/26/54		54		12/1/54		140	
9/27/54		57		12/2/54		141	
9/28/54		58		12/3/54		141	
9/29/54		58		12/4/54		142	
9/30/54		57		12/5/54		142	
10/1/54		57		12/6/54		143	
10/2/54		57		12/7/54		143	
10/4/54		58		12/8/54		143	
10/5/54		59		12/9/54		143	
10/6/54		59		12/10/54		143	
10/7/54		58		12/12/54		143	
10/8/54		58		12/13/54		143	
10/9/54		74		12/14/54		145	
10/10/54		79		12/15/54		142	
10/11/54		79		12/16/54		144	
10/12/54		83		12/17/54		143	
10/13/54		82		12/20/54		143	
10/14/54		80		12/21/54		144	
10/15/54		81		12/22/54		144	
10/16/54		85		12/23/54		144	
10/17/54		85		12/24/54		143	
10/18/54		85		12/25/54		144	
10/19/54		93		12/26/54		144	
10/20/54		94		12/27/54		144	
10/21/54		98		12/28/54		144	
10/22/54		94		12/29/54		143	
10/23/54		107		12/30/54		143	
10/25/54		112		12/31/54		143	
10/26/54		115		1/1/55		144	
10/27/54		115		1/2/55		143	
10/28/54		114		4/30/58		185	
10/29/54		115		5/31/58		184	
10/30/54		118		6/30/58		185	
10/31/54		117		7/31/58		185	
11/1/54		118		8/31/58		184	
11/2/54		120		9/2/58		187	
11/3/54		123		9/30/58		188	
11/4/54		125		10/31/58		187	
11/5/54		126		10/31/58		187	
11/6/54		128		12/31/58		175	
11/7/54		126		1/31/59		174	
11/8/54		127		2/28/59		173	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Temperature Data								
Tank 241-SX-106								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
9/30/59		177			11/30/60		173	
10/31/59		176			12/31/60		171	
11/30/59		173			1/1/62		181	
12/31/59		174			7/25/62		178	
1/31/60		175			12/31/62		174	
2/29/60		178			1/3/63		174	
3/31/60		178			7/1/63		169	
4/30/60		177			12/31/63		180	
5/31/60		174			1/1/64		180	
6/30/60		175			6/30/64		167	
7/31/60		175			7/1/64		167	
9/30/60		173			1/14/65		168	
10/31/60		173			10/20/65		177	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-107							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
7/31/56		254		2/16/58		352	
8/27/56		257		2/16/58		360	
9/5/56		265		2/18/58		334	
9/11/56		258		2/20/58		322	
10/14/56		257		2/22/58		317	
10/22/56		261		2/23/58		313	
10/27/56		261		2/28/58		312	
11/4/56		257		3/5/58		311	
11/10/56		257		3/8/58		307	
11/16/56		260		3/11/58		303	
12/13/56		264		3/15/58		298	
12/18/56		265		3/26/58		294	
12/22/56		260		5/5/58		306	
12/28/56		250		5/26/58		333	
12/30/56		247		6/8/58		334	
1/1/57		266		6/19/58		329	
1/10/57		265		7/1/58		315	
1/27/57		265		7/18/58		311	
2/3/57		260		7/23/58		307	
2/10/57		265		7/28/58		304	
2/17/57		266		8/1/58		297	
2/24/57		267		8/13/58		298	
3/6/57		266		8/19/58		299	
3/25/57		267		8/25/58		294	
3/31/57		269		8/30/58		293	
4/7/57		270		9/6/58		292	
4/16/57		270		9/13/58		290	
4/24/57		271		9/20/58		290	
5/5/57		273		9/28/58		290	
5/9/57		270		10/7/58		283	
5/16/57		273		10/12/58		284	
5/25/57		275		10/24/58		281	
6/4/57		271		11/9/58		267	
6/14/57		270		11/16/58		267	
6/24/57		269		11/23/58		267	
7/5/57		270		11/29/58		267	
7/9/57		270		12/4/58		265	
7/14/57		271		12/10/58		264	
7/26/57		275		12/27/58		265	
10/31/57		276		1/13/59		274	
11/10/57		283		1/21/59		271	
11/19/57		299		2/25/59		268	
11/24/57		291		3/6/59		272	
12/6/57		280		3/18/59		267	
12/11/57		274		5/19/59		266	
12/15/57		257		5/28/59		274	
12/26/57		257		6/5/59		283	
1/13/58		266		6/15/59		281	
1/16/58		304		6/23/59		270	
1/18/58		320		7/30/59		268	
1/23/58		335		9/19/59		266	
1/28/58		352		10/19/59		265	
1/30/58		360		12/9/59		263	
2/5/58		390		12/19/59		273	
2/12/58		390		12/26/59		286	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-107							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
1/4/60		293		1/2/62		244	
1/20/60		295		1/6/62		244	
2/2/60		289		1/12/62		244	
2/8/60		285		1/18/62		243	
2/26/60		272		1/30/62		242	
3/3/60		268		2/3/62		242	
3/11/60		266		2/10/62		242	
3/21/60		262		2/18/62		242	
3/31/60		258		2/24/62		242	
4/11/60		254		3/2/62		241	
4/26/60		249		3/9/62		241	
5/16/60		242		3/16/62		241	
5/26/60		239		3/25/62		241	
6/5/60		237		4/2/62		241	
6/21/60		234		4/9/62		241	
7/28/60		234		4/19/62		242	
9/2/60		234		4/25/62		241	
9/19/60		242		5/2/62		240	
10/8/60		254		5/8/62		241	
11/3/60		271		5/15/62		241	
11/17/60		271		5/24/62		242	
11/25/60		270		6/2/62		241	
11/30/60		271		6/20/62		241	
12/12/60		272		7/6/62		241	
12/28/60		273		7/12/62		243	
1/15/61		275		7/23/62		243	
2/8/61		273		8/2/62		243	
3/14/61		272		8/11/62		243	
4/11/61		271		8/19/62		243	
5/5/61		270		8/31/62		244	
5/16/61		270		9/5/62		244	
5/21/61		269		9/14/62		246	
6/23/61		269		9/28/62		245	
7/5/61		268		10/15/62		245	
7/13/61		266		10/27/62		245	
7/22/61		265		11/4/62		244	
8/2/61		265		11/12/62		244	
8/12/61		264		11/20/62		244	
8/20/61		263		11/27/62		243	
8/29/61		262		12/1/62		244	
9/9/61		261		12/7/62		245	
9/30/61		258		12/10/62		246	
10/8/61		256		12/17/62		246	
10/14/61		256		12/19/62		244	
10/20/61		254		12/22/62		241	
10/28/61		253		12/24/62		238	
11/4/61		251		12/27/62		234	
11/9/61		251		12/28/62		232	
11/16/61		250		12/28/62		229	
11/21/61		249		12/29/62		226	
11/28/61		248		12/30/62		223	
12/5/61		246		12/31/62		219	
12/13/61		246		12/31/62		218	
12/19/61		246		12/31/62		210	
12/24/61		245		1/1/63		214	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-107							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
1/1/63		207		11/27/64		298	
1/2/63		203		11/29/64		289	
1/3/63		200		12/8/64		290	
1/4/63		195		12/18/64		292	
1/7/63		192		12/24/64		294	
1/12/63		187		1/2/65		293	
1/15/63		183		1/11/65		297	
1/16/63		179		1/27/65		295	
1/22/63		188		2/7/65		290	
1/29/63		188		2/28/65		294	
2/5/63		214		3/9/65		291	
3/7/63		242		3/15/65		294	
3/31/63		244		3/23/65		287	
4/10/63		248		3/28/65		288	
4/20/63		249		4/6/65		282	
4/29/63		249		4/13/65		287	
1/7/64		261		4/27/65		286	
1/14/64		263		5/4/65		289	
1/29/64		258		5/10/65		287	
2/15/64		270		7/11/65		288	
3/4/64		273		7/21/65		283	
3/15/64		278		7/29/65		285	
3/27/64		271		11/5/65		279	
4/5/64		279		12/14/65		293	
4/11/64		273		12/19/65		294	
4/18/64		273		12/26/65		294	
4/30/64		278		1/8/66		298	
5/6/64		273		1/15/66		294	
5/16/64		276		1/18/66		294	
5/21/64		289		1/22/66		302	
5/22/64		292		1/27/66		307	
6/2/64		295		2/10/66		310	
6/10/64		289		3/6/66		307	
6/13/64		289		3/27/66		304	
6/16/64		294		4/20/66		299	
7/1/64		294		4/24/66		294	
7/9/64		293		4/28/66		289	
7/13/64		294		5/1/66		282	
7/19/64		294		5/3/66		276	
7/26/64		291		5/5/66		273	
8/3/64		290		5/7/66		273	
8/10/64		294		5/16/66		278	
8/19/64		297		5/21/66		277	
8/27/64		293		5/29/66		279	
8/31/64		294		6/27/66		274	
9/8/64		295		7/5/66		282	
9/17/64		288		7/18/66		280	
9/25/64		294		8/16/66		278	
10/6/64		295		8/29/66		277	
10/14/64		292		9/14/66		274	
10/20/64		294		1/24/67		276	
10/27/64		294		1/31/67		276	
11/4/64		290		2/9/67		276	
11/8/64		289		2/17/67		276	
11/18/64		295		2/25/67		278	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-107							
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)
3/6/67		279			1/3/68		286
3/18/67		280			1/25/68		284
3/29/67		283			2/1/68		284
4/15/67		286			2/6/68		284
4/23/67		285			2/14/68		284
5/7/67		286			2/21/68		284
5/21/67		287			2/28/68		284
6/4/67		287			3/9/68		281
6/23/67		288			3/16/68		280
7/12/67		289			3/23/68		279
7/26/67		290			4/2/68		278
8/4/67		291			4/10/68		277
8/11/67		291			4/16/68		276
8/21/67		291			4/26/68		276
8/31/67		290			5/5/68		276
9/22/67		290			5/13/68		276
10/16/67		289			5/21/68		276
10/31/67		288			5/29/68		276
11/26/67		288			6/4/68		276
12/12/67		288			6/9/68		273
12/23/67		287					

Data obtained from RHO-CD-1172.

Historical Average Temperature Data							
Tank 241-SX-107							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
Feb-58		280		Jul-59		250	
Mar-58		279		Aug-59		252	
Apr-58		273		Sep-59		250	
May-58		276		Oct-59		248	
Jun-58		308		Nov-59		247	
Jul-58		267		Dec-59		259	
Aug-58		263		Jan-60		248	
Sep-58		291		Feb-60		238	
Sep-58		266		Mar-60		227	
Oct-58		261		Apr-60		226	
Oct-58		261		May-60		221	
Nov-58		259		Jun-60		220	
Dec-58		257		Jul-60		228	
Jan-59		259		Sep-60		236	
Feb-59		252		Oct-60		246	
Mar-59		249		Nov-60		242	
Apr-59		252		Dec-60		243	
May-59		253		Jan-65		268	point not shown
Jun-59		254					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Temperature Data							
Tank 241-SX-107							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		310		12/31/59		289	
3/31/58		300		1/31/60		283	
4/30/58		296		2/29/60		263	
5/31/58		323		3/31/60		243	
6/30/58		310		4/30/60		234	
7/31/58		297		5/31/60		227	
8/31/58		290		6/30/60		225	
9/2/58		292		7/31/60		232	
9/30/58		290		9/30/60		250	
10/31/58		277		10/31/60		273	
10/31/58		277		11/30/60		271	
11/30/58		273		12/31/60		271	
12/31/58		266		1/1/62		245	
1/31/59		268		7/25/62		241	
2/28/59		260		12/31/62		180	
3/31/59		261		1/3/63		180	
4/30/59		265		7/1/63		245	
5/31/59		272		12/31/63		235	
6/30/59		272		6/30/64		230	
7/31/59		261		1/1/64		235	
8/31/59		261		7/1/64		230	
9/30/59		260		1/14/65		295	
10/31/59		256		7/26/65		285	
11/30/59		255		10/20/65		281	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-108							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/5/56		104		8/28/58		285	
8/10/56		104		9/2/58		289	
8/16/56		110		9/6/58		287	
8/23/56		102		9/17/58		310	
10/4/56		100		9/23/58		317	
10/11/56		105		10/2/58		308	
11/2/56		104		10/6/58		306	
12/1/56		103		10/14/58		296	
12/27/56		103		10/28/58		304	
1/2/57		259		11/6/58		301	
1/30/57		259		11/18/58		299	
2/14/57		265		11/26/58		294	
2/18/57		266		12/4/58		277	
3/29/57		268		12/13/58		259	
4/8/57		262		12/22/58		245	
4/17/57		268		1/5/59		234	
5/30/57		270		1/12/59		254	
6/4/57		251		1/19/59		274	
6/7/57		248		1/25/59		278	
6/14/57		269		2/2/59		275	
8/6/57		271		2/28/59		273	
8/22/57		265		3/24/59		279	
9/7/57		275		3/31/59		286	
10/1/57		276		4/7/59		289	
10/7/57		279		4/28/59		283	
10/13/57		275		5/17/59		284	
11/5/57		274		5/31/59		285	
11/23/57		280		6/9/59		284	
12/13/57		281		7/6/59		285	
12/30/57		286		7/16/59		277	
1/6/58		282		8/7/59		274	
1/18/58		289		8/30/59		272	
2/3/58		290		9/14/59		264	
2/8/58		294		9/29/59		257	
2/19/58		306		10/13/59		253	
3/12/58		281		10/27/59		254	
3/16/58		283		12/11/59		259	
3/20/58		285		1/19/60		260	
4/4/58		275		1/29/60		264	
4/15/58		280		2/8/60		272	
4/26/58		286		2/16/60		268	
4/30/58		291		2/25/60		273	
5/10/58		303		3/3/60		280	
5/13/58		300		3/9/60		283	
5/18/58		300		3/26/60		278	
5/29/58		299		4/19/60		277	
6/2/58		298		4/23/60		282	
6/18/58		288		5/11/60		285	
6/30/58		289		6/8/60		295	
7/13/58		290		6/17/60		292	
7/20/58		291		7/22/60		288	
7/30/58		294		8/19/60		295	
8/3/58		291		8/26/60		293	
8/12/58		291		9/11/60		299	
8/17/58		285		9/29/60		300	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-108							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
10/12/60		296		8/16/63		264	
12/7/60		305		9/4/63		265	
1/31/61		287		9/23/63		262	
4/29/61		280		10/1/63		267	
7/29/61		272		10/10/63		266	
8/13/61		272		11/14/63		276	
9/12/61		272		11/25/63		293	
9/26/61		272		12/24/63		293	
10/3/61		271		1/1/64		288	
10/27/61		270		1/23/64		286	
12/12/61		269		1/29/64		288	
1/31/62		266		2/23/64		288	
3/28/62		263		3/4/64		285	
4/20/62		262		8/20/64		284	
4/26/62		261		8/26/64		286	
5/1/62		259		9/5/64		297	
5/5/62		256		9/17/64		300	
5/5/62		248		9/25/64		295	
5/8/62		220		10/2/64		299	
5/11/62		198		11/30/64		299	
5/13/62		182		12/2/64		300	
5/17/62		164		12/26/64		292	
5/19/62		152		1/3/65		294	
5/25/62		203		1/19/65		290	
6/26/62		199		1/24/65		291	
7/5/62		190		2/2/65		289	
7/13/62		192		2/8/65		294	
7/26/62		191		2/14/65		297	
8/1/62		144		2/21/65		300	
8/10/62		195		2/28/65		302	
8/22/62		157		3/7/65		303	
8/31/62		155		3/14/65		304	
9/29/62		201		3/23/65		304	
11/4/62		206		3/30/65		303	
11/22/62		227		4/6/65		303	
11/28/62		261		4/12/65		295	
1/31/63		256		4/27/65		300	
3/2/63		248		7/6/65		301	
3/7/63		246		8/2/65		296	
3/12/63		248		8/10/65		299	
3/22/63		255		8/22/65		296	
3/30/63		252		8/30/65		298	
4/28/63		261		9/3/65		298	
5/5/63		262		9/7/65		299	
5/23/63		264		9/19/65		295	
6/1/63		257		10/25/65		294	
6/7/63		261		11/2/65		285	
6/15/63		255		11/8/65		288	
6/27/63		257		11/23/65		277	
7/11/63		273		12/6/65		285	
7/14/63		275		12/11/65		285	
7/26/63		264		12/21/65		279	
7/31/63		268		12/28/65		279	
8/7/63		269		1/3/66		275	
8/11/63		268		1/16/66		280	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-108							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
1/22/66		279		7/27/67		256	
1/30/66		268		7/31/67		256	
2/8/66		281		8/6/67		200	
2/15/66		275		8/7/67		252	
2/20/66		245		8/11/67		195	
2/28/66		285		8/15/67		199	
3/28/66		285		8/20/67		256	
4/10/66		282		8/26/67		253	
5/2/66		285		9/1/67		251	
5/17/66		268		9/6/67		251	
5/30/66		278		9/12/67		250	
6/7/66		279		9/20/67		252	
6/18/66		277		9/21/67		200	
6/28/66		275		9/26/67		249	
7/4/66		277		9/27/67		245	
7/22/66		276		10/1/67		242	
8/13/66		275		10/9/67		226	
8/21/66		275		10/10/67		193	
9/6/66		271		10/14/67		237	
9/13/66		273		10/16/67		200	
9/18/66		272		10/17/67		240	
1/3/67		196		10/20/67		200	
2/7/67		196		10/21/67		240	
2/14/67		199		10/22/67		199	
2/16/67		199		10/26/67		211	
2/19/67		197		10/31/67		199	
2/26/67		197		10/31/67		208	
3/4/67		199		11/1/67		204	
3/7/67		199		11/4/67		207	
3/10/67		198		11/8/67		195	
3/14/67		261		11/12/67		199	
3/16/67		264		11/27/67		199	
3/16/67		197		11/29/67		188	
3/25/67		256		12/4/67		190	
3/30/67		263		12/9/67		184	
4/2/67		197		12/11/67		190	
4/4/67		262		12/15/67		193	
4/8/67		263		12/16/67		185	
4/13/67		262		12/17/67		193	
4/17/67		198		12/20/67		192	
4/19/67		255		12/29/67		192	
4/25/67		262		1/3/68		242	
4/30/67		201		1/6/68		259	
5/3/67		201		1/15/68		177	
5/6/67		256		1/20/68		175	
5/8/67		199		1/26/68		177	
5/11/67		261		1/27/68		238	
5/26/67		262		1/31/68		243	
6/4/67		256		2/2/68		184	
6/8/67		259		2/7/68		242	
6/13/67		259		2/11/68		184	
6/20/67		253		2/16/68		173	
7/4/67		256		2/20/68		187	
7/10/67		256		2/20/68		180	
7/19/67		252		2/25/68		180	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-108							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/25/68		185		6/29/68		192	
3/1/68		180		7/2/68		174	
3/3/68		194		7/4/68		174	
3/4/68		236		7/5/68		193	
3/6/68		230		7/10/68		172	
3/8/68		196		7/11/68		195	
3/12/68		192		7/12/68		175	
3/18/68		183		7/14/68		178	
3/21/68		182		7/17/68		197	
3/24/68		183		7/18/68		178	
3/26/68		198		7/22/68		191	
3/28/68		180		7/26/68		180	
4/3/68		180		7/29/68		198	
4/10/68		173		8/8/68		198	
4/15/68		170		8/13/68		198	
4/19/68		166		8/17/68		200	
4/21/68		184		8/20/68		200	
4/21/68		169		8/31/68		195	
4/22/68		170		9/13/68		194	
4/28/68		170		9/26/68		191	
5/1/68		171		10/12/68		190	
5/2/68		183		10/23/68		180	
5/5/68		169		10/27/68		178	
5/7/68		167		10/30/68		180	
5/9/68		185		11/15/68		180	
5/12/68		170		11/18/68		167	
5/13/68		186		11/27/68		163	
5/17/68		185		12/3/68		165	
5/21/68		187		12/24/68		159	
5/25/68		187		1/6/69		151	
5/29/68		171		1/19/69		154	
5/30/68		187		1/25/69		156	
6/1/68		172		1/26/69		158	
6/4/68		171		1/29/69		148	
6/4/68		189		2/9/69		153	
6/10/68		190		2/11/69		152	
6/10/68		171		3/17/69		154	
6/13/68		166		3/23/69		157	
6/16/68		164		3/28/69		157	
6/17/68		190		4/2/69		160	
6/22/68		188		4/6/69		160	
6/22/68		191		4/10/69		162	
6/26/68		174		4/27/69		162	
6/27/68		173					

Data obtained from RHO-CD-1172.

Historical Average Temperature Data							
Tank 241-SX-108							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		271		7/31/59		258	
3/31/58		276		8/31/59		260	
4/30/58		271		9/30/59		254	
5/31/58		280		10/31/59		251	
6/30/58		306		11/30/59		254	
7/31/58		282		12/31/59		261	
8/31/58		285		1/31/60		258	
9/2/58		299		2/29/60		262	
9/30/58		275		3/31/60		255	
10/31/58		274		4/30/60		263	
10/31/58		270		5/31/60		266	
11/30/58		269		6/30/60		261	
12/31/58		264		7/31/60		266	
1/31/59		266		9/30/60		265	
2/28/59		258		10/31/60		266	
3/31/59		263		11/30/60		263	
4/30/59		259		12/31/60		257	
5/31/59		259		1/1/65		270	point not shown
6/30/59		260					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Temperature Data							
Tank 241-SX-108							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		293		12/31/59		285	
3/31/58		306		1/31/60		282	
4/30/58		301		2/29/60		295	
5/31/58		317		3/31/60		288	
6/30/58		321		4/30/60		300	
7/31/58		307		5/31/60		306	
8/31/58		312		6/30/60		303	
9/2/58		310		7/31/60		309	
9/30/58		309		9/30/60		318	
10/31/58		303		10/31/60		317	
10/31/58		301		11/30/60		321	
11/30/58		306		12/31/60		312	
12/31/58		297		1/1/62		267	
1/31/59		295		7/25/62		198	
2/28/59		284		12/31/62		262	
3/31/59		290		1/3/63		262	
4/30/59		282		7/1/63		259	
5/31/59		285		12/31/63		260	
6/30/59		284		6/30/64		250	
7/31/59		283		1/1/64		260	
8/31/59		284		7/1/64		250	
9/30/59		276		1/14/65		294	
10/31/59		272		7/26/65		293	
11/30/59		274		10/20/65		294	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-109							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/2/56		81		2/2/58		224	
9/20/56		80		2/10/58		223	
9/27/56		92		2/16/58		220	
9/29/56		89		2/28/58		220	
10/3/56		80		3/7/58		218	
11/16/56		79		3/12/58		223	
12/30/56		79		3/17/58		220	
1/1/57		254		3/27/58		219	
1/10/57		253		4/5/58		217	
1/16/57		254		4/17/58		215	
1/22/57		255		4/30/58		215	
1/25/57		252		5/12/58		214	
1/30/57		250		5/22/58		214	
2/5/57		251		6/1/58		214	
2/19/57		250		6/9/58		212	
3/3/57		250		6/13/58		210	
3/8/57		249		7/30/58		211	
3/20/57		247		8/3/58		201	..
3/28/57		246		8/20/58		200	
4/9/57		245		9/16/58		201	
4/19/57		244		10/3/58		201	
5/1/57		244		10/23/58		200	
5/13/57		242		11/7/58		199	
5/21/57		241		11/22/58		198	
5/26/57		240		12/7/58		197	
6/3/57		239		12/17/58		195	
6/11/57		238		12/26/58		194	
6/20/57		238		1/4/59		192	
6/27/57		238		1/13/59		195	
7/2/57		234		1/19/59		192	
7/6/57		235		1/31/59		190	
7/21/57		235		2/13/59		189	
8/13/57		234		2/25/59		188	
8/17/57		232		3/12/59		187	
8/22/57		230		3/31/59		185	
8/28/57		230		4/14/59		184	
9/13/57		229		5/2/59		182	
9/17/57		227		5/12/59		181	
9/22/57		252		5/20/59		176	
10/1/57		228		5/24/59		178	
10/3/57		226		5/29/59		180	
10/8/57		224		6/24/59		178	
10/12/57		225		7/20/59		177	
10/16/57		223		8/9/59		176	
10/23/57		214		9/3/59		175	
10/31/57		234		9/16/59		174	
11/7/57		232		9/21/59		169	
11/16/57		232		10/2/59		173	
11/24/57		230		10/27/59		172	
12/3/57		229		11/22/59		171	
12/13/57		227		12/10/59		170	
12/23/57		227		1/4/60		168	
1/3/58		226		2/5/60		166	
1/14/58		224		2/25/60		165	
1/22/58		224		3/4/60		163	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-109							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
4/10/60		162		9/18/62		290	
5/5/60		160		9/23/62		293	
6/2/60		158		9/28/62		292	
6/29/60		157		10/5/62		291	
7/25/60		155		10/25/62		289	
8/30/60		154		11/3/62		289	
9/22/60		152		11/15/62		289	
10/20/60		151		11/25/62		288	
11/21/60		149		12/4/62		285	
12/21/60		147		12/16/62		284	
1/6/61		146		1/10/63		280	
1/23/61		145		1/16/63		283	
2/11/61		144		1/21/63		285	
3/6/61		143		2/14/63		286	
4/15/61		141		3/7/63		286	
5/26/61		140		3/15/63		285	
6/23/61		139		3/22/63		282	
7/18/61		138		3/31/63		280	
8/18/61		137		4/5/63		283	
9/24/61		136		4/12/63		283	
10/4/61		135		4/29/63		283	
10/26/61		134		5/5/63		282	
11/16/61		133		5/27/63		282	
12/1/61		133		6/23/63		281	
12/7/61		134		6/28/63		286	
12/13/61		139		7/2/63		286	
1/5/62		171		7/9/63		282	
1/10/62		176		8/7/63		282	
1/15/62		185		8/30/63		282	
1/22/62		198		10/11/63		282	
1/24/62		207		12/2/63		281	
1/30/62		217		12/26/63		280	
2/6/62		224		1/20/64		280	
2/12/62		232		3/8/64		279	
2/20/62		237		4/12/64		279	
3/1/62		242		5/15/64		279	
3/9/62		246		7/13/64		278	
3/23/62		249		8/24/64		276	
3/27/62		255		9/9/64		276	
3/31/62		260		9/23/64		275	
4/10/62		259		10/2/64		275	
4/26/62		260		10/15/64		274	
5/4/62		264		10/22/64		273	
5/13/62		264		10/31/64		276	
5/25/62		266		11/8/64		275	
6/1/62		269		11/30/64		270	
6/16/62		270		12/2/64		276	
6/25/62		272		12/16/64		271	
6/30/62		274		12/30/64		274	
7/7/62		272		1/14/65		275	
7/12/62		275		1/24/65		276	
7/27/62		277		1/30/65		277	
8/14/62		279		2/9/65		274	
8/26/62		281		2/16/65		271	
9/13/62		284		2/27/65		271	

Data obtained from RH0-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-109							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
3/3/65		273		1/22/67		229	
3/13/65		276		2/21/67		229	
4/23/65		269		3/4/67		226	
5/5/65		272		3/13/67		228	
5/24/65		268		3/22/67		230	
6/15/65		265		3/31/67		229	
7/17/65		259		4/25/67		228	
8/14/65		255		5/22/67		228	
9/11/65		252		6/5/67		227	
10/5/65		250		6/14/67		228	
10/27/65		247		7/6/67		227	
11/29/65		244		7/16/67		229	
12/14/65		243		10/4/67		230	
1/5/66		242		10/16/67		230	
1/31/66		241		1/6/68		231	
2/22/66		240		1/22/68		230	
3/4/66		240		1/31/68		230	
3/11/66		244		2/17/68		230	
3/29/66		241		2/27/68		229	
4/16/66		238		3/10/68		229	
4/25/66		237		3/30/68		227	
5/13/66		240		4/11/68		226	
5/23/66		243		4/22/68		226	
6/9/66		242		5/3/68		225	
6/28/66		242		5/16/68		225	
7/2/66		241		5/25/68		225	
8/16/66		242		5/31/68		224	
9/19/66		243		6/8/68		223	

Data obtained from RHO-CD-1172.

Historical Average Temperature Data							
Tank 241-SX-109							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		215		7/31/59		182	
3/31/58		209		8/31/59		181	
4/30/58		208		9/30/59		176	
5/31/58		213		10/31/59		180	
6/30/58		215		11/30/59		177	
7/31/58		210		12/31/59		176	
8/31/58		208		1/31/60		173	
9/2/58		208		2/29/60		171	
9/30/58		199		3/31/60		170	
10/31/58		199		4/30/60		168	
10/31/58		196		5/31/60		168	
11/30/58		202		6/30/60		158	
12/31/58		200		7/31/60		161	
1/31/59		197		9/30/60		163	
2/28/59		194		10/31/60		162	
3/31/59		191		11/30/60		162	
4/30/59		181		12/31/60		161	
5/31/59		185		1/14/65		250	point not shown
6/30/59		181					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Temperature Data							
Tank 241-SX-109							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		220		12/31/59		185	
3/31/58		217		1/31/60		182	
4/30/58		216		2/29/60		178	
5/31/58		218		3/31/60		179	
6/30/58		220		4/30/60		178	
7/31/58		222		5/31/60		177	
8/31/58		221		6/30/60		163	
9/2/58		210		7/31/60		166	
9/30/58		203		9/30/60		168	
10/31/58		200		10/31/60		167	
10/31/58		200		11/30/60		168	
11/30/58		212		12/31/60		165	
12/31/58		209		1/1/62		164	
1/31/59		208		7/25/62		273	
2/28/59		204		12/31/62		285	
3/31/59		202		1/3/63		285	
4/30/59		182		7/1/63		283	
5/31/59		195		12/31/63		245	
6/30/59		192		6/30/64		235	
7/31/59		194		1/1/64		245	
8/31/59		191		7/1/64		235	
9/30/59		180		1/14/65		274	
10/31/59		189		7/26/65		263	
11/30/59		186		10/20/65		249	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank 241-SX-110							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
4/28/60		100		8/21/62		224	
5/4/60		100		9/2/62		227	
5/13/60		105		9/6/62		226	
5/28/60		100		9/10/62		222	
12/2/60		100		9/15/62		222	
12/5/60		101		9/21/62		224	
12/19/60		119		10/3/62		243	
1/8/61		140		10/12/62		221	
1/15/61		143		10/16/62		220	
2/12/61		167		11/5/62		216	
2/22/61		179		11/14/62		228	
3/3/61		182		11/29/62		252	
3/30/61		215		12/4/62		243	
4/11/61		219		12/11/62		243	
4/19/61		215		12/21/62		256	
5/4/61		218		12/29/62		245	
6/7/61		219		12/30/62		242	
6/22/61		222		1/2/63		240	
6/30/61		222		1/8/63		240	
7/12/61		224		1/16/63		251	
7/19/61		224		1/30/63		267	
8/6/61		231		2/13/63		252	
8/10/61		230		2/5/63		259	
8/17/61		229		2/21/63		198	
9/5/61		230		2/26/63		239	
9/13/61		233		3/4/63		227	
9/21/61		226		3/7/63		223	
9/29/61		229		3/13/63		221	
10/2/61		235		3/22/63		223	
10/6/61		252		3/25/63		213	
10/11/61		234		3/25/63		203	
10/12/61		231		3/27/63		195	
10/27/61		234		3/28/63		190	
11/2/61		237		4/3/63		185	
11/12/61		235		4/7/63		190	
11/30/61		237		4/17/63		191	
12/4/61		237		4/26/63		204	
12/9/61		236		5/5/63		204	
12/15/61		235		6/3/63		203	
12/26/61		241		6/15/63		243	
1/18/62		246		6/22/63		211	
1/30/62		249		6/28/63		231	
2/11/62		250		7/7/63		204	
2/21/62		239		7/13/63		203	
2/26/62		240		7/22/63		241	
3/9/62		246		8/10/63		227	
4/6/62		247		8/21/63		227	
4/19/62		262		9/1/63		231	
4/29/62		230		9/7/63		233	
5/31/62		229		9/15/63		238	
6/8/62		236		9/23/63		237	
6/14/62		223		9/24/63		230	
6/18/62		222		10/2/63		227	
7/27/62		228		10/9/63		226	
8/2/62		223		10/17/63		229	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data Tank 241-SX-110							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
10/26/63		231		5/18/65		219	
11/2/63		231		6/11/65		233	
11/7/63		230		6/18/65		234	
11/16/63		226		6/30/65		239	
11/22/63		224		7/7/65		240	
12/5/63		224		7/18/65		243	
12/19/63		225		7/30/65		243	
12/29/63		230		8/4/65		242	
1/5/64		230		8/9/65		240	
1/14/64		233		9/10/65		240	
1/25/64		227		10/11/65		240	
2/1/64		227		10/31/65		237	
2/6/64		227		11/14/65		235	
2/13/64		227		11/22/65		240	
2/23/64		229		11/28/65		236	
3/10/64		230		12/15/65		253	
3/18/64		237		12/21/65		254	
3/24/64		235		12/29/65		251	
3/31/64		237		1/8/66		250	
4/9/64		238		1/18/66		243	
4/25/64		240		1/31/66		244	
6/16/64		240		2/6/66		246	
6/24/64		237		2/10/66		247	
7/2/64		237		2/16/66		246	
7/9/64		239		3/4/66		241	
7/19/64		234		3/11/66		243	
7/30/64		234		3/20/66		239	
8/19/64		225		4/14/66		253	
9/16/64		225		4/19/66		250	
9/30/64		214		4/28/66		259	
10/9/64		213		4/27/66		261	
10/15/64		211		5/8/66		291	
10/21/64		211		5/12/66		290	
10/28/64		210		5/21/66		304	
11/4/64		210		5/27/66		288	
11/10/64		206		6/10/66		298	
11/16/64		208		6/14/66		296	
11/27/64		208		6/24/66		303	
12/2/64		208		6/28/66		304	
12/12/64		207		7/8/66		303	
12/17/64		203		9/6/66		301	
12/22/64		202		9/16/66		304	
12/27/64		204		9/21/66		299	
1/8/65		197		1/22/67		299	
1/28/65		196		1/29/67		300	
2/7/65		195		2/17/67		292	
2/19/65		193		3/22/67		300	
3/4/65		188		4/16/67		301	
3/19/65		183		4/27/67		309	
3/25/65		180		5/14/67		296	
4/3/65		180		6/2/67		295	
4/8/65		180		6/24/67		296	
4/14/65		186		7/15/67		290	
4/19/65		180		7/27/67		290	
5/8/65		205		8/12/67		299	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank 241-SX-110							
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)
8/19/67		299			1/30/68		292
8/30/67		300			2/1/68		288
9/21/67		293			2/14/68		291
10/9/67		290			3/2/68		292
10/21/67		297			3/12/68		285
11/10/67		295			3/16/68		283
11/21/67		289			3/23/68		288
11/30/67		291			3/26/68		289
12/5/67		291			3/29/68		289
12/11/67		291			3/31/68		289
12/18/67		290			4/4/68		289
12/25/67		289			4/7/68		288
12/30/67		290			4/16/68		294
1/5/68		290			4/18/68		294
1/10/68		291			4/21/68		294
1/16/68		293			4/28/68		294
1/20/68		294			5/9/68		299
1/26/68		294			5/12/68		301

Data obtained from RHO-CD-1172.

Historical Average Waste Temperature Data								
Tank 241-SX-110								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
4/30/60		101			10/31/60		104	
5/31/60		110			11/30/60		146	
6/30/60		98			12/31/60		146	
7/31/60		102			1/14/65		206	point not shown
9/30/60		101						

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Waste Temperature Data								
Tank 241-SX-110								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
3/31/60		108			7/25/62		252	
4/30/60		117			12/31/62		252	
5/31/60		100			1/3/63		205	
6/30/60		104			7/1/63		220	
7/31/60		101			12/31/63		212	
9/30/60		107			1/1/64		212	
10/31/60		148			6/30/64		220	
11/30/60		148			7/1/64		208	
12/31/60		242			7/26/65		240	
1/1/62		225						

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank 241-SX-111							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/2/56		181		7/30/60		301	
8/9/56		187		8/10/60		297	
8/15/56		191		8/15/60		296	
8/23/56		187		8/20/60		296	
9/11/56		192		8/27/60		297	
9/20/56		203		9/1/60		299	
9/26/56		222		9/8/60		299	
10/5/56		228		9/12/60		298	
10/8/56		239		9/28/60		294	
10/9/56		243		10/5/60		291	
10/10/56		247		10/20/60		285	
10/14/56		247		11/2/60		289	
10/16/56		248		11/14/60		290	
10/28/56		258		11/23/60		286	
12/31/56		259		12/13/60		292	
1/8/57		262		12/27/60		290	
1/19/57		264		1/18/61		278	
1/27/57		267		3/23/61		275	
2/4/57		263		3/30/61		280	
2/10/57		261		4/10/61		282	
2/23/57		261		4/19/61		282	
3/28/57		260		4/26/61		283	
4/15/57		247		5/4/61		283	
4/23/57		251		6/24/61		287	
4/27/57		251		8/15/61		286	
5/13/57		250		8/23/61		285	
5/28/57		255		9/29/61		289	
6/10/57		253		10/3/61		288	
6/18/57		250		10/6/61		286	
7/30/57		250		10/9/61		286	
9/5/57		250		10/13/61		285	
10/17/57		251		10/17/61		284	
11/4/57		250		10/20/61		283	
11/10/57		238		10/22/61		282	
11/18/57		244		10/25/61		282	
12/7/57		244		10/29/61		281	
12/25/57		242		11/1/61		280	
12/18/57		243		11/13/61		277	
1/23/58		239		11/17/61		276	
2/19/58		236		11/22/61		275	
3/4/58		235		11/28/61		275	
3/11/58		232		12/3/61		274	
3/20/58		234		12/6/61		274	
4/27/58		231		12/10/61		274	
5/3/58		231		12/13/61		274	
5/15/58		229		12/16/61		276	
6/1/58		228		12/20/61		277	
6/15/58		228		12/24/61		279	
6/19/58		228		12/27/61		280	
7/28/58		225		12/30/61		281	
4/11/58		232		1/2/62		282	
4/7/58		233		1/5/62		283	
3/30/58		233		1/7/62		285	
2/7/58		237		1/10/62		286	
2/12/58		236		1/14/62		287	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank 241-SX-111							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
1/18/62		290		10/28/62		245	
1/23/62		292		11/5/62		245	
1/26/62		293		11/10/62		245	
1/29/62		293		11/16/62		245	
1/31/62		293		11/25/62		246	
2/3/62		295		12/7/62		246	
2/5/62		296		12/18/62		246	
2/8/62		297		1/3/63		246	
2/14/62		291		1/16/63		246	
2/18/62		286		1/29/63		246	
2/23/62		279		2/9/63		247	
2/26/62		275		2/16/63		247	
3/1/62		272		3/7/63		247	
3/2/62		270		3/19/63		247	
3/3/62		267		3/27/63		248	
3/7/62		264		4/1/63		249	
3/11/62		262		4/8/63		249	
3/14/62		260		4/16/63		249	
3/18/62		257		4/26/63		250	
3/21/62		256		4/30/63		249	
3/24/62		253		1/17/64		241	
3/27/62		253		2/18/64		242	
3/31/62		252		3/9/64		241	
4/4/62		252		3/13/64		241	
4/6/62		251		3/22/64		237	
4/8/62		251		3/25/64		234	
4/10/62		249		3/31/64		231	
4/14/62		248		4/18/64		216	
4/17/62		247		4/26/64		207	
4/22/62		246		5/22/64		195	
4/28/62		245		5/31/64		190	
5/2/62		243		7/2/64		187	
5/8/62		243		7/12/64		190	
5/12/62		242		8/14/64		191	
5/18/62		242		8/19/64		191	
5/25/62		241		8/24/64		192	
5/30/62		241		9/24/64		193	
6/3/62		240		11/2/64		193	
6/12/62		239		11/29/64		193	
6/23/62		239		11/30/64		193	
7/3/62		239		12/5/64		192	
7/10/62		238		12/19/64		174	
7/14/62		238		12/23/64		175	
7/19/62		239		2/27/68		320	
7/30/62		238		3/5/68		320	
8/8/62		239		3/13/68		320	
8/16/62		238		3/18/68		320	
8/25/62		238		3/24/68		320	
9/3/62		238		3/29/68		320	
9/14/62		240		4/8/68		319	
9/26/62		240		4/19/68		319	
10/3/62		241		4/27/68		319	
10/10/62		242		5/3/68		318	
10/16/62		242		5/14/68		319	
10/22/62		244		5/25/68		319	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data								
Tank 241-SX-111								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
6/6/68		320						

Data obtained from RHO-CD-1172.

Historical Average Waste Temperature Data							
Tank 241-SX-111							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		221		7/31/59		238	
3/31/58		223		8/31/59		241	
4/30/58		210		9/30/59		149	
5/31/58		219		10/31/59		253	
6/30/58		228		11/30/59		259	
7/31/58		210		12/31/59		260	
8/31/58		210		1/31/60		260	
9/2/58		220		2/29/60		253	
9/30/58		206		3/31/60		258	
10/31/58		206		4/30/60		265	
10/31/58		207		5/31/60		263	
11/30/58		196		6/30/60		258	
1/31/59		199		7/31/60		261	
2/28/59		209		9/30/60		260	
3/31/59		220		10/31/60		259	
4/30/59		224		11/30/60		258	
5/31/59		230		12/31/60		257	
6/30/59		231		1/14/65		196	point not shown

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Waste Temperature Data							
Tank 241-SX-111							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		235		10/31/59		272	
3/31/58		244		11/30/59		277	
4/30/58		230		12/31/59		284	
5/31/58		237		1/31/60		286	
6/30/58		231		2/29/60		280	
7/31/58		224		3/31/60		286	
8/31/58		223		4/30/60		299	
9/2/58		221		5/31/60		301	
9/30/58		219		6/30/60		301	
10/31/58		217		7/31/60		304	
11/30/58		209		9/30/60		300	
12/31/58		207		10/31/60		296	
1/31/59		220		11/30/60		291	
2/28/59		225		12/31/60		295	
3/31/59		239		1/1/62		280	
4/30/59		244		7/25/62		238	
5/31/59		248		12/31/62		243	
6/30/59		250		1/3/63		243	
7/31/59		257		7/1/63		247	
8/31/59		260		6/30/64		175	
9/30/59		229					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-112							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/1/56		248		4/5/58		213	
8/21/56		248		4/15/58		212	
8/28/56		245		4/23/58		210	
9/9/56		245		5/2/58		210	
9/30/56		246		5/14/58		209	
10/8/56		247		5/24/58		207	
10/15/56		239		6/5/58		207	
10/17/56		235		6/19/58		206	
10/22/56		234		6/30/58		205	
10/31/56		243		7/14/58		203	
11/5/56		245		7/23/58		202	
11/21/56		236		8/3/58		199	
11/28/56		239		1/17/59		186	
12/4/56		236		1/27/59		187	
12/10/56		235		2/2/59		184	
12/17/56		238		2/8/59		186	
12/28/56		256		4/22/59		170	
12/31/56		259		4/29/59		164	
1/15/57		263		5/8/59		167	
1/28/57		264		5/26/59		167	
2/10/57		265		6/3/59		162	
2/17/57		264		7/13/59		160	
2/27/57		263		7/23/59		156	
3/9/57		262		8/17/59		159	
3/26/57		262		8/16/59		159	
4/11/57		254		9/3/59		166	
5/1/57		256		9/10/59		160	
5/15/57		254		9/17/59		162	
5/28/57		252		9/30/59		161	
6/5/57		251		10/7/59		163	
6/15/57		251		1/19/60		162	
6/27/57		250		2/28/60		156	
7/18/57		248		3/4/60		156	
7/25/57		247		3/9/60		154	
7/31/57		246		3/23/60		147	
8/23/57		246		3/29/60		150	
9/13/57		242		4/21/60		150	
9/19/57		240		4/24/60		148	
9/23/57		240		4/27/60		146	
9/28/57		239		5/7/60		144	
10/1/57		239		5/21/60		148	
10/5/57		238		5/28/60		144	
10/9/57		237		6/3/60		135	
10/13/57		236		6/12/60		140	
11/5/57		236		6/19/60		140	
1/14/58		227		6/26/60		137	
1/24/58		227		7/3/60		136	
1/27/58		227		7/7/60		135	
2/11/58		220		7/15/60		138	
2/17/58		214		8/20/60		171	
2/25/58		220		9/12/60		185	
2/26/58		220		9/19/60		196	
3/10/58		212		9/26/60		200	
3/21/58		213		10/2/60		203	
3/28/58		213		10/13/60		206	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-112							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
10/19/60		207		5/24/62		293	
10/25/60		206		5/29/62		289	
10/30/60		205		6/19/62		287	
11/7/60		208		6/27/62		294	
11/16/60		208		7/3/62		291	
11/21/60		212		7/9/62		290	
11/24/60		217		7/17/62		286	
12/1/60		235		7/24/62		290	
12/24/60		246		7/29/62		286	
12/29/60		246		8/16/62		279	
2/16/61		245		8/23/62		281	
2/23/61		241		9/13/62		276	
3/19/61		240		9/26/62		288	
3/25/61		239		10/30/62		272	
4/21/61		238		11/3/62		272	
4/27/61		234		11/26/62		292	
5/5/61		234		12/4/62		296	
5/8/61		232		12/19/62		284	
6/7/61		228		12/26/62		283	
6/13/61		225		1/1/63		277	
6/20/61		226		1/15/63		276	
7/10/61		223		1/23/63		280	
7/17/61		220		1/29/63		295	
8/26/61		245		2/5/63		300	
9/13/61		246		2/19/63		296	
9/19/61		249		2/26/63		291	
9/29/61		249		3/28/63		272	
10/1/61		246		4/11/63		270	
10/8/61		251		4/26/63		282	
10/15/61		254		5/2/63		287	
10/24/61		256		5/12/63		278	
10/29/61		248		5/22/63		273	
11/2/61		237		6/2/63		267	
11/11/61		247		6/8/63		265	
11/15/61		259		6/24/63		265	
11/17/61		261		7/11/63		277	
11/23/61		260		7/16/63		277	
12/2/61		219		7/29/63		268	
12/7/61		248		8/7/63		271	
12/9/61		254		8/23/63		268	
12/22/61		274		8/29/63		267	
12/30/61		278		9/4/63		266	
1/5/62		288		9/23/63		273	
1/12/62		293		10/7/63		266	
1/18/62		293		10/25/63		266	
1/28/62		296		11/20/63		284	
2/26/62		301		12/14/63		274	
3/8/62		315		12/23/63		280	
3/13/62		316		1/7/64		281	
3/22/62		306		1/15/64		279	
4/18/62		295		2/10/64		279	
4/25/62		289		3/5/64		251	
5/3/62		297		3/11/64		250	
5/5/62		298		3/17/64		223	
5/16/62		293		3/24/64		215	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-112							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
3/31/64		215		12/13/65		195	
4/8/64		225		12/19/65		196	
4/18/64		230		1/15/66		191	
4/25/64		222		1/25/66		211	
5/14/64		222		2/15/66		232	
5/19/64		226		3/27/66		249	
5/26/64		227		5/9/66		258	
5/31/64		220		5/20/66		253	
6/12/64		219		5/30/66		237	
6/22/64		222		6/11/66		243	
7/3/64		241		6/14/66		249	
7/11/64		248		6/15/66		255	
7/16/64		248		6/18/66		259	
7/21/64		246		6/30/66		268	
8/2/64		248		9/7/66		286	
8/9/64		245		9/20/66		291	
8/19/64		246		9/25/66		293	
8/27/64		226		1/19/67		293	
9/7/64		229		1/22/67		287	
9/11/64		228		1/26/67		275	
9/22/64		219		1/31/67		248	
10/15/64		234		2/5/67		272	
10/20/64		232		2/15/67		245	
10/25/64		231		2/20/67		244	
11/5/64		227		3/4/67		268	
11/28/64		235		3/17/67		282	
12/1/64		235		3/30/67		241	
12/9/64		236		4/10/67		240	
12/22/64		226		4/13/67		271	
12/26/64		226		4/19/67		304	
1/11/65		209		4/27/67		244	
2/4/65		202		5/15/67		248	
2/20/65		206		6/1/67		268	
3/3/65		202		6/12/67		272	
3/17/65		199		7/9/67		273	
3/26/65		199		7/14/67		233	
4/2/65		197		7/19/67		235	
4/9/65		198		7/27/67		257	
4/16/65		197		8/14/67		248	
4/23/65		200		8/18/67		274	
5/6/65		196		8/23/67		248	
6/7/65		195		8/30/67		280	
6/14/65		198		9/7/67		238	
6/19/65		199		9/19/67		258	
6/25/65		196		9/25/67		240	
7/17/65		199		10/7/67		267	
8/1/65		206		10/11/67		251	
8/11/65		200		10/18/67		254	
9/5/65		202		10/26/67		240	
9/12/65		197		10/31/67		253	
9/25/65		196		11/8/67		243	
10/4/65		198		11/12/67		229	
10/11/65		196		11/23/67		231	
11/17/65		195		11/28/67		243	
12/3/65		198		12/5/67		230	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data								
Tank SX-112								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
1/8/68		231			4/12/68		231	
1/15/68		228			4/17/68		238	
1/26/68		230			4/19/68		245	
2/1/68		229			4/27/68		266	
2/14/68		228			4/22/68		255	
2/28/68		235			5/7/68		237	
3/6/68		231			5/10/68		231	
3/15/68		237			5/30/68		254	
3/20/68		241			6/7/68		224	
4/5/68		274						

Data obtained from RHO-CD-1172.

Historical Average Waste Temperature Data							
Tank 241-SX-112							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
Feb-58		207		Nov-59		154	
Mar-58		207		Dec-59		199	
Apr-58		195		Jan-60		153	
May-58		203		Feb-60		153	
Jun-58		208		Mar-60		148	
Jul-58		192		Apr-60		152	
Aug-58		194		May-60		150	
Sep-58		195		Jun-60		140	
Sep-58		184		Jul-60		167	
Oct-58		186		Sep-60		206	
Oct-58		186		Oct-60		216	
Nov-58		184		Nov-60		229	
Dec-58		185		Dec-60		233	
Jan-59		182		Jan-62		281	
Feb-59		176		Jul-62		290	
Mar-59		179		Dec-62		284	
Apr-59		164		Jan-63		284	
May-59		170		Jul-63		266	
Jun-59		165		Dec-63		235	
Jul-59		166		Jan-64		235	
Aug-59		162		Jun-64		225	
Sep-59		165		Jul-64		225	
Oct-59		164		Jan-65		219	point not shown

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Waste Temperature Data Tank 241-SX-112							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		215		12/31/59		167	
3/31/58		217		1/31/60		161	
4/30/58		204		2/29/60		161	
5/31/58		212		3/31/60		158	
6/30/58		212		4/30/60		163	
7/31/58		206		5/31/60		160	
8/31/58		207		6/30/60		146	
9/2/58		195		7/31/60		165	
9/30/58		194		9/30/60		207	
10/31/58		193		10/31/60		222	
11/30/58		196		11/30/60		240	
12/31/58		196		12/31/60		246	
1/31/59		193		1/1/62		281	
2/28/59		188		7/25/62		290	
3/31/59		190		12/31/62		284	
4/30/59		163		1/3/63		284	
5/31/59		182		7/1/63		266	
6/30/59		176		12/31/63		235	
7/31/59		178		6/30/64		225	
8/31/59		172		1/1/64		235	
9/30/59		174		7/1/64		225	
10/31/59		174		1/14/65		225	
11/30/59		163		10/20/65		195	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank SX-113							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/23/58		82		10/11/62		130	
2/27/58		105		10/18/62		114	
3/4/58		142		10/27/62		110	
3/6/58		147		11/1/62		113	
3/9/58		155		11/13/62		113	
3/11/58		164		11/17/62		110	
3/17/58		171		12/5/62		103	
3/19/58		179		12/12/62		108	
3/23/58		186		12/9/62		106	
3/28/58		193		12/31/62		99	
3/31/58		199		1/16/63		99	
4/16/58		206		1/28/63		99	
5/1/58		223		3/1/63		91	
5/12/58		224		3/7/63		88	
6/1/58		227		3/13/63		92	
6/10/58		230		3/13/63		94	
6/17/58		233		3/16/63		95	
6/25/58		235		3/20/63		94	
7/6/58		236		3/30/63		89	
7/11/58		245		8/13/63		81	
7/11/58		250		8/23/63		82	
7/15/58		252		8/31/63		84	
7/26/58		252		9/6/63		84	
8/1/58		219		9/10/63		87	
8/3/58		220		9/16/63		87	
8/11/58		224		9/27/63		85	
8/27/58		211		10/2/63		85	
9/2/58		214		10/8/63		87	
9/9/58		212		10/14/63		87	
10/29/58		212		10/18/63		87	
11/9/58		196		10/23/63		90	
12/10/58		191		10/31/63		89	
12/24/58		176		11/7/63		90	
1/7/59		183		11/13/63		90	
2/13/59		177		11/21/63		93	
2/9/61		114		11/29/63		93	
2/13/61		114		12/9/63		94	
2/20/61		111		12/19/63		92	
3/26/61		111		12/29/63		89	
4/1/61		110		1/4/64		88	
4/8/61		109		1/16/64		89	
4/16/61		109		1/24/64		87	
4/30/61		108		1/28/64		88	
5/13/61		108		2/4/64		86	
6/7/61		108		2/10/64		87	
7/9/61		111		2/18/64		85	
7/22/61		111		2/26/64		84	
7/25/61		112		3/5/64		85	
10/8/61		82		3/11/64		85	
10/20/61		84		3/20/64		82	
4/27/62		82		3/31/64		81	
4/29/62		90		4/10/64		81	
5/18/62		94		4/16/64		82	
6/30/62		88		4/22/64		81	
7/18/62		90		8/23/64		81	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank SX-113							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/27/64		83		6/18/65		109	
9/4/64		82		6/25/65		106	
9/15/64		81		7/9/65		106	
9/21/64		82		7/26/65		104	
9/27/64		82		8/2/65		106	
10/6/64		82		8/14/65		103	
10/12/64		84		8/25/65		106	
10/20/64		86		9/16/65		107	
11/3/64		90		9/27/65		109	
11/13/64		90		10/5/65		109	
11/29/64		90		10/13/65		106	
12/3/64		89		10/26/65		109	
12/21/64		89		11/2/65		110	
12/28/64		91		11/9/65		109	
2/2/65		89		11/18/65		108	
2/9/65		87		1/22/66		108	
2/15/65		89		1/29/66		109	
2/20/65		99		2/6/66		104	
3/4/65		95		2/22/66		104	
3/30/65		101		3/3/66		101	
4/8/65		106		3/18/66		100	
4/12/65		106		3/23/66		94	
4/19/65		108		4/26/66		95	
4/25/65		104		5/4/66		94	
5/1/65		105		5/8/66		94	
5/6/65		106		5/24/66		95	
5/9/65		122		5/28/66		94	
5/16/65		160		6/2/66		94	
5/19/65		111		6/16/66		98	
6/2/65		106		4/9/66		95	

Data obtained from RHO-CD-1172.

Historical Average Waste Temperature Data								
Tank 241-SX-113								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
2/28/58		130			5/31/58		162	
3/31/58		193			6/30/58		223	
4/30/58		196			9/2/58		210	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Waste Temperature Data								
Tank 241-SX-113								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
2/28/58		144			10/31/58		199	
3/31/58		195			11/30/58		194	
4/30/58		198			1/31/59		179	
5/31/58		211			2/28/59		177	
6/30/58		234			3/31/59		170	
7/31/58		218			4/30/59		160	
8/31/58		210			12/31/62		100	
9/2/58		210			1/3/63		100	
9/30/58		202			10/20/65		110	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank 241-SX-114							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
11/16/56		121		8/18/57		208	
11/18/56		127		8/22/57		206	
11/22/56		132		8/27/57		209	
12/1/56		131		8/29/57		210	
12/10/56		131		9/5/57		210	
12/11/56		132		9/8/57		214	
12/15/56		136		9/12/57		222	
12/16/56		142		9/13/57		229	
12/19/56		147		9/15/57		235	
12/21/56		145		9/15/57		238	
12/24/56		142		9/17/57		241	
12/27/56		138		9/21/57		235	
1/1/57		160		9/23/57		231	
1/5/57		157		9/26/57		231	
1/10/57		153		10/5/57		233	
1/12/57		147		10/15/57		235	
1/15/57		141		10/26/57		238	
1/17/57		143		11/3/57		240	
1/22/57		158		11/11/57		240	
1/23/57		159		11/17/57		240	
1/28/57		159		11/20/57		238	
2/6/57		160		11/26/57		236	
2/16/57		163		12/6/57		237	
2/19/57		163		12/14/57		237	
2/24/57		163		12/19/57		240	
2/28/57		164		12/26/57		245	
3/10/57		164		12/28/57		247	
3/18/57		162		1/6/58		247	
3/26/57		162		1/12/58		248	
4/2/57		163		1/18/58		251	
4/6/57		164		1/29/58		257	
4/11/57		166		2/6/58		260	
4/15/57		171		2/14/58		263	
4/21/57		181		2/17/58		264	
4/25/57		188		2/21/58		261	
4/28/57		195		2/26/58		257	
4/30/57		202		3/5/58		252	
5/6/57		206		3/11/58		250	
5/10/57		211		3/19/58		254	
5/13/57		214		3/29/58		258	
5/17/57		218		4/4/58		264	
5/21/57		219		4/12/58		270	
5/28/57		220		4/19/58		276	
5/30/57		221		4/26/58		281	
6/4/57		219		4/28/58		284	
6/11/57		221		5/1/58		281	
6/21/57		221		5/5/58		275	
6/28/57		217		5/6/58		272	
7/4/57		212		5/9/58		279	
7/7/57		212		5/13/58		285	
7/15/57		212		5/19/58		290	
7/23/57		212		5/23/58		296	
7/27/57		210		5/26/58		304	
8/1/57		210		5/27/58		306	
8/11/57		211		5/30/58		301	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank 241-SX-114							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
6/5/58		296		6/1/59		300	
6/7/58		290		6/10/59		289	
6/10/58		284		6/17/59		300	
6/14/58		279		6/21/59		298	
6/19/58		274		6/29/59		310	
6/24/58		268		7/9/59		301	
6/28/58		261		7/17/59		310	
7/2/58		257		7/21/59		310	
7/7/58		264		7/28/59		305	
7/10/58		271		7/31/59		304	
7/12/58		272		8/6/59		305	
7/18/58		270		8/14/59		306	
7/25/58		265		8/21/59		302	
7/31/58		259		8/29/59		305	
8/2/58		265		9/4/59		275	
8/12/58		268		9/11/59		278	
8/20/58		330		10/10/59		264	
8/26/58		254		10/20/59		270	
9/1/58		256		11/5/59		286	
9/9/58		301		11/8/59		284	
9/13/58		297		11/13/59		280	
9/22/58		265		12/5/59		275	
9/26/58		259		12/15/59		273	
10/4/58		254		12/23/59		270	
10/8/58		251		1/3/60		269	
11/9/58		251		2/4/60		267	
11/13/58		214		2/11/60		277	
11/21/58		309		2/15/60		273	
12/3/58		263		2/17/60		269	
12/17/58		296		3/4/60		261	
12/27/58		283		3/11/60		263	
1/5/59		302		3/13/60		272	
1/9/59		304		3/16/60		280	
1/13/59		304		3/20/60		287	
1/31/59		279		3/24/60		273	
2/6/59		295		4/14/60		274	
2/23/59		278		4/21/60		260	
2/26/59		275		5/6/60		282	
3/5/59		276		5/11/60		295	
3/14/59		310		5/20/60		294	
3/29/59		304		5/27/60		287	
4/1/59		302		6/1/60		284	
4/5/59		304		6/10/60		290	
4/9/59		304		6/15/60		289	
4/12/59		304		7/3/60		273	
4/16/59		301		7/6/60		271	
4/21/59		298		7/11/60		271	
4/25/59		293		7/19/60		272	
4/28/59		290		7/24/60		274	
5/1/59		289		7/29/60		281	
5/8/59		296		8/1/60		288	
5/13/59		309		8/3/60		293	
5/15/59		313		8/9/60		296	
5/22/59		249		8/15/60		296	
5/26/59		252		8/20/60		294	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data Tank 241-SX-114							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/24/60		290		11/1/61		227	
8/29/60		288		11/2/61		218	
9/3/60		291		11/2/61		215	
9/7/60		292		11/8/61		209	
9/14/60		287		11/21/61		188	
9/22/60		288		11/26/61		189	
9/28/60		285		11/30/61		193	
10/8/60		284		12/9/61		184	
10/11/60		290		12/15/61		183	
10/12/60		297		12/21/61		176	
10/20/60		299		12/26/61		172	
10/29/60		302		12/29/61		170	
11/10/60		306		1/6/62		167	
11/18/60		304		1/12/62		165	
11/26/60		305		1/23/62		164	
11/29/60		304		2/9/62		163	
12/5/60		308		2/18/62		166	
12/11/60		311		3/3/62		170	
12/19/60		307		3/25/62		167	
12/26/60		303		4/12/62		164	
1/3/61		297		4/28/62		162	
1/14/61		296		5/20/62		161	
2/7/61		297		6/18/62		160	
2/15/61		302		7/6/62		158	
3/7/61		303		7/27/62		157	
3/17/61		305		8/4/62		164	
3/23/61		302		8/11/62		161	
4/3/61		300		10/1/62		161	
4/11/61		297		10/15/62		158	
4/22/61		295		10/30/62		155	
5/6/61		295		11/7/62		154	
5/23/61		295		11/11/62		149	
6/1/61		294		11/16/62		144	
6/11/61		293		12/3/62		145	
6/18/61		290		12/13/62		146	
6/26/61		288		12/26/62		148	
7/4/61		285		12/30/62		151	
7/11/61		282		1/8/63		151	
7/17/61		276		2/5/63		152	
7/21/61		270		2/23/63		153	
7/24/61		268		3/28/63		154	
8/2/61		268		4/21/63		154	
8/13/61		269		4/29/63		155	
8/24/61		270		5/5/63		153	
9/2/61		272		5/9/63		153	
9/8/61		274		5/12/63		153	
9/12/61		269		5/15/63		155	
9/17/61		265		6/15/63		155	
9/27/61		273		6/30/63		155	
10/1/61		273		7/7/63		153	
10/9/61		267		7/22/63		153	
10/16/61		260		8/1/63		154	
10/25/61		251		8/5/63		154	
10/30/61		248		8/12/63		153	
11/1/61		236		8/30/63		151	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data Tank 241-SX-114							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
9/7/63		153		11/3/64		275	
9/15/63		150		11/12/64		279	
10/2/63		150		11/17/64		274	
10/14/63		148		11/20/64		274	
10/22/63		148		11/28/64		275	
10/29/63		146		11/29/64		275	
11/7/63		147		12/4/64		283	
11/13/63		145		12/12/64		288	
11/23/63		145		12/19/64		295	
12/12/63		145		12/22/64		299	
12/18/63		142		12/28/64		313	
12/25/63		146		1/3/65		310	
1/2/64		147		1/5/65		305	
1/8/64		147		1/5/65		302	
1/16/64		144		1/8/65		298	
2/5/64		144		1/12/65		297	
2/14/64		147		1/15/65		301	
4/5/64		147		1/20/65		312	
4/10/64		144		1/22/65		303	
4/16/64		140		1/28/65		299	
4/22/64		145		2/2/65		298	
4/25/64		151		2/6/65		302	
4/27/64		156		2/13/65		301	
5/3/64		160		2/20/65		298	
5/8/64		166		2/23/65		302	
5/10/64		173		2/28/65		310	
5/13/64		181		3/6/65		317	
5/18/64		185		3/13/65		320	
5/23/64		196		3/19/65		317	
5/24/64		206		3/24/65		310	
5/26/64		208		3/29/65		299	
5/27/64		217		3/31/65		299	
5/28/64		220		4/16/65		308	
6/2/64		223		4/22/65		302	
6/3/64		225		5/12/65		312	
6/11/64		227		5/22/65		310	
6/13/64		229		5/30/65		308	
6/19/64		233		6/9/65		309	
6/24/64		236		7/2/65		308	
6/25/64		237		7/13/65		308	
7/3/64		234		7/20/65		305	
7/11/64		237		7/29/65		309	
7/21/64		241		8/18/65		308	
7/28/64		244		8/24/65		304	
7/30/64		245		9/13/65		304	
8/8/64		246		9/19/65		308	
8/27/64		248		9/21/65		309	
9/22/64		259		10/13/65		307	
9/30/64		262		11/6/65		306	
10/7/64		263		11/17/65		305	
10/11/64		265		12/1/65		304	
10/12/64		267		12/6/65		306	
10/16/64		270		12/13/65		304	
10/19/64		271		1/3/66		305	
10/26/64		272		1/16/66		301	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank 241-SX-114							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
1/23/66		306		5/16/67		301	
2/4/66		303		5/26/67		299	
2/7/66		303		6/5/67		299	
2/8/66		306		6/14/67		299	
2/23/66		307		6/28/67		299	
3/26/66		298		7/14/67		299	
3/31/66		298		7/27/67		299	
4/2/66		306		8/9/67		299	
4/4/66		306		8/18/67		299	
4/13/66		305		9/4/67		299	
4/16/66		305		9/17/67		299	
4/25/66		295		10/3/67		298	
4/29/66		306		10/18/67		298	
5/2/66		306		11/5/67		297	
5/10/66		305		11/21/67		298	
5/17/66		296		11/26/67		299	
5/22/66		304		12/3/67		297	
5/30/66		302		12/9/67		298	
6/10/66		303		12/17/67		297	
6/28/66		304		12/24/67		296	
6/28/66		299		12/27/67		294	
7/4/66		307		12/30/67		292	
7/14/66		308		1/2/68		281	
7/17/66		307		1/4/68		274	
7/21/66		305		1/6/68		271	
7/23/66		303		1/14/68		268	
7/31/66		307		1/21/68		268	
8/4/66		307		1/29/68		270	
8/11/66		307		2/1/68		270	
8/17/66		306		2/11/68		270	
8/24/66		305		2/17/68		271	
8/27/66		303		2/26/68		271	
9/7/66		302		3/7/68		271	
9/24/66		303		3/11/68		268	
10/7/66		302		3/15/68		267	
11/2/66		302		3/18/68		266	
11/16/66		301		3/23/68		268	
12/2/66		301		3/26/68		268	
12/10/66		303		3/29/68		267	
12/18/66		300		3/31/68		268	
12/27/66		301		4/4/68		268	
1/5/67		301		4/9/68		269	
1/10/67		303		4/13/68		270	
1/16/67		304		4/17/68		271	
1/26/67		304		4/22/68		270	
2/6/67		304		4/26/68		269	
2/22/67		304		5/1/68		268	
3/3/67		305		5/6/68		268	
3/13/67		305		5/13/68		267	
3/19/67		304		5/23/68		267	
3/26/67		305		6/3/68		266	
4/9/67		304		6/6/68		268	
4/18/67		302		6/11/68		269	
4/30/67		302		6/15/68		268	
5/9/67		301		6/20/68		269	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data								
Tank 241-SX-114								
Date	Temp (C)	Temp (F)	Comments		Date	Temp (C)	Temp (F)	Comments
6/26/68		268						

Data obtained from RHO-CD-1172.

Historical Average Waste Temperature Data							
Tank 241-SX-114							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		256		10/31/59		251	
3/31/58		246		11/30/59		248	
4/30/58		247		12/31/59		245	
5/31/58		267		1/31/60		244	
6/30/58		253		2/29/60		239	
7/31/58		258		3/31/60		241	
8/31/58		260		4/30/60		242	
9/2/58		273		5/31/60		245	
9/30/58		256		6/30/60		244	
10/31/58		251		7/31/60		246	
10/31/58		252		9/30/60		253	
11/30/58		268		10/31/60		255	
12/31/58		263		11/30/60		256	
1/31/59		258		12/31/60		248	
2/28/59		254		1/1/62		168	
3/31/59		267		7/25/62		157	
4/30/59		259		12/31/62		148	
5/31/59		261		1/3/63		148	
6/30/59		268		7/1/63		153	
7/31/59		265		6/30/64		210	
8/31/59		254		7/1/64		210	
9/30/59		242		1/14/65		270	point not shown

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Waste Temperature Data							
Tank 241-SX-114							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
2/28/58		268		11/30/59		275	
3/31/58		246		12/31/59		270	
4/30/58		248		1/31/60		267	
5/31/58		270		2/29/60		260	
6/30/58		251		3/31/60		273	
7/31/58		258		4/30/60		272	
8/31/58		258		5/31/60		282	
9/2/58		290		6/30/60		282	
9/30/58		257		7/31/60		278	
10/31/58		251		9/30/60		295	
10/31/58		252		10/31/60		300	
11/30/58		290		11/30/60		308	
12/31/58		283		12/31/60		297	
1/31/59		278		1/1/62		168	
2/28/59		275		7/25/62		157	
3/31/59		301		12/31/62		148	
4/30/59		288		1/3/63		148	
5/31/59		302		7/1/63		153	
6/30/59		313		6/30/64		210	
7/31/59		304		7/1/64		210	
8/31/59		290		1/14/65		299	
9/30/59		260		7/26/65		307	
10/31/59		280		10/20/65		305	

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical Vapor Space Temperature Data							
Tank 241-SX-115							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
9/2/58		100		5/30/60		254	
9/30/58		184		6/7/60		255	
10/4/58		191		6/16/60		255	
10/15/58		207		6/26/60		255	
10/23/58		191		7/2/60		255	
10/30/58		203		7/8/60		253	
11/5/58		209		7/12/60		254	
11/12/58		210		7/15/60		257	
12/31/58		204		7/19/60		255	
1/27/59		198		7/24/60		251	
2/10/59		195		7/28/60		247	
3/5/59		175		8/2/60		246	
3/21/59		195		8/18/60		246	
3/27/59		191		8/23/60		251	
4/3/59		195		8/31/60		256	
4/26/59		193		9/7/60		259	
5/1/59		188		9/17/60		264	
5/10/59		191		9/22/60		262	
5/19/59		191		9/26/60		262	
6/18/59		188		10/4/60		262	
6/27/59		187		10/8/60		258	
7/7/59		187		10/11/60		252	
7/18/59		185		10/14/60		247	
8/5/59		185		10/19/60		244	
8/21/59		183		10/26/60		244	
9/1/59		181		10/30/60		248	
9/12/59		180		11/4/60		254	
9/16/59		177		11/10/60		257	
9/21/59		175		11/17/60		258	
9/28/59		178		11/24/60		259	
10/11/59		176		12/19/60		248	
10/27/59		175		12/24/60		247	
11/8/59		175		12/28/60		251	
11/17/59		177		1/7/61		259	
11/24/59		182		1/9/61		260	
11/29/59		191		1/16/61		258	
12/6/59		203		1/20/61		257	
12/23/59		224		1/25/61		258	
3/1/60		236		2/3/61		257	
3/3/60		241		2/12/61		252	
3/9/60		242		2/16/61		252	
3/16/60		244		2/22/61		255	
3/22/60		244		2/28/61		257	
4/9/60		241		3/5/61		258	
4/12/60		242		3/10/61		259	
4/21/60		245		3/21/61		259	
4/24/60		245		3/27/61		260	
4/30/60		243		3/30/61		262	
5/4/60		242		4/26/61		262	
5/8/60		244		5/1/61		262	
5/9/60		246		5/7/61		260	
5/12/60		247		5/12/61		257	
5/14/60		250		5/17/61		257	
5/18/60		251		5/27/61		257	
5/24/60		252		5/31/61		256	

Data obtained from RHO-CD-1172.

Historical Vapor Space Temperature Data							
Tank 241-SX-115							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
12/12/62		226		12/27/63		209	
12/19/62		224		1/2/64		210	
12/24/62		223		1/15/64		210	
1/3/63		223		1/20/64		212	
1/17/63		224		1/31/64		212	
2/13/63		231		2/13/64		212	
2/20/63		230		2/23/64		212	
2/28/63		227		2/29/64		212	
3/13/63		222		3/3/64		210	
3/28/63		225		3/10/64		210	
4/3/63		230		3/31/64		210	
4/10/63		231		4/21/64		211	
4/18/63		227		4/30/64		208	
4/26/63		221		6/24/64		208	
5/5/63		216		7/4/64		216	
5/13/63		217		7/11/64		218	
5/26/63		216		7/17/64		184	
5/30/63		214		7/22/64		178	
6/8/63		216		7/28/64		177	
6/11/63		215		8/5/64		175	
6/27/63		214		8/13/64		173	
7/8/63		212		8/22/64		172	
7/20/63		213		3/19/66		129	
8/22/63		212		3/26/66		128	
8/31/63		211		4/24/66		130	
9/18/63		210		5/16/66		130	
9/30/63		210		5/21/66		129	
10/10/63		208		5/28/66		132	
10/22/63		208		6/1/66		133	
10/29/63		207		6/11/66		136	
11/6/63		207		6/17/66		133	
12/6/63		206		6/23/66		132	
12/10/63		208		7/3/66		132	

Data obtained from RHO-CD-1172.

Historical Average Waste Temperature Data							
Tank 241-SX-115							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
9/2/58		100		10/31/59		176	
9/30/58		180		11/30/59		198	
10/31/58		197		12/31/59		221	
10/31/58		199		1/31/60		226	
11/30/58		207		2/29/60		229	
12/31/58		204		3/31/60		229	
1/31/59		202		4/30/60		240	
2/28/59		194		5/31/60		242	
3/31/59		198		6/30/60		245	
4/30/59		188		7/31/60		237	
5/31/59		191		9/30/60		261	
6/30/59		185		10/31/60		251	
7/31/59		186		11/30/60		260	
8/31/59		180		12/31/60		248	
9/30/59		182					

Data obtained from HW-83906 and Waste Status Summary Reports.

Historical High or Only Waste Temperature Data							
Tank 241-SX-115							
Date	Temp (C)	Temp (F)	Comments	Date	Temp (C)	Temp (F)	Comments
8/31/58		92		3/31/60		242	
9/2/58		100		4/30/60		254	
9/30/58		184		5/31/60		254	
10/31/58		206		6/30/60		257	
10/31/58		207		7/31/60		239	
11/30/58		217		9/30/60		276	
12/31/58		214		10/31/60		258	
1/31/59		210		11/30/60		275	
2/28/59		203		12/31/60		255	
3/31/59		207		1/1/62		250	
4/30/59		187		7/25/62		227	
5/31/59		200		12/31/62		224	
6/30/59		194		1/3/63		224	
7/31/59		194		7/1/63		213	
8/31/59		188		12/31/63		206	
9/30/59		190		6/30/64		170	
10/31/59		182		1/1/64		206	
11/30/59		212		7/1/64		170	
12/31/59		231		1/14/65		175	
1/31/60		242		7/26/65		142	
2/29/60		244		10/20/65		138	

Data obtained from HW-83906 and Waste Status Summary Reports.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/20/74	1		93.33	199.994		raw data - assumed degree C
1	10/20/74	2		93.33	199.994		raw data - assumed degree C
1	10/20/74	3		93.33	199.994		raw data - assumed degree C
1	10/20/74	4		89.44	192.992		raw data - assumed degree C
1	10/20/74	5		81.67	179.006		raw data - assumed degree C
1	10/20/74	6		73.33	163.994		raw data - assumed degree C
1	10/20/74	7		68.89	156.002		raw data - assumed degree C
1	10/20/74	8		62.78	145.004		raw data - assumed degree C
1	10/20/74	9		60.56	141.008		raw data - assumed degree C
1	10/20/74	10		60	140		raw data - assumed degree C
1	10/20/74	11		60	140		raw data - assumed degree C
1	10/20/74	12		60	140		raw data - assumed degree C
1	12/2/74	1		93.33	199.994		raw data - assumed degree C
1	12/2/74	2		93.33	199.994		raw data - assumed degree C
1	12/2/74	3		93.33	199.994		raw data - assumed degree C
1	12/2/74	4		87.22	188.996		raw data - assumed degree C
1	12/2/74	5		80.56	177.008		raw data - assumed degree C
1	12/2/74	6		73.33	163.994		raw data - assumed degree C
1	12/2/74	7		68.89	156.002		raw data - assumed degree C
1	12/2/74	8		62.78	145.004		raw data - assumed degree C
1	12/2/74	9		61.11	141.998		raw data - assumed degree C
1	12/2/74	10		61.11	141.998		raw data - assumed degree C
1	12/2/74	11		61.11	141.998		raw data - assumed degree C
1	12/2/74	12		61.11	141.998		raw data - assumed degree C
1	11/3/75	4			194		
1	11/3/75	5			184		
1	11/3/75	6			174		
1	11/3/75	7			162		
1	11/3/75	8			148		
1	11/3/75	9			145		
1	11/3/75	10			144		
1	11/3/75	11			144		
1	11/3/75	12			144		
1	1/20/76	1			206		
1	1/20/76	3			202		
1	1/20/76	4			190		
1	1/20/76	5			178		
1	1/20/76	6			167		
1	1/20/76	7			154		
1	1/20/76	8			140		
1	1/20/76	9			139		
1	1/20/76	10			138		
1	1/20/76	11			138		
1	1/20/76	12			138		
1	1/20/76	13			137		
1	1/20/76	14			132		
1	3/5/76	4			190		
1	3/5/76	5			179		
1	3/5/76	6			167		
1	3/5/76	7			157		
1	3/5/76	8			140		
1	3/5/76	9			138		
1	3/5/76	10			138		
1	3/5/76	11			138		
1	3/5/76	12			138		
1	4/3/76	3			190		
1	4/3/76	4			179		
1	4/3/76	5			166		
1	4/3/76	6			153		
1	4/3/76	7			142		
1	4/3/76	8			139		
1	4/3/76	9			138		
1	5/2/76	4			191		
1	5/2/76	5			179		
1	5/2/76	6			167		
1	5/2/76	7			154		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	5/2/76	8			142		
1	5/2/76	9			140		
1	5/2/76	10			140		
1	5/2/76	11			139		
1	5/2/76	12			139		
1	6/1/76	2					158 - suspect data (low)
1	6/1/76	3			208		
1	6/1/76	4			190		
1	6/1/76	5			183		
1	6/1/76	6			172		
1	6/1/76	7			159		
1	6/1/76	8			148		
1	6/1/76	9			145		
1	6/1/76	10			145		
1	6/1/76	11			144		
1	6/1/76	12			144		
1	6/1/76	13			143		
1	6/1/76	14			142		
1	7/1/76	3			195		
1	7/1/76	4			184		
1	7/1/76	5			172		
1	7/1/76	6			160		
1	7/1/76	7			147		
1	7/1/76	8			136		
1	7/1/76	9			133		
1	7/1/76	10			133		
1	7/1/76	11			132		
1	7/1/76	12			132		
1	7/1/76	13			130		
1	7/1/76	14			130		
1	8/3/76	1			194		
1	8/3/76	3			200		
1	8/3/76	4			189		
1	8/3/76	5			178		
1	8/3/76	6			166		
1	8/3/76	7			153		
1	8/3/76	8			141		
1	8/3/76	9			139		
1	8/3/76	10			138		
1	8/3/76	11			138		
1	8/3/76	12			138		
1	8/3/76	13			138		
1	8/3/76	14			138		
1	9/2/76	4			190		
1	9/2/76	5			179		
1	9/2/76	6			167		
1	9/2/76	7			154		
1	9/2/76	8			144		
1	9/2/76	9			140		
1	9/2/76	10			140		
1	9/2/76	11			140		
1	9/2/76	12			140		
1	10/3/76	4			192		
1	10/3/76	5			180		
1	10/3/76	6					119 - suspect data (low)
1	10/3/76	7			156		
1	10/3/76	8			145		
1	10/3/76	9			142		
1	10/3/76	10			141		
1	10/3/76	11			140		
1	10/3/76	12			140		
1	11/1/76	3			200		
1	11/1/76	4			193		
1	11/1/76	5			182		
1	11/1/76	6			170		
1	11/1/76	7			156		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	11/1/76	8			146		
1	11/1/76	9			142		
1	11/1/76	10			142		
1	11/1/76	11			142		
1	11/1/76	12			142		
1	11/1/76	13			142		
1	11/1/76	14			142		
1	12/4/76	2			200		
1	12/4/76	3			200		
1	12/4/76	4			192		
1	12/4/76	5			180		
1	12/4/76	6			168		
1	12/4/76	7			155		
1	12/4/76	8			144		
1	12/4/76	9			141		
1	12/4/76	10			140		
1	12/4/76	11			140		
1	12/4/76	12			140		
1	1/1/77	1			200		
1	1/1/77	2			200		
1	1/1/77	3			200		
1	1/1/77	4			193		
1	1/1/77	5			180		
1	1/1/77	6			168		
1	1/1/77	7			153		
1	1/1/77	8			144		
1	1/1/77	9			140		
1	1/1/77	10			139		
1	1/1/77	11			139		
1	1/1/77	12			139		
1	2/1/77	2			200		
1	2/1/77	3			200		
1	2/1/77	4			192		
1	2/1/77	5			180		
1	2/1/77	6			168		
1	2/1/77	7			132		
1	2/1/77	8			142		
1	2/1/77	9			140		
1	2/1/77	10			138		
1	2/1/77	11			138		
1	2/1/77	12			138		
1	2/1/77	13			138		
1	2/1/77	14			138		
1	2/26/77	3			198		
1	2/26/77	4			188		
1	2/26/77	5			176		
1	2/26/77	6			164		
1	2/26/77	7			148		
1	2/26/77	8			138		
1	2/26/77	9			135		
1	2/26/77	10			134		
1	2/26/77	11			134		
1	2/26/77	12			134		
1	2/26/77	13			134		
1	2/26/77	14			134		
1	3/16/77	1					121 - suspect data (low)
1	3/16/77	2					400 - suspect data (high)
1	3/16/77	3			200		
1	3/16/77	4			187		
1	3/16/77	5			176		
1	3/16/77	6			163		
1	3/16/77	7			148		
1	3/16/77	8			137		
1	3/16/77	9			135		
1	3/16/77	10			134		
1	3/16/77	11			134		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	3/16/77	12			134		
1	3/16/77	13			134		
1	3/16/77	14			134		
1	3/26/77	3			198		
1	3/26/77	4			188		
1	3/26/77	5			176		
1	3/26/77	6			164		
1	3/26/77	7			148		
1	3/26/77	8			138		
1	3/26/77	9			135		
1	3/26/77	10			134		
1	3/26/77	11			134		
1	3/26/77	12			134		
1	3/26/77	13			134		
1	3/26/77	14			134		
1	4/3/77	3			198		
1	4/3/77	4			188		
1	4/3/77	5			175		
1	4/3/77	6			162		
1	4/3/77	7			147		
1	4/3/77	8			137		
1	4/3/77	9			134		
1	4/3/77	10			134		
1	4/3/77	11			133		
1	4/3/77	12			133		
1	4/3/77	13			133		
1	4/3/77	14			133		
1	4/9/77	1			208		
1	4/9/77	3			200		
1	4/9/77	4			196		
1	4/9/77	5			190		
1	4/9/77	6			163		
1	4/9/77	7			148		
1	4/9/77	8			138		
1	4/9/77	9			130		
1	4/9/77	10			130		
1	4/9/77	11			130		
1	4/9/77	12			130		
1	5/15/78	2			203		
1	5/15/78	3			198		
1	5/15/78	4			188		
1	5/15/78	5			176		
1	5/15/78	6			164		
1	5/15/78	7			150		
1	5/15/78	8			140		
1	5/15/78	9			135		
1	5/15/78	10			135		
1	5/15/78	11			134		
1	6/18/78	2			199		
1	6/18/78	3			194		
1	6/18/78	4			184		
1	6/18/78	5			174		
1	6/18/78	6			161		
1	6/18/78	7			147		
1	6/18/78	8			138		
1	6/18/78	9			131		
1	6/18/78	10			130		
1	6/18/78	11			129		
1	6/18/78	12			129		
1	6/18/78	13			128		
1	6/18/78	14					77 - suspect data (low)
1	8/3/78	13			126		
1	8/3/78	14			110		
1	8/14/78	2			200		
1	8/14/78	3			195		
1	8/14/78	4			182		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	8/14/78	5			175		
1	8/14/78	6			163		
1	8/14/78	7			149		
1	8/14/78	8			138		
1	8/14/78	9			132		
1	8/14/78	10			131		
1	8/14/78	11			130		
1	9/3/78	2			195		
1	9/3/78	3			191		
1	9/3/78	4			181		
1	9/3/78	5			171		
1	9/3/78	6			158		
1	9/3/78	7			145		
1	9/3/78	8			134		
1	9/3/78	9			128		
1	9/3/78	10			127		
1	9/3/78	11			126		
1	9/3/78	12			126		
1	5/3/80	2			193		
1	5/3/80	3			182		
1	5/3/80	4			175		
1	5/3/80	5			160		
1	5/3/80	6			145		
1	5/3/80	7			128		
1	5/3/80	8			108		
1	5/3/80	9			96		
1	5/3/80	10			95		
1	5/3/80	11			95		
1	5/3/80	12			80		
1	9/19/80	2			191		
1	9/19/80	3			185		
1	9/19/80	4			174		
1	9/19/80	5			161		
1	9/19/80	6			145		
1	9/19/80	7			129		
1	9/19/80	8			119		
1	9/19/80	9			92		
1	9/19/80	10			92		
1	9/19/80	11			92		
1	9/19/80	12			91		
1	9/19/80	13			91		
1	9/19/80	14			91		
1	2/7/81	2			193		
1	2/7/81	3			187		
1	2/7/81	4			176		
1	2/7/81	5			161		
1	2/7/81	6			144		
1	2/7/81	7			125		
1	2/7/81	8			104		
1	2/7/81	9			102		
1	2/7/81	10			101		
1	2/7/81	11			100		
1	2/7/81	12			100		
1	2/7/81	13			100		
1	2/7/81	14			100		
1	1/13/82	1			178		
1	1/13/82	2			178		
1	1/13/82	3			173		
1	1/13/82	4			161		
1	1/13/82	5			148		
1	1/13/82	6			134		
1	1/13/82	7			116		
1	1/13/82	8			100		
1	1/13/82	9			99		
1	1/13/82	10			98		
1	1/13/82	11			97		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/13/82	12			95		
1	1/13/82	13			95		
1	1/13/82	14			95		
1	1/13/82	15			92		
1	1/13/82	16			33		
1	5/29/82	1			177		
1	5/29/82	2			170		
1	5/29/82	3			159		
1	5/29/82	4			146		
1	5/29/82	5			132		
1	5/29/82	6			117		
1	5/29/82	7			103		
1	5/29/82	8			100		
1	5/29/82	9			99		
1	5/29/82	10			99		
1	5/29/82	11			98		
1	5/29/82	12			98		
1	10/6/82	1					212 - suspect data (high)
1	10/6/82	2			175		
1	10/6/82	3			170		
1	10/6/82	4			160		
1	10/6/82	5			148		
1	10/6/82	6			137		
1	10/6/82	7			123		
1	10/6/82	8			110		
1	10/6/82	9			108		
1	10/6/82	10			107		
1	10/6/82	11			106		
1	10/6/82	12			106		
1	10/6/82	13			106		
1	10/6/82	14			106		
1	8/23/83	5					74 - suspect data (low)
1	8/23/83	6					73 - suspect data (low)
1	8/23/83	7					72 - suspect data (low)
1	8/23/83	8					74 - suspect data (low)
1	8/23/83	9					73 - suspect data (low)
1	8/23/83	10					72 - suspect data (low)
1	8/23/83	11					71 - suspect data (low)
1	8/23/83	12					70 - suspect data (low)
1	1/9/84	1			158		
1	1/9/84	2			160		
1	1/9/84	3			158		
1	1/9/84	4			152		
1	1/9/84	5			141		
1	1/9/84	6			108		
1	2/13/84	1					136 - suspect data (low)
1	2/13/84	2					139 - suspect data (low)
1	2/13/84	3					139 - suspect data (low)
1	2/13/84	4					135 - suspect data (low)
1	2/13/84	5					125 - suspect data (low)
1	2/13/84	6					98 - suspect data (low)
1	2/14/84	1			156		
1	2/14/84	2			158		
1	2/14/84	3			156		
1	2/14/84	4			149		
1	2/14/84	5			138		
1	2/14/84	6			104		
1	3/14/84	1			150		
1	3/14/84	2			152		
1	3/14/84	3			150		
1	3/14/84	4			143		
1	3/14/84	5			131		
1	3/14/84	6			96		
1	4/9/84	1			155		
1	4/9/84	2			156		
1	4/9/84	3			153		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/9/84	4			145		
1	4/9/84	5			134		
1	4/9/84	6			101		
1	6/14/84	1			159		
1	6/14/84	2			154		
1	6/14/84	3			153		
1	6/14/84	4			143		
1	6/14/84	5			135		
1	6/14/84	6			103		
1	6/19/84	1			159		
1	6/19/84	2			154		
1	6/19/84	3			153		
1	6/19/84	4			143		
1	6/19/84	5			135		
1	6/19/84	6			103		
1	9/1/84	1			157		
1	9/1/84	2			158		
1	9/1/84	3			156		
1	9/1/84	4			147		
1	9/1/84	5			141		
1	9/1/84	6			111		
1	10/5/84	1			153		
1	10/5/84	2			154		
1	10/5/84	3			151		
1	10/5/84	4			143		
1	10/5/84	5			137		
1	10/5/84	6			108		
1	1/8/85	1			154		
1	1/8/85	2			154		
1	1/8/85	3			152		
1	1/8/85	4			143		
1	1/8/85	5			135		
1	1/8/85	6			103		
1	4/2/85	1			151		
1	4/2/85	2			152		
1	4/2/85	3			149		
1	4/2/85	4			142		
1	4/2/85	5			135		
1	4/2/85	6			112		
1	5/2/85	1			146		
1	5/2/85	2			147		
1	5/2/85	3			143		
1	5/2/85	4			136		
1	5/2/85	5			128		
1	5/2/85	6			97		
1	6/4/85	1			157		
1	6/4/85	2			158		
1	6/4/85	3			152		
1	6/4/85	4			146		
1	6/4/85	5			136		
1	6/4/85	6			110		
1	7/2/85	1			151		
1	7/2/85	2			152		
1	7/2/85	3			147		
1	7/2/85	4			141		
1	7/2/85	5			135		
1	7/2/85	6			106		
1	8/6/85	1			155		
1	8/6/85	2			156		
1	8/6/85	3			152		
1	8/6/85	4			146		
1	8/6/85	5			140		
1	8/6/85	6			112		
1	8/13/85	1			176		
1	8/13/85	2			178		
1	8/13/85	3			172		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	8/13/85	4			167		
1	8/13/85	5			162		
1	8/13/85	6			133		
1	9/1/85	1					194 - suspect data (high)
1	9/1/85	2					195 - suspect data (high)
1	9/1/85	3					192 - suspect data (high)
1	9/1/85	4					192 - suspect data (high)
1	9/1/85	5					192 - suspect data (high)
1	9/1/85	6					192 - suspect data (high)
1	12/4/85	1			137		
1	12/4/85	2			138		
1	12/4/85	3			133		
1	12/4/85	4			129		
1	12/4/85	5			122		
1	12/4/85	6			92		
1	1/6/86	1		77	170.6		raw data - assumed degree C
1	1/6/86	2		77	170.6		raw data - assumed degree C
1	1/6/86	3		77	170.6		raw data - assumed degree C
1	1/6/86	4		77	170.6		raw data - assumed degree C
1	1/6/86	5		77	170.6		raw data - assumed degree C
1	1/6/86	6					77 - suspect data (high)
1	3/3/86	1			169		
1	3/3/86	2			169		
1	3/3/86	3			162		
1	3/3/86	4			158		
1	3/3/86	5			148		
1	3/3/86	6			104		
1	5/10/86	1			154		
1	5/10/86	2			154		
1	5/10/86	3			150		
1	5/10/86	4			144		
1	5/10/86	5			136		
1	6/2/86	1			154		
1	6/2/86	2			154		
1	6/2/86	3			150		
1	6/2/86	4			144		
1	6/2/86	5			136		
1	7/7/86	1			153		
1	7/7/86	2			153		
1	7/7/86	3			148		
1	7/7/86	4			141		
1	7/7/86	5			137		
1	8/4/86	1			153.4		
1	8/4/86	2			152.6		
1	8/4/86	3			149.6		
1	8/4/86	4			144.1		
1	8/4/86	5			136.5		
1	9/8/86	1			153		
1	9/8/86	2			153		
1	9/8/86	3			157		
1	9/8/86	4			154		
1	9/8/86	5			140		
1	9/8/86	6			136		
1	10/7/86	1			153.7		
1	10/7/86	2			153.3		
1	10/7/86	3			150.8		
1	10/7/86	5			138.7		
1	11/1/86	1			154.9		
1	11/1/86	2			154.4		
1	11/1/86	3			151.6		
1	11/1/86	5			139.9		
1	12/2/86	1			154.2		
1	12/2/86	2			153.8		
1	12/2/86	3			151		
1	12/2/86	5			139.4		
1	2/2/87	1			156		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	2/2/87	2			155		
1	2/2/87	3			152		
1	2/2/87	5			138		
1	3/2/87	1			154		
1	3/2/87	2			153		
1	3/2/87	3			150		
1	3/2/87	5			138		
1	4/6/87	1			153		
1	4/6/87	2			153		
1	4/6/87	3			152		
1	4/6/87	4			148		
1	4/6/87	5			140		
1	5/3/87	1			152.5		
1	5/3/87	2			151.9		
1	5/3/87	3			149.8		
1	5/3/87	5			137.2		
1	7/6/87	1			153.2		
1	7/6/87	2			152.3		
1	7/6/87	3			149.4		
1	7/6/87	5			136.8		
1	8/4/87	1			152		
1	8/4/87	2			151		
1	8/4/87	3			149		
1	8/4/87	5			135		
1	9/6/87	1			142.2		
1	9/6/87	2			141.8		
1	9/6/87	3			139.6		
1	9/6/87	5			129.4		
1	10/5/87	1			150		
1	10/5/87	2			152		
1	10/5/87	3			151		
1	10/5/87	4			134		
1	10/5/87	5			139		
1	11/4/87	1			153		
1	11/4/87	2			153		
1	11/4/87	3			151		
1	11/4/87	5			139		
1	12/8/87	1			153.8		
1	12/8/87	2			153.3		
1	12/8/87	3			150.7		
1	12/8/87	5			138.6		
1	12/20/87	1			153		
1	12/20/87	2			155		
1	12/20/87	3			152		
1	12/20/87	5			138		
1	1/4/88	1	1		154.2	Y	
1	1/4/88	2	1		153.6	N	
1	1/4/88	3	1		150.9	N	
1	1/4/88	5	1		138.5	N	
1	2/1/88	1	1		149	Y	
1	2/1/88	2	1		149	N	
1	2/1/88	3	1		145	N	
1	2/1/88	4	1		122	N	
1	2/1/88	5			123		
1	2/1/88	5	1		133	N	
1	3/8/88	1	1		154	Y	
1	3/8/88	2	1		152	N	
1	3/8/88	3	1		150	N	
1	3/8/88	5	1		137	N	
1	4/4/88	1	1		144	Y	
1	4/4/88	2	1		143	N	
1	4/4/88	3	1		140	N	
1	4/4/88	5	1		128	N	
1	5/2/88	1	1			N	o/s
1	5/4/88	1	1		153	Y	
1	5/4/88	2	1		152	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	5/4/88	3	1		149	N	
1	5/4/88	5	1		137	N	
1	5/16/88	1	1		153	Y	
1	5/16/88	2	1		152	N	
1	5/16/88	3	1		149	N	
1	5/16/88	5	1		137	N	
1	6/6/88	1	1		153	Y	
1	6/6/88	2	1		152	N	
1	6/6/88	3	1		149	N	
1	6/6/88	5	1		135	N	
1	7/4/88	1	1		168	N	
1	7/4/88	2	1		168	N	
1	7/4/88	3	1		165	N	
1	7/4/88	4	1			Y	174 - suspect data (high)
1	7/4/88	5	1		148	N	
1	7/4/88	6	1		173	N	
1	8/1/88	1	1			N	O/S
1	9/5/88	1	1		151	Y	
1	9/5/88	2	1		150	N	
1	9/5/88	3	1		148	N	
1	9/5/88	5	1		136	N	
1	10/3/88	1	1		151	Y	
1	10/3/88	2	1		151	N	
1	10/3/88	3	1		149	N	
1	10/3/88	5	1		137	N	
1	11/7/88	1	1		147	Y	
1	11/7/88	2	1		146	N	
1	11/7/88	3	1		144	N	
1	11/7/88	5	1		132	N	
1	12/5/88	1	1			N	O/S
1	1/2/89	1	1			N	O/S
1	1/6/89	1	1		151.5	Y	
1	1/6/89	2	1		151.1	N	
1	1/6/89	3	1		149.3	N	
1	1/6/89	4	1		145.9	N	
1	1/6/89	5	1		136.5	N	
1	2/7/89	1	1		153.6	Y	
1	2/7/89	2	1		153.4	N	
1	2/7/89	3	1		150.9	N	
1	2/7/89	4	1		136.8	N	
1	2/7/89	5	1		136.6	N	
1	3/8/89	1	1		152.7	Y	
1	3/8/89	2	1		151.6	N	
1	3/8/89	3	1		148.9	N	
1	3/8/89	5	1		135.5	N	
1	6/5/89	1	1		151	Y	
1	6/5/89	2	1		151	N	
1	6/5/89	3	1		148	N	
1	6/5/89	5	1		135	N	
1	7/3/89	1	1		150.5	Y	
1	7/3/89	2	1		150.4	N	
1	7/3/89	3	1		146.6	N	
1	7/3/89	5	1		134.5	N	
1	1/1/90	1	1		147.9	Y	J-890523512-20
1	1/1/90	2	1		146.9	N	
1	1/1/90	3	1		144.2	N	
1	1/1/90	5	1		132.2	N	
1	2/5/90	1	1			N	J-890523512-20 & K-890723679
1	1/4/91	1	1		141.9	Y	J 890523512-47
1	1/4/91	2	1		141.2	N	
1	1/4/91	3	1		138.3	N	
1	1/4/91	4	1		131.9	N	
1	1/4/91	5	1		126.1	N	
1	2/9/91	1	1		142.9	Y	J 890423320-11
1	2/9/91	2	1		142.1	N	
1	2/9/91	3	1		140.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/9/91	4	1		137.7	N	
1	2/9/91	5	1		127.4	N	
1	2/16/91	1	1		141.3	Y	J 890423320-11
1	2/16/91	2	1		140.1	N	
1	2/16/91	3	1		137.9	N	
1	2/16/91	4	1		140.3	N	
1	2/16/91	5	1		124.5	N	
1	2/24/91	1	1		144.2	Y	J 890423320-11
1	2/24/91	2	1		142.5	N	
1	2/24/91	3	1		139.4	N	
1	2/24/91	4	1		131.6	N	
1	2/24/91	5	1		125.7	N	
1	3/3/91	1	1		142	N	J 890423320-11
1	3/3/91	2	1		141	N	
1	3/3/91	3	1		138	N	
1	3/3/91	4	1		145	Y	
1	3/3/91	5	1		125	N	
1	3/9/91	1	1		143	Y	J 890423320-11
1	3/9/91	2	1		142	N	
1	3/9/91	3	1		139	N	
1	3/9/91	4	1		134	N	
1	3/9/91	5	1		125	N	
1	3/16/91	1	1		140.6	Y	J 890423320-11
1	3/16/91	2	1		139.8	N	
1	3/16/91	3	1		138.2	N	
1	3/16/91	4	1		132.2	N	
1	3/16/91	5	1		125.4	N	
1	3/24/91	1	1		141.4	Y	J 890423320-11
1	3/24/91	2	1		139.9	N	
1	3/24/91	3	1		137.2	N	
1	3/24/91	4	1		130.3	N	
1	3/24/91	5	1		123.5	N	
1	3/30/91	1	1		139.8	Y	J 890423320-11
1	3/30/91	2	1		138.7	N	
1	3/30/91	3	1		137.2	N	
1	3/30/91	4	1		139.4	N	
1	3/30/91	5	1		124.5	N	
1	4/7/91	1	1		145	Y	J 890423320-11
1	4/7/91	2	1		143	N	
1	4/7/91	3	1		140	N	
1	4/7/91	4	1		132	N	
1	4/7/91	5	1		127.2	N	
1	4/14/91	1	1		144.1	Y	J 890423320-11 HH-99-A
1	4/14/91	2	1		142.2	N	
1	4/14/91	3	1		139.1	N	
1	4/14/91	4	1		131	N	
1	4/14/91	5	1		125.6	N	
1	4/20/91	1	1		141.2	Y	J 890423320-11 HH-99A-J
1	4/20/91	2	1		139.9	N	
1	4/20/91	3	1		138.1	N	
1	4/20/91	4	1		129.5	N	
1	4/20/91	5	1		125.7	N	
1	4/27/91	1	1		144.3	Y	J
1	4/27/91	2	1		142.6	N	
1	4/27/91	3	1		140.2	N	
1	4/27/91	4	1		138.1	N	
1	4/27/91	5	1		126.7	N	
1	5/4/91	1	1		139.4	Y	J HH-99A-J
1	5/4/91	2	1		138.2	N	
1	5/4/91	3	1		136.3	N	
1	5/4/91	4	1		131.2	N	
1	5/4/91	5	1		123.7	N	
1	5/12/91	1	1		140.4	Y	J 910126143-75
1	5/12/91	2	1		138.8	N	
1	5/12/91	3	1		135.8	N	
1	5/12/91	4	1		132	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	5/12/91	5	1		122.6	N	
1	5/19/91	1	1		141.7	Y	J Omega 99-A
1	5/19/91	2	1		140	N	
1	5/19/91	3	1		139.7	N	
1	5/19/91	4	1		138.6	N	
1	5/19/91	5	1		124.7	N	
1	5/24/91	1	1		141.5	Y	J 890423320-11
1	5/24/91	2	1		139.7	N	
1	5/24/91	3	1		137.2	N	
1	5/24/91	5	1		124.7	N	
1	6/2/91	1	1		140.2	Y	J 850423320-11 TC#4 SUSPECT
1	6/2/91	2	1		138.8	N	
1	6/2/91	3	1		136.5	N	
1	6/2/91	5	1		123.6	N	
1	6/9/91	1	1		140	N	J 890423320-11
1	6/9/91	2	1		138.9	N	
1	6/9/91	3	1		136.6	N	
1	6/9/91	5	1		123	N	
1	6/16/91	1	1		143.4	Y	J 890423320-11 TC#6 NG
1	6/16/91	2	1		141.8	N	
1	6/16/91	3	1		138.2	N	
1	6/16/91	5	1		124.7	N	
1	6/22/91	1	1		142.3	N	J 910126143-39
1	6/22/91	2	1		140.6	N	
1	6/22/91	3	1		137.8	N	
1	6/22/91	5	1		124.6	N	
1	6/29/91	1	1		139.5	N	J 910126143-75 TC#6NG
1	6/29/91	2	1		138.2	N	
1	6/29/91	3	1		136	N	
1	6/29/91	5	1		123	N	
1	7/7/91	1	1		139.4	Y	J 910126143-75
1	7/7/91	2	1		138.2	N	
1	7/7/91	3	1		136.6	N	
1	7/7/91	4	1		131.6	N	
1	7/7/91	5	1		124.3	N	
1	7/13/91	1	1		140.1	Y	J 910126143-75 TC#6o/s#4 Bad data
1	7/13/91	2	1		138.4	N	
1	7/13/91	3	1		135.9	N	
1	7/13/91	5	1		123.6	N	
1	7/20/91	1	1		138.6	Y	J 910126143-75 TC#6o/s
1	7/20/91	2	1		137.8	N	
1	7/20/91	3	1		135.5	N	
1	7/20/91	4	1		134.3	N	
1	7/20/91	5	1		123.1	N	
1	7/27/91	1	1		139.1	Y	J 910126143-75 TC#6o/s
1	7/27/91	2	1		138.5	N	
1	7/27/91	3	1		136.5	N	
1	7/27/91	4	1		131.2	N	
1	7/27/91	5	1		124.4	N	
1	8/3/91	1	1		138.4	N	J 910126143-75 TC#6o/s
1	8/3/91	2	1		137.9	N	
1	8/3/91	3	1		135.6	N	
1	8/3/91	5	1		123.4	N	
1	8/11/91	1	1		138.8	Y	J 910126143-75 TC#6o/s
1	8/11/91	2	1		138.6	N	
1	8/11/91	3	1		136.7	N	
1	8/11/91	4	1		132.1	N	
1	8/11/91	5	1		125.2	N	
1	8/18/91	1	1		138	Y	J 910126143-75
1	8/18/91	2	1		137.8	N	
1	8/18/91	3	1		136.4	N	
1	8/18/91	4	1		130.8	N	
1	8/18/91	5	1		125.2	N	
1	8/25/91	1	1		138.2	Y	J HH-99A-J
1	8/25/91	2	1		138	N	
1	8/25/91	3	1		136.5	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	8/25/91	4	1		123.2	N	
1	8/25/91	5	1		125.2	N	
1	8/31/91	1	1		137.7	Y	J-890523512-20
1	8/31/91	2	1		137.1	N	
1	8/31/91	3	1		135.2	N	
1	8/31/91	4	1		125	N	
1	8/31/91	5	1		123.8	N	
1	9/7/91	1	1		138.1	Y	J-890523512-20
1	9/7/91	2	1		137.7	N	
1	9/7/91	3	1		135.7	N	
1	9/7/91	4	1		119.7	N	
1	9/7/91	5	1		124.3	N	
1	9/14/91	1	1		139.7	Y	J-890523512-20
1	9/14/91	2	1		139.4	N	
1	9/14/91	3	1		137.4	N	
1	9/14/91	4	1		123	N	
1	9/14/91	5	1		125.7	N	
1	9/21/91	1	1		139.4	Y	J-HH-99A-J
1	9/21/91	2	1		139.2	N	
1	9/21/91	3	1		137.5	N	
1	9/21/91	4	1		124.2	N	
1	9/21/91	5	1		125.8	N	
1	9/28/91	1	1		138.1	N	J-890523512-20
1	9/28/91	2	1		138.3	Y	
1	9/28/91	3	1		137.3	N	
1	9/28/91	4	1		128.5	N	
1	9/28/91	5	1		126.8	N	
1	10/5/91	1	1		140.1	Y	J-890523518-20
1	10/5/91	2	1		139.8	N	
1	10/5/91	3	1		137.8	N	
1	10/5/91	4	1		133.1	N	
1	10/5/91	5	1		126.4	N	
1	10/11/91	1	1		139.9	Y	J-890523512-20
1	10/11/91	2	1		139.7	N	
1	10/11/91	3	1		137.9	N	
1	10/11/91	4	1		133.1	N	
1	10/11/91	5	1		126.3	N	
1	10/20/91	1	1		140.2	Y	J-890523512-20
1	10/20/91	2	1		140.1	N	
1	10/20/91	3	1		138.2	N	
1	10/20/91	4	1		122	N	
1	10/20/91	5	1		126.9	N	
1	10/26/91	1	1		141.9	Y	J-890523512-20 TC #4 Bad Data
1	10/26/91	2	1		141.7	N	
1	10/26/91	3	1		139.4	N	
1	10/26/91	5	1		127.9	N	
1	11/2/91	1	1		142	Y	J-8905235125-80 TC #4 BAD DATA
1	11/2/91	2	1		141.2	N	
1	11/2/91	3	1		139	N	
1	11/2/91	5	1		127.4	N	
1	11/9/91	1	1		143.2	N	J-OMEGA 199 J-890523512-20 TC #6 O/S
1	11/9/91	2	1		142.1	N	
1	11/9/91	3	1		139.5	N	
1	11/9/91	4	1		144.6	Y	
1	11/9/91	5	1		127.4	N	
1	11/15/91	1	1		139.2	Y	J-T1045 TC #6 O/S
1	11/15/91	2	1		138.3	N	
1	11/15/91	3	1		135.8	N	
1	11/15/91	4	1		135.2	N	
1	11/15/91	5	1		123.6	N	
1	11/23/91	1	1		138.6	Y	J-890423320-42 TC #6 O/S
1	11/23/91	2	1		137.8	N	
1	11/23/91	3	1		135.2	N	
1	11/23/91	4	1		131.3	N	
1	11/23/91	5	1		122.8	N	
1	12/6/91	1	1		142	Y	J-910126143-64 TC #6 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/6/91	2	1		141	N	
1	12/6/91	3	1		138	N	
1	12/6/91	4	1		128	N	
1	12/6/91	5	1		125	N	
1	12/14/91	1	1		140.7	Y	J-910126143-64 TC #6 O/S
1	12/14/91	2	1		139.7	N	
1	12/14/91	3	1		137.8	N	
1	12/14/91	4	1		132.9	N	
1	12/14/91	5	1		124.9	N	
1	12/22/91	1	1		143.5	Y	J-R1-007 TC #6 O/S
1	12/22/91	2	1		141.9	N	
1	12/22/91	3	1		139.3	N	
1	12/22/91	4	1		129.4	N	
1	12/22/91	5	1		126.5	N	
1	12/28/91	1	1		143.2	Y	TC #6 O/S
1	12/28/91	2	1		142	N	
1	12/28/91	3	1		139.5	N	
1	12/28/91	4	1		135.1	N	
1	12/28/91	5	1		126.4	N	
1	1/6/92	1	1		142.1	Y	J-TI-030 TC #6 O/S
1	1/6/92	2	1		140.8	N	
1	1/6/92	3	1		137.9	N	
1	1/6/92	5	1		124.7	N	
1	1/10/92	1	1		142.8	Y	J 890523512-20
1	1/10/92	2	1		141.7	N	
1	1/10/92	3	1		138.7	N	
1	1/10/92	5	1		125.6	N	
1	1/16/92	1	1		140	Y	J TI-042 TC#4 SUSPECT
1	1/16/92	2	1		138.8	N	
1	1/16/92	3	1		136.2	N	
1	1/16/92	5	1		123.2	N	
1	1/25/92	1	1		141.8	Y	J-890523512-20
1	1/25/92	2	1		140.5	N	
1	1/25/92	3	1		138.1	N	
1	1/25/92	4	1		133.9	N	
1	1/25/92	5	1		124.6	N	
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
1	2/22/92	1	1		138.8	Y	J-910126143-50
1	2/22/92	2	1		138	N	
1	2/22/92	3	1		136.3	N	
1	2/22/92	4	1		134.2	N	
1	2/22/92	5	1		123.7	N	
1	2/23/92	1	1		135.5	N	J 890423320 42
1	2/23/92	2	1		135.6	N	
1	2/23/92	3	1		137.2	Y	
1	2/23/92	4	1		128.2	N	
1	2/23/92	5	1		120.3	N	
1	3/1/92	1	1		141.3	Y	J-910126143-5
1	3/1/92	2	1		139.5	N	
1	3/1/92	3	1		136.4	N	
1	3/1/92	5	1		122.7	N	
1	3/6/92	1	1		139.1	Y	J 910126143-50
1	3/6/92	2	1		137.8	N	
1	3/6/92	3	1		135.8	N	
1	3/6/92	4	1		130.8	N	
1	3/6/92	5	1		121.9	N	
1	3/14/92	1	1		138.6	Y	J 890523512-20 TC #6 O/S
1	3/14/92	2	1		137.6	N	
1	3/14/92	3	1		135.7	N	
1	3/14/92	4	1		132.6	N	
1	3/14/92	5	1		122.5	N	
1	3/22/92	1	1		135.5	N	J 890423320
1	3/22/92	2	1		135.5	N	
1	3/22/92	3	1		137.2	Y	
1	3/22/92	4	1		128.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/22/92	5	1		120.3	N	
1	3/28/92	1	1		137	Y	J 890423320-42
1	3/28/92	2	1		136	N	
1	3/28/92	3	1		134	N	
1	3/28/92	4	1		129	N	
1	3/28/92	5	1		121	N	
1	4/4/92	1	1		140.8	Y	J 890423320-42
1	4/4/92	2	1		139.1	N	
1	4/4/92	3	1		136.5	N	
1	4/4/92	4	1		130.9	N	
1	4/4/92	5	1		123	N	
1	4/9/92	1	1		141.1	Y	J 900925741-79
1	4/9/92	2	1		139.3	N	
1	4/9/92	3	1		136.5	N	
1	4/9/92	5	1		123.2	N	
1	4/18/92	1	1		132.4	Y	J 890423320 42 TC#5 SUSPECT
1	4/18/92	2	1		131.1	N	
1	4/18/92	3	1		128.6	N	
1	4/18/92	4	1		128.2	N	
1	4/25/92	1	1		134.2	Y	
1	4/25/92	2	1		132.7	N	
1	4/25/92	3	1		130.3	N	
1	4/25/92	4	1		125.7	N	
1	4/25/92	5	1		108.1	N	
1	4/30/92	1	1		141.5	Y	J 900925741-79 TC#5 SUSPECT
1	4/30/92	2	1		139.5	N	
1	4/30/92	3	1		136	N	
1	4/30/92	4	1		133	N	
1	5/9/92	1	1		136.6	Y	J TI-045
1	5/9/92	2	1		135.5	N	
1	5/9/92	3	1		133	N	
1	5/9/92	4	1		128.1	N	
1	5/15/92	1	1		140.5	Y	J TI-037
1	5/15/92	2	1		138.4	N	
1	5/15/92	3	1		135.6	N	
1	5/15/92	4	1		130.7	N	
1	5/15/92	5	1		118.1	N	
1	5/20/92	1	1		139.8	Y	J 89042330-42
1	5/20/92	2	1		138	N	
1	5/20/92	3	1		135.6	N	
1	5/20/92	4	1		130.8	N	
1	5/20/92	5	1		119.5	N	
1	5/30/92	1	1		139.8	Y	J 900925741-79
1	5/30/92	2	1		136.7	N	
1	5/30/92	3	1		134.6	N	
1	5/30/92	4	1		132.1	N	
1	5/30/92	5	1		109.5	N	
1	6/8/92	1	1		134.5	Y	J 890423320-42 TC#45 SUSPECT
1	6/8/92	2	1		133.8	N	
1	6/8/92	3	1		131.2	N	
1	6/13/92	1	1		139.3	Y	J 900925741-79
1	6/13/92	2	1		138.5	N	
1	6/13/92	3	1		135.5	N	
1	6/13/92	5	1		111.9	N	
1	6/19/92	1	1		134.2	Y	J 890423320-42
1	6/19/92	2	1		133.7	N	
1	6/19/92	3	1		131.5	N	
1	6/19/92	4	1		121.9	N	
1	6/19/92	5	1		112.3	N	
1	6/25/92	1	1		133.9	Y	J 890423320-42
1	6/25/92	2	1		133.3	N	
1	6/25/92	3	1		130.6	N	
1	6/25/92	4	1		122	N	
1	6/25/92	5	1		101.6	N	
1	7/4/92	1	1		135	Y	J 890523512-47 TC#5 suspect data*
1	7/4/92	2	1		134.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	7/4/92	3	1		131.2	N	
1	7/4/92	4	1		126.7	N	
1	7/8/92	1	1		134	Y	J 890523512-47
1	7/8/92	2	1		133.4	N	
1	7/8/92	3	1		130.5	N	
1	7/8/92	4	1		125.6	N	
1	7/17/92	1	1		133.5	Y	J 890523512-47 TC#5 SUSPECT
1	7/17/92	2	1		133.2	N	
1	7/17/92	3	1		130.4	N	
1	7/17/92	4	1		126	N	
1	7/23/92	1	1		134.5	Y	J 890523512-47
1	7/23/92	2	1		133.2	N	
1	7/23/92	3	1		129.9	N	
1	7/23/92	4	1		127.8	N	
1	7/30/92	1	1		135	Y	J 890523512-47 TC#5 SUSPECT
1	7/30/92	2	1		133.9	N	
1	7/30/92	3	1		131.6	N	
1	7/30/92	4	1		126.6	N	
1	8/6/92	1	1		138.6	Y	J 890523512-47
1	8/6/92	2	1		136.9	N	
1	8/6/92	3	1		134.4	N	
1	8/6/92	4	1		129.3	N	
1	8/13/92	1	1		137.4	Y	J 890523512-47
1	8/13/92	2	1		136.1	N	
1	8/13/92	3	1		134.8	N	
1	8/13/92	4	1		130.5	N	
1	8/21/92	1	1		138.5	Y	J 890523512-47
1	8/21/92	2	1		137.3	N	
1	8/21/92	3	1		134.1	N	
1	8/21/92	4	1		129.2	N	
1	8/27/92	1	1		136.7	Y	J 890523512047
1	8/27/92	2	1		136.2	N	
1	8/27/92	3	1		134.6	N	
1	8/27/92	4	1		130.6	N	
1	9/3/92	1	1		137.1	Y	J 890523512-47
1	9/3/92	2	1		136.1	N	
1	9/3/92	3	1		133.9	N	
1	9/3/92	4	1		129.8	N	
1	9/9/92	1	1		136.5	Y	J 910126143-29
1	9/9/92	2	1		135.8	N	
1	9/9/92	3	1		133.9	N	
1	9/9/92	4	1		129.9	N	
1	9/18/92	1	1		137.8	N	J 890523512-47
1	9/18/92	2	1		136.8	N	
1	9/18/92	3	1		134.7	N	
1	9/18/92	4	1		138.7	Y	
1	9/25/92	1	1		138.4	Y	J 910126143-42
1	9/25/92	2	1		138	N	
1	9/25/92	3	1		135.1	N	
1	9/25/92	4	1		132.8	N	
1	10/1/92	1	1		136.6	N	J 890523512-47
1	10/1/92	2	1		136.7	Y	
1	10/1/92	3	1		135	N	
1	10/1/92	4	1		120.4	N	
1	10/8/92	1	1		137.3	Y	J 890523512-47
1	10/8/92	2	1		136.6	N	
1	10/8/92	3	1		134.2	N	
1	10/15/92	1	1		137.5	N	J 910126143-50
1	10/15/92	2	1		137.6	Y	
1	10/15/92	3	1		135.8	N	
1	10/15/92	4	1		132	N	
1	10/22/92	1	1		137.9	Y	J 890523512-47
1	10/22/92	2	1		137.5	N	
1	10/22/92	3	1		135	N	
1	10/30/92	1	1		137.3	Y	J 910126143-50
1	10/30/92	2	1		137.3	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/30/92	3	1		135.1	N	
1	11/7/92	1	1		139.2	Y	J 817-13-20-019293 TC#4 BAD
1	11/7/92	2	1		138.6	N	
1	11/7/92	3	1		135.4	N	
1	11/13/92	1	1		139.6	Y	J 910126143-50
1	11/13/92	2	1		138.9	N	
1	11/13/92	3	1		136.2	N	
1	11/19/92	1	1		139.8	N	J 817-13-20-019
1	11/19/92	2	1		145.2	Y	
1	11/19/92	3	1		136.1	N	
1	11/25/92	1	1		141.3	N	J 910126143-50
1	11/25/92	2	1		140.8	N	
1	11/25/92	3	1		137.9	N	
1	12/3/92	1	1		139.9	Y	J 910126143-32
1	12/3/92	2	1		139.2	N	
1	12/3/92	3	1		137.5	N	
1	12/11/92	1	1		140.5	Y	J 910126143-32 TC#4 suspect data
1	12/11/92	2	1		139.5	N	
1	12/11/92	3	1		136.1	N	
1	12/20/92	1	1		140.3	Y	J 91012614332
1	12/20/92	2	1		139.3	N	
1	12/20/92	3	1		136.6	N	
1	12/27/92	1	1		143.3	Y	J 910126143-32
1	12/27/92	2	1		142.1	N	
1	12/27/92	3	1		139.3	N	
1	12/27/92	4	1		138.1	N	
1	12/31/92	1	1		141.9	Y	J 91012614332
1	12/31/92	2	1		140	N	
1	12/31/92	3	1		137.2	N	
1	12/31/92	4	1		132.9	N	
1	1/7/93	1	1		138.9	Y	J 91012143-29
1	1/7/93	2	1		138	N	
1	1/7/93	3	1		135.6	N	
1	1/7/93	4	1		131.3	N	
1	1/20/93	1	1		139.6	N	J 910126143-32
1	1/20/93	2	1		138.2	N	
1	1/20/93	3	1		135.6	N	
1	1/20/93	4	1		134.8	N	
1	1/20/93	6	1		140.1	Y	
1	1/23/93	1	1		140.3	Y	J 910126143-29
1	1/23/93	2	1		138.7	N	
1	1/23/93	3	1		135.6	N	
1	1/23/93	4	1		137	N	
1	1/31/93	1	1		139.4	Y	J 910126143-29
1	1/31/93	2	1		136	N	
1	1/31/93	3	1		134.9	N	
1	1/31/93	4	1		137.2	N	
1	2/5/93	1	1		139.1	Y	J 910126143-32
1	2/5/93	2	1		138.2	N	
1	2/5/93	3	1		136.5	N	
1	2/5/93	4	1		139.1	N	
1	2/11/93	1	1			N	OUT OF SERVICE; RETEST REQUESTED
1	2/18/93	1	1		139.2	Y	J 910126143-29
1	2/18/93	2	1		137.6	N	
1	2/18/93	3	1		135	N	
1	2/18/93	4	1		130	N	
1	2/26/93	1	1		139.3	N	J 9010126143-66 RETAKE REQUESTED; OVER MAX LIMIT
1	2/26/93	3	1		137.6	N	
1	2/26/93	4	1		138.6	N	
1	3/4/93	1	1		138	Y	J 817-13-20-019
1	3/4/93	3	1		134.2	N	
1	3/4/93	4	1		137.5	N	
1	3/11/93	1	1		138.5	Y	J 910126143-66
1	3/11/93	3	1		134.1	N	
1	3/11/93	4	1		130.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	3/19/93	1	1		137.4	Y	J 910126143-66
1	3/19/93	3	1		133.5	N	
1	3/19/93	4	1		135.3	N	
1	3/27/93	1	1		136.5	Y	
1	3/27/93	2	1		113.4	N	
1	3/27/93	3	1		133.5	N	
1	3/27/93	4	1		128.9	N	
1	4/1/93	1	1		136	Y	J 8904-23320-42
1	4/1/93	2	1		113.4	N	
1	4/1/93	3	1		133.5	N	
1	4/1/93	4	1		120.5	N	
1	4/8/93	1	1			N	OUT OF SERVICE
1	4/15/93	1	1		137.9	Y	J 910126143-66
1	4/15/93	3	1		133	N	
1	4/15/93	4	1		130.1	N	
1	4/21/93	1	1		138.1	Y	J 910126143-66 TC# 25 & 6 o/s
1	4/21/93	3	1		134.1	N	
1	4/21/93	4	1		122.4	N	
1	4/23/93	1	1		138.3	Y	J 910126143-66
1	4/23/93	3	1		133.3	N	
1	4/29/93	1	1		137.4	Y	J 910126143-66
1	4/29/93	3	1		132.6	N	
1	5/6/93	1	1		136.9	N	J 91012614366 INFRM'D OPS.TEMP NEAR ALERT CRITERIA
1	5/6/93	3	1		132.5	N	
1	5/13/93	1	1		136.3	Y	J 910126143-66
1	5/13/93	3	1		132.1	N	
1	5/13/93	4	1		129.9	N	
1	5/20/93	1	1		137.1	Y	J 910126143-66 TC 256 OS
1	5/20/93	3	1		132.5	N	
1	5/20/93	4	1		129	N	
1	5/27/93	1	1		134.1	Y	J 890423320-42 TC 256 O/S
1	6/3/93	1	1		137	Y	J 817-13-20-019 TC 2-6 O/S
1	6/10/93	1	1		136	Y	J 910126143-32 TC 256 O/S
1	6/10/93	3	1		132.9	N	
1	6/10/93	4	1		132.6	N	
1	6/18/93	1	1		135.8	N	J TC 2.56 O/S. RETEST REQ. ON TC 4 TC#4 suspect data*
1	6/18/93	3	1		132	N	
1	6/27/93	1	1		136.9	Y	J 910126143-32 TC 256 O/S
1	6/27/93	3	1		132.9	N	
1	7/1/93	1	1		133.9	Y	J 890423320-42 TC 256 O/S
1	7/1/93	3	1		130	N	
1	7/8/93	1	1		133.4	Y	J 890423320-42 TC 256 O/S
1	7/8/93	3	1		129.9	N	
1	7/16/93	1	1		133.7	N	TYPE J 890423320-42 TC-4 suspect data RECHK REQ. 7/19/93
1	7/20/93	1	1		135.5	N	J 910126143-14 TC# 2356 O/S
1	7/22/93	1	1		134.6	Y	J 0126143-14 TC-2356 O/S TC-4 SUSPECT
1	7/29/93	1	1		135	N	J 910126143-14 TC# 2356 O/S TC 4 suspect data
1	8/5/93	1	1		132.4	Y	J 890423320-42 TC# 2 3 5 & 6 O/S
1	8/5/93	4	1		116.2	N	
1	8/6/93	1	1		132.8	Y	J 890423320-42 TC# 2 3 5 & 6 O/S
1	8/6/93	4	1		126.1	N	
1	8/13/93	1	1		133.2	Y	J89042332042 TC 235&6 O/S
1	8/13/93	4	1		118.1	N	
1	8/19/93	1	1		133.1	Y	J 89062330-42 TC 235&6 O/S
1	8/19/93	4	1		131.5	N	
1	8/27/93	1	1		139.8	Y	J 910126143-66 TC 235&6 O/S
1	8/27/93	4	1		134.7	N	
1	9/3/93	1	1		137.9	Y	J 910126143-66 TC 2356 O/S
1	9/3/93	4	1		131.7	N	
1	9/12/93	1	1		139.9	N	J TI-042 TC 2356 O/S suspect data TC 4
1	9/20/93	1	1		133.9	Y	J 910126143-50 TC 2356 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/20/93	4	1		124.9	N	
1	9/27/93	1	2		135.3	Y	HDAT TC 23456 O/S
1	9/27/93	1	1		135.4	Y	J 890423320-42 TC 2356 O/S
1	9/27/93	4	1		113.8	N	
1	10/5/93	1	1		137.2	Y	J 910126143-48 TC 2356 O/S
1	10/5/93	4	1		137.2	N	
1	10/11/93	1	1		136.9	N	J 910126143-48 TC 2356 O/S
1	10/11/93	4	1		140.5	Y	
1	10/18/93	1	1		133.4	N	J 910126143-14 TC 2356 O/S suspect data
1	10/27/93	1	1		137.6	Y	J 91012614348 TC 23456 O/S
1	11/1/93	1	1		137.4	N	J 910126143-29 TC 2356 O/S
1	11/1/93	4	1		138.4	Y	
1	11/8/93	1	1		138	N	J 910126143-29 TC 23456 O/S
1	11/17/93	1	1		137.6	N	J TI-041 TC 2356 O/S suspect data
1	11/23/93	1	1		138.9	N	INCONSISTANT READING
1	11/23/93	4	1		139.3	Y	J 910126143-29 TC 2356 O/S
1	11/29/93	1	1		137.9	N	J-91026143-29 TC 2356 O/S rechk reqstd data suspect
1	11/29/93	1	2		138.5	N	J-910126143-29 TC 256 O/S rechk reqstd data suspect
1	11/29/93	3	2		137.9	N	
1	12/1/93	1	1		138.1	N	J910126143-29 rechk from 1211 retake DONE on 12-7-93 Bad Daa
1	12/7/93	1	1		138.3	Y	J 910126143-29 TC 256 O/S
1	12/7/93	3	1		132.4	N	
1	12/7/93	4	1		131.8	N	
1	12/14/93	1	1		138.7	Y	J 910126143-29 TC 2345 O/S
1	12/14/93	4	1		131.4	N	
1	12/20/93	1	1		138.2	Y	J 910126143-29 TC 256 O/S
1	12/20/93	1	2		138.2	Y	J 910126143-29 TC 256 O/S
1	12/20/93	3	2		135.5	N	
1	12/20/93	3	1		137.8	N	
1	12/20/93	4	2		130.3	N	
1	12/20/93	4	1		130.6	N	
1	12/21/93	1	1		137.7	Y	J 910126143-29 TC 2567 O/S
1	12/21/93	1	2		139.1	Y	J 910126143-29 TC 256 O/S
1	12/21/93	3	2		131	N	
1	12/21/93	3	1		131.3	N	
1	12/21/93	4	1		130.4	N	
1	12/21/93	4	2		131	N	
1	12/22/93	1	1		138.5	Y	J 910126143-29 TC 256 O/S
1	12/22/93	3	1		133.4	N	
1	12/22/93	4	1		130.9	N	
1	12/23/93	1	1		138.1	Y	J 91012643-29 TC 256 O/S
1	12/23/93	3	1		136.2	N	
1	12/23/93	4	1		130.1	N	
1	12/24/93	1	1		138.4	Y	J 910126143-29 TC 256 O/S
1	12/24/93	3	1		134.3	N	
1	12/24/93	4	1		130.8	N	
1	12/25/93	1	1		139.2	Y	J 910126143-29 TC 256 O/S
1	12/25/93	3	1		131.6	N	
1	12/25/93	4	1		131.5	N	
1	12/26/93	1	1		138	Y	J 910126143-29 TC 256 O/S
1	12/26/93	3	1		130	N	
1	12/26/93	4	1		130	N	
1	12/27/93	1	1		138	Y	J910126243-29 TC 256 O/S
1	12/27/93	3	1		136	N	
1	12/27/93	4	1		130	N	
1	12/28/93	1	1			N	J910126143-29 TC 1 thru 6 O/S Recheck Requested
1	12/29/93	1	1		137.9	Y	J 910126143-29 TC 256 O/S
1	12/29/93	1	2		138	Y	J 910126143-29 TC 256 O/S
1	12/29/93	1	4			N	J910126143-32 TC 1256 O/S
1	12/29/93	1	3			N	TYPE J TC 1256 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-101							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/29/93	3	2		129.2	N	
1	12/29/93	3	1		129.9	N	
1	12/29/93	3	3		131.2	N	
1	12/29/93	3	4		132	N	
1	12/29/93	4	1		129.9	N	
1	12/29/93	4	2		130	N	
1	12/29/93	4	4		131.1	N	
1	12/29/93	4	3		131.8	N	
1	12/30/93	1	1		138.4	Y	J 910126143-32 TC 2356 O/S
1	12/30/93	1	2		138.9	Y	J 910126143-32 TC 256 O/S
1	12/30/93	3	2		124.9	N	
1	12/30/93	4	1		130.4	N	
1	12/30/93	4	2		131.2	N	
1	12/31/93	1	1		139.2	Y	J 910126143-32 TC 256 O/S
1	12/31/93	3	1		124	N	
1	12/31/93	4	1		130.5	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	9/28/74	1			164		
1	9/28/74	2			158		
1	9/28/74	3			140		
1	9/28/74	4			133		
1	9/28/74	5			126		
1	9/28/74	6			126		
1	9/28/74	7			126		
1	9/28/74	8			126		
1	9/28/74	9			120		
1	9/28/74	10			115		
1	9/28/74	11			115		
1	9/28/74	12			115		
1	10/20/74	1		75.56	168		raw data - assumed degree C
1	10/20/74	2		71.11	160		raw data - assumed degree C
1	10/20/74	3		59.44	139		raw data - assumed degree C
1	10/20/74	4		55.56	132		raw data - assumed degree C
1	10/20/74	5		55.56	132		raw data - assumed degree C
1	10/20/74	6		55.56	132		raw data - assumed degree C
1	10/20/74	7		48.89	120		raw data - assumed degree C
1	10/20/74	8		48.33	119		raw data - assumed degree C
1	10/20/74	9		48.33	119		raw data - assumed degree C
1	10/20/74	10		48.33	119		raw data - assumed degree C
1	10/20/74	11		48.33	119		raw data - assumed degree C
1	10/20/74	12		48.33	119		raw data - assumed degree C
1	12/2/74	1		72.78	163		raw data - assumed degree C
1	12/2/74	2		67.22	153		raw data - assumed degree C
1	12/2/74	3		53.33	128		raw data - assumed degree C
1	12/2/74	4		53.33	128		raw data - assumed degree C
1	12/2/74	5		53.33	128		raw data - assumed degree C
1	12/2/74	6		53.33	128		raw data - assumed degree C
1	12/2/74	7		53.33	128		raw data - assumed degree C
1	12/2/74	8		53.33	128		raw data - assumed degree C
1	12/2/74	9		53.33	128		raw data - assumed degree C
1	12/2/74	10		53.33	128		raw data - assumed degree C
1	12/2/74	11		50.56	123		raw data - assumed degree C
1	12/2/74	12		50	122		raw data - assumed degree C
1	12/11/74	1			163		
1	12/11/74	2			153		
1	12/11/74	3			132		
1	12/11/74	4			132		
1	12/11/74	5			132		
1	12/11/74	6			132		
1	12/11/74	7			132		
1	12/11/74	8			132		
1	12/11/74	9			132		
1	12/11/74	10			132		
1	12/11/74	11			132		
1	12/11/74	12			132		
1	12/13/74	1			163		
1	12/13/74	2			153		
1	12/13/74	3			132		
1	12/13/74	4			132		
1	12/13/74	5			132		
1	12/13/74	6			132		
1	12/13/74	7			132		
1	12/13/74	8			132		
1	12/13/74	9			132		
1	12/13/74	10			132		
1	12/13/74	11			132		
1	12/13/74	12			130		
1	2/25/75	1			163		
1	2/25/75	2			156		
1	2/25/75	3			129		
1	2/25/75	4			129		
1	2/25/75	5			129		
1	2/25/75	6			128		
1	2/25/75	7			123		
1	2/25/75	8			122		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/25/75	9			122		
1	2/25/75	10			122		
1	2/25/75	11			122		
1	2/25/75	12			122		
1	2/26/75	1			163		
1	2/26/75	2			156		
1	2/26/75	3			129		
1	2/26/75	4			129		
1	2/26/75	5			129		
1	2/26/75	6			129		
1	2/26/75	7			123		
1	2/26/75	8			123		
1	2/26/75	9			122		
1	2/26/75	10			122		
1	2/26/75	11			122		
1	2/26/75	12			122		
1	3/6/75	1			163		
1	3/6/75	2			156		
1	3/6/75	3			135		
1	3/6/75	4			124		
1	3/6/75	5			124		
1	3/6/75	6			124		
1	3/6/75	7			124		
1	3/6/75	8			124		
1	3/6/75	9			124		
1	3/6/75	10			124		
1	3/6/75	11			124		
1	3/6/75	12			124		
1	3/17/75	1			163		
1	3/17/75	2			158		
1	3/17/75	3			143		
1	3/17/75	4			135		
1	3/17/75	5			131		
1	3/17/75	6			131		
1	3/17/75	7			133		
1	3/17/75	8			133		
1	3/17/75	9			133		
1	3/17/75	10			133		
1	3/17/75	11			133		
1	3/17/75	12			133		
1	4/9/75	1			164		
1	4/9/75	2			160		
1	4/9/75	3			151		
1	4/9/75	4			142		
1	4/9/75	5			140		
1	4/9/75	6			139		
1	4/9/75	7			139		
1	4/9/75	8			139		
1	4/9/75	9			139		
1	4/9/75	10			139		
1	4/9/75	11			139		
1	4/9/75	12			139		
1	4/10/75	1			164		
1	4/10/75	2			161		
1	4/10/75	3			151		
1	4/10/75	4			143		
1	4/10/75	5			140		
1	4/10/75	6			140		
1	4/10/75	7			140		
1	4/10/75	8			139		
1	4/10/75	9			139		
1	4/10/75	10			139		
1	4/10/75	11			139		
1	4/10/75	12			139		
1	4/21/75	1			165		
1	4/21/75	2			162		
1	4/21/75	3			151		
1	4/21/75	4			144		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/21/75	5			143		
1	4/21/75	6			140		
1	4/21/75	7			138		
1	4/21/75	8			138		
1	4/21/75	9			138		
1	4/21/75	10			135		
1	4/21/75	11			128		
1	4/21/75	12			124		
1	5/12/75	1			167		
1	5/12/75	2			165		
1	5/12/75	3			155		
1	5/12/75	4			148		
1	5/12/75	5			144		
1	5/12/75	6			142		
1	5/12/75	7			142		
1	5/12/75	8			142		
1	5/12/75	9			142		
1	5/12/75	10			142		
1	5/12/75	11			142		
1	5/12/75	12			142		
1	7/21/75	1			177		
1	7/21/75	2			176		
1	7/21/75	3			168		
1	7/21/75	4			159		
1	7/21/75	5			153		
1	7/21/75	6			149		
1	7/21/75	7			145		
1	7/21/75	8			143		
1	7/21/75	9			143		
1	7/21/75	10			143		
1	7/21/75	11			143		
1	7/21/75	12			144		
1	11/3/75	1			199		
1	11/3/75	2			192		
1	11/3/75	3			183		
1	11/3/75	4			175		
1	11/3/75	5			168		
1	11/3/75	6			160		
1	11/3/75	7			151		
1	11/3/75	8			142		
1	11/3/75	9			129		
1	11/3/75	10			114		
1	11/3/75	11			109		
1	11/3/75	12			108		
1	1/20/76	1			188		
1	1/20/76	2			188		
1	1/20/76	3			174		
1	1/20/76	4			159		
1	1/20/76	5			137		
1	1/20/76	6			105		
1	1/20/76	7			92		
1	1/20/76	8			90		
1	1/20/76	9			89		
1	1/20/76	10			88		
1	1/20/76	11			89		
1	1/20/76	12			89		
1	1/20/76	13			89		
1	1/20/76	14			89		
1	3/5/76	1			192		
1	3/5/76	2			188		
1	3/5/76	3			172		
1	3/5/76	4			156		
1	3/5/76	5			142		
1	3/5/76	6			124		
1	3/5/76	7			118		
1	3/5/76	8			93		
1	3/5/76	9			92		
1	3/5/76	10			92		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/5/76	11			92		
1	3/5/76	12			92		
1	3/30/76	1			191		
1	3/30/76	2			186		
1	3/30/76	3			169		
1	3/30/76	4			152		
1	3/30/76	5			134		
1	3/30/76	6			107		
1	3/30/76	7			86		
1	3/30/76	8			86		
1	3/30/76	9			86		
1	3/30/76	10			86		
1	3/30/76	11			87		
1	3/30/76	12			88		
1	4/3/76	1			191		
1	4/3/76	2			196		
1	4/3/76	3			170		
1	4/3/76	4			154		
1	4/3/76	5			134		
1	4/3/76	6			110		
1	4/3/76	7			93		
1	4/3/76	8			88		
1	4/3/76	9			88		
1	4/3/76	10			87		
1	4/3/76	11			87		
1	4/3/76	12			87		
1	5/2/76	1			192		
1	5/2/76	2			186		
1	5/2/76	3			169		
1	5/2/76	4			150		
1	5/2/76	5			130		
1	5/2/76	6			108		
1	5/2/76	7			84		
1	5/2/76	8			83		
1	5/2/76	9			83		
1	5/2/76	10			83		
1	5/2/76	11			83		
1	5/2/76	12			83		
1	6/1/76	1			196		
1	6/1/76	2			190		
1	6/1/76	3			173		
1	6/1/76	4			155		
1	6/1/76	5			138		
1	6/1/76	6			121		
1	6/1/76	7			100		
1	6/1/76	8			94		
1	6/1/76	9			94		
1	6/1/76	10			94		
1	6/1/76	11			94		
1	6/1/76	12			94		
1	6/1/76	13			94		
1	6/1/76	14			94		
1	7/1/76	1			184		
1	7/1/76	2			177		
1	7/1/76	3			160		
1	7/1/76	4			143		
1	7/1/76	5			127		
1	7/1/76	6			111		
1	7/1/76	7			92		
1	7/1/76	8			84		
1	7/1/76	9			84		
1	7/1/76	10			84		
1	7/1/76	11			84		
1	7/1/76	12			84		
1	7/1/76	13			84		
1	7/1/76	14			83		
1	7/21/76	1			188		
1	7/21/76	2			182		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	7/21/76	3			166		
1	7/21/76	4			150		
1	7/21/76	5			134		
1	7/21/76	6			118		
1	7/21/76	7			100		
1	7/21/76	8			91		
1	7/21/76	9			91		
1	7/21/76	10			91		
1	7/21/76	11			91		
1	7/21/76	12			91		
1	7/21/76	13			91		
1	7/21/76	14			91		
1	8/3/76	1			188		
1	8/3/76	2			182		
1	8/3/76	3			166		
1	8/3/76	4			150		
1	8/3/76	5			133		
1	8/3/76	6			115		
1	8/3/76	7			94		
1	8/3/76	8			93		
1	8/3/76	9			93		
1	8/3/76	10			93		
1	8/3/76	11			93		
1	8/3/76	12			93		
1	8/3/76	13			93		
1	8/3/76	14			93		
1	9/2/76	1			189		
1	9/2/76	2			184		
1	9/2/76	3			167		
1	9/2/76	4			150		
1	9/2/76	5			136		
1	9/2/76	6			120		
1	9/2/76	7			102		
1	9/2/76	8			98		
1	9/2/76	9			98		
1	9/2/76	10			98		
1	9/2/76	11			98		
1	9/2/76	11			98		
1	9/2/76	12			98		
1	10/3/76	1			189		
1	10/3/76	2			185		
1	10/3/76	3			168		
1	10/3/76	4			153		
1	10/3/76	4			153		
1	10/3/76	5			138		
1	10/3/76	6			111		
1	10/3/76	7			116		
1	10/3/76	8			112		
1	10/3/76	9			112		
1	10/3/76	10			112		
1	10/3/76	11			112		
1	10/3/76	12			112		
1	11/1/76	1			190		
1	11/1/76	2			184		
1	11/1/76	3			170		
1	11/1/76	4			156		
1	11/1/76	5			140		
1	11/1/76	6			125		
1	11/1/76	7			110		
1	11/1/76	8			102		
1	11/1/76	9			102		
1	11/1/76	10			102		
1	11/1/76	11			102		
1	11/1/76	12			100		
1	11/1/76	13			100		
1	11/1/76	14			100		
1	12/4/76	1			188		
1	12/4/76	2			184		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/4/76	3			168		
1	12/4/76	4			151		
1	12/4/76	5			131		
1	12/4/76	6			112		
1	12/4/76	7			99		
1	12/4/76	8			99		
1	12/4/76	9			99		
1	12/4/76	10			99		
1	12/4/76	11			99		
1	12/4/76	12			99		
1	1/1/77	1			187		
1	1/1/77	2			182		
1	1/1/77	3			168		
1	1/1/77	4			154		
1	1/1/77	5			142		
1	1/1/77	6			137		
1	1/1/77	7			136		
1	1/1/77	8			137		
1	1/1/77	9			136		
1	1/1/77	10			136		
1	1/1/77	11			136		
1	1/1/77	12			136		
1	2/1/77	1			188		
1	2/1/77	2			184		
1	2/1/77	3			170		
1	2/1/77	4			160		
1	2/1/77	5			150		
1	2/1/77	6			146		
1	2/1/77	7			140		
1	2/1/77	8			138		
1	2/1/77	9			134		
1	2/1/77	10			134		
1	2/1/77	11			134		
1	2/1/77	12			134		
1	2/1/77	13			129		
1	2/1/77	14			110		
1	2/26/77	1			185		
1	2/26/77	2			180		
1	2/26/77	3			170		
1	2/26/77	4			160		
1	2/26/77	5			151		
1	2/26/77	6			146		
1	2/26/77	7			140		
1	2/26/77	8			135		
1	2/26/77	9			131		
1	2/26/77	10			130		
1	2/26/77	11			130		
1	2/26/77	12			130		
1	2/26/77	13			130		
1	2/26/77	14			127		
1	3/16/77	1			186		
1	3/16/77	2			181		
1	3/16/77	3			172		
1	3/16/77	4			163		
1	3/16/77	5			156		
1	3/16/77	6			151		
1	3/16/77	7			144		
1	3/16/77	8			135		
1	3/16/77	9			132		
1	3/16/77	10			131		
1	3/16/77	11			130		
1	3/16/77	12			130		
1	3/16/77	13			130		
1	3/16/77	14			127		
1	3/26/77	1			185		
1	3/26/77	2			180		
1	3/26/77	3			170		
1	3/26/77	4			160		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/26/77	5			151		
1	3/26/77	6			146		
1	3/26/77	7			140		
1	3/26/77	8			135		
1	3/26/77	9			131		
1	3/26/77	10			130		
1	3/26/77	11			130		
1	3/26/77	12			130		
1	3/26/77	13			130		
1	3/26/77	14			127		
1	4/3/77	1			187		
1	4/3/77	2			185		
1	4/3/77	3			174		
1	4/3/77	4			165		
1	4/3/77	5			158		
1	4/3/77	6			152		
1	4/3/77	7			142		
1	4/3/77	8			132		
1	4/3/77	9			132		
1	4/3/77	10			132		
1	4/3/77	11			132		
1	4/3/77	12			132		
1	4/3/77	13			132		
1	4/3/77	14			127		
1	4/9/77	1			185		
1	4/9/77	2			185		
1	4/9/77	3			175		
1	4/9/77	4			160		
1	4/9/77	5			155		
1	4/9/77	6			150		
1	4/9/77	7			142		
1	4/9/77	8			132		
1	4/9/77	9			132		
1	4/9/77	10			132		
1	4/9/77	11			132		
1	4/9/77	12			132		
1	4/9/77	13			132		
1	4/9/77	14			128		
1	5/1/77	1			187		
1	5/1/77	2			184		
1	5/1/77	3			175		
1	5/1/77	4			163		
1	5/1/77	5			141		
1	5/1/77	6			136		
1	5/1/77	7			135		
1	5/1/77	8			134		
1	5/1/77	9			133		
1	5/1/77	10			127		
1	5/1/77	11			125		
1	5/1/77	12			116		
1	6/7/77	1			190		
1	6/7/77	2			189		
1	6/7/77	3			176		
1	6/7/77	4			165		
1	6/7/77	5			154		
1	6/7/77	6			150		
1	6/7/77	7			145		
1	6/7/77	8			140		
1	6/7/77	9			135		
1	6/7/77	10			135		
1	6/7/77	11			135		
1	6/7/77	12			135		
1	6/13/77	1			190		
1	6/13/77	2			189		
1	6/13/77	3			176		
1	6/13/77	4			165		
1	6/13/77	5			154		
1	6/13/77	6			150		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	6/13/77	7			145		
1	6/13/77	8			140		
1	6/13/77	9			135		
1	6/13/77	10			135		
1	6/13/77	11			135		
1	6/13/77	12			135		
1	6/13/77	13			135		
1	7/11/77	1			190		
1	7/11/77	2			188		
1	7/11/77	3			178		
1	7/11/77	4			169		
1	7/11/77	5			162		
1	7/11/77	6			154		
1	7/11/77	7			148		
1	7/11/77	8			140		
1	7/11/77	9			135		
1	7/11/77	10			135		
1	7/11/77	11			135		
1	7/11/77	12			135		
1	8/5/77	1			192		
1	8/5/77	2			190		
1	8/5/77	3			180		
1	8/5/77	4			173		
1	8/5/77	5			161		
1	8/5/77	6			153		
1	8/5/77	7			145		
1	8/5/77	8			137		
1	8/5/77	9			137		
1	8/5/77	10			137		
1	8/5/77	11			137		
1	8/5/77	12			137		
1	8/23/77	1			192		
1	8/23/77	2			190		
1	8/23/77	3			182		
1	8/23/77	4			174		
1	8/23/77	5			165		
1	8/23/77	6			151		
1	8/23/77	7			145		
1	8/23/77	8			137		
1	8/23/77	9			137		
1	8/23/77	10			137		
1	8/23/77	11			137		
1	8/23/77	12			137		
1	9/5/77	1			193		
1	9/5/77	2			192		
1	9/5/77	3			182		
1	9/5/77	4			174		
1	9/5/77	5			165		
1	9/5/77	6			155		
1	9/5/77	7			147		
1	9/5/77	8			138		
1	9/5/77	9			138		
1	9/5/77	10			138		
1	9/5/77	11			138		
1	9/5/77	12			138		
1	9/5/77	13			138		
1	9/5/77	14			132		
1	9/5/77	15			114		
1	9/5/77	16			110		
1	10/3/77	1			195		
1	10/3/77	2			194		
1	10/3/77	3			185		
1	10/3/77	4			175		
1	10/3/77	5			166		
1	10/3/77	6			158		
1	10/3/77	7			148		
1	10/3/77	8			140		
1	10/3/77	9			140		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/3/77	10			140		
1	10/3/77	11			140		
1	10/3/77	12			140		
1	10/3/77	13			140		
1	10/3/77	14			136		
1	10/3/77	15			106		
1	10/3/77	16			107		
1	11/3/77	1			195		
1	11/3/77	2			195		
1	11/3/77	3			185		
1	11/3/77	4			176		
1	11/3/77	5			170		
1	11/3/77	6			165		
1	11/3/77	7			146		
1	11/3/77	8			140		
1	11/3/77	9			140		
1	11/3/77	10			140		
1	11/3/77	11			140		
1	11/3/77	12			140		
1	11/3/77	13			140		
1	11/3/77	14			132		
1	12/4/77	1			195		
1	12/4/77	2			195		
1	12/4/77	3			187		
1	12/4/77	4			175		
1	12/4/77	5			170		
1	12/4/77	6			160		
1	12/4/77	7			150		
1	12/4/77	8			140		
1	12/4/77	9			140		
1	12/4/77	10			140		
1	12/4/77	11			140		
1	12/15/77	1			198		
1	12/15/77	2			197		
1	12/15/77	3			188		
1	12/15/77	4			179		
1	12/15/77	5			170		
1	12/15/77	6			162		
1	12/15/77	7			152		
1	12/15/77	8			142		
1	12/15/77	9			142		
1	12/15/77	10			142		
1	12/15/77	11			142		
1	12/15/77	12			142		
1	1/12/78	1			200		
1	1/12/78	2			200		
1	1/12/78	3			190		
1	1/12/78	4			180		
1	1/12/78	5			170		
1	1/12/78	6			160		
1	1/12/78	7			150		
1	1/12/78	8			142		
1	1/12/78	9			142		
1	1/12/78	10			142		
1	1/12/78	11			142		
1	1/25/78	1			200		
1	1/25/78	2			200		
1	1/25/78	3			190		
1	1/25/78	4			180		
1	1/25/78	5			170		
1	1/25/78	6			160		
1	1/25/78	7			150		
1	1/25/78	8			143		
1	1/25/78	9			143		
1	1/25/78	10			143		
1	1/25/78	11			140		
1	2/2/78	1			200		
1	2/2/78	2			199		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	2/2/78	3			190		
1	2/2/78	4			180		
1	2/2/78	5			170		
1	2/2/78	6			166		
1	2/2/78	7			150		
1	2/2/78	8			142		
1	2/2/78	9			142		
1	2/2/78	10			142		
1	2/2/78	11			139		
1	2/2/78	12			107		
1	2/2/78	13			101		
1	3/9/78	1			198		
1	3/9/78	2			198		
1	3/9/78	3			196		
1	3/9/78	4			181		
1	3/9/78	5			173		
1	3/9/78	6			164		
1	3/9/78	7			152		
1	3/9/78	8			142		
1	3/9/78	9			141		
1	3/9/78	10			141		
1	3/9/78	11			141		
1	4/11/78	1			197		
1	4/11/78	2			197		
1	4/11/78	3			189		
1	4/11/78	4			181		
1	4/11/78	5			172		
1	4/11/78	6			160		
1	4/11/78	7			145		
1	4/11/78	8			139		
1	4/11/78	9			139		
1	4/11/78	10			139		
1	4/11/78	11			139		
1	4/11/78	12			130		
1	4/11/78	13			102		
1	4/11/78	14			101		
1	5/3/80	1			205		
1	5/3/80	3			195		
1	5/3/80	4			187		
1	5/3/80	5			127		
1	5/3/80	6			165		
1	5/3/80	7			153		
1	5/3/80	8			142		
1	5/3/80	9			137		
1	5/3/80	10			131		
1	5/3/80	11			126		
1	5/3/80	12			126		
1	9/19/80	1			204		
1	9/19/80	2			201		
1	9/19/80	3			189		
1	9/19/80	4			172		
1	9/19/80	6			156		
1	9/19/80	7			144		
1	9/19/80	8			126		
1	9/19/80	9			112		
1	9/19/80	10			113		
1	9/19/80	11			114		
1	9/19/80	12			114		
1	9/19/80	13			114		
1	9/19/80	14			114		
1	9/19/80	15			114		
1	9/19/80	16			114		
1	2/7/81	1			208		
1	2/7/81	2			207		
1	2/7/81	3			198		
1	2/7/81	4			189		
1	2/7/81	5			179		
1	2/7/81	6			167		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/7/81	7			153		
1	2/7/81	8			128		
1	2/7/81	9			108		
1	2/7/81	10			108		
1	2/7/81	11			108		
1	2/7/81	12			108		
1	2/7/81	13			108		
1	2/7/81	14			108		
1	2/7/81	15			108		
1	2/7/81	16			108		
1	1/13/82	1			198		
1	1/13/82	2			197		
1	1/13/82	3			189		
1	1/13/82	4			180		
1	1/13/82	5			170		
1	1/13/82	6			157		
1	1/13/82	7			139		
1	1/13/82	8			117		
1	1/13/82	9			95		
1	1/13/82	10			99		
1	1/13/82	11			99		
1	1/13/82	12			99		
1	1/13/82	13			99		
1	1/13/82	14			99		
1	1/13/82	15			99		
1	1/13/82	16			99		
1	5/29/82	1			198		
1	5/29/82	2			197		
1	5/29/82	3			188		
1	5/29/82	4			179		
1	5/29/82	5			168		
1	5/29/82	6			153		
1	5/29/82	7			135		
1	5/29/82	8			117		
1	5/29/82	9			93		
1	5/29/82	10			99		
1	5/29/82	11			99		
1	5/29/82	12			99		
1	10/6/82	1			196		
1	10/6/82	2			195		
1	10/6/82	3			187		
1	10/6/82	4			177		
1	10/6/82	5			167		
1	10/6/82	6			154		
1	10/6/82	7			136		
1	10/6/82	8			119		
1	10/6/82	9			95		
1	10/6/82	10			104		
1	10/6/82	11			106		
1	10/6/82	12			106		
1	10/6/82	13			106		
1	10/6/82	14			106		
1	10/6/82	15			106		
1	10/6/82	16			106		
1	8/23/83	1					75 - suspect data LOW
1	1/9/84	1			178		
1	1/9/84	2			177		
1	1/9/84	3			171		
1	1/9/84	5			151		
1	1/9/84	6			106		
1	2/13/84	1					120 - suspect data (low)
1	2/13/84	2					122 - suspect data (low)
1	2/13/84	3					124 - suspect data (low)
1	2/13/84	4					124 - suspect data (low)
1	2/13/84	5					121 - suspect data (low)
1	2/13/84	6					88 - suspect data (low)
1	2/14/84	1			180		
1	2/14/84	2			178		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/14/84	3			172		
1	2/14/84	5			152		
1	2/14/84	6			105		
1	3/14/84	1			169		
1	3/14/84	2			169		
1	3/14/84	3			163		
1	3/14/84	4			164		
1	3/14/84	5			144		
1	3/14/84	6			94		
1	4/9/84	1			176		
1	4/9/84	2			175		
1	4/9/84	3			167		
1	4/9/84	4					123 - suspect data (low)
1	4/9/84	5			147		
1	4/9/84	6			99		
1	6/19/84	1			174		
1	6/19/84	2			173		
1	6/19/84	3			166		
1	6/19/84	4			163		
1	6/19/84	5			147		
1	6/19/84	6			100		
1	9/1/84	1			175		
1	9/1/84	2			173		
1	9/1/84	3			166		
1	9/1/84	5			150		
1	9/1/84	6			108		
1	10/5/84	1			173		
1	10/5/84	2			170		
1	10/5/84	3			163		
1	10/5/84	4			157		
1	10/5/84	5			147		
1	10/5/84	6			106		
1	1/8/85	1			172		
1	1/8/85	2			171		
1	1/8/85	3			163		
1	1/8/85	5			146		
1	1/8/85	6			98		
1	2/4/85	1			198		
1	2/4/85	2			196		
1	2/4/85	3			188		
1	2/4/85	5			172		
1	2/4/85	6			123		
1	4/2/85	1			170		
1	4/2/85	2			169		
1	4/2/85	3			159		
1	4/2/85	4			140		
1	4/2/85	5			139		
1	4/2/85	6			130		
1	5/2/85	1			165		
1	5/2/85	2			161		
1	5/2/85	3			156		
1	5/2/85	4			151		
1	5/2/85	5			139		
1	5/2/85	6			92		
1	6/4/85	1			176		
1	6/4/85	2			172		
1	6/4/85	3			166		
1	6/4/85	4			160		
1	6/4/85	5			149		
1	6/4/85	6			106		
1	7/2/85	1			169		
1	7/2/85	2			165		
1	7/2/85	3			159		
1	7/2/85	4			157		
1	7/2/85	5			142		
1	7/2/85	6			102		
1	8/6/85	1					212 - suspect data (high)
1	8/6/85	2					207 - suspect data (high)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	8/6/85	3					207 - suspect data (high)
1	8/6/85	4					192 - suspect data (high)
1	8/6/85	5					208 - suspect data (high)
1	8/6/85	6					201 - suspect data (high)
1	8/13/85	1					194 - suspect data (high)
1	8/13/85	2					190 - suspect data (high)
1	8/13/85	3					185 - suspect data (high)
1	8/13/85	5					169 - suspect data (high)
1	8/13/85	6					129 - suspect data (high)
1	9/1/85	1					195 - suspect data (high)
1	9/1/85	2					195 - suspect data (high)
1	9/1/85	3					195 - suspect data (high)
1	9/1/85	4					194 - suspect data (high)
1	9/1/85	5					194 - suspect data (high)
1	9/1/85	6					194 - suspect data (high)
1	5/10/86	1			171		
1	5/10/86	2			168		
1	5/10/86	3			162		
1	5/10/86	5			146		
1	5/10/86	6			100		
1	6/2/86	1			171		
1	6/2/86	2			164		
1	6/2/86	3			162		
1	6/2/86	5			146		
1	6/2/86	6			101		
1	7/7/86	1			171		
1	7/7/86	2			164		
1	7/7/86	3			162		
1	7/7/86	5			146		
1	7/7/86	6			101		
1	8/4/86	1			170.2		
1	8/4/86	2			167.1		
1	8/4/86	3			161.3		
1	8/4/86	5			145.8		
1	8/4/86	6			104.7		
1	9/8/86	1			170		
1	9/8/86	2			168		
1	9/8/86	3			163		
1	9/8/86	5			149		
1	9/8/86	6			111		
1	10/7/86	1			170.4		
1	10/7/86	2			167.1		
1	10/7/86	3			161.3		
1	10/7/86	5			146.7		
1	10/7/86	6			101.9		
1	11/1/86	1			171.6		
1	11/1/86	2			168.4		
1	11/1/86	3			163.1		
1	11/1/86	5			148.3		
1	11/1/86	6			107.5		
1	12/2/86	1			170.8		
1	12/2/86	2			167.3		
1	12/2/86	3			161.7		
1	12/2/86	5			147.3		
1	12/2/86	6			105.6		
1	2/2/87	1			170.1		
1	2/2/87	2			166		
1	2/2/87	3			161		
1	2/2/87	5			146		
1	2/2/87	6			101		
1	3/2/87	1			170		
1	3/2/87	2			167		
1	3/2/87	3			162		
1	3/2/87	5			146		
1	3/2/87	6			101		
1	4/6/87	1			169		
1	4/6/87	2			167		
1	4/6/87	3			163		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	4/6/87	4			162		
1	4/6/87	5			149		
1	4/6/87	6			105		
1	5/3/87	1			194.3		
1	5/3/87	3			161.4		
1	5/3/87	5			146		
1	5/3/87	6			101.4		
1	7/6/87	1			170		
1	7/6/87	3			161		
1	7/6/87	5			146		
1	7/6/87	6			105		
1	8/4/87	1			168		
1	8/4/87	3			159.7		
1	8/4/87	5			145.1		
1	8/4/87	6			105.8		
1	9/6/87	1			155.6		
1	9/6/87	3			148.3		
1	9/6/87	5			136		
1	9/6/87	6			104.6		
1	10/5/87	1			168		
1	10/5/87	3			162		
1	10/5/87	5			148		
1	10/5/87	6			110		
1	11/4/87	1			169		
1	11/4/87	3			161		
1	11/4/87	5			147		
1	11/4/87	6			107		
1	12/8/87	1			173.8		
1	12/8/87	3			161.7		
1	12/8/87	5			147.7		
1	12/8/87	6			105.9		
1	12/20/87	1			169		
1	12/20/87	3			161		
1	12/20/87	5			149		
1	12/20/87	6			104		
1	1/4/88	1			170.2		
1	1/4/88	1	1		170.2	Y	
1	1/4/88	3			161.5		
1	1/4/88	3	1		161.5	N	
1	1/4/88	5			147.3		
1	1/4/88	5	1		147.3	N	
1	1/4/88	6			103.4		
1	1/4/88	6	1		103.4	N	
1	2/1/88	1			165		
1	2/1/88	1	1		165	Y	
1	2/1/88	3	1		151	N	
1	2/1/88	3			156		
1	2/1/88	5			140		
1	2/1/88	5	1		142	N	
1	2/1/88	6			100		
1	2/1/88	6	1		100	N	
1	3/8/88	1			170		
1	3/8/88	1	1		170	Y	
1	3/8/88	3			160		
1	3/8/88	3	1		160	N	
1	3/8/88	5			147		
1	3/8/88	5	1		147	N	
1	3/8/88	6			103		
1	3/8/88	6	1		103	N	
1	3/10/88	1			167		
1	3/10/88	5			145		
1	3/10/88	6			106		
1	4/4/88	1			159		
1	4/4/88	1	1		159	Y	
1	4/4/88	3			152		
1	4/4/88	3	1		152	N	
1	4/4/88	5			137		
1	4/4/88	5	1		137	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record..

TANK 241-SX-102 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/4/88	6			93		
1	4/4/88	6	1		93	N	
1	5/2/88	1			174		
1	5/2/88	1	1		174	Y	
1	5/2/88	3			166		
1	5/2/88	3	1		166	N	
1	5/2/88	5			151		
1	5/2/88	5	1		151	N	
1	5/2/88	6			107		
1	5/2/88	6	1		107	N	
1	5/4/88	1			169		
1	5/4/88	1	1		169	Y	
1	5/4/88	3			162		
1	5/4/88	3	1		162	N	
1	5/4/88	5			147		
1	5/4/88	5	1		147	N	
1	5/4/88	6			102		
1	5/4/88	6	1		102	N	
1	5/16/88	1	1		169	Y	
1	5/16/88	3	1		162	N	
1	5/16/88	5	1		147	N	
1	5/16/88	6	1		102	N	
1	6/6/88	1			169		
1	6/6/88	1	1		169	Y	
1	6/6/88	3			162		
1	6/6/88	3	1		162	N	
1	6/6/88	5			147		
1	6/6/88	5	1		147	N	
1	6/6/88	6			102		
1	6/6/88	6	1		102	N	
1	7/4/88	1			191		
1	7/4/88	1	1		191	Y	
1	7/4/88	2			174		
1	7/4/88	2	1		174	N	
1	7/4/88	3			179		
1	7/4/88	3	1		179	N	
1	7/4/88	4			174		
1	7/4/88	4	1		174	N	
1	7/4/88	5			159		
1	7/4/88	5	1		159	N	
1	7/4/88	6			104		
1	7/4/88	6	1		104	N	
1	8/1/88	1			172		
1	8/1/88	1	1		172	Y	
1	8/1/88	5			150		
1	8/1/88	5	1		150	N	
1	8/1/88	6			111		
1	8/1/88	6	1		111	N	
1	9/5/88	1			167		
1	9/5/88	1	1		167	Y	
1	9/5/88	5			144		
1	9/5/88	5	1		144	N	
1	9/5/88	6			105		
1	9/5/88	6	1		105	N	
1	10/3/88	1	1		167	Y	
1	10/3/88	5	1		145	N	
1	10/3/88	6	1		106	N	
1	11/7/88	1			163		
1	11/7/88	1	1		163	Y	
1	12/5/88	1	1			N	O/S
1	1/2/89	1	1			N	O/S
1	1/6/89	1			167.5		
1	1/6/89	1	1		167.5	Y	
1	1/6/89	5			145.3		
1	1/6/89	5	1		145.3	N	
1	1/6/89	6			98.6		
1	1/6/89	6	1		98.6	N	
1	2/7/89	1			169.5		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record..

TANK 241-SX-102 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/7/89	1	1		169.5	Y	ENCLOSURE DAMAGED
1	2/7/89	5			144.8		
1	2/7/89	5	1		144.8	N	
1	2/7/89	6			98.1		
1	2/7/89	6	1		98.1	N	
1	3/6/89	5	1		157	N	
1	3/6/89	6	1		114	N	
1	3/7/89	1			200		
1	3/7/89	5			170		
1	3/7/89	5	1		170	N	
1	3/7/89	6			118		
1	3/7/89	6	1		118	N	
1	3/8/89	1			169.3		
1	3/8/89	1	1		169.3	Y	
1	3/8/89	5			144.3		
1	3/8/89	5	1		144.3	N	
1	3/8/89	6			97		
1	3/8/89	6	1		97	N	
1	6/5/89	1	1		168	Y	
1	6/5/89	6	1		100	N	
1	7/3/89	1	1		166.4	Y	
1	7/3/89	6	1		101.5	N	
1	7/3/89	1	1		162.5	Y	J-890523512-20
1	1/1/90	6	1		99.5	N	
1	2/5/90	1	1			N	O/S Used J-890523512-20 & K-890723679 Box loose from mounts.
1	1/4/91	1	1		158	Y	J HH-99A Ser# 8905212-47
1	1/4/91	6	1		93.2	N	
1	2/9/91	2	1		159.4	Y	890423320-11 TC #s 1,3,4,5 O/S
1	2/9/91	6	1		92.8	N	
1	2/16/91	1	1		157.5	Y	890423320-11
1	2/16/91	6	1		90.1	N	
1	2/24/91	1	1		160.3	Y	J 890423320-11 TC #s 2,3,4,5 O/S
1	2/24/91	6	1		91.8	N	
1	3/3/91	1	1		158	Y	J 890423320-11 TCs #2,3,4,5 O/S
1	3/3/91	6	1		91	N	
1	3/9/91	1	1		159	Y	J 890423320-11
1	3/9/91	6	1		91	N	
1	3/16/91	1	1		156.4	Y	Work orders 90-1500 J 890423320-11
1	3/16/91	6	1		90.2	N	
1	3/24/91	1	1		157.6	Y	J 890423320-11 TCs #2,3,4,5,6 O/S Work pkgs 90-1500 91-3018
1	3/30/91	1	1		156.5	Y	J 890423320-11
1	3/30/91	6	1		89.2	N	
1	4/7/91	1	1		161.9	Y	J 890423320-11
1	4/7/91	6	1		91.4	N	
1	4/14/91	1	1		160.3	Y	J 890423320-11 HH-99-A
1	4/14/91	6	1		92	N	
1	4/20/91	1	1		157.7	Y	J 890423320-11
1	4/20/91	6	1		90.6	N	
1	4/27/91	1	1		160.6	Y	J
1	5/4/91	6	1		90.5	N	J HH-99A-J
1	5/12/91	1	1		157	Y	J 910126143-75
1	5/12/91	6	1		89.6	N	
1	5/19/91	1	1		158	Y	J Omega 99-A
1	5/24/91	1	1		158.5	Y	J 890423320-11
1	6/2/91	1	1		156.9	Y	J 850423320-11
1	6/2/91	6	1		97.9	N	
1	6/9/91	1	1		156.8	Y	J 890423320-11
1	6/9/91	6	1		92	N	
1	6/16/91	1	1		159.4	Y	J 890423320-11 TC#2-5 NG
1	6/16/91	6	1		94.3	N	
1	6/22/91	1	1		158.8	Y	J 910126143-39
1	6/22/91	6	1		94	N	
1	6/29/91	1	1		155.5	Y	J 910126143-75
1	7/7/91	1	1		156.9	Y	J 910126143-75 TC#2-6o/s
1	7/13/91	1	1		156.9	Y	J 910126143-75 TC#2-5o/s
1	7/13/91	6	1		94.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	7/20/91	1	1		155.8	Y	J 910126143-75 TC#2-5o/s
1	7/20/91	6	1		94	N	
1	7/27/91	1	1		155.7	Y	J 910126143-75 TC#2-6o/s
1	8/3/91	1	1		154.9	Y	J 910126143-75 TC#3-5o/s
1	8/3/91	6	1		95.1	N	
1	8/11/91	1	1		154.7	Y	J 910126143-75 TC#2-5o/s
1	8/11/91	6	1		97.1	N	
1	8/18/91	1	1		152	Y	J 910126143-75
1	8/18/91	6	1		96.6	N	
1	8/25/91	1	1		154.4	Y	J HH-99A-J
1	8/25/91	2	1			N	O/S
1	8/25/91	3	1			N	O/S
1	8/25/91	4	1			N	O/S
1	8/25/91	5	1			N	O/S
1	8/25/91	6	1		97.6	N	
1	8/31/91	1	1		153.1	Y	J-890523512-20
1	8/31/91	6	1		96.7	N	
1	9/7/91	1	1		155	Y	J-890523512-20
1	9/7/91	6	1		98.5	N	
1	9/14/91	1	1		155.3	Y	J-890523512-20
1	9/14/91	6	1		98.63	N	
1	9/21/91	1	1		155	Y	J-HH-99A-J
1	9/21/91	6	1		98.7	N	
1	9/28/91	1	1		154.2	Y	J-890523512-20 LOW TC#6 O/S
1	10/5/91	1	1		155.4	Y	J-890523518-20
1	10/5/91	6	1		99.4	N	
1	10/11/91	1	1		155.5	Y	J-890523512-20
1	10/11/91	6	1		99.5	N	
1	10/20/91	1	1		155.2	Y	J-890523512-20
1	10/20/91	6	1		98.5	N	
1	10/26/91	1	1		156.7	Y	J-890523512-20
1	10/26/91	6	1		100	N	
1	11/2/91	1	1		156.7	Y	J-8905235125-80 TC #2-5 O/S
1	11/2/91	6	1		98.6	N	
1	11/9/91	1	1		157.9	Y	J-890523512-20 TC #2-5 O/S
1	11/9/91	6	1		98.6	N	
1	11/15/91	1	1		153.9	Y	J-T1045 TC #2-5 O/S
1	11/15/91	6	1		94.4	N	
1	11/23/91	1	1		152.5	Y	J-890423320-42 TC #2-5 O/S
1	11/23/91	6	1		93.6	N	
1	12/1/91	1	1		153.5	Y	J-890523512-47 TC #2-5 O/S
1	12/1/91	6	1		92.1	N	
1	12/6/91	1	1		156	Y	J-910126143-64 TC #2-5 O/S
1	12/6/91	6	1		95	N	
1	12/14/91	1	1		155.2	Y	J-910126143-64 TC #2-5 O/S
1	12/14/91	6	1		93.9	N	
1	12/22/91	1	1		158.3	Y	J-TI-007 TC #2-5 O/S
1	12/22/91	6	1		95.8	N	
1	12/28/91	1	1		158	Y	TC #2-5 O/S
1	12/28/91	6	1		95.2	N	
1	1/6/92	1	1		156.8	Y	J-TI-030 TC #2-5 O/S
1	1/6/92	6	1		92.5	N	
1	1/10/92	1	1		156.6	Y	J 890523512-20
1	1/10/92	6	1		92.2	N	
1	1/16/92	1	1		152.6	Y	J TI-042
1	1/16/92	6	1		90.9	N	
1	1/25/92	1	1		156.6	Y	J-890523512-20
1	1/25/92	6	1		91.9	N	
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
1	2/23/92	1	1		151.5	Y	J 890423320 42 TC #2-5 O/S
1	2/23/92	6	1		87.7	N	
1	3/1/92	1	1		155.5	Y	J-910126143-5
1	3/1/92	6	1		89.5	N	
1	3/8/92	1	1		151.4	Y	J 890423320-42
1	3/14/92	1	1		153.2	Y	J 890523512-20 TC # 2-5 O/S
1	3/14/92	6	1		89.1	N	
1	3/22/92	1	1		151.5	Y	J 890423320

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102 THERMOCOUPLE DATA							COMMENTS
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	
1	3/22/92	6	1		87.7	N	
1	3/28/92	1	1		152	Y	J 890423320-42
1	3/28/92	6	1		80	N	
1	4/4/92	1	1		155.7	Y	J 890423320-42 TC #2-5 O/S
1	4/4/92	6	1		90.3	N	
1	4/9/92	1	1		156.1	Y	J 900925741-79
1	4/9/92	5	1			N	76.7 - suspect data (low)
1	4/9/92	6	1		90.8	N	
1	4/9/92	1	1		147.4	Y	J 890423320 42
1	4/18/92	1	1		83.5	N	
1	4/18/92	6	1		149.5	Y	
1	4/25/92	1	1		85.4	N	
1	4/25/92	6	1		155.8	Y	J 900925741-79
1	4/30/92	1	1		91.1	N	
1	4/30/92	6	1		152.2	Y	J TI-045
1	5/9/92	1	1		89.2	N	
1	5/9/92	6	1		155.7	Y	J TI-037
1	5/15/92	1	1		92.1	N	
1	5/15/92	6	1		154.8	Y	J 89042330-42
1	5/20/92	1	1		92.4	N	
1	5/20/92	6	1		153.3	Y	J 900925741-79
1	5/30/92	1	1		91.6	N	
1	5/30/92	6	1		149.7	Y	J 890423320-42
1	6/8/92	1	1		89.9	N	
1	6/8/92	6	1		155.1	N	J 900925741-79
1	6/13/92	1	1		93.8	N	
1	6/13/92	6	1		149.5	Y	J 890423320-42
1	6/19/92	1	1		89.7	N	
1	6/19/92	6	1		149.4	Y	J 890423320-42
1	6/25/92	1	1		89.8	N	
1	6/25/92	6	1		150.3	Y	J 890523512-47
1	7/4/92	1	1		91.7	N	
1	7/4/92	6	1		149.2	Y	J 890523512-47
1	7/8/92	1	1		90.32	N	
1	7/8/92	6	1		149.3	Y	J 890523512-47
1	7/17/92	1	1		90.8	N	
1	7/17/92	6	1		149.7	Y	J 890523512-47
1	7/23/92	1	1		92	N	
1	7/23/92	6	1		149.6	Y	J 890523512-47
1	7/30/92	1	1		92.5	N	
1	7/30/92	6	1		154	Y	J 890523512-47
1	8/6/92	1	1		97.3	N	
1	8/6/92	6	1		152.6	Y	J 910126143-29
1	8/13/92	1	1		96.7	N	
1	8/13/92	6	1		153.3	Y	J 890523512-47
1	8/21/92	1	1		97.6	N	
1	8/21/92	6	1		152.1	Y	J 890523512-47
1	8/27/92	1	1		98	N	
1	8/27/92	6	1		151.6	Y	J 890523512-47
1	9/3/92	1	1		97.36	N	
1	9/3/92	6	1		151.2	Y	J 910126143-29 TC#2-5 O/S
1	9/9/92	1	1		96.02	N	
1	9/9/92	6	1		152.7	Y	J 890523512-47
1	9/18/92	1	1		97.2	N	
1	9/18/92	6	1		153.7	Y	J 910126143-42
1	9/25/92	1	1		98.2	N	
1	9/25/92	6	1		152.5	Y	J 890523512-47
1	10/1/92	1	1		98.7	N	
1	10/1/92	6	1		152.2	Y	J 890523512-47
1	10/8/92	1	1		97.5	N	
1	10/8/92	6	1		99	N	J 910126143-50 TC #1 O/S DISCREPANCY REPORT WRITTEN
1	10/15/92	6	1		152.8	Y	890523512-47
1	10/22/92	1	1		97.4	N	
1	10/22/92	6	1		152.4	Y	J 910126143-50
1	10/30/92	1	1		154	Y	J 817-13-20-019293
1	11/7/92	1	1		95.9	N	
1	11/7/92	6	1		154.5	Y	J 910126143-50
1	11/13/92	1	1				

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	11/13/92	6	1		96.2	N	
1	11/19/92	1	1		155	Y	J 817-13-20-019
1	11/19/92	6	1		97	N	
1	11/25/92	1	1		155.2	Y	J 910126143-50
1	11/25/92	6	1		97	N	
1	12/3/92	1	1		154.2	Y	J 910126143-32
1	12/3/92	6	1		96.5	N	
1	12/11/92	1	1		155.2	Y	J 910126143-32
1	12/11/92	6	1		94.4	N	
1	12/20/92	1	1		154.6	Y	J 91012614332
1	12/20/92	6	1		93.4	N	
1	12/27/92	1	1		157.6	Y	J 910126143-32
1	12/27/92	6	1		94.8	N	
1	12/31/92	1	1		155.3	Y	J 91012614332
1	12/31/92	6	1		92.8	N	
1	1/7/93	1	1		153	Y	J 91012143-29
1	1/7/93	6	1		90.2	N	
1	1/20/93	1	1		154.1	Y	J 910126143-32 TC#3 SUSPECT
1	1/20/93	6	1		91	N	
1	1/23/93	1	1		154.1	Y	J 910126143-29
1	1/23/93	6	1		89.6	N	
1	1/31/93	1	1		153.8	Y	J 910126143-29
1	1/31/93	6	1		88.6	N	
1	2/5/93	1	1		154	Y	J 910126143-32
1	2/5/93	3	1			N	88.9-suspect data (low)
1	2/5/93	6	1		88.9	N	
1	2/11/93	1	1		154	Y	J 910126143-42
1	2/11/93	6	1		88.2	N	
1	2/18/93	1	1		159.3	Y	J 910126143-29
1	2/18/93	6	1		94	N	
1	2/26/93	1	1		152.6	Y	J 910126143-66
1	2/26/93	6	1		90	N	
1	3/4/93	1	1		152	Y	J 817-13-20-019
1	3/4/93	6	1		86.8	N	
1	3/11/93	1	1		153	Y	J 910126143-66
1	3/11/93	6	1		87.2	N	
1	3/19/93	1	1		153.6	Y	J 910126143-66
1	3/19/93	6	1		89.1	N	
1	3/27/93	1	1		151.4	Y	
1	3/27/93	6	1		88	N	
1	4/1/93	1	1		144.9	Y	J 8904-23320-42
1	4/1/93	6	1		84.7	N	
1	4/8/93	1	1			N	OUT OF SERVICE
1	4/15/93	1	1		151.8	Y	J 910126143-66
1	4/15/93	6	1		88	N	
1	4/21/93	1	1		153.1	Y	J 910126143-66 TC# 2,3,4 & 5 O/S
1	4/21/93	6	1		88	N	
1	4/23/93	1	1		153	Y	J 910126143-66
1	4/23/93	6	1		87.5	N	
1	4/29/93	1	1		152	Y	J 910126143-66
1	4/29/93	6	1		87.3	N	
1	5/6/93	1	1		151.7	Y	J 91012614366
1	5/6/93	6	1		87.3	N	
1	5/13/93	1	1		151.2	Y	J 910126143-66
1	5/20/93	1	1		152.1	Y	J 910126143-66 TC 2,3,4,5 OS
1	5/20/93	6	1		88.5	N	
1	5/27/93	1	1		148.3	Y	J 890432320-42 TC 2-5 O/S
1	5/27/93	6	1		88.5	N	
1	6/3/93	1	1		152	Y	J 817-13-20-019 TC 2-5 O/S
1	6/3/93	6	1		90	N	
1	6/10/93	1	1		151.2	Y	J 910126143-32 TC 2-5 O/S
1	6/10/93	6	1		89.4	N	
1	6/18/93	1	1		150.9	Y	J TC 2-5 O/S
1	6/18/93	6	1		89.3	N	
1	6/27/93	6	1		91.3	N	RECHECK REQUESTED
1	7/1/93	1	1		149	Y	J 890423320-42 TC 2-5 O/S
1	7/1/93	6	1		89.9	N	
1	7/8/93	1	1		148.2	Y	J 890423320-42 TC 2-5 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102 THERMOCOUPLE DATA							COMMENTS
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	
1	7/8/93	6	1		89.4	N	
1	7/16/93	6	1		91.2	N	J 890423320-42 RECHECK REQUESTED RECEIVED 7/20/93
1	7/20/93	1	1		148.6	Y	J 910126143-14 TC# 2-6 O/S
1	7/22/93	1	1		149.6	Y	J 0126143-14 TC-2,3,4,5 O/S
1	7/22/93	6	1		92.8	N	
1	7/29/93	1	1		150.2	Y	J 910126143-14 TC#2-5 O/S
1	7/29/93	6	1		92.8	N	
1	8/5/93	1	1		147.4	Y	J 890423320-42 TC# 2-5 O/S
1	8/5/93	6	1		91.2	N	
1	8/13/93	1	1		148.1	Y	J89042332042 TC 2,3,4&5 O/S
1	8/13/93	6	1		91.5	N	
1	8/19/93	6	1		91.6	N	J 89062330-42 TC 1,2,3,4&5 O/S rechk reqstd
1	8/23/93	1	1		153.4	Y	J 910126143-66 recheck for 8/19 TC 2,3,4&5 O/S
1	8/23/93	6	1		96.4	N	
1	8/27/93	1	1		154.9	Y	J 910126143-66 TC 2,3,4&5 O/S
1	8/27/93	6	1		96.6	N	
1	9/3/93	6	1		97.4	N	J 910126143-66 TC 1,2,3,4,5 O/S recheck requested
1	9/12/93	6	1		97.7	N	J TI-042 TC 1,2,3,4,5 O/S recheck requested
1	9/20/93	1	1		148.1	Y	J 910126143-50 TC 2,3,4,5 O/S
1	9/20/93	6	1		93.2	N	
1	9/27/93	2	1		143.2	Y	Y
1	9/27/93	2	2		143.2	Y	HDAT TC 1 O/S
1	9/27/93	3	2		140	N	
1	9/27/93	3	1		140.1	N	
1	9/27/93	4	1		134.6	N	
1	9/27/93	4	2		134.6	N	
1	9/27/93	5	2		128.7	N	
1	9/27/93	5	1		128.8	N	
1	9/27/93	6	2		94.3	N	
1	9/27/93	6	1		94.4	N	
1	10/5/93	2	1		148.2	Y	J 910126143-48 TC 1 O/S
1	10/5/93	3	1		142.5	N	
1	10/5/93	4	1		136.7	N	
1	10/5/93	5	1		130.8	N	
1	10/5/93	6	1		95.7	N	
1	10/11/93	1	1			N	J910126143-48 TC 1 O/S
1	10/11/93	2	1		148.1	Y	
1	10/11/93	3	1		142.3	N	
1	10/11/93	4	1		136.5	N	
1	10/11/93	5	1		130.6	N	
1	10/11/93	6	1		95.6	N	
1	10/18/93	1	1			N	120-suspect data (low), J 910126143-14
1	10/18/93	2	1		145.4	Y	
1	10/18/93	3	1			N	92.6-suspect data (low)
1	10/18/93	4	1		134.9	N	
1	10/18/93	5	1		128.2	N	
1	10/18/93	6	1		93.8	N	
1	10/27/93	1	1		151.8	Y	J 91012614348
1	10/27/93	2	1		148.6	N	
1	10/27/93	3	1		142.6	N	
1	10/27/93	4	1		137.1	N	
1	10/27/93	5	1		131.1	N	
1	10/27/93	6	1		95.6	N	
1	11/1/93	1	1		151.4	Y	J 910126143-29
1	11/1/93	2	1		148.3	N	
1	11/1/93	3	1		142.1	N	
1	11/1/93	4	1		136.4	N	
1	11/1/93	5	1		130.4	N	
1	11/1/93	6	1		94.7	N	
1	11/8/93	1	1		152.3	Y	J 910126143-29
1	11/8/93	2	1		149.5	N	
1	11/8/93	3	1		143.2	N	
1	11/8/93	4	1		137.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	11/8/93	5	1		131.5	N	
1	11/8/93	6	1		95	N	
1	11/17/93	1	1		151.4	Y	J TI-041
1	11/17/93	2	1		149.5	N	
1	11/17/93	3	1		143.2	N	
1	11/17/93	4	1		137.7	N	
1	11/17/93	5	1		131.5	N	
1	11/17/93	6	1		94.8	N	
1	11/23/93	1	1		152.4	Y	J 910126143-29
1	11/23/93	2	1		149.5	N	
1	11/23/93	3	1		143.4	N	
1	11/23/93	4	1		137.8	N	
1	11/23/93	5	1		131.7	N	
1	11/23/93	6	1		95.8	N	
1	11/29/93	1	1		151.5	Y	J-91026143-29 TC 2 NG
1	11/29/93	1	2		155.6	Y	J-910126143-29
1	11/29/93	2	2		152.3	N	
1	11/29/93	3	1		143.2	N	
1	11/29/93	3	2		144.3	N	
1	11/29/93	4	1		137.8	N	
1	11/29/93	4	2		138.5	N	
1	11/29/93	5	1		131.6	N	
1	11/29/93	5	2		132.4	N	
1	11/29/93	6	1		95.8	N	
1	11/29/93	6	2		96.4	N	
1	12/7/93	1	1		150	N	J 910126143-29
1	12/7/93	2	1		147	N	
1	12/7/93	4	1		137.4	N	
1	12/7/93	5	1		131.5	N	
1	12/7/93	6	1		95.5	N	
1	12/14/93	1	1		152.6	N	J 910126143-29 Recheck performed 12/17 BAD DATA
1	12/14/93	3	1		168.9	N	
1	12/14/93	4	1		138.2	N	
1	12/14/93	5	1		138.3	N	
1	12/14/93	6	1		96	N	
1	12/15/93	1	1		152	N	J 910126243-29 Recheck performed 12/17 BAD DATA
1	12/15/93	3	1		162	N	
1	12/15/93	4	1		139.4	N	
1	12/15/93	5	1		150.3	N	
1	12/15/93	6	1		97.2	N	
1	12/17/93	1	1		152.2	N	J 910126143-29
1	12/17/93	2	1		155.4	Y	
1	12/17/93	3	1		151.3	N	
1	12/17/93	4	1		137.9	N	
1	12/17/93	5	1		136.1	N	
1	12/17/93	6	1		95.6	N	
1	12/18/93	1	1		152.6	N	J 910126143-29
1	12/18/93	2	1		154.1	Y	
1	12/18/93	3	1		149.3	N	
1	12/18/93	4	1		138.2	N	
1	12/18/93	5	1		134.3	N	
1	12/18/93	6	1		95.8	N	
1	12/19/93	1	1		152.7	N	J HH-99A-J 1/94
1	12/19/93	2	1		152.8	Y	
1	12/19/93	3	1		151.7	N	
1	12/19/93	4	1		138.1	N	
1	12/19/93	5	1		134.8	N	
1	12/19/93	6	1		95.7	N	
1	12/20/93	1	2		152.2	N	J 910126143-29
1	12/20/93	1	1		152.5	Y	J 910126143-29
1	12/20/93	2	1		152	N	
1	12/20/93	2	2		152.9	Y	
1	12/20/93	3	1		147.8	N	
1	12/20/93	3	2		148.8	N	
1	12/20/93	4	2		137.9	N	
1	12/20/93	4	1		138	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP
1	12/20/93	5	2		134.6	N
1	12/20/93	5	1		135.3	N
1	12/20/93	6	1		95.5	N
1	12/20/93	6	2		95.5	N
1	12/21/93	1	1		151.9	Y
1	12/21/93	1	2		152.8	Y
1	12/21/93	2	1		149.8	N
1	12/21/93	2	2		149.8	N
1	12/21/93	3	1		144.3	N
1	12/21/93	3	2		144.6	N
1	12/21/93	4	1		137.9	N
1	12/21/93	4	2		138.2	N
1	12/21/93	5	1		134.5	N
1	12/21/93	5	2		135.5	N
1	12/21/93	6	1		94.7	N
1	12/21/93	6	2		95.3	N
1	12/22/93	1	1		152.8	Y
1	12/22/93	2	1		149.6	N
1	12/22/93	3	1		144.4	N
1	12/22/93	4	1		138.3	N
1	12/22/93	5	1		135.2	N
1	12/22/93	6	1		95.9	N
1	12/23/93	1	1		152	Y
1	12/23/93	2	1		148.4	N
1	12/23/93	3	1		143.6	N
1	12/23/93	4	1		137.7	N
1	12/23/93	5	1		134.8	N
1	12/23/93	6	1		95.2	N
1	12/24/93	1	1		152.8	Y
1	12/24/93	2	1		149.8	N
1	12/24/93	3	1		144.3	N
1	12/24/93	4	1		138.3	N
1	12/24/93	5	1		135.3	N
1	12/24/93	6	1		95.7	N
1	12/25/93	1	1		152.9	Y
1	12/25/93	2	1		149.7	N
1	12/25/93	3	1		145	N
1	12/25/93	4	1		138.5	N
1	12/25/93	5	1		136	N
1	12/25/93	6	1		95.7	N
1	12/26/93	2	1		148.7	N
1	12/26/93	3	1		144.2	N
1	12/26/93	4	1		137.9	N
1	12/26/93	5	1		135.8	N
1	12/26/93	6	1		95.1	N
1	12/27/93	1	1		152.4	Y
1	12/27/93	2	1		149.3	N
1	12/27/93	3	1		144.5	N
1	12/27/93	4	1		138.1	N
1	12/27/93	5	1		134.9	N
1	12/27/93	6	1		95.3	N
1	12/28/93	1	1		151.9	Y
1	12/28/93	2	1		148.4	N
1	12/28/93	3	1		144.2	N
1	12/28/93	4	1		137.6	N
1	12/28/93	5	1		134.2	N
1	12/28/93	6	1		94.2	N
1	12/29/93	1	1		151.9	Y
1	12/29/93	1	2		152.2	Y
1	12/29/93	1	3		152.9	Y
1	12/29/93	1	4		153	Y
1	12/29/93	2	1		148.5	N
1	12/29/93	2	2		148.8	N
1	12/29/93	2	4		150	N
1	12/29/93	2	3		150.2	N
1	12/29/93	3	1		143.8	N
1	12/29/93	3	2		144.4	N
1	12/29/93	3	3		145	N

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-102							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/29/93	3	4		145	N	
1	12/29/93	4	1		137.5	N	
1	12/29/93	4	2		137.8	N	
1	12/29/93	4	3		138.4	N	
1	12/29/93	4	4		138.7	N	
1	12/29/93	5	1		134.7	N	
1	12/29/93	5	2		134.7	N	
1	12/29/93	5	3		135.6	N	
1	12/29/93	5	4		135.9	N	
1	12/29/93	6	1		94.1	N	
1	12/29/93	6	2		94.2	N	
1	12/29/93	6	3		94.8	N	
1	12/29/93	6	4		94.8	N	
1	12/30/93	1	1		152.9	Y	J 910126143-32
1	12/30/93	1	2		153.7	Y	J 910126143-32
1	12/30/93	2	1		149.6	N	
1	12/30/93	2	2		150	N	
1	12/30/93	3	1		144.8	N	
1	12/30/93	3	2		145.3	N	
1	12/30/93	4	1		138.3	N	
1	12/30/93	4	2		139.2	N	
1	12/30/93	5	1		135.4	N	
1	12/30/93	5	2		135.9	N	
1	12/30/93	6	1		94.3	N	
1	12/30/93	6	2		94.9	N	
1	12/31/93	1	1		152.8	Y	J 910126143-32
1	12/31/93	2	1		148.9	N	
1	12/31/93	3	1		144.8	N	
1	12/31/93	4	1		138.5	N	
1	12/31/93	5	1		135.6	N	
1	12/31/93	6	1		94.1	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and 242-S Bottoms Tanks Transfer Record,.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/20/74	1		54.44	129.992		raw data - assumed degree C
1	10/20/74	2		52.22	125.996		raw data - assumed degree C
1	10/20/74	3		46.11	114.998		raw data - assumed degree C
1	10/20/74	4		46.11	114.998		raw data - assumed degree C
1	10/20/74	5		46.11	114.998		raw data - assumed degree C
1	10/20/74	6		46.11	114.998		raw data - assumed degree C
1	10/20/74	7		46.11	114.998		raw data - assumed degree C
1	10/20/74	8		46.11	114.998		raw data - assumed degree C
1	10/20/74	9		46.11	114.998		raw data - assumed degree C
1	10/20/74	10		46.11	114.998		raw data - assumed degree C
1	10/20/74	11		46.11	114.998		raw data - assumed degree C
1	10/20/74	12		46.11	114.998		raw data - assumed degree C
1	12/2/74	1		54.44	129.992		raw data - assumed degree C
1	12/2/74	2		52.78	127.004		raw data - assumed degree C
1	12/2/74	3		46.11	114.998		raw data - assumed degree C
1	12/2/74	4		46.11	114.998		raw data - assumed degree C
1	12/2/74	5		46.11	114.998		raw data - assumed degree C
1	12/2/74	6		46.11	114.998		raw data - assumed degree C
1	12/2/74	7		46.11	114.998		raw data - assumed degree C
1	12/2/74	8		46.11	114.998		raw data - assumed degree C
1	12/2/74	9		46.11	114.998		raw data - assumed degree C
1	12/2/74	10		46.11	114.998		raw data - assumed degree C
1	12/2/74	11		46.11	114.998		raw data - assumed degree C
1	12/2/74	12		46.11	114.998		raw data - assumed degree C
1	11/3/75	1			171		
1	11/3/75	2			174		
1	11/3/75	3			168		
1	11/3/75	4			158		
1	11/3/75	5			148		
1	11/3/75	6			138		
1	11/3/75	7			133		
1	11/3/75	8			133		
1	11/3/75	9			133		
1	11/3/75	10			133		
1	11/3/75	11			133		
1	11/3/75	12			130		
1	1/20/76	1			177		
1	1/20/76	2			179		
1	1/20/76	3			172		
1	1/20/76	4			162		
1	1/20/76	5			152		
1	1/20/76	6			146		
1	1/20/76	7			130		
1	1/20/76	8			125		
1	1/20/76	9			125		
1	1/20/76	10			125		
1	1/20/76	11			126		
1	1/20/76	12			124		
1	1/20/76	13			114		
1	1/20/76	14			110		
1	3/5/76	1			180		
1	3/5/76	2			183		
1	3/5/76	3			175		
1	3/5/76	4			164		
1	3/5/76	5			152		
1	3/5/76	6			136		
1	3/5/76	7			125		
1	3/5/76	8			125		
1	3/5/76	9			116		
1	3/5/76	10			110		
1	3/5/76	11			110		
1	3/5/76	12			110		
1	4/3/76	1			181		
1	4/3/76	2			184		
1	4/3/76	3			175		
1	4/3/76	4			161		
1	4/3/76	5			134		
1	4/3/76	6			125		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/3/76	7			125		
1	4/3/76	8			125		
1	4/3/76	9			125		
1	4/3/76	10			125		
1	4/3/76	11			125		
1	4/3/76	12			125		
1	4/3/76	13			125		
1	5/2/76	1			180		
1	5/2/76	2			182		
1	5/2/76	3			171		
1	5/2/76	4			156		
1	5/2/76	5			143		
1	5/2/76	6			134		
1	5/2/76	7			132		
1	5/2/76	8			132		
1	5/2/76	9			132		
1	5/2/76	10			132		
1	5/2/76	11			132		
1	5/2/76	12			132		
1	6/1/76	1			187		
1	6/1/76	2			188		
1	6/1/76	3			179		
1	6/1/76	4			167		
1	6/1/76	5			150		
1	6/1/76	6			140		
1	6/1/76	7			136		
1	6/1/76	8			134		
1	6/1/76	9			128		
1	6/1/76	10			124		
1	6/1/76	11			126		
1	6/1/76	12			126		
1	6/1/76	13			126		
1	6/1/76	14			126		
1	7/21/76	1			181		
1	7/21/76	2			184		
1	7/21/76	3			177		
1	7/21/76	4			167		
1	7/21/76	5			158		
1	7/21/76	6			150		
1	7/21/76	7			143		
1	7/21/76	8			136		
1	7/21/76	9			128		
1	7/21/76	10			124		
1	7/21/76	11			124		
1	7/21/76	12			124		
1	7/21/76	13			124		
1	7/21/76	14			124		
1	8/3/76	1			182		
1	8/3/76	2			185		
1	8/3/76	3			176		
1	8/3/76	4			156		
1	8/3/76	5			140		
1	8/3/76	6			131		
1	8/3/76	7			130		
1	8/3/76	8			129		
1	8/3/76	9			129		
1	8/3/76	10			129		
1	8/3/76	11			129		
1	8/3/76	12			129		
1	8/3/76	13			129		
1	8/3/76	14			129		
1	9/2/76	1			184		
1	9/2/76	2			186		
1	9/2/76	3			176		
1	9/2/76	4			164		
1	9/2/76	5			153		
1	9/2/76	6			144		
1	9/2/76	7			138		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	9/2/76	8			136		
1	9/2/76	9			134		
1	9/2/76	10			134		
1	9/2/76	11			134		
1	9/2/76	12			132		
1	10/3/76	1			186		
1	10/3/76	2			188		
1	10/3/76	3			180		
1	10/3/76	4			170		
1	10/3/76	5			161		
1	10/3/76	6			152		
1	10/3/76	7			147		
1	10/3/76	8			142		
1	10/3/76	9			138		
1	10/3/76	10			136		
1	10/3/76	11			134		
1	10/3/76	12			132		
1	11/1/76	1			188		
1	11/1/76	2			190		
1	11/1/76	3			182		
1	11/1/76	4			170		
1	11/1/76	5			158		
1	11/1/76	6			150		
1	11/1/76	7			144		
1	11/1/76	8			144		
1	11/1/76	9			140		
1	11/1/76	10			138		
1	11/1/76	11			136		
1	11/1/76	12			130		
1	11/1/76	13			108		
1	11/1/76	14			108		
1	12/4/76	1			187		
1	12/4/76	2			189		
1	12/4/76	3			180		
1	12/4/76	4			163		
1	12/4/76	5			153		
1	12/4/76	6			149		
1	12/4/76	7			147		
1	12/4/76	8			146		
1	12/4/76	9			146		
1	12/4/76	10			142		
1	12/4/76	11			146		
1	12/4/76	12			133		
1	1/1/77	1			188		
1	1/1/77	2			190		
1	1/1/77	3			182		
1	1/1/77	4			171		
1	1/1/77	5			162		
1	1/1/77	6			155		
1	1/1/77	7			151		
1	1/1/77	8			149		
1	1/1/77	9			143		
1	1/1/77	10			131		
1	1/1/77	11			122		
1	1/1/77	12			120		
1	2/1/77	1			188		
1	2/1/77	2			190		
1	2/1/77	3			184		
1	2/1/77	4			174		
1	2/1/77	5			168		
1	2/1/77	6			158		
1	2/1/77	7			148		
1	2/1/77	8			144		
1	2/1/77	9			144		
1	2/1/77	10			142		
1	2/1/77	11			142		
1	2/1/77	12			142		
1	2/1/77	13			142		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/1/77	14			136		
1	3/16/77	1			184		
1	3/16/77	2			187		
1	3/16/77	3			181		
1	3/16/77	4			173		
1	3/16/77	5			164		
1	3/16/77	6			155		
1	3/16/77	7			149		
1	3/16/77	8			143		
1	3/16/77	9			139		
1	3/16/77	10			135		
1	3/16/77	11			131		
1	3/16/77	12			131		
1	3/16/77	13			131		
1	3/16/77	14			131		
1	3/26/77	1			185		
1	3/26/77	2			187		
1	3/26/77	3			180		
1	3/26/77	4			170		
1	3/26/77	5			160		
1	3/26/77	6			152		
1	3/26/77	7			145		
1	3/26/77	8			140		
1	3/26/77	9			135		
1	3/26/77	10			134		
1	3/26/77	11			132		
1	3/26/77	12			132		
1	3/26/77	13			132		
1	3/26/77	14			132		
1	4/3/77	1			185		
1	4/3/77	2			188		
1	4/3/77	3			183		
1	4/3/77	4			175		
1	4/3/77	5			166		
1	4/3/77	6			158		
1	4/3/77	7			150		
1	4/3/77	8			145		
1	4/3/77	9			140		
1	4/3/77	10			138		
1	4/3/77	11			131		
1	4/3/77	12			131		
1	4/3/77	13			131		
1	4/3/77	14			131		
1	4/9/77	1			185		
1	4/9/77	2			190		
1	4/9/77	3			185		
1	4/9/77	4			175		
1	4/9/77	5			162		
1	4/9/77	6			160		
1	4/9/77	7			150		
1	4/9/77	8			145		
1	4/9/77	9			140		
1	4/9/77	10			135		
1	4/9/77	11			130		
1	4/9/77	12			130		
1	4/9/77	13			130		
1	4/9/77	14			130		
1	5/1/77	1			182		
1	5/1/77	2			190		
1	5/1/77	3			184		
1	5/1/77	4			175		
1	5/1/77	5			169		
1	5/1/77	6			161		
1	5/1/77	7			155		
1	5/1/77	8			150		
1	5/1/77	9			144		
1	5/1/77	10			131		
1	5/1/77	11			127		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
1	5/1/77	12			126	
1	6/7/77	1			186	
1	6/7/77	2			189	
1	6/7/77	3			180	
1	6/7/77	4			164	
1	6/7/77	5			150	
1	6/7/77	6			144	
1	6/7/77	7			140	
1	6/7/77	8			139	
1	6/7/77	9			139	
1	6/7/77	10			130	
1	6/7/77	11			149	
1	6/7/77	12			149	
1	6/13/77	1			186	
1	6/13/77	2			189	
1	6/13/77	3			180	
1	6/13/77	4			164	
1	6/13/77	5			150	
1	6/13/77	6			144	
1	6/13/77	7			140	
1	6/13/77	8			139	
1	6/13/77	9			139	
1	6/13/77	10			130	
1	6/13/77	11			149	
1	6/13/77	12			149	
1	7/11/77	1			186	
1	7/11/77	2			188	
1	7/11/77	3			182	
1	7/11/77	4			172	
1	7/11/77	5			162	
1	7/11/77	6			153	
1	7/11/77	7			147	
1	7/11/77	8			145	
1	7/11/77	9			145	
1	7/11/77	10			145	
1	7/11/77	11			145	
1	7/11/77	12			142	
1	8/5/77	1			188	
1	8/5/77	2			190	
1	8/5/77	3			185	
1	8/5/77	4			176	
1	8/5/77	5			168	
1	8/5/77	6			165	
1	8/5/77	7			155	
1	8/5/77	8			150	
1	8/5/77	9			148	
1	8/5/77	10			143	
1	8/5/77	11			142	
1	8/5/77	12			142	
1	8/23/77	1			188	
1	8/23/77	2			192	
1	8/23/77	3			186	
1	8/23/77	4			177	
1	8/23/77	5			170	
1	8/23/77	6			162	
1	8/23/77	7			156	
1	8/23/77	8			156	
1	8/23/77	9			143	
1	8/23/77	10			142	
1	8/23/77	11			142	
1	8/23/77	12			142	
1	9/5/77	1			190	
1	9/5/77	2			192	
1	9/5/77	3			187	
1	9/5/77	4			179	
1	9/5/77	5			166	
1	9/5/77	6			163	
1	9/5/77	7			157	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/5/77	8			150		
1	9/5/77	9			143		
1	9/5/77	10			142		
1	9/5/77	11			142		
1	9/5/77	12			142		
1	9/5/77	13			142		
1	9/5/77	14			135		
1	10/3/77	1			190		
1	10/3/77	2			195		
1	10/3/77	3			190		
1	10/3/77	4			180		
1	10/3/77	5			170		
1	10/3/77	6			160		
1	10/3/77	7			150		
1	10/3/77	8			145		
1	10/3/77	9			143		
1	10/3/77	10			143		
1	10/3/77	11			143		
1	10/3/77	12			143		
1	10/3/77	13			143		
1	10/3/77	14			135		
1	11/3/77	1			191		
1	11/3/77	2			195		
1	11/3/77	3			190		
1	11/3/77	4			182		
1	11/3/77	5			174		
1	11/3/77	6			165		
1	11/3/77	7			155		
1	11/3/77	8			148		
1	11/3/77	9			143		
1	11/3/77	10			143		
1	11/3/77	11			143		
1	11/3/77	12			143		
1	11/3/77	13			141		
1	11/3/77	14			132		
1	12/4/77	1			195		
1	12/4/77	2			195		
1	12/4/77	3			190		
1	12/4/77	4			185		
1	12/4/77	5			175		
1	12/4/77	6			150		
1	12/4/77	7			150		
1	12/4/77	8			145		
1	12/4/77	9			145		
1	12/4/77	10			145		
1	12/4/77	11			145		
1	12/4/77	12			145		
1	12/4/77	13			145		
1	12/4/77	14			145		
1	12/15/77	1			194		
1	12/15/77	2			194		
1	12/15/77	3			190		
1	12/15/77	4			180		
1	12/15/77	5			170		
1	12/15/77	6			160		
1	12/15/77	7			152		
1	12/15/77	8			145		
1	12/15/77	9			145		
1	12/15/77	10			145		
1	12/15/77	11			145		
1	12/15/77	12			145		
1	1/12/78	1			195		
1	1/12/78	2			200		
1	1/12/78	3			190		
1	1/12/78	4			184		
1	1/12/78	5			175		
1	1/12/78	6			165		
1	1/12/78	7			155		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
1	1/12/78	8			150	
1	1/12/78	9			145	
1	1/12/78	10			143	
1	1/12/78	11			130	
1	1/25/78	1			195	
1	1/25/78	2			200	
1	1/25/78	3				129 - suspect data (Unreadable)
1	1/25/78	4			185	
1	1/25/78	5			175	
1	1/25/78	6			160	
1	1/25/78	7			155	
1	1/25/78	8			148	
1	1/25/78	9			145	
1	1/25/78	10			140	
1	1/25/78	11			130	
1	2/2/78	1			195	
1	2/2/78	2			200	
1	2/2/78	3			193	
1	2/2/78	4			185	
1	2/2/78	5			175	
1	2/2/78	6			165	
1	2/2/78	7			157	
1	2/2/78	8			148	
1	2/2/78	9			142	
1	2/2/78	10			140	
1	2/2/78	11			130	
1	2/2/78	12			115	
1	2/2/78	13			104	
1	2/2/78	14			104	
1	3/9/78	1			197	
1	3/9/78	2			200	
1	3/9/78	3			194	
1	3/9/78	4			184	
1	3/9/78	5			170	
1	3/9/78	6			160	
1	3/9/78	7			153	
1	3/9/78	8			149	
1	3/9/78	9			145	
1	3/9/78	10			145	
1	3/9/78	11			130	
1	3/9/78	12			130	
1	3/9/78	13			130	
1	4/11/78	1			197	
1	4/11/78	2			200	
1	4/11/78	3			194	
1	4/11/78	4			185	
1	4/11/78	5			175	
1	4/11/78	6			175	
1	4/11/78	7			156	
1	4/11/78	8			148	
1	4/11/78	9			143	
1	4/11/78	10			142	
1	4/11/78	11			130	
1	4/11/78	12			112	
1	4/11/78	13			100	
1	4/11/78	14			100	
1	5/3/80	1			210	
1	5/3/80	2			214	
1	5/3/80	3			208	
1	5/3/80	4			199	
1	5/3/80	5			190	
1	5/3/80	6			178	
1	5/3/80	7			168	
1	5/3/80	8			157	
1	5/3/80	9			144	
1	5/3/80	10			126	
1	5/3/80	11			105	
1	5/3/80	12			103	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/19/80	1			210		
1	9/19/80	2			213		
1	9/19/80	3			206		
1	9/19/80	4			196		
1	9/19/80	5			187		
1	9/19/80	6			176		
1	9/19/80	7			166		
1	9/19/80	8			155		
1	9/19/80	9			142		
1	9/19/80	10			125		
1	9/19/80	11			109		
1	9/19/80	12			107		
1	9/19/80	13			106		
1	9/19/80	14			106		
1	9/19/80	15			106		
1	9/19/80	16			106		
1	2/7/81	1			216		
1	2/7/81	2			221		
1	2/7/81	3			215		
1	2/7/81	4			206		
1	2/7/81	5			196		
1	2/7/81	6			186		
1	2/7/81	7			177		
1	2/7/81	8			163		
1	2/7/81	9			142		
1	2/7/81	10			113		
1	2/7/81	11			108		
1	2/7/81	12			106		
1	2/7/81	13			102		
1	2/7/81	14			105		
1	1/13/82	1			208		
1	1/13/82	2			213		
1	1/13/82	3			207		
1	1/13/82	4			197		
1	1/13/82	5			188		
1	1/13/82	6			177		
1	1/13/82	7			164		
1	1/13/82	8			150		
1	1/13/82	9			135		
1	1/13/82	10			116		
1	1/13/82	11			102		
1	1/13/82	12			100		
1	5/29/82	1			208		
1	5/29/82	2			212		
1	5/29/82	3			207		
1	5/29/82	4			198		
1	5/29/82	5			187		
1	5/29/82	6			177		
1	5/29/82	7			163		
1	5/29/82	8			148		
1	5/29/82	9			131		
1	5/29/82	10			113		
1	5/29/82	11			100		
1	5/29/82	12			98		
1	10/6/82	1			207		
1	10/6/82	2			211		
1	10/6/82	3			206		
1	10/6/82	4			197		
1	10/6/82	5			186		
1	10/6/82	6			174		
1	10/6/82	7			162		
1	10/6/82	8			148		
1	10/6/82	9			134		
1	10/6/82	10			119		
1	10/6/82	11			108		
1	10/6/82	12			105		
1	10/6/82	13			105		
1	10/6/82	14			104		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/6/82	15			104		
1	10/6/82	16			104		
1	1/9/84	1			198		
1	1/9/84	2			203		
1	1/9/84	3			199		
1	1/9/84	5			177		
1	1/9/84	6			97		
1	2/14/84	1			208		
1	2/14/84	2			213		
1	2/14/84	3			208		
1	2/14/84	5			186		
1	2/14/84	6			103		
1	3/14/84	1			194		
1	3/14/84	2			199		
1	3/14/84	3			194		
1	3/14/84	5			174		
1	3/14/84	6			87		
1	4/9/84	1			201		
1	4/9/84	2			206		
1	4/9/84	3			200		
1	4/9/84	5			178		
1	4/9/84	6			93		
1	6/19/84	1			199		
1	6/19/84	2			204		
1	6/19/84	3			198		
1	6/19/84	4			190		
1	6/19/84	5			181		
1	6/19/84	6			96		
1	9/1/84	1			199		
1	9/1/84	2			204		
1	9/1/84	3			197		
1	9/1/84	5			182		
1	9/1/84	6			105		
1	10/5/84	1			197		
1	10/5/84	2			202		
1	10/5/84	3			195		
1	10/5/84	5			180		
1	10/5/84	6			103		
1	1/8/85	1			197		
1	1/8/85	2			202		
1	1/8/85	3			196		
1	1/8/85	4			187		
1	1/8/85	5			179		
1	1/8/85	6			95		
1	2/4/85	1			216		
1	2/4/85	2			222		
1	2/4/85	3			216		
1	2/4/85	5			202		
1	2/4/85	6			120		
1	4/2/85	1			195		
1	4/2/85	2			200		
1	4/2/85	3			195		
1	4/2/85	4			180		
1	4/2/85	5			140		
1	4/2/85	6			88		
1	5/2/85	1			188		
1	5/2/85	2			193		
1	5/2/85	3			188		
1	5/2/85	4			185		
1	5/2/85	5			173		
1	5/2/85	6			88		
1	6/4/85	1			200		
1	6/4/85	2			204		
1	6/4/85	3			199		
1	6/4/85	4			191		
1	6/4/85	5			183		
1	6/4/85	6			102		
1	7/2/85	1			192		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	7/2/85	2			196		
1	7/2/85	3			191		
1	7/2/85	4			189		
1	7/2/85	5			176		
1	7/2/85	6			97		
1	8/6/85	1			200		
1	8/6/85	2			206		
1	8/6/85	3			199		
1	8/6/85	4			189		
1	8/6/85	5			204		
1	8/13/85	1			219		
1	8/13/85	2			225		
1	8/13/85	3			217		
1	8/13/85	5			201		
1	8/13/85	6			126		
1	9/1/85	1			215		
1	9/1/85	2			213		
1	9/1/85	3			212		
1	9/1/85	4			194		
1	9/1/85	5			212		
1	9/1/85	6					201 - suspect data (high)
1	12/4/85	1			177		
1	12/4/85	2			181		
1	12/4/85	3			175		
1	12/4/85	5			160		
1	12/4/85	6			84		
1	1/6/86	1					74 - suspect data (low)
1	1/6/86	2					74 - suspect data (low)
1	1/6/86	3					74 - suspect data (low)
1	1/6/86	4					72 - suspect data (low)
1	1/6/86	5					73 - suspect data (low)
1	1/6/86	6					73 - suspect data (low)
1	3/3/86	1					79 - suspect data (low)
1	3/3/86	2					80 - suspect data (low)
1	3/3/86	3					79 - suspect data (low)
1	3/3/86	4					78 - suspect data (low)
1	3/3/86	5					79 - suspect data (low)
1	3/3/86	6					78 - suspect data (low)
1	4/7/86	1					85 - suspect data (low)
1	4/7/86	2					87 - suspect data (low)
1	4/7/86	3					89 - suspect data (low)
1	4/7/86	4					85 - suspect data (low)
1	4/7/86	5					88 - suspect data (low)
1	4/7/86	6					86 - suspect data (low)
1	5/10/86	1			194		
1	5/10/86	2			197		
1	5/10/86	3			194		
1	5/10/86	5			178		
1	5/10/86	6			95		
1	6/2/86	1			194		
1	6/2/86	2			197		
1	6/2/86	3			194		
1	6/2/86	5			178		
1	6/2/86	6			95		
1	7/7/86	1			195		
1	7/7/86	2			197		
1	7/7/86	3			194		
1	7/7/86	5			177		
1	7/7/86	6			98		
1	8/4/86	1			193.7		
1	8/4/86	2			196.6		
1	8/4/86	3			193.1		
1	8/4/86	5			177		
1	8/4/86	6			99.2		
1	9/8/86	1			193		
1	9/8/86	2			196		
1	9/8/86	3			194		
1	9/8/86	5			179		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	9/8/86	6			107		
1	10/7/86	1			192.8		
1	10/7/86	2			195.7		
1	10/7/86	3			192.1		
1	10/7/86	5			176.5		
1	10/7/86	6			101.8		
1	11/1/86	1			193.7		
1	11/1/86	2			196.5		
1	11/1/86	3			192.8		
1	11/1/86	5			177.4		
1	11/1/86	6			101.8		
1	11/1/86	6			193.2		
1	12/2/86	1			196.2		
1	12/2/86	2			192.5		
1	12/2/86	3			177		
1	12/2/86	5			100.1		
1	12/2/86	6			192		
1	2/2/87	1			195		
1	2/2/87	2			191		
1	2/2/87	3			177.4		
1	2/2/87	5			97		
1	2/2/87	6			192		
1	3/2/87	1			195		
1	3/2/87	2			191		
1	3/2/87	3			176		
1	3/2/87	5			95		
1	3/2/87	6			191		
1	4/6/87	1			195		
1	4/6/87	2			193		
1	4/6/87	3			178		
1	4/6/87	5			101		
1	4/6/87	6			191.1		
1	5/3/87	1			194.3		
1	5/3/87	2			191.1		
1	5/3/87	3			175.3		
1	5/3/87	5			95.4		
1	5/3/87	6			191.1		
1	7/6/87	1			193.9		
1	7/6/87	2			190.1		
1	7/6/87	3			174.2		
1	7/6/87	5			99.3		
1	7/6/87	6			196		
1	8/4/87	1			200		
1	8/4/87	2			197		
1	8/4/87	3			178		
1	8/4/87	5			94		
1	8/4/87	6			173		
1	9/6/87	1			175.3		
1	9/6/87	2			172.5		
1	9/6/87	3			159.3		
1	9/6/87	5			99.8		
1	9/6/87	6			190		
1	10/5/87	1			193		
1	10/5/87	2			191		
1	10/5/87	3			172		
1	10/5/87	5			104		
1	10/5/87	6			189		
1	11/4/87	1			193		
1	11/4/87	2			190		
1	11/4/87	3			174		
1	11/4/87	5			101		
1	11/4/87	6			190.8		
1	12/8/87	1			192.9		
1	12/8/87	2			189.5		
1	12/8/87	3			174.4		
1	12/8/87	5			99.7		
1	12/8/87	6			190		
1	12/20/87	1			193		
1	12/20/87	2					

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/20/87	3			189		
1	12/20/87	5			174		
1	12/20/87	6			98		
1	1/4/88	1	1		190.5	N	
1	1/4/88	1			190.5		
1	1/4/88	2	1		193.1	Y	
1	1/4/88	2			193.1		
1	1/4/88	3	1		189.3	N	
1	1/4/88	3			189.3		
1	1/4/88	5	1		174.8	N	
1	1/4/88	5			174.8		
1	1/4/88	6	1		97.8	N	
1	1/4/88	6			97.8		
1	2/1/88	1	1		183	N	
1	2/1/88	1			183		
1	2/1/88	2	1		186	Y	
1	2/1/88	2			186		
1	2/1/88	3	1		184	N	
1	2/1/88	3			184		
1	2/1/88	5	1		170	N	
1	2/1/88	5			170		
1	2/1/88	6	1		93	N	
1	2/1/88	6			93		
1	3/8/88	1	1		191	N	
1	3/8/88	1			191		
1	3/8/88	2	1		192	Y	
1	3/8/88	2			192		
1	3/8/88	3	1		189	N	
1	3/8/88	3			189		
1	3/8/88	5	1		176	N	
1	3/8/88	5			176		
1	3/8/88	6	1		99	N	
1	3/8/88	6			99		
1	4/4/88	1	1		176	N	
1	4/4/88	1			176		
1	4/4/88	2	1		179	Y	
1	4/4/88	2			179		
1	4/4/88	3	1		176	N	
1	4/4/88	3			176		
1	4/4/88	5	1		162	N	
1	4/4/88	5			162		
1	4/4/88	6	1		86	N	
1	4/4/88	6			86		
1	5/2/88	1	1		194	N	
1	5/2/88	1			194		
1	5/2/88	2	1		196	Y	
1	5/2/88	2			196		
1	5/2/88	3	1		193	N	
1	5/2/88	3			193		
1	5/2/88	5	1		178	N	
1	5/2/88	5			178		
1	5/2/88	6	1		102	N	
1	5/2/88	6			102		
1	5/4/88	1	1		193	N	
1	5/4/88	1			193		
1	5/4/88	2	1		195	Y	
1	5/4/88	2			195		
1	5/4/88	3	1		191	N	
1	5/4/88	3			191		
1	5/4/88	5	1		176	N	
1	5/4/88	5			176		
1	5/4/88	6	1		100	N	
1	5/4/88	6			100		
1	5/16/88	1	1		193	N	
1	5/16/88	2	1		195	Y	
1	5/16/88	3	1		191	N	
1	5/16/88	5	1		176	N	
1	5/16/88	6	1		100	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	6/6/88	1	1		193	N	
1	6/6/88	1			193		
1	6/6/88	2	1		195	Y	
1	6/6/88	2			195		
1	6/6/88	3	1		191	N	
1	6/6/88	3			191		
1	6/6/88	5	1		175	N	
1	6/6/88	5			175		
1	6/6/88	6	1		100	N	
1	6/6/88	6			100		
1	7/4/88	1	1		178	N	
1	7/4/88	1			178		
1	7/4/88	2	1		182	Y	
1	7/4/88	2			182		
1	7/4/88	3	1		179	N	
1	7/4/88	3			179		
1	7/4/88	4	1		173	N	
1	7/4/88	4			173		
1	7/4/88	5	1		165	N	
1	7/4/88	5			165		
1	7/4/88	6	1		91	N	
1	7/4/88	6			91		
1	8/1/88	1	1		192	N	
1	8/1/88	1			192		
1	8/1/88	2	1		195	Y	
1	8/1/88	2			195		
1	8/1/88	3	1		192	N	
1	8/1/88	3			192		
1	8/1/88	5	1		178	N	
1	8/1/88	5			178		
1	8/1/88	6	1		107	N	
1	8/1/88	6			107		
1	9/5/88	1	1		188	N	
1	9/5/88	1			188		
1	9/5/88	2	1		191	Y	
1	9/5/88	2			191		
1	9/5/88	3	1		188	N	
1	9/5/88	3			188		
1	9/5/88	5	1		173	N	
1	9/5/88	5			173		
1	9/5/88	6	1		101	N	
1	9/5/88	6			101		
1	10/3/88	1	1		187	N	
1	10/3/88	1			187		
1	10/3/88	2	1		191	Y	
1	10/3/88	2			191		
1	10/3/88	3	1		188	N	
1	10/3/88	3			188		
1	10/3/88	5	1		174	N	
1	10/3/88	5			174		
1	10/3/88	6	1		102	N	
1	10/3/88	6			102		
1	11/7/88	1	1		191	N	
1	11/7/88	2	1		193	Y	
1	11/7/88	3	1		189	N	
1	11/7/88	5	1		175	N	
1	11/7/88	6	1		105	N	
1	12/5/88	1	1			N	O/S
1	1/2/89	1	1			N	O/S
1	1/6/89	1	1		187.9	N	
1	1/6/89	2	1		191.8	Y	
1	1/6/89	3	1		189.1	N	
1	1/6/89	5	1		174.5	N	
1	1/6/89	6	1		95.4	N	
1	2/7/89	1	1		189	N	
1	2/7/89	2	1		192.1	Y	
1	2/7/89	3	1		189	N	
1	2/7/89	5	1		174.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/7/89	6	1		94.1	N	
1	3/6/89	2	1			N	228 - suspect data (high)
1	3/6/89	3	1			N	225 - suspect data (high)
1	3/6/89	5	1			N	205 - suspect data (high)
1	3/6/89	6	1			N	114 - suspect data (high)
1	3/7/89	2	1			N	233 - suspect data (high)
1	3/7/89	3	1			N	230 - suspect data (high)
1	3/7/89	5	1			N	210 - suspect data (high)
1	3/7/89	6	1			N	118 - suspect data (high)
1	3/8/89	1	1		189.1	N	
1	3/8/89	2	1		191.8	Y	
1	3/8/89	3	1		188.7	N	
1	3/8/89	5	1		174.5	N	
1	3/8/89	6	1		92.8	N	
1	6/5/89	1	1		188	N	
1	6/5/89	2	1		191	Y	
1	6/5/89	3	1		187	N	
1	6/5/89	5	1		171	N	
1	6/5/89	6	1		96	N	
1	7/3/89	1	1		187.2	N	
1	7/3/89	2	1		190.6	Y	
1	7/3/89	3	1		187.3	N	
1	7/3/89	5	1		174.9	N	
1	7/3/89	6	1		96.79	N	TC#6 SUSPECT
1	1/1/90	1	1		184.4	N	J-890523512-20
1	1/1/90	2	1		186.7	Y	
1	1/1/90	3	1		183.5	N	
1	1/1/90	5	1		168.3	N	
1	2/5/90	1	1			N	J-890523512-20 & K-890723679
1	1/4/91	1	1		177.9	N	J 890523512-47
1	1/4/91	2	1		180.1	Y	
1	1/4/91	3	1		177.4	N	
1	1/4/91	5	1		162.5	N	
1	2/9/91	1	1		179.2	N	J 890423320-11
1	2/9/91	2	1		181.9	Y	
1	2/9/91	3	1		180.8	N	
1	2/9/91	5	1		166.1	N	
1	2/16/91	1	1		177.5	N	J 890423320-11
1	2/16/91	2	1		180	Y	
1	2/16/91	3	1		177.8	N	
1	2/16/91	5	1		163.4	N	
1	2/24/91	1	1		180.2	N	J 890423320-11
1	2/24/91	2	1		182.6	Y	
1	2/24/91	3	1		179.3	N	
1	2/24/91	5	1		164.5	N	
1	3/3/91	1	1		179	N	J 890423320-11
1	3/3/91	2	1		181	Y	
1	3/3/91	3	1		178	N	
1	3/3/91	5	1		164	N	
1	3/9/91	1	1		179	N	J 890423320-11
1	3/9/91	2	1		182	Y	
1	3/9/91	3	1		179	N	
1	3/9/91	5	1		165	N	
1	3/16/91	1	1		177.2	N	J 890423320-11
1	3/16/91	2	1		180	Y	
1	3/16/91	3	1		178.7	N	
1	3/16/91	5	1		165	N	
1	3/24/91	1	1		177.9	N	J 890423320-11
1	3/24/91	2	1		180.2	Y	
1	3/24/91	3	1		177.8	N	
1	3/24/91	5	1		163.5	N	
1	3/30/91	1	1		176.5	N	J 890423320-11
1	3/30/91	2	1		179.5	Y	
1	3/30/91	3	1		178.1	N	
1	3/30/91	5	1		164.2	N	
1	4/7/91	1	1		183.6	Y	J 890423320-11
1	4/7/91	3	1		183	N	
1	4/7/91	5	1		167	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	4/14/91	1	1		180.1	N	J 890423320-11 HH-99-A
1	4/14/91	2	1		182.6	Y	
1	4/14/91	3	1		179.6	N	
1	4/14/91	5	1		165	N	
1	4/20/91	1	1		178.1	N	J 890423320-11 HH-90A-J
1	4/20/91	2	1		180.7	Y	
1	4/20/91	3	1		179.3	N	
1	4/20/91	5	1		165.2	N	
1	4/27/91	1	1		180.6	N	J
1	4/27/91	2	1		182.9	Y	
1	4/27/91	3	1		180.4	N	
1	4/27/91	5	1		166.8	N	
1	5/4/91	1	1		177.1	N	J HH-99A-J
1	5/4/91	2	1		179.9	Y	
1	5/4/91	3	1		178.3	N	
1	5/4/91	5	1		164.1	N	
1	5/12/91	1	1		177.2	N	J 910126143-75
1	5/12/91	2	1		179.6	Y	
1	5/12/91	3	1		176.6	N	
1	5/12/91	5	1		162	N	
1	5/19/91	1	1		174.4	N	J Omega 99-A
1	5/19/91	2	1		181.2	Y	
1	5/19/91	3	1		178.7	N	
1	5/19/91	5	1		164.2	N	
1	5/24/91	1	1		179.2	N	J 890423320-11
1	5/24/91	2	1		181.3	Y	
1	5/24/91	3	1		178.8	N	
1	5/24/91	5	1		164.3	N	
1	6/2/91	1	1		178	N	J 850423320-11
1	6/2/91	2	1		180.6	Y	
1	6/2/91	3	1		178.2	N	
1	6/2/91	5	1		163.5	N	
1	6/9/91	1	1		177.9	N	J 890423320-11
1	6/9/91	2	1		180.5	Y	
1	6/9/91	3	1		178	N	
1	6/9/91	5	1		163.4	N	
1	6/16/91	1	1		179.9	N	J 890423320-11 TC #4 NG
1	6/16/91	2	1		182.3	Y	
1	6/16/91	3	1		178.9	N	
1	6/16/91	5	1		164.2	N	
1	6/22/91	1	1		179.4	N	J 910126143-39
1	6/22/91	2	1		181.8	Y	
1	6/22/91	3	1		178.7	N	
1	6/22/91	5	1		163.8	N	
1	6/29/91	1	1		176.4	N	J 910126143-75 TC#4NG
1	6/29/91	2	1		179.5	Y	
1	6/29/91	3	1		177.2	N	
1	6/29/91	5	1		162.3	N	
1	7/7/91	1	1		177.5	N	J 910126143-75 TC#46o/s
1	7/7/91	2	1		180.1	Y	
1	7/7/91	3	1		178.1	N	
1	7/7/91	5	1		163.2	N	
1	7/13/91	1	1		177.6	N	J 910126143-75 TC#46o/s
1	7/13/91	2	1		179.9	Y	
1	7/13/91	3	1		177.2	N	
1	7/13/91	5	1		162.2	N	
1	7/20/91	1	1		176.3	N	J 910126143-75 TC#46o/s
1	7/20/91	2	1		179.1	Y	
1	7/20/91	3	1		176.6	N	
1	7/20/91	5	1		161.6	N	
1	7/27/91	1	1		177.5	N	J 910126143-75 TC#46o/s
1	7/27/91	2	1		179.9	Y	
1	7/27/91	3	1		177.9	N	
1	7/27/91	5	1		162.7	N	
1	8/3/91	1	1		176.5	N	J 910126143-75 TC#46o/s
1	8/3/91	2	1		179.2	Y	
1	8/3/91	3	1		176.6	N	
1	8/3/91	5	1		161.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	8/11/91	1	1		176.9	N	J 910126143-75 TC#46o/s
1	8/11/91	2	1		179.4	Y	
1	8/11/91	3	1		177.9	N	
1	8/11/91	5	1		162.7	N	
1	8/18/91	1	1		175.8	N	J 910126143-75
1	8/18/91	2	1		178.9	Y	
1	8/18/91	3	1		177.3	N	
1	8/18/91	5	1		162.9	N	
1	8/25/91	1	1		176.3	N	J HH-99A-J
1	8/25/91	2	1		179.3	Y	
1	8/25/91	3	1		177.7	N	
1	8/25/91	4	1			N	O/S
1	8/25/91	5	1		163	N	
1	8/25/91	6	1			N	O/S
1	8/31/91	1	1		175.6	N	J-890523512-20
1	8/31/91	2	1		178.2	Y	
1	8/31/91	3	1		176.2	N	
1	8/31/91	5	1		161.9	N	
1	9/7/91	1	1		177.2	N	J-890523512-20
1	9/7/91	2	1		179.7	Y	
1	9/7/91	3	1		177.4	N	
1	9/7/91	5	1		162.7	N	
1	9/14/91	1	1		177.2	N	J-890523512-20
1	9/14/91	2	1		179.6	Y	
1	9/14/91	3	1		177.6	N	
1	9/14/91	5	1		162.7	N	
1	9/21/91	1	1		177.9	N	J-HH-99A-J
1	9/21/91	2	1		180.2	Y	
1	9/21/91	3	1		178	N	
1	9/21/91	5	1		163.4	N	
1	9/28/91	1	1		176.4	N	J-890523512-20
1	9/28/91	2	1		179.3	Y	
1	9/28/91	3	1		177.7	N	
1	9/28/91	5	1		163.6	N	
1	10/5/91	1	1		178.1	N	J-890523518-20
1	10/5/91	2	1		180.5	Y	
1	10/5/91	3	1		178.2	N	
1	10/5/91	5	1		163.8	N	
1	10/11/91	1	1		178	N	J-890523512-20
1	10/11/91	2	1		180.5	Y	
1	10/11/91	3	1		178.3	N	
1	10/11/91	5	1		164.1	N	
1	10/20/91	1	1		177.8	N	J-890523512-20
1	10/20/91	2	1		180.1	Y	
1	10/20/91	3	1		178.2	N	
1	10/20/91	5	1		163.5	N	
1	10/26/91	1	1		179.9	N	J-890523512-20
1	10/26/91	2	1		182.4	Y	
1	10/26/91	3	1		179.9	N	
1	10/26/91	5	1		165.4	N	
1	11/2/91	1	1		179.2	N	J-8905235125-80 TC #46 O/S
1	11/2/91	2	1		181.5	Y	
1	11/2/91	3	1		178.9	N	
1	11/2/91	5	1		164.9	N	
1	11/9/91	1	1		180.5	N	J-890523512-20 TC #4 O/S
1	11/9/91	2	1		182.7	Y	
1	11/9/91	3	1		180	N	
1	11/9/91	5	1		165.3	N	
1	11/15/91	1	1		176	Y	J-T1045 TC #4 O/S
1	11/15/91	2	1		178.4	N	
1	11/15/91	3	1		175.6	N	
1	11/15/91	5	1		161	N	
1	11/23/91	1	1		175.5	N	J-890423320-42 TC #4 O/S
1	11/23/91	2	1		177.9	Y	
1	11/23/91	3	1		174.9	N	
1	11/23/91	5	1		160.3	N	
1	12/6/91	1	1		179	N	J-910126143-64 TC #4 O/S
1	12/6/91	2	1		180	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/6/91	3	1		178	N	
1	12/6/91	5	1		164	N	
1	12/8/91	1	1		179.4	N	J-890523-512-20 TC #4 O/S RETESTED FOR TC #6
1	12/8/91	2	1		181.6	Y	
1	12/8/91	3	1		178.9	N	
1	12/8/91	5	1		164.6	N	
1	12/14/91	1	1		178	N	J-910126143-64 TC #4 O/S
1	12/14/91	2	1		180.1	Y	
1	12/14/91	3	1		177.7	N	
1	12/14/91	5	1		163	N	
1	12/22/91	1	1		180.2	N	J-TI-007 TC #4 O/S
1	12/22/91	2	1		182.4	Y	
1	12/22/91	3	1		179.7	N	
1	12/22/91	5	1		165	N	
1	12/28/91	1	1		180	N	J-890723679-64 TC #4 O/S #6 BAD
1	12/28/91	2	1		182.5	Y	
1	12/28/91	3	1		179.9	N	
1	12/28/91	5	1		165.4	N	
1	1/6/92	1	1		179.3	N	J-TI-030 TC #46 O/S
1	1/6/92	2	1		181.5	Y	
1	1/6/92	3	1		178.4	N	
1	1/6/92	5	1		164	N	
1	1/10/92	1	1		179.7	N	J 890523512-20
1	1/10/92	2	1		181.8	Y	
1	1/10/92	3	1		178.8	N	
1	1/10/92	5	1		164.3	N	
1	1/16/92	1	1		175.7	N	J TI-042
1	1/16/92	2	1		178	Y	
1	1/16/92	3	1		175.3	N	
1	1/16/92	5	1		161	N	
1	1/25/92	1	1		178.5	N	J-890523512-20
1	1/25/92	2	1		180.6	Y	
1	1/25/92	3	1		178	N	
1	1/25/92	5	1		163.5	N	
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
1	2/22/92	1	1		177.7	N	J-910126143-50
1	2/22/92	2	1		180.1	Y	
1	2/22/92	3	1		178.5	N	
1	2/22/92	4	1			N	TC #46 O/S
1	2/22/92	5	1		164.3	N	
1	2/23/92	1	1		174.5	N	J 890423320 42
1	2/23/92	2	1		177.2	Y	
1	2/23/92	3	1		175	N	
1	2/23/92	5	1		161.2	N	
1	3/1/92	1	1		178.2	N	J-910126143-5
1	3/1/92	2	1		180.2	Y	
1	3/1/92	3	1		177.4	N	
1	3/1/92	5	1		162.5	N	
1	3/6/92	1	1		176.6	N	J 910126143-50 #6 BAD
1	3/6/92	2	1		179.2	N	
1	3/6/92	3	1		177.4	N	
1	3/6/92	4	1			N	o/s
1	3/6/92	5	1		162.6	N	
1	3/14/92	1	1		175.8	N	J 890523512-20 TC #4 O/S #6 BAD
1	3/14/92	2	1		178.4	Y	
1	3/14/92	3	1		176.7	N	
1	3/14/92	5	1		162.6	N	
1	3/22/92	1	1		174.5	N	J 890423320-42
1	3/22/92	2	1		177.2	Y	
1	3/22/92	3	1		175	N	
1	3/22/92	5	1		161.2	N	
1	3/28/92	1	1		174	N	J 890423320-42
1	3/28/92	2	1		177	Y	
1	3/28/92	3	1		176	N	
1	3/28/92	5	1		161	N	
1	4/4/92	1	1		178	N	J 890423320-42

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/4/92	2	1		180.4	Y	
1	4/4/92	3	1		178.2	N	
1	4/4/92	5	1		163.4	N	
1	4/9/92	1	1		179.1	N	J 900925741-79
1	4/9/92	2	1		181.4	Y	
1	4/9/92	3	1		178.3	N	
1	4/9/92	5	1		163.5	N	
1	4/18/92	1	1		169.3	N	J 890423320 42
1	4/18/92	2	1		172	Y	
1	4/18/92	3	1		170.2	N	
1	4/18/92	5	1		156	N	
1	4/25/92	1	1		173	N	
1	4/25/92	2	1		174.8	Y	
1	4/25/92	3	1		173	N	
1	4/25/92	5	1		158.6	N	
1	4/30/92	1	1		178.3	N	J 900925741-79
1	4/30/92	2	1		180.7	Y	
1	4/30/92	3	1		178.2	N	
1	4/30/92	5	1		163.2	N	
1	5/9/92	1	1		174.7	N	J TI-045
1	5/9/92	2	1		177.4	Y	
1	5/9/92	3	1		175.1	N	
1	5/9/92	5	1		160.1	N	
1	5/15/92	1	1		178.4	N	J TI-037
1	5/15/92	2	1		180.6	Y	
1	5/15/92	3	1		177.9	N	
1	5/15/92	5	1		162.7	N	
1	5/20/92	1	1		178.2	N	J 89042330-42
1	5/20/92	2	1		180.3	Y	
1	5/20/92	3	1		178.2	N	
1	5/20/92	5	1		163.3	N	
1	5/30/92	1	1		178.3	N	J 900925741-79
1	5/30/92	2	1		181	Y	
1	5/30/92	3	1		177.8	N	
1	5/30/92	5	1		164.1	N	
1	6/8/92	1	1		172	N	J 890423320-42
1	6/8/92	2	1		174.9	Y	
1	6/8/92	3	1		172.5	N	
1	6/8/92	5	1		158	N	
1	6/13/92	1	1		178.1	N	J 900925741-79
1	6/13/92	2	1		180.5	Y	
1	6/13/92	3	1		178.1	N	
1	6/13/92	5	1		163	N	
1	6/19/92	1	1		172.1	N	J 890423320-42
1	6/19/92	2	1		175	Y	
1	6/19/92	3	1		173.2	N	
1	6/19/92	5	1		158.6	N	
1	6/25/92	1	1		172	N	J 890423320-42
1	6/25/92	2	1		174.6	Y	
1	6/25/92	3	1		172.1	N	
1	6/25/92	5	1		157.7	N	
1	7/4/92	1	1		172.7	N	J 890523512-47
1	7/4/92	2	1		175.2	N	
1	7/4/92	3	1		172.5	N	
1	7/4/92	5	1		158	N	
1	7/8/92	1	1		171.9	N	J 890523512-47
1	7/8/92	2	1		174.3	Y	
1	7/8/92	3	1		171.9	N	
1	7/8/92	5	1		157.7	N	
1	7/17/92	1	1		172.3	N	J 890523512-47
1	7/17/92	2	1		174.9	Y	
1	7/17/92	3	1		172.1	N	
1	7/17/92	5	1		157.8	N	
1	7/23/92	1	1		172.3	N	J 890523512-47
1	7/23/92	2	1		174.8	Y	
1	7/23/92	3	1		172.1	N	
1	7/23/92	5	1		157.4	N	
1	7/30/92	1	1		172.1	N	J 890523512-47

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103 THERMOCOUPLE DATA							COMMENTS
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	
1	7/30/92	2	1		174.9	Y	
1	7/30/92	3	1		172.5	N	
1	7/30/92	5	1		157.8	N	
1	8/6/92	1	1		176.3	N	J 890523512-47
1	8/6/92	2	1		178.5	Y	
1	8/6/92	3	1		175.5	N	
1	8/6/92	5	1		161.3	N	
1	8/13/92	1	1		175.9	N	J 890523512-47
1	8/13/92	2	1		178.2	Y	
1	8/13/92	3	1		177.4	N	
1	8/13/92	5	1		162.7	N	
1	8/21/92	1	1		175.8	N	J 890523512-47
1	8/21/92	2	1		178	N	
1	8/21/92	3	1		175.1	N	
1	8/21/92	5	1		160.5	N	
1	8/27/92	1	1		175.2	N	J 890523512-47
1	8/27/92	2	1		177.8	Y	
1	8/27/92	3	1		176	N	
1	8/27/92	5	1		161.9	N	
1	9/3/92	1	1		173.9	N	J 890523512-47
1	9/3/92	2	1		176.6	Y	
1	9/3/92	3	1		174.8	N	
1	9/3/92	5	1		160.5	N	
1	9/9/92	1	1		174.1	N	J 910126143-29
1	9/9/92	2	1		177.2	Y	
1	9/9/92	3	1		174.9	N	
1	9/9/92	5	1		160.2	N	TC#4 O/S
1	9/18/92	1	1		174.5	N	J 890523512-47
1	9/18/92	2	1		176.8	Y	
1	9/18/92	3	1		174.8	N	
1	9/18/92	5	1		160.6	N	
1	9/25/92	1	1		176.3	N	J 910126143-42
1	9/25/92	2	1		178.8	Y	
1	9/25/92	3	1		176.1	N	
1	9/25/92	5	1		161.9	N	
1	10/1/92	1	1		174.9	N	J 890523512-47
1	10/1/92	2	1		177.8	Y	
1	10/1/92	3	1		176.1	N	
1	10/1/92	5	1		162.6	N	
1	10/8/92	1	1		174.8	N	J 890523512-47
1	10/8/92	2	1		177.2	Y	
1	10/8/92	3	1		174.8	N	
1	10/8/92	5	1		161.1	N	
1	10/15/92	1	1		175.5	N	J 910126143-50
1	10/15/92	2	1		178.1	Y	
1	10/15/92	3	1		178.1	N	
1	10/15/92	5	1		163.3	N	
1	10/22/92	1	1		175	N	J 890523512-47
1	10/22/92	2	1		177.6	Y	
1	10/22/92	3	1		175.1	N	
1	10/22/92	5	1		161.1	N	
1	10/30/92	1	1		174.9	N	J 910126143-50
1	10/30/92	2	1		177.8	Y	
1	10/30/92	3	1		175.8	N	
1	10/30/92	5	1		162.8	N	
1	11/7/92	1	1		176.7	N	J 817-13-20-019293
1	11/7/92	2	1		178.7	Y	
1	11/7/92	3	1		176	Y	
1	11/7/92	5	1		162	N	
1	11/7/92	6	1		132.5	N	
1	11/13/92	1	1		177.3	N	J 910126143-50
1	11/13/92	2	1		179.2	Y	
1	11/13/92	3	1		176.2	N	
1	11/13/92	5	1		161.9	N	
1	11/19/92	1	1		177.3	N	J 817-13-20-019
1	11/19/92	2	1		179.6	Y	
1	11/19/92	3	1		176.5	N	
1	11/19/92	5	1		162.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	11/25/92	1	1		178.9	N	J 910126143-50
1	11/25/92	2	1		180.4	Y	
1	11/25/92	3	1		177.4	N	
1	11/25/92	5	1		162.7	N	
1	12/3/92	1	1		176.7	N	J 910126143-32
1	12/3/92	2	1		179.4	Y	
1	12/3/92	3	1		177.6	N	
1	12/3/92	5	1		164.3	N	
1	12/11/92	1	1		177.7	N	J 910126143-32
1	12/11/92	2	1		179.7	Y	
1	12/11/92	3	1		176.8	N	
1	12/11/92	5	1		162.5	N	
1	12/20/92	1	1		177.4	N	J 910126143-32
1	12/20/92	2	1		179.5	Y	
1	12/20/92	3	1		176.3	N	
1	12/20/92	5	1		162.5	N	
1	12/20/92	6	1		106.8	N	
1	12/27/92	1	1		179.5	N	J 910126143-32
1	12/27/92	2	1		181.6	Y	
1	12/27/92	3	1		178.5	N	
1	12/27/92	5	1		164.2	N	
1	12/27/92	6	1		98.3	N	
1	12/31/92	1	1		178	N	J 91012614332
1	12/31/92	2	1		180.2	Y	
1	12/31/92	3	1		177.8	N	
1	12/31/92	5	1		163.1	N	
1	1/7/93	1	1		174.5	N	J 91012143-29
1	1/7/93	2	1		177.5	Y	
1	1/7/93	3	1		175	N	
1	1/7/93	5	1		160.4	N	
1	1/7/93	6	1		88.8	N	
1	1/20/93	1	1		176.4	N	J 910126143-32
1	1/20/93	2	1		178.3	Y	
1	1/20/93	3	1		176	N	
1	1/20/93	5	1		162.4	N	
1	1/20/93	6	1		114.6	N	
1	1/23/93	1	1		176.6	N	J 910126143-29
1	1/23/93	2	1		178.6	Y	
1	1/23/93	3	1		175.7	N	
1	1/23/93	5	1		161.4	N	
1	1/23/93	6	1		100	N	
1	1/31/93	1	1		175.8	N	J 910126143-29
1	1/31/93	2	1		178.5	Y	
1	1/31/93	3	1		175.2	N	
1	1/31/93	5	1		160.8	N	
1	1/31/93	6	1		95.6	N	
1	2/5/93	1	1		176.5	N	J 910126143-32
1	2/5/93	2	1		178.8	Y	
1	2/5/93	3	1		176.4	N	
1	2/5/93	5	1		162.1	N	
1	2/5/93	6	1		101.6	N	
1	2/11/93	1	1		176	N	J 910126143-42
1	2/11/93	2	1		178	Y	
1	2/11/93	3	1		175.2	N	
1	2/11/93	5	1		160.7	N	
1	2/11/93	6	1		88.6	N	
1	2/18/93	1	1		176	N	J 910126143-29
1	2/18/93	2	1		178.3	Y	
1	2/18/93	3	1		175.3	N	
1	2/18/93	5	1		160.6	N	
1	2/18/93	6	1		86.8	N	
1	2/26/93	1	1		175.4	N	J 910126143-66
1	2/26/93	2	1		178.4	Y	
1	2/26/93	3	1		176.7	N	
1	2/26/93	5	1		162.8	N	
1	2/26/93	6	1		112.4	N	
1	3/4/93	1	1		174.6	N	J 817-13-20-019
1	3/4/93	2	1		176.7	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	3/4/93	3	1		174.3	N	
1	3/4/93	5	1		160	N	
1	3/4/93	6	1		130.5	N	
1	3/11/93	1	1		174.4	N	J 910126143-66
1	3/11/93	2	1		176.2	N	
1	3/11/93	3	1		173.2	N	
1	3/11/93	5	1		158.7	N	
1	3/19/93	1	1		176	N	J 910126143-66
1	3/19/93	2	1		178	N	
1	3/19/93	3	1		175.1	N	
1	3/19/93	5	1		161.4	N	
1	3/27/93	1	1		173.2	N	
1	3/27/93	2	1		176	Y	
1	3/27/93	3	1		174	N	
1	3/27/93	5	1		159.8	N	
1	4/1/93	1	1		170.9	N	J 8904-23320-42
1	4/1/93	2	1		173	Y	
1	4/1/93	3	1		170.4	N	
1	4/1/93	5	1		156.1	N	
1	4/8/93	1	1		172.5	N	J 0126143-14
1	4/8/93	2	1		174.7	Y	
1	4/8/93	3	1		172	N	
1	4/8/93	4	1		157.3	N	
1	4/15/93	1	1		176	N	J 910126143-66
1	4/15/93	2	1		178	Y	
1	4/15/93	3	1		175	N	
1	4/15/93	5	1		160	N	
1	4/21/93	1	1		174.9	N	J910126143-66 TC# 4 O/S
1	4/21/93	2	1		177.3	Y	
1	4/21/93	3	1		174.3	N	
1	4/21/93	5	1		159.9	N	
1	4/21/93	6	1			N	38 - suspect data (low)
1	4/23/93	1	1		174.7	N	J 910126143-66
1	4/23/93	2	1		176.2	Y	
1	4/23/93	3	1		173.7	N	
1	4/23/93	5	1		159.2	N	
1	4/29/93	1	1		174.1	N	J 910126143-66
1	4/29/93	2	1		176	Y	
1	4/29/93	3	1		173.3	N	
1	4/29/93	5	1		158.5	N	
1	4/29/93	6	1		132	N	
1	5/6/93	1	1		173.6	N	J 91012614366
1	5/6/93	2	1		175.7	Y	
1	5/6/93	3	1		173.1	N	
1	5/6/93	5	1		158.6	N	
1	5/13/93	1	1		172.9	N	J 910126143-66
1	5/13/93	2	1		175.3	Y	
1	5/13/93	3	1		173.1	N	
1	5/13/93	5	1		158.7	N	
1	5/13/93	6	1		166	N	
1	5/20/93	1	1		173.5	N	J 910126143-66 TC 46 OS
1	5/20/93	2	1		175.7	Y	
1	5/20/93	3	1		173.3	N	
1	5/20/93	5	1		158.4	N	
1	5/27/93	1	1		170.7	N	J 89043230-42 TC 46 O/S
1	5/27/93	2	1		173.2	Y	
1	5/27/93	3	1		171.2	N	
1	5/27/93	5	1		156.5	N	
1	6/3/93	1	1		174	N	J 817-13-20-019 TC 4&6 O/S
1	6/3/93	2	1		176	Y	
1	6/3/93	3	1		174	N	
1	6/3/93	5	1		159	N	
1	6/10/93	1	1		173.7	N	J 910126143-32 TC 46 O/S
1	6/10/93	2	1		176.6	Y	
1	6/10/93	3	1		174.6	N	
1	6/10/93	5	1		159.9	N	
1	6/18/93	1	1		173.6	N	J TC 46 O/S
1	6/18/93	2	1		176.1	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	6/18/93	3	1		173.6	N	
1	6/18/93	5	1		158.1	N	
1	6/27/93	1	1		174.8	N	J 910126143-32 TC 46 O/S
1	6/27/93	2	1		177.1	Y	
1	6/27/93	3	1		174.5	N	
1	6/27/93	5	1		159.3	N	
1	7/1/93	1	1		170.8	N	J 890423320-42 TC 46 O/S
1	7/1/93	2	1		173	Y	
1	7/1/93	3	1		170.5	N	
1	7/1/93	5	1		155.8	N	
1	7/8/93	1	1		169.9	N	J 890423320-42 TC 46 O/S
1	7/8/93	2	1		172.6	Y	
1	7/8/93	3	1		170.2	N	
1	7/8/93	5	1		155.5	N	
1	7/16/93	1	1		171.5	N	TYPE J 890423320-42
1	7/16/93	2	1		173.7	Y	
1	7/16/93	3	1		171.3	N	
1	7/16/93	5	1		156.3	N	
1	7/22/93	1	1		171.7	N	J 0126143-14 TC-4 O/S TC-6 SUSPECT
1	7/22/93	2	1		173.9	Y	
1	7/22/93	3	1		171.5	N	
1	7/22/93	5	1		157.2	N	
1	7/29/93	1	1		172.4	N	J 910126143-12 TC# 4 O/S
1	7/29/93	2	1		174.5	Y	
1	7/29/93	3	1		171.5	N	
1	7/29/93	5	1		157	N	
1	7/29/93	6	1		107.2	N	
1	8/5/93	1	1		169.5	N	J 890423320-42 TC# 4 & 5 O/S
1	8/5/93	2	1		172.3	Y	
1	8/5/93	3	1		170.5	N	
1	8/5/93	5	1		156.2	N	
1	8/13/93	1	1		171.4	N	J89042332042 TC 4&6 O/S
1	8/13/93	2	1		173.1	Y	
1	8/13/93	3	1		170.7	N	
1	8/13/93	5	1		156	N	
1	8/19/93	1	1		169.7	N	J 89062330-42 TC 4&6 O/S
1	8/19/93	2	1		172.1	Y	
1	8/19/93	3	1		169.9	N	
1	8/19/93	5	1		155.3	N	
1	8/27/93	1	1		177.6	N	J 910126143-66 TC 4&6 O/S
1	8/27/93	2	1		179.2	Y	
1	8/27/93	3	1		176	N	
1	8/27/93	5	1		160.9	N	
1	9/3/93	1	1		175.8	N	J 910126143-66 TC 46 O/S
1	9/3/93	2	1		178.4	Y	
1	9/3/93	3	1		176.8	N	
1	9/3/93	5	1		162	N	
1	9/12/93	1	1		177.5	N	J TI-042 TC 46 O/S
1	9/12/93	2	1		179.8	Y	
1	9/12/93	3	1		176.2	N	
1	9/12/93	5	1		161.2	N	
1	9/20/93	1	1		170.3	N	J 910126143-50 TC 46 O/S
1	9/20/93	2	1		172.2	Y	
1	9/20/93	3	1		169.9	N	
1	9/20/93	5	1		155.5	N	
1	9/27/93	1	1		172.2	N	J 890423320-42 TC 46 O/S
1	9/27/93	1	2		171.8	N	HDAT TC 46 O/S
1	9/27/93	2	1		174	Y	
1	9/27/93	2	2		173.3	Y	
1	9/27/93	3	1		171	N	
1	9/27/93	3	2		170.2	N	
1	9/27/93	5	1		156.5	N	
1	9/27/93	5	2		155.8	N	
1	10/5/93	1	1		174.2	N	J 910126143-48 TC 46 O/S
1	10/5/93	2	1		176	Y	
1	10/5/93	3	1		172.8	N	
1	10/5/93	5	1		158.1	N	
1	10/11/93	1	1		172.9	N	J TYPE

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/11/93	2	1		175.1	Y	
1	10/11/93	3	1		172.6	N	
1	10/11/93	5	1		157.8	N	
1	10/11/93	5	2		158	N	
1	10/18/93	1	1		169	N	J 910126143-14 TC 46 O/S
1	10/18/93	2	1		171.7	Y	
1	10/18/93	3	1		170	N	
1	10/18/93	5	1		155.1	N	
1	10/27/93	1	1		174.1	N	J 91012614348 TC 46O/S
1	10/27/93	2	1		175.9	Y	
1	10/27/93	3	1		172.8	N	
1	10/27/93	5	1		158.2	N	
1	11/1/93	1	1		173.4	N	J 910126143-29 TC 46 O/S
1	11/1/93	2	1		175.3	Y	
1	11/1/93	3	1		172	N	
1	11/1/93	5	1		157.4	N	
1	11/8/93	1	1		174.7	N	J 910126143-29 TC 46 O/S
1	11/8/93	2	1		176.4	Y	
1	11/8/93	3	1		173.3	N	
1	11/8/93	5	1		158.7	N	
1	11/17/93	1	1		174.3	N	J TI-041
1	11/17/93	2	1		176.1	Y	
1	11/17/93	3	1		173.3	N	
1	11/17/93	5	1		158.6	N	
1	11/23/93	1	1		174.7	N	J 910126143-29 TC 46 O/S
1	11/23/93	2	1		176.5	Y	
1	11/23/93	3	1		173.4	N	
1	11/23/93	5	1		158.8	N	
1	11/29/93	1	1		174.5	N	J-91026143-29 TC 46 NG
1	11/29/93	1	2		174.9	N	J-910126143-29 TC 46 O/S
1	11/29/93	2	1		176.4	Y	
1	11/29/93	2	2		176.6	Y	
1	11/29/93	3	1		173.2	N	
1	11/29/93	3	2		173.7	N	
1	11/29/93	5	1		158.8	N	
1	11/29/93	5	2		159.2	N	
1	12/7/93	1	1		174.5	N	J 910126143-29
1	12/7/93	2	1		176.1	Y	
1	12/7/93	3	1		172.8	N	
1	12/7/93	5	1		158.8	N	
1	12/14/93	1	1		174.5	N	J 910126143-29 TC 46 O/S
1	12/14/93	2	1		176.2	Y	
1	12/14/93	3	1		173.2	N	
1	12/14/93	5	1		158.9	N	
1	12/20/93	1	1		174.8	N	J 910126143-29 TC 46 O/S
1	12/20/93	1	2		174.5	N	J 910126143-29 TC 46 O/S
1	12/20/93	2	1		176.5	Y	
1	12/20/93	2	2		176.4	Y	
1	12/20/93	3	1		173.7	N	
1	12/20/93	3	2		173.4	N	
1	12/20/93	5	1		159.1	N	
1	12/20/93	5	2		159	N	
1	12/21/93	1	1		174.4	N	J 910126143-29 TC 46 O/S
1	12/21/93	1	2		174.7	N	J 91026143-29 TC 46 O/S
1	12/21/93	2	1		176	Y	
1	12/21/93	2	2		176.3	Y	
1	12/21/93	3	1		173.4	N	
1	12/21/93	3	2		173.4	N	
1	12/21/93	5	1		158.8	N	
1	12/21/93	5	2		158.8	N	
1	12/22/93	1	1		174.5	N	J 910126143-29 TC 46 O/S
1	12/22/93	2	1		176.2	Y	
1	12/22/93	3	1		173.2	N	
1	12/22/93	5	1		158.9	N	
1	12/23/93	1	1		174.4	N	J 91012643-29 TC 46 O/S
1	12/23/93	2	1		175.9	Y	
1	12/23/93	3	1		172.9	N	
1	12/23/93	5	1		158.5	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-103							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/24/93	1	1		175	N	J 910126143-29 TC 4 O/S
1	12/24/93	2	1		176.6	Y	
1	12/24/93	3	1		173.4	N	
1	12/24/93	5	1		159.1	N	
1	12/25/93	1	1		175	N	J 910126143-29 TC 46 O/S
1	12/25/93	2	1		176.7	Y	
1	12/25/93	3	1		173.8	N	
1	12/25/93	5	1		159.3	N	
1	12/26/93	1	1		174.3	N	J 910126143-29 TC 46 O/S
1	12/26/93	2	1		176	Y	
1	12/26/93	3	1		172.9	N	
1	12/26/93	5	1		158.6	N	
1	12/27/93	1	1		174.7	N	J910126143-29 TC 46 O/S
1	12/27/93	2	1		176.5	Y	
1	12/27/93	3	1		173.7	N	
1	12/27/93	5	1		159.2	N	
1	12/28/93	1	1		174.2	N	J 910126143-29 TC 46 O/S
1	12/28/93	2	1		176	Y	
1	12/28/93	3	1		172.9	N	
1	12/28/93	5	1		158.6	N	
1	12/29/93	1	1		174.3	N	J 910126143-29 TC 46 O/S
1	12/29/93	1	2		174.4	N	J 910126143-29 TC 46 O/S
1	12/29/93	1	3		174.7	N	TYPE J TC 46 O/S
1	12/29/93	1	4		174.9	N	J 91012614332 TC 46 O/S
1	12/29/93	2	1		175.6	Y	
1	12/29/93	2	2		175.8	Y	
1	12/29/93	2	3		176.4	Y	
1	12/29/93	2	4		176.7	Y	
1	12/29/93	3	1		172.9	N	
1	12/29/93	3	2		172.9	N	
1	12/29/93	3	3		173.4	N	
1	12/29/93	3	4		173.8	N	
1	12/29/93	5	1		158.4	N	
1	12/29/93	5	2		158.5	N	
1	12/29/93	5	3		159.1	N	
1	12/29/93	5	4		159.4	N	
1	12/30/93	1	1		175	N	J 910126143-32 TC 46 O/S
1	12/30/93	1	2		175.8	N	J910126143-32 TC 46 O/S
1	12/30/93	2	1		176.8	Y	
1	12/30/93	2	2		177.6	Y	
1	12/30/93	3	1		173.8	N	
1	12/30/93	3	2		174.5	N	
1	12/30/93	5	1		159.3	N	
1	12/30/93	5	2		160	N	
1	12/31/93	1	1		174.5	N	J 910126143-32 TC 46 O/S
1	12/31/93	2	1		176.5	Y	
1	12/31/93	3	1		173.5	N	
1	12/31/93	5	1		159.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/20/74	1		67.22	153		raw data - assumed degree C
1	10/20/74	2		62.78	145		raw data - assumed degree C
1	10/20/74	3		56.67	134		raw data - assumed degree C
1	10/20/74	4		51.11	124		raw data - assumed degree C
1	10/20/74	5		50.56	123		raw data - assumed degree C
1	10/20/74	6		50.56	123		raw data - assumed degree C
1	10/20/74	7		50.56	123		raw data - assumed degree C
1	10/20/74	8		50.56	123		raw data - assumed degree C
1	10/20/74	9		50.56	123		raw data - assumed degree C
1	10/20/74	10		50.56	123		raw data - assumed degree C
1	10/20/74	11		47.78	118		raw data - assumed degree C
1	10/20/74	12		46.67	116		raw data - assumed degree C
1	12/2/74	1		67.22	153		raw data - assumed degree C
1	12/2/74	2		63.33	146		raw data - assumed degree C
1	12/2/74	3		56.67	134		raw data - assumed degree C
1	12/2/74	4		51.11	124		raw data - assumed degree C
1	12/2/74	5		51.11	124		raw data - assumed degree C
1	12/2/74	6		51.11	124		raw data - assumed degree C
1	12/2/74	7		51.11	124		raw data - assumed degree C
1	12/2/74	8		51.11	124		raw data - assumed degree C
1	12/2/74	9		51.11	124		raw data - assumed degree C
1	12/2/74	10		51.11	124		raw data - assumed degree C
1	12/2/74	11		41.78	107		raw data - assumed degree C
1	12/2/74	12		47.22	117		raw data - assumed degree C
1	11/3/75	1			170		
1	11/3/75	2			168		
1	11/3/75	3			163		
1	11/3/75	4			158		
1	11/3/75	5			154		
1	11/3/75	6			152		
1	11/3/75	7			148		
1	11/3/75	8			145		
1	11/3/75	9			140		
1	11/3/75	10			129		
1	11/3/75	11			124		
1	11/3/75	12			124		
1	1/20/76	1			179		
1	1/20/76	2			177		
1	1/20/76	3			171		
1	1/20/76	4			166		
1	1/20/76	5			160		
1	1/20/76	6			153		
1	1/20/76	7			147		
1	1/20/76	8			142		
1	1/20/76	9			136		
1	1/20/76	10			135		
1	1/20/76	11			125		
1	1/20/76	12			119		
1	1/20/76	13			119		
1	1/20/76	14			115		
1	3/5/76	1			183		
1	3/5/76	2			182		
1	3/5/76	3			176		
1	3/5/76	4			170		
1	3/5/76	5			163		
1	3/5/76	6			156		
1	3/5/76	7			149		
1	3/5/76	8			143		
1	3/5/76	9			137		
1	3/5/76	10			130		
1	3/5/76	11			121		
1	3/5/76	12			118		
1	4/3/76	1			186		
1	4/3/76	2			184		
1	4/3/76	3			180		
1	4/3/76	4			172		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/3/76	5			165		
1	4/3/76	6			156		
1	4/3/76	7			150		
1	4/3/76	8			144		
1	4/3/76	9			138		
1	4/3/76	10			131		
1	4/3/76	11			119		
1	4/3/76	12			110		
1	5/2/76	1			189		
1	5/2/76	2			184		
1	5/2/76	3			176		
1	5/2/76	4			163		
1	5/2/76	5			156		
1	5/2/76	6			151		
1	5/2/76	7			146		
1	5/2/76	8			142		
1	5/2/76	9			136		
1	5/2/76	10			134		
1	5/2/76	11			130		
1	5/2/76	12			126		
1	6/1/76	1			188		
1	6/1/76	2			184		
1	6/1/76	3			178		
1	6/1/76	4			168		
1	6/1/76	5			160		
1	6/1/76	6			154		
1	6/1/76	7			148		
1	6/1/76	8			140		
1	6/1/76	9			130		
1	6/1/76	10			128		
1	6/1/76	11			124		
1	6/1/76	12			118		
1	6/1/76	13			118		
1	6/1/76	14			118		
1	7/1/76	1			184		
1	7/1/76	2			180		
1	7/1/76	3			174		
1	7/1/76	4			165		
1	7/1/76	5			158		
1	7/1/76	6			150		
1	7/1/76	7			142		
1	7/1/76	8			132		
1	7/1/76	9			122		
1	7/1/76	10			122		
1	7/1/76	11			117		
1	7/1/76	12			112		
1	7/1/76	13			112		
1	7/1/76	14			112		
1	8/3/76	1			192		
1	8/3/76	2			189		
1	8/3/76	3			182		
1	8/3/76	4			174		
1	8/3/76	5			166		
1	8/3/76	6			157		
1	8/3/76	7			146		
1	8/3/76	8			135		
1	8/3/76	9			125		
1	8/3/76	10			125		
1	8/3/76	11			121		
1	8/3/76	12			118		
1	8/3/76	13			118		
1	8/3/76	14			118		
1	9/2/76	1			195		
1	9/2/76	2			192		
1	9/2/76	3			185		
1	9/2/76	4			176		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/2/76	5			168		
1	9/2/76	6			159		
1	9/2/76	7			149		
1	9/2/76	8			140		
1	9/2/76	9			133		
1	9/2/76	10			133		
1	9/2/76	11			130		
1	9/2/76	12			125		
1	10/3/76	1			198		
1	10/3/76	2			195		
1	10/3/76	3			189		
1	10/3/76	4			180		
1	10/3/76	5			172		
1	10/3/76	6			163		
1	10/3/76	7			154		
1	10/3/76	8			145		
1	10/3/76	9			139		
1	10/3/76	10			139		
1	10/3/76	11			134		
1	10/3/76	12			134		
1	11/1/76	1			200		
1	11/1/76	2			200		
1	11/1/76	3			192		
1	11/1/76	4			184		
1	11/1/76	5			177		
1	11/1/76	6			166		
1	11/1/76	7			158		
1	11/1/76	8			152		
1	11/1/76	9			146		
1	11/1/76	10			140		
1	11/1/76	11			135		
1	11/1/76	12			127		
1	11/1/76	13			124		
1	11/1/76	14			124		
1	12/4/76	1			200		
1	12/4/76	2			200		
1	12/4/76	3			193		
1	12/4/76	4			184		
1	12/4/76	5			175		
1	12/4/76	6			167		
1	12/4/76	7			158		
1	12/4/76	8			150		
1	12/4/76	9			146		
1	12/4/76	10			146		
1	12/4/76	11			148		
1	12/4/76	12			150		
1	1/1/77	1			200		
1	1/1/77	2			200		
1	1/1/77	3			195		
1	1/1/77	4			187		
1	1/1/77	5			178		
1	1/1/77	6			169		
1	1/1/77	7			162		
1	1/1/77	8			157		
1	1/1/77	9			154		
1	1/1/77	10			151		
1	1/1/77	11			147		
1	1/1/77	12			133		
1	1/17/77	1			204		
1	1/17/77	2			204		
1	1/17/77	3			195		
1	1/17/77	4			187		
1	1/17/77	5			178		
1	1/17/77	6			170		
1	1/17/77	7			163		
1	1/17/77	8			158		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/17/77	9			155		
1	1/17/77	10			152		
1	1/17/77	11			145		
1	1/17/77	12			142		
1	2/1/77	1			200		
1	2/1/77	2			200		
1	2/1/77	3			198		
1	2/1/77	4			188		
1	2/1/77	5			180		
1	2/1/77	6			172		
1	2/1/77	7			164		
1	2/1/77	8			160		
1	2/1/77	9			158		
1	2/1/77	10			152		
1	2/1/77	11			144		
1	2/1/77	12			128		
1	2/1/77	13			115		
1	2/1/77	14			114		
1	2/26/77	1			202		
1	2/26/77	2			198		
1	2/26/77	3			193		
1	2/26/77	4			185		
1	2/26/77	5			176		
1	2/26/77	6			169		
1	2/26/77	7			162		
1	2/26/77	8			156		
1	2/26/77	9			150		
1	2/26/77	10			146		
1	2/26/77	11			135		
1	2/26/77	12			120		
1	2/26/77	13			108		
1	2/26/77	14			106		
1	2/26/77	15			106		
1	2/26/77	16			106		
1	3/16/77	1			202		
1	3/16/77	2			200		
1	3/16/77	3			194		
1	3/16/77	4			185		
1	3/16/77	5			178		
1	3/16/77	6			170		
1	3/16/77	7			163		
1	3/16/77	8			157		
1	3/16/77	9			151		
1	3/16/77	10			144		
1	3/16/77	11			135		
1	3/16/77	12			120		
1	3/16/77	13			107		
1	3/16/77	14			106		
1	3/26/77	1			202		
1	3/26/77	2			198		
1	3/26/77	3			193		
1	3/26/77	4			185		
1	3/26/77	5			176		
1	3/26/77	6			169		
1	3/26/77	7			162		
1	3/26/77	8			150		
1	3/26/77	9			150		
1	3/26/77	10			146		
1	3/26/77	11			135		
1	3/26/77	12			120		
1	3/26/77	13			108		
1	3/26/77	14			106		
1	4/3/77	1			204		
1	4/3/77	2			200		
1	4/3/77	3			194		
1	4/3/77	4			187		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/3/77	5			180		
1	4/3/77	6			170		
1	4/3/77	7			163		
1	4/3/77	8			156		
1	4/3/77	9			148		
1	4/3/77	10			140		
1	4/3/77	11			133		
1	4/3/77	12			118		
1	4/3/77	13			108		
1	4/3/77	14			107		
1	4/9/77	1			205		
1	4/9/77	2			200		
1	4/9/77	3			195		
1	4/9/77	4			187		
1	4/9/77	5			180		
1	4/9/77	6			172		
1	4/9/77	7			163		
1	4/9/77	8			155		
1	4/9/77	9			145		
1	4/9/77	10			138		
1	4/9/77	11			130		
1	4/9/77	12			115		
1	5/1/77	1			206		
1	5/1/77	2			205		
1	5/1/77	3			196		
1	5/1/77	4			187		
1	5/1/77	5			173		
1	5/1/77	6			164		
1	5/1/77	7			160		
1	5/1/77	8			150		
1	5/1/77	9			141		
1	5/1/77	10			130		
1	5/1/77	11			125		
1	5/1/77	12			110		
1	6/7/77	1			209		
1	6/7/77	2			206		
1	6/7/77	3			200		
1	6/7/77	4			191		
1	6/7/77	5			185		
1	6/7/77	6			175		
1	6/7/77	7			165		
1	6/7/77	8			156		
1	6/7/77	9			149		
1	6/7/77	10			142		
1	6/7/77	11			146		
1	6/7/77	12			140		
1	6/13/77	1			209		
1	6/13/77	2			206		
1	6/13/77	3			200		
1	6/13/77	4			191		
1	6/13/77	5			185		
1	6/13/77	6			175		
1	6/13/77	7			165		
1	6/13/77	8			156		
1	6/13/77	9			149		
1	6/13/77	10			142		
1	6/13/77	11			146		
1	6/13/77	12			140		
1	7/11/77	1			208		
1	7/11/77	2			205		
1	7/11/77	3			198		
1	7/11/77	4			192		
1	7/11/77	5			185		
1	7/11/77	6			175		
1	7/11/77	7			165		
1	7/11/77	8			155		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	7/11/77	9			145		
1	7/11/77	10			144		
1	7/11/77	11			144		
1	7/11/77	12			143		
1	8/5/77	1			208		
1	8/5/77	2			206		
1	8/5/77	3			200		
1	8/5/77	4			192		
1	8/5/77	5			185		
1	8/5/77	6			175		
1	8/5/77	7			165		
1	8/5/77	8			160		
1	8/5/77	9			145		
1	8/5/77	10			143		
1	8/5/77	11			143		
1	8/5/77	12			143		
1	9/5/77	1			210		
1	9/5/77	2			206		
1	9/5/77	3			200		
1	9/5/77	4			193		
1	9/5/77	5			185		
1	9/5/77	6			175		
1	9/5/77	7			165		
1	9/5/77	8			157		
1	9/5/77	9			150		
1	9/5/77	10			148		
1	9/5/77	11			146		
1	9/5/77	12			143		
1	9/5/77	13			140		
1	9/5/77	14			140		
1	10/3/77	1			210		
1	10/3/77	2			208		
1	10/3/77	3			202		
1	10/3/77	4			194		
1	10/3/77	5			186		
1	10/3/77	6			177		
1	10/3/77	7			168		
1	10/3/77	8			162		
1	10/3/77	9			156		
1	10/3/77	10			152		
1	10/3/77	11			148		
1	10/3/77	12			146		
1	10/3/77	13			142		
1	10/3/77	14			135		
1	10/3/77	15			110		
1	10/3/77	16			110		
1	11/3/77	1			210		
1	11/3/77	2			208		
1	11/3/77	3			202		
1	11/3/77	4			195		
1	11/3/77	5			187		
1	11/3/77	6			177		
1	11/3/77	7			170		
1	11/3/77	8			163		
1	11/3/77	9			155		
1	11/3/77	10			148		
1	11/3/77	11			148		
1	11/3/77	12			148		
1	11/3/77	13			145		
1	11/3/77	14			132		
1	11/3/77	15			114		
1	11/3/77	16			102		
1	12/4/77	1			216		
1	12/4/77	2			216		
1	12/4/77	3			185		
1	12/4/77	4			195		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/4/77	5			190		
1	12/4/77	6			180		
1	12/4/77	7			170		
1	12/4/77	8			165		
1	12/4/77	9			157		
1	12/4/77	10			150		
1	12/4/77	11			150		
1	12/15/77	1			212		
1	12/15/77	2			208		
1	12/15/77	3			203		
1	12/15/77	4			196		
1	12/15/77	5			188		
1	12/15/77	6			186		
1	12/15/77	7			172		
1	12/15/77	8			169		
1	12/15/77	9			157		
1	12/15/77	10			148		
1	12/15/77	11			148		
1	12/15/77	12			148		
1	1/12/78	1			215		
1	1/12/78	2			210		
1	1/12/78	3			200		
1	1/12/78	4			197		
1	1/12/78	5			190		
1	1/12/78	6			180		
1	1/12/78	7			171		
1	1/12/78	8			170		
1	1/12/78	9			163		
1	1/12/78	10			150		
1	1/12/78	11			150		
1	1/25/78	1			212		
1	1/25/78	2			210		
1	1/25/78	3			203		
1	1/25/78	4			197		
1	1/25/78	5			190		
1	1/25/78	6			180		
1	1/25/78	7			173		
1	1/25/78	8					115 - suspect data (unreadable entry)
1	1/25/78	9			160		
1	1/25/78	10			150		
1	1/25/78	11			149		
1	2/2/78	1			213		
1	2/2/78	2			210		
1	2/2/78	3			204		
1	2/2/78	4			197		
1	2/2/78	5			190		
1	2/2/78	6			182		
1	2/2/78	7			173		
1	2/2/78	8			165		
1	2/2/78	9			158		
1	2/2/78	10			150		
1	2/2/78	11			149		
1	2/2/78	12			149		
1	2/2/78	13			149		
1	2/2/78	14			132		
1	3/9/78	1			215		
1	3/9/78	2			212		
1	3/9/78	3			205		
1	3/9/78	4			200		
1	3/9/78	5			192		
1	3/9/78	6			183		
1	3/9/78	7			175		
1	3/9/78	8			166		
1	3/9/78	9			160		
1	3/9/78	10			152		
1	3/9/78	11			150		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	5/3/80	1			220		
1	5/3/80	2			218		
1	5/3/80	3			212		
1	5/3/80	4			204		
1	5/3/80	5			195		
1	5/3/80	6			185		
1	5/3/80	7			175		
1	5/3/80	8			167		
1	5/3/80	9			160		
1	5/3/80	10			152		
1	5/3/80	11			142		
1	5/3/80	12			127		
1	2/7/81	1			224		
1	2/7/81	2			220		
1	2/7/81	3			212		
1	2/7/81	4			203		
1	2/7/81	5			194		
1	2/7/81	6			182		
1	2/7/81	7			169		
1	2/7/81	8			162		
1	2/7/81	9			150		
1	2/7/81	10			139		
1	2/7/81	11			125		
1	2/7/81	12			121		
1	2/7/81	13			113		
1	2/7/81	14			112		
1	1/13/82	1			213		
1	1/13/82	2			208		
1	1/13/82	3			200		
1	1/13/82	4			185		
1	1/13/82	5			180		
1	1/13/82	6			170		
1	1/13/82	7			158		
1	1/13/82	8			148		
1	1/13/82	9			140		
1	1/13/82	10			130		
1	1/13/82	11			117		
1	1/13/82	12			112		
1	1/13/82	13			105		
1	1/13/82	14			105		
1	1/13/82	15			105		
1	1/13/82	16			105		
1	5/29/82	1			212		
1	5/29/82	2			208		
1	5/29/82	3			200		
1	5/29/82	4			190		
1	5/29/82	5			181		
1	5/29/82	6			169		
1	5/29/82	7			158		
1	5/29/82	8			149		
1	5/29/82	9			140		
1	5/29/82	10			131		
1	5/29/82	11			121		
1	5/29/82	12			111		
1	10/6/82	1			211		
1	10/6/82	2			206		
1	10/6/82	3			198		
1	10/6/82	4			189		
1	10/6/82	5			179		
1	10/6/82	6			169		
1	10/6/82	7			158		
1	10/6/82	8			148		
1	10/6/82	9			140		
1	10/6/82	10			132		
1	10/6/82	11			122		
1	10/6/82	12			116		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/6/82	13			111		
1	10/6/82	14			110		
1	10/6/82	15			110		
1	10/6/82	16			110		
1	1/9/84	1			205		
1	1/9/84	2			200		
1	1/9/84	3			193		
1	1/9/84	4			179		
1	1/9/84	5			170		
1	1/9/84	6			109		
1	2/14/84	1			208		
1	2/14/84	2			203		
1	2/14/84	3			195		
1	2/14/84	4			182		
1	2/14/84	5			174		
1	2/14/84	6			110		
1	3/14/84	1			205		
1	3/14/84	2			206		
1	3/14/84	3			197		
1	3/14/84	4			188		
1	3/14/84	5			179		
1	3/14/84	6			85		
1	4/9/84	1			204		
1	4/9/84	2			198		
1	4/9/84	3			189		
1	4/9/84	4			176		
1	4/9/84	5			176		
1	4/9/84	6			106		
1	6/19/84	1			202		
1	6/19/84	2			196		
1	6/19/84	3			184		
1	6/19/84	4			174		
1	6/19/84	5			165		
1	6/19/84	6			106		
1	7/13/84	1			203		
1	7/13/84	2			196		
1	7/13/84	3			183		
1	7/13/84	4			174		
1	7/13/84	5			165		
1	7/13/84	6			106		
1	9/1/84	1			204		
1	9/1/84	2			198		
1	9/1/84	3			186		
1	9/1/84	4			177		
1	9/1/84	5			169		
1	9/1/84	6			114		
1	10/5/84	1			196		
1	10/5/84	2			191		
1	10/5/84	3			180		
1	10/5/84	4			170		
1	10/5/84	5			160		
1	10/5/84	6			109		
1	1/8/85	1			200		
1	1/8/85	2			189		
1	1/8/85	3			182		
1	1/8/85	4			177		
1	1/8/85	5			170		
1	1/8/85	6			105		
1	2/4/85	1			226		
1	2/4/85	2			216		
1	2/4/85	3			208		
1	2/4/85	4			200		
1	2/4/85	5			194		
1	2/4/85	6			131		
1	4/2/85	1			199		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/2/85	2			192		
1	4/2/85	3			185		
1	4/2/85	4			172		
1	4/2/85	5			164		
1	4/2/85	6			104		
1	5/2/85	1			192		
1	5/2/85	2			185		
1	5/2/85	3			177		
1	5/2/85	4			165		
1	5/2/85	5			153		
1	5/2/85	6			98		
1	7/2/85	1			196		
1	7/2/85	2			187		
1	7/2/85	3			179		
1	7/2/85	4			169		
1	7/2/85	5			159		
1	7/2/85	6			106		
1	8/6/85	1			200		
1	8/6/85	2			192		
1	8/6/85	3			184		
1	8/6/85	4			173		
1	8/6/85	5			166		
1	8/6/85	6			113		
1	8/13/85	1			223		
1	8/13/85	2			214		
1	8/13/85	3			207		
1	8/13/85	4			196		
1	8/13/85	5			187		
1	8/13/85	6			133		
1	9/1/85	1			209		
1	9/1/85	2			201		
1	9/1/85	3			192		
1	9/1/85	4			183		
1	9/1/85	5			176		
1	9/1/85	6			124		
1	12/4/85	1			178		
1	12/4/85	2			165		
1	12/4/85	3			158		
1	12/4/85	4			155		
1	12/4/85	5			149		
1	12/4/85	6			91		
1	12/13/85	1			200		
1	12/13/85	2			189		
1	12/13/85	3			181		
1	12/13/85	4			176		
1	12/13/85	5			170		
1	12/13/85	6			108		
1	3/3/86	2			198		
1	3/3/86	3					108 - suspect data (low)
1	3/3/86	4					115 - suspect data (low)
1	3/3/86	5					110 - suspect data (low)
1	3/3/86	6			118		
1	4/18/86	1			200		
1	4/18/86	2			191		
1	4/18/86	3			184		
1	4/18/86	4			174		
1	4/18/86	5			162		
1	4/18/86	6			105		
1	5/10/86	1			198		
1	5/10/86	2			190		
1	5/10/86	3			182		
1	5/10/86	4			172		
1	5/10/86	5			161		
1	5/10/86	6			104		
1	6/2/86	1			197		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	6/2/86	2			190		
1	6/2/86	3			183		
1	6/2/86	4			174		
1	6/2/86	5			163		
1	6/2/86	6			105		
1	6/6/86	1			201		
1	6/6/86	2			192		
1	6/6/86	3			184		
1	6/6/86	4			174		
1	6/6/86	5			165		
1	6/6/86	6			107		
1	7/7/86	1			197		
1	7/7/86	2			192		
1	7/7/86	3			183		
1	7/7/86	4			173		
1	7/7/86	5			163		
1	7/7/86	6			104		
1	8/4/86	1			197		
1	8/4/86	2			189		
1	8/4/86	3			181		
1	8/4/86	4			169		
1	8/4/86	5			163		
1	8/4/86	6			107		
1	9/5/86	1			201		
1	9/5/86	2			192		
1	9/5/86	3			185		
1	9/5/86	4			174		
1	9/5/86	5			167		
1	9/5/86	6			114		
1	9/8/86	1			194		
1	9/8/86	2			187		
1	9/8/86	3			180		
1	9/8/86	4			170		
1	9/8/86	5			163		
1	9/8/86	6			113		
1	10/7/86	1			195		
1	10/7/86	2			189		
1	10/7/86	3			171		
1	10/7/86	4			170		
1	10/7/86	5			164		
1	10/7/86	6			111		
1	11/1/86	1			198		
1	11/1/86	2			189		
1	11/1/86	3			182		
1	11/1/86	4			171		
1	11/1/86	5			164		
1	11/1/86	6			110		
1	12/2/86	1			198		
1	12/2/86	2			189		
1	12/2/86	3			182		
1	12/2/86	4			170		
1	12/2/86	5			164		
1	12/2/86	6			111		
1	2/2/87	1			196		
1	2/2/87	2			186		
1	2/2/87	3			176		
1	2/2/87	4			173		
1	2/2/87	5			164		
1	2/2/87	6			104		
1	3/2/87	1			196		
1	3/2/87	2			188		
1	3/2/87	3			180		
1	3/2/87	4			170		
1	3/2/87	5			163		
1	3/2/87	6			103		
1	4/6/87	1			195		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/6/87	2			188		
1	4/6/87	3			180		
1	4/6/87	4			172		
1	4/6/87	5			165		
1	4/6/87	6			108		
1	5/3/87	1			196		
1	5/3/87	2			187		
1	5/3/87	3			180		
1	5/3/87	4			170		
1	5/3/87	5			163		
1	5/3/87	6			105		
1	6/1/87	1					69 - suspect data (low)
1	6/1/87	2					54.1 - suspect data (low)
1	6/5/87	1			195		
1	6/5/87	2			187		
1	6/5/87	3			178		
1	6/5/87	4			170		
1	6/5/87	5			162		
1	6/5/87	6			105		
1	6/12/87	1			195		
1	6/12/87	2			187		
1	6/12/87	3			179		
1	6/12/87	4			169		
1	6/12/87	5			160		
1	6/12/87	6			105		
1	7/6/87	1			196		
1	7/6/87	2			187		
1	7/6/87	3			178		
1	7/6/87	4			169		
1	7/6/87	5			161		
1	7/6/87	6			107		
1	8/4/87	1			194		
1	8/4/87	2			185.6		
1	8/4/87	3			178		
1	8/4/87	4			168		
1	8/4/87	5			162		
1	8/4/87	6			108		
1	9/6/87	1			178		
1	9/6/87	2			171		
1	9/6/87	3			165		
1	9/6/87	4			151		
1	9/6/87	5			150		
1	9/6/87	6			106		
1	10/5/87	1			192		
1	10/5/87	2			183		
1	10/5/87	3			174		
1	10/5/87	4			171		
1	10/5/87	5			164		
1	10/5/87	6			110		
1	11/4/87	1			195		
1	11/4/87	2			187		
1	11/4/87	3			175		
1	11/4/87	4			171		
1	11/4/87	5			164		
1	11/4/87	6			107		
1	12/8/87	1			196		
1	12/8/87	2			187		
1	12/8/87	3			179		
1	12/8/87	4			171		
1	12/8/87	5			170		
1	12/8/87	6			106		
1	12/20/87	1			195		
1	12/20/87	2			186		
1	12/20/87	3			179		
1	12/20/87	4			170		
1	12/20/87	5			164		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/20/87	6			104		
1	1/4/88	1	1		194	Y	
1	1/4/88	2	1		186	N	
1	1/4/88	3	1		179	N	
1	1/4/88	4	1		173	N	
1	1/4/88	5	1		166	N	
1	1/4/88	6	1		104	N	
1	2/1/88	1	1		192	Y	
1	2/1/88	2	1		183	N	
1	2/1/88	3	1		177	N	
1	2/1/88	4	1		170	N	
1	2/1/88	5	1		164	N	
1	2/1/88	6	1		102	N	
1	3/8/88	1			198		
1	3/8/88	1	1		192	Y	
1	3/8/88	2			189		
1	3/8/88	3			181		
1	3/8/88	4			174		
1	3/8/88	5			167		
1	3/8/88	6			103		
1	4/4/88	1	1		179	Y	
1	4/4/88	2	1		172	N	
1	4/4/88	3	1		165	N	
1	4/4/88	4	1		158	N	
1	4/4/88	5	1		157	N	
1	4/4/88	6	1		95	N	
1	5/2/88	1	1		198	Y	
1	5/2/88	2	1		189	N	
1	5/2/88	3	1		181	N	
1	5/2/88	4	1		174	N	
1	5/2/88	5	1		167	N	
1	5/2/88	6	1		107	N	
1	5/4/88	1	1		192	Y	
1	5/4/88	2	1		184	N	
1	5/4/88	3	1		175	N	
1	5/4/88	4	1		169	N	
1	5/4/88	5	1		162	N	
1	5/4/88	6	1		103	N	
1	5/16/88	1	1		192	Y	
1	5/16/88	2	1		184	N	
1	5/16/88	3	1		175	N	
1	5/16/88	4	1		169	N	
1	5/16/88	5	1		162	N	
1	5/16/88	6	1		103	N	
1	5/19/88	1	1		224	Y	
1	5/19/88	2	1		214	N	
1	5/19/88	3	1		204	N	
1	5/19/88	4	1		193	N	
1	5/19/88	5	1		183	N	
1	5/19/88	6	1		103	N	
1	6/6/88	1	1		190	Y	
1	6/6/88	2	1		185	N	
1	6/6/88	3			195		
1	6/6/88	3	1		175	N	
1	6/6/88	4	1		168	N	
1	6/6/88	5	1		160	N	
1	6/6/88	6	1		101	N	
1	6/29/88	1	1		181	Y	
1	6/29/88	2	1		173	N	
1	6/29/88	3	1		167	N	
1	6/29/88	4	1		157	N	
1	6/29/88	5	1		151	N	
1	6/29/88	6	1		94	N	
1	6/30/88	1	1		194	Y	
1	6/30/88	2	1		185	N	
1	6/30/88	3	1		180	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	6/30/88	4	1		170	N	
1	6/30/88	5	1		174	N	
1	6/30/88	6	1		123	N	
1	7/4/88	1					
1	7/4/88	1	1			Y	174 - suspect data
1	7/4/88	2	1			N	174 - suspect data
1	7/4/88	3	1			N	174 - suspect data
1	7/4/88	4	1			N	174 - suspect data
1	7/4/88	5	1			N	174 - suspect data
1	7/4/88	6	1			N	174 - suspect data
1	7/5/88	1	1		184	Y	
1	7/5/88	2	1		177	N	
1	7/5/88	3	1		171	N	
1	7/5/88	4	1		163	N	
1	7/5/88	5	1		156	N	
1	7/5/88	6	1		98	N	
1	7/13/88	1	1		209	Y	TAKEN DURING TRANSFER TO 244-S
1	7/13/88	2	1		195	N	
1	7/13/88	3	1		178	N	
1	7/13/88	4	1		173	N	
1	7/13/88	5	1		163	N	
1	7/13/88	6	1		96	N	
1	7/14/88	1	1		217	Y	
1	7/14/88	2	1		207	N	
1	7/14/88	3	1		198	N	
1	7/14/88	4	1		191	N	
1	7/14/88	5	1		182	N	
1	7/14/88	6	1		110	N	
1	8/1/88	1	1		200	Y	
1	8/1/88	1	2		191	Y	
1	8/1/88	2	1		187	N	
1	8/1/88	2	2		183	N	
1	8/1/88	3	1		180	N	
1	8/1/88	3	2		175	N	
1	8/1/88	4	1		172	N	
1	8/1/88	4	2		168	N	
1	8/1/88	5	1		165	N	
1	8/1/88	5	2		161	N	
1	8/1/88	6	1		108	N	
1	8/1/88	6	2		98	N	
1	8/10/88	1	1		187	Y	
1	8/10/88	2	1		182	N	
1	8/10/88	3	1		176	N	
1	8/10/88	4	1		166	N	
1	8/10/88	5	1		159	N	
1	8/10/88	6	1		101	N	
1	8/11/88	1	1		184	Y	
1	8/11/88	2	1		178	N	
1	8/11/88	3	1		171	N	
1	8/11/88	4	1		162	N	
1	8/11/88	5	1		155	N	
1	8/11/88	6	1		98	N	
1	9/5/88	1	1		189	Y	
1	9/5/88	2	1		182	N	
1	9/5/88	3	1		174	N	
1	9/5/88	4	1		170	N	
1	9/5/88	5	1		162	N	
1	9/5/88	6	1		99	N	
1	10/3/88	1	1		188	Y	
1	10/3/88	2	1		181	N	
1	10/3/88	3	1		175	N	
1	10/3/88	4	1		170	N	
1	10/3/88	5	1		162	N	
1	10/3/88	6	1		98	N	
1	11/7/88	1	1		179	Y	
1	11/7/88	1	2		187	Y	TIME 1300

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	11/7/88	2	1		174	N	
1	11/7/88	2	2		182	N	
1	11/7/88	3	1		169	N	
1	11/7/88	3	2		176	N	
1	11/7/88	4	1		162	N	
1	11/7/88	5	1		154	N	
1	11/7/88	5	2		161	N	
1	11/7/88	6	1		92	N	
1	11/7/88	6	2		73	N	
1	11/9/88	1	1		189	Y	TIME 1620
1	11/9/88	2	1		186	N	
1	11/9/88	3	1		178	N	
1	11/9/88	4	1		172	N	
1	11/9/88	5	1		164	N	
1	11/9/88	6	1		97	N	
1	11/15/88	1	1		187	Y	TIME 0915
1	11/15/88	1	2		188	Y	TIME 1015
1	11/15/88	1	3		188	Y	TIME 1215
1	11/15/88	2	1		181	N	
1	11/15/88	2	2		182	N	
1	11/15/88	2	3		181	N	
1	11/15/88	3	1		174	N	
1	11/15/88	3	2		174	N	
1	11/15/88	3	3		174	N	
1	11/15/88	4	1		169	N	
1	11/15/88	4	2		169	N	
1	11/15/88	4	3		169	N	
1	11/15/88	5	1		161	N	
1	11/15/88	5	2		161	N	
1	11/15/88	5	3		161	N	
1	11/15/88	6	1		92	N	
1	11/15/88	6	2		91	N	
1	11/15/88	6	3		91	N	
1	12/5/88	1			188		
1	12/5/88	1	1		189	Y	
1	12/5/88	2	1		183	N	
1	12/5/88	3	1		176	N	
1	12/5/88	4	1		170	N	
1	12/5/88	5	1		162	N	
1	12/5/88	6	1		86	N	
1	1/2/89	1	1		188	Y	
1	1/2/89	2	1		175	N	
1	1/2/89	3	1		175	N	
1	1/2/89	4	1		169	N	
1	1/2/89	5	1		160	N	
1	1/2/89	6	1		81	N	
1	1/2/89	8					39 - suspect data (low)
1	1/6/89	1	1		186	Y	
1	1/6/89	2	1		182	N	
1	1/6/89	3	1		175	N	
1	1/6/89	4	1		170	N	
1	1/6/89	5	1		161	N	
1	1/6/89	6	1		80	N	
1	2/7/89	1	1		188	Y	
1	2/7/89	2	1		181	N	
1	2/7/89	3	1		174	N	
1	2/7/89	4	1		168	N	
1	2/7/89	5	1		160	N	
1	2/7/89	6	1		78	N	
1	3/6/89	2	1		212	N	
1	3/6/89	3	1		205	N	
1	3/6/89	4	1		198	N	
1	3/6/89	5	1		189	N	
1	3/6/89	6	1		98	N	
1	3/7/89	1			222		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/7/89	2	1		206	N	
1	3/7/89	2	2		204	N	
1	3/7/89	2	3		215	N	
1	3/7/89	3	1		199	N	
1	3/7/89	3	2		191	N	
1	3/7/89	3	3		209	N	
1	3/7/89	4	1		193	N	
1	3/7/89	4	2		192	N	
1	3/7/89	4	3		203	N	
1	3/7/89	5	1		183	N	
1	3/7/89	5	2		182	N	
1	3/7/89	5	3		199	N	
1	3/7/89	6	1		90	N	
1	3/7/89	6	2		89	N	
1	3/7/89	6	3		101	N	
1	3/8/89	1	1		188	Y	
1	3/8/89	2	1		182	N	
1	3/8/89	3	1		174	N	
1	3/8/89	4	1		168	N	
1	3/8/89	5	1		160	N	
1	3/8/89	6	1		79	N	
1	6/5/89	1	1		187	Y	
1	6/5/89	2	1		182	N	
1	6/5/89	3	1		175	N	
1	6/5/89	4	1		170	N	
1	6/5/89	5	1		162	N	
1	6/5/89	6	1		91	N	
1	6/7/89	1	1		186	Y	
1	6/7/89	2	1		180	N	
1	6/7/89	3	1		172	N	
1	6/7/89	4	1		166	N	
1	6/7/89	5	1		158	N	
1	6/7/89	6	1		87	N	
1	7/3/89	1	1		186	Y	
1	7/3/89	2	1		182	N	
1	7/3/89	3	1		174	N	
1	7/3/89	4	1		167	N	
1	7/3/89	5	1		163	N	
1	7/3/89	6	1		91	N	
1	1/1/90	1	1		182	Y	J-890523512-20
1	1/1/90	2	1		177	N	
1	1/1/90	3	1		168	N	
1	1/1/90	4	1		163	N	
1	1/1/90	5	1		156	N	
1	1/1/90	6	1		83	N	
1	2/5/90	1	1			N	J-890523512-20 & K-890723679
1	2/9/91	1	1		176	Y	J-890423320-11
1	2/9/91	2	1		170	N	
1	2/9/91	3	1		165	N	
1	2/9/91	4	1		159	N	
1	2/9/91	5	1		150	N	
1	2/9/91	6	1		77	N	
1	2/16/91	1	1		173	Y	J-890423320-11
1	2/16/91	2	1		168	N	
1	2/16/91	3	1		163	N	
1	2/16/91	4	1		156	N	
1	2/16/91	5	1		147	N	
1	2/16/91	6	1		74	N	
1	2/24/91	1	1		177	Y	J 890423320-11
1	2/24/91	2	1		170	N	
1	2/24/91	3	1		164	N	
1	2/24/91	4	1		158	N	
1	2/24/91	5	1		148	N	
1	2/24/91	6	1		77	N	
1	3/3/91	1	1		175	Y	J 890423320-11
1	3/3/91	2	1		169	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/3/91	3	1		163	N	
1	3/3/91	4	1		157	N	
1	3/3/91	5	1		148	N	
1	3/3/91	6	1		76	N	
1	3/9/91	1	1		175	Y	J 890423320-11
1	3/9/91	2	1		169	N	
1	3/9/91	3	1		163	N	
1	3/9/91	4	1		157	N	
1	3/9/91	5	1		148	N	
1	3/9/91	6	1		76	N	
1	3/16/91	1	1		173	Y	J 890423320-11
1	3/16/91	2	1		166	N	
1	3/16/91	3	1		161	N	
1	3/16/91	4	1		157	N	
1	3/16/91	5	1		148	N	
1	3/16/91	6	1		76	N	
1	3/24/91	1	1		174	Y	J 890423320-11
1	3/24/91	2	1		168	N	
1	3/24/91	3	1		152	N	
1	3/24/91	4	1		156	N	
1	3/24/91	5	1		147	N	
1	3/24/91	6	1		75	N	
1	3/30/91	1	1		173	Y	J 890523320-11
1	3/30/91	2	1		167	N	
1	3/30/91	3	1		162	N	
1	3/30/91	4	1		156	N	
1	3/30/91	5	1		147	N	
1	3/30/91	6	1		75	N	
1	4/7/91	1	1		176	Y	J 890423320-11
1	4/7/91	2	1		173	N	
1	4/7/91	3	1		157	N	
1	4/7/91	4	1		160	N	
1	4/7/91	5	1		151	N	
1	4/14/91	1	1		178	Y	J 890423320-11 HH-99-A
1	4/14/91	2	1		172	N	
1	4/14/91	3	1		166	N	
1	4/14/91	4	1		159	N	
1	4/14/91	5	1		150	N	
1	4/14/91	6	1		80	N	
1	4/20/91	1	1		174	Y	J 890423320-11 HH-90A-J
1	4/20/91	2	1		170	N	
1	4/20/91	3	1		164	N	
1	4/20/91	4	1		158	N	
1	4/20/91	5	1		149	N	
1	4/20/91	6	1		79	N	
1	4/27/91	1	1		176	Y	J
1	4/27/91	2	1		171	N	
1	4/27/91	3	1		165	N	
1	4/27/91	4	1		158	N	
1	4/27/91	5	1		150	N	
1	4/27/91	6	1		79	N	
1	5/4/91	1	1		173	Y	J HH-99A-J
1	5/4/91	2	1		168	N	
1	5/4/91	3	1		162	N	
1	5/4/91	4	1		157	N	
1	5/4/91	5	1		148	N	
1	5/4/91	6	1		79	N	
1	5/12/91	1	1		173	Y	J 910126143-75
1	5/12/91	2	1		168	N	
1	5/12/91	3	1		162	N	
1	5/12/91	4	1		155	N	
1	5/12/91	5	1		146	N	
1	5/12/91	6	1		78	N	
1	5/19/91	1	1		174	Y	J Omega 99-A
1	5/19/91	2	1		169	N	
1	5/19/91	3	1		163	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	5/19/91	4	1		157	N	
1	5/19/91	5	1		148	N	
1	5/19/91	6	1		81	N	
1	5/24/91	1	1			N	Connector broken-J-3 written
1	5/26/91	1	1		174	Y	J 890423320-11
1	5/26/91	2	1		169	N	
1	5/26/91	3	1		163	N	
1	5/26/91	4	1		157	N	
1	5/26/91	5	1		148	N	
1	5/26/91	6	1		82	N	
1	6/2/91	1	1		173	Y	J 850423320-11
1	6/2/91	2	1		168	N	
1	6/2/91	3	1		163	N	
1	6/2/91	4	1		156	N	
1	6/2/91	5	1		147	N	
1	6/2/91	6	1		82	N	
1	6/9/91	1	1		173	Y	J 890423320-11
1	6/9/91	2	1		168	N	
1	6/9/91	3	1		163	N	
1	6/9/91	4	1		156	N	
1	6/9/91	5	1		147	N	
1	6/9/91	6	1		82	N	
1	6/16/91	1	1		176	Y	J 890423320-11
1	6/16/91	2	1		170	N	
1	6/16/91	3	1		164	N	
1	6/16/91	4	1		158	N	
1	6/16/91	5	1		149	N	
1	6/16/91	6	1		85	N	
1	6/22/91	1	1		175	Y	J 810126143-39
1	6/22/91	2	1		170	N	
1	6/22/91	3	1		164	N	
1	6/22/91	4	1		152	N	
1	6/22/91	5	1		148	N	
1	6/22/91	6	1		85	N	
1	6/29/91	1	1		172	Y	J 910126143-75
1	6/29/91	2	1		167	N	
1	6/29/91	3	1		162	N	
1	6/29/91	4	1		156	N	
1	6/29/91	5	1		146	N	
1	6/29/91	6	1		83	N	
1	7/7/91	1	1		172	Y	J 910126143-75
1	7/7/91	2	1		168	N	
1	7/7/91	3	1		162	N	
1	7/7/91	4	1		157	N	
1	7/7/91	5	1		148	N	
1	7/7/91	6	1		86	N	
1	7/13/91	1	1		173	Y	J 910126143-75
1	7/13/91	2	1		168	N	
1	7/13/91	3	1		162	N	
1	7/13/91	4	1		156	N	
1	7/13/91	5	1		147	N	
1	7/13/91	6	1		86	N	
1	7/20/91	1	1		172	Y	J 910126143-75
1	7/20/91	2	1		167	N	
1	7/20/91	3	1		162	N	
1	7/20/91	4	1		156	N	
1	7/20/91	5	1		146	N	
1	7/20/91	6	1		86	N	
1	7/27/91	1	1		173	Y	J 910126143-75
1	7/27/91	2	1		168	N	
1	7/27/91	3	1		162	N	
1	7/27/91	4	1		156	N	
1	7/27/91	5	1		147	N	
1	7/27/91	6	1		88	N	
1	8/3/91	1	1		173	Y	J 910125143-75
1	8/3/91	2	1		168	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	8/3/91	3	1		162	N	
1	8/3/91	4	1		156	N	
1	8/3/91	5	1		147	N	
1	8/3/91	6	1		88	N	
1	8/11/91	1	1		173	Y	J 910126143-75
1	8/11/91	2	1		168	N	
1	8/11/91	3	1		162	N	
1	8/11/91	4	1		157	N	
1	8/11/91	5	1		148	N	
1	8/11/91	6	1		90	N	
1	8/18/91	1	1		173	Y	
1	8/18/91	2	1		168	N	
1	8/18/91	3	1		162	N	
1	8/18/91	4	1		155	N	
1	8/18/91	5	1		147	N	
1	8/18/91	6	1		91	N	
1	8/25/91	1	1		172	Y	J HH-99A-J
1	8/25/91	2	1		167	N	
1	8/25/91	3	1		162	N	
1	8/25/91	4	1		157	N	
1	8/25/91	5	1		148	N	
1	8/25/91	6	1		91	N	
1	8/31/91	1	1		171	Y	J-890523512-20
1	8/31/91	2	1		166	N	
1	8/31/91	3	1		161	N	
1	8/31/91	4	1		155	N	
1	8/31/91	5	1		146	N	
1	8/31/91	6	1		89	N	
1	9/7/91	1	1		174	Y	J-890523512-20
1	9/7/91	2	1		168	N	
1	9/7/91	3	1		162	N	
1	9/7/91	4	1		157	N	
1	9/7/91	5	1		148	N	
1	9/7/91	6	1		92	N	
1	9/14/91	1	1		174	Y	J-890523512-20
1	9/14/91	2	1		168	N	
1	9/14/91	3	1		163	N	
1	9/14/91	4	1		157	N	
1	9/14/91	5	1		148	N	
1	9/14/91	6	1		91	N	
1	9/21/91	1	1		174	Y	J-HH-99A-J
1	9/21/91	2	1		168	N	
1	9/21/91	3	1		163	N	
1	9/21/91	4	1		158	N	
1	9/21/91	5	1		148	N	
1	9/21/91	6	1		90	N	
1	9/28/91	1	1		172	Y	J-890523512-20
1	9/28/91	2	1		167	N	
1	9/28/91	3	1		162	N	
1	9/28/91	4	1		158	N	
1	9/28/91	5	1		149	N	
1	9/28/91	6	1		91	N	
1	10/5/91	1	1		174	Y	J-890523518-20
1	10/5/91	2	1		169	N	
1	10/5/91	3	1		163	N	
1	10/5/91	4	1		158	N	
1	10/5/91	5	1		149	N	
1	10/5/91	6	1		90	N	
1	10/11/91	1	1		177	Y	J-890523512-20
1	10/11/91	2	1		172	N	
1	10/11/91	3	1		165	N	
1	10/11/91	4	1		160	N	
1	10/11/91	5	1		151	N	
1	10/11/91	6	1		93	N	
1	10/20/91	1	1		174	Y	J-890523512-20
1	10/20/91	2	1		169	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/20/91	3	1		164	N	
1	10/20/91	4	1		158	N	
1	10/20/91	5	1		149	N	
1	10/20/91	6	1		88	N	
1	10/26/91	1	1		176	Y	J-890523512-20
1	10/26/91	2	1		170	N	
1	10/26/91	3	1		164	N	
1	10/26/91	4	1		158	N	
1	10/26/91	5	1		150	N	
1	10/26/91	6	1		89	N	
1	11/2/91	1	1		175	Y	J-8905235125-80 TC #4 O/S
1	11/2/91	2	1		170	N	
1	11/2/91	3	1		165	N	
1	11/2/91	5	1		149	N	
1	11/2/91	6	1		86	N	
1	11/9/91	1	1		177	Y	J-890523512-20
1	11/9/91	2	1		171	N	
1	11/9/91	3	1		165	N	
1	11/9/91	4	1		159	N	
1	11/9/91	5	1		150	N	
1	11/9/91	6	1		87	N	
1	11/19/91	1	1		172	Y	J-890423320-42 J-3 WRITTEN
1	11/19/91	2	1		166	N	
1	11/19/91	3	1		160	N	
1	11/19/91	4	1		154	N	
1	11/19/91	5	1		146	N	
1	11/19/91	6	1		82	N	
1	11/23/91	1	1		171	Y	J-890423320-42
1	11/23/91	2	1		165	N	
1	11/23/91	3	1		160	N	
1	11/23/91	4	1		153	N	
1	11/23/91	5	1		145	N	
1	11/23/91	6	1		80	N	
1	12/1/91	1	1		172	Y	J-890523512-47
1	12/1/91	2	1		166	N	
1	12/1/91	3	1		160	N	
1	12/1/91	4	1		154	N	
1	12/1/91	5	1		145	N	
1	12/1/91	6	1		79	N	
1	12/6/91	1	1		174	Y	J-910126143-64
1	12/6/91	2	1		168	N	
1	12/6/91	3	1		163	N	
1	12/6/91	4	1		156	N	
1	12/6/91	5	1		147	N	
1	12/6/91	6	1		82	N	
1	12/14/91	1	1		174	Y	J-910126143-64
1	12/14/91	2	1		168	N	
1	12/14/91	3	1		163	N	
1	12/14/91	4	1		157	N	
1	12/14/91	5	1		148	N	
1	12/14/91	6	1		80	N	
1	12/22/91	1	1		177	Y	J-TI-007
1	12/22/91	2	1		170	N	
1	12/22/91	3	1		165	N	
1	12/22/91	4	1		158	N	
1	12/22/91	5	1		149	N	
1	12/22/91	6	1		82	N	
1	12/28/91	1	1		175	Y	
1	12/28/91	2	1		169	N	
1	12/28/91	3	1		164	N	
1	12/28/91	4	1		157	N	
1	12/28/91	5	1		149	N	
1	12/28/91	6	1		81	N	
1	1/6/92	1	1		175	Y	J-TI-030
1	1/6/92	2	1		169	N	
1	1/6/92	3	1		163	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/6/92	4	1		156	N	
1	1/6/92	5	1		148	N	
1	1/6/92	6	1		78	N	
1	1/10/92	1	1		175	Y	J 890523512-20
1	1/10/92	2	1		168	N	
1	1/10/92	3	1		163	N	
1	1/10/92	4	1		156	N	
1	1/10/92	5	1		147	N	
1	1/10/92	6	1		79	N	
1	1/16/92	1	1		171	Y	J TI-042
1	1/16/92	2	1		165	N	
1	1/25/92	1	1		173	Y	J-8905323512-20
1	1/25/92	2	1		168	N	
1	1/25/92	3	1		163	N	
1	1/25/92	4	1		156	N	
1	1/25/92	5	1		147	N	
1	1/25/92	6	1		77	N	
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
1	2/22/92	1	1		171	Y	J-910126143-50
1	2/22/92	2	1		165	N	
1	2/22/92	3	1		161	N	
1	2/22/92	4	1		155	N	
1	2/22/92	5	1		146	N	
1	2/22/92	6	1		75	N	
1	2/23/92	1	1		168	Y	J 890423320 42
1	2/23/92	2	1		162	N	
1	2/23/92	3	1		158	N	
1	2/23/92	4	1		152	N	
1	2/23/92	5	1		143	N	
1	2/23/92	6	1		75	N	
1	3/1/92	1	1		174	Y	J-910126143-5
1	3/1/92	2	1		167	N	
1	3/1/92	3	1		161	N	
1	3/1/92	4	1		155	N	
1	3/1/92	5	1		145	N	
1	3/1/92	6	1		76	N	
1	3/6/92	1	1		171	Y	J 910126143-50
1	3/6/92	2	1		166	N	
1	3/6/92	3	1		161	N	
1	3/6/92	4	1		154	N	
1	3/6/92	5	1		145	N	
1	3/6/92	6	1		75	N	
1	3/14/92	1	1		171	Y	J 890523512-20
1	3/14/92	2	1		165	N	
1	3/14/92	3	1		160	N	
1	3/14/92	4	1		154	N	
1	3/14/92	5	1		146	N	
1	3/14/92	6	1		77	N	
1	3/22/92	1	1		168	Y	J 890423320-42
1	3/22/92	2	1		162	N	
1	3/22/92	3	1		158	N	
1	3/22/92	4	1		152	N	
1	3/22/92	5	1		143	N	
1	3/22/92	6	1		75	N	
1	3/28/92	1	1		168	N	J 890423320-42
1	3/28/92	3	1		158	N	
1	3/28/92	4	1		152	N	
1	3/28/92	5	1		143	N	
1	3/28/92	6	1		76	N	
1	4/1/92	2	1		148	N	Bad Data--Retest Requested
1	4/4/92	1	1		173	Y	J 890423320-42
1	4/4/92	2	1		167	N	
1	4/4/92	3	1		162	N	
1	4/4/92	4	1		155	N	
1	4/4/92	5	1		146	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	4/4/92	6	1		78	N	
1	4/9/92	1	1		174	Y	J 900925741-79
1	4/9/92	2	1		164	N	
1	4/9/92	3	1		162	N	
1	4/9/92	4	1		155	N	
1	4/9/92	5	1		146	N	
1	4/9/92	6	1		79	N	
1	4/18/92	1	1		163	N	J 890423320 42
1	4/18/92	2	1		168	Y	
1	4/18/92	3	1		153	N	
1	4/18/92	4	1		148	N	
1	4/18/92	5	1		138	N	
1	4/18/92	6	1		73	N	
1	4/30/92	1	1		175	N	J 900925641-79
1	4/30/92	2	1		176	Y	
1	4/30/92	3	1		162	N	
1	4/30/92	4	1		155	N	
1	4/30/92	5	1		146	N	
1	4/30/92	6	1		81	N	
1	5/9/92	1	1		170	Y	J TI-045 TC #2 Flucuates between 140.3 to 137.4
1	5/9/92	3	1		158	N	
1	5/9/92	4	1		151	N	
1	5/9/92	5	1		143	N	
1	5/9/92	6	1		80	N	
1	5/15/92	1	1		175	Y	J TI-037
1	5/15/92	3	1		162	N	
1	5/15/92	4	1		153	N	
1	5/15/92	5	1		146	N	
1	5/15/92	6	1		83	N	
1	5/20/92	1	1		174	Y	J 89042330-42
1	5/20/92	2	1		170	N	
1	5/20/92	3	1		161	N	
1	5/20/92	4	1		154	N	
1	5/20/92	5	1		146	N	
1	5/20/92	6	1		83	N	
1	5/30/92	1	1		174	Y	J 900925741-79
1	5/30/92	3	1		160	N	
1	5/30/92	4	1		152	N	
1	5/30/92	5	1		145	N	
1	5/30/92	6	1		84	N	
1	6/8/92	1	1		169	Y	J 890423320-42
1	6/8/92	3	1		156	N	
1	6/8/92	4	1		149	N	
1	6/8/92	5	1		142	N	
1	6/8/92	6	1		82	N	
1	6/13/92	1	1		175	Y	J 900925741-79
1	6/13/92	3	1		159	N	
1	6/13/92	4	1		154	N	
1	6/13/92	5	1		146	N	
1	6/13/92	6	1		86	N	
1	6/19/92	1	1		168	N	J 890423320-42
1	6/19/92	2	1		172	Y	
1	6/19/92	3	1		156	N	
1	6/19/92	4	1		149	N	
1	6/19/92	5	1		142	N	
1	6/19/92	6	1		83	N	
1	6/25/92	1	1		169	Y	J 890423320-42
1	6/25/92	2	1		158	N	
1	6/25/92	3	1		157	N	
1	6/25/92	4	1		148	N	
1	6/25/92	5	1		142	N	
1	6/25/92	6	1		85	N	
1	7/8/92	1	1		169	N	J 890523512-47
1	7/8/92	2	1		172	Y	
1	7/8/92	3	1		156	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP
1	7/8/92	4	1		148	N
1	7/8/92	5	1		141	N
1	7/8/92	6	1		84	N
1	7/16/92	1	1		170	Y
1	7/16/92	2	1		159	N
1	7/16/92	3	1		157	N
1	7/16/92	4	1		148	N
1	7/16/92	5	1		141	N
1	7/23/92	1	1		170	Y
1	7/23/92	3	1		156	N
1	7/23/92	4	1		148	N
1	7/23/92	5	1		141	N
1	7/23/92	6	1		86	N
1	7/30/92	1	1		169	Y
1	7/30/92	3	1		158	N
1	7/30/92	4	1		149	N
1	7/30/92	5	1		141	N
1	7/30/92	6	1		87	N
1	8/6/92	1	1		173	Y
1	8/6/92	3	1		160	N
1	8/6/92	4	1		152	N
1	8/6/92	5	1		145	N
1	8/6/92	6	1		92	N
1	8/13/92	1	1		172	Y
1	8/13/92	3	1		160	N
1	8/13/92	4	1		153	N
1	8/13/92	5	1		146	N
1	8/21/92	1	1		173	Y
1	8/21/92	3	1		160	N
1	8/21/92	4	1		152	N
1	8/21/92	5	1		145	N
1	8/21/92	6	1		93	N
1	8/27/92	1	1		172	Y
1	8/27/92	3	1		159	N
1	8/27/92	4	1		153	N
1	8/27/92	5	1		146	N
1	8/27/92	6	1		92	N
1	9/3/92	1	1		171	Y
1	9/3/92	3	1		160	N
1	9/3/92	4	1		152	N
1	9/3/92	5	1		145	N
1	9/3/92	6	1		91	N
1	9/9/92	1	1		172	Y
1	9/9/92	3	1		160	N
1	9/9/92	4	1		152	N
1	9/9/92	5	1		145	N
1	9/9/92	6	1		89	N
1	9/18/92	1	1		172	Y
1	9/18/92	3	1		160	N
1	9/18/92	4	1		152	N
1	9/18/92	5	1		145	N
1	9/18/92	6	1		90	N
1	9/25/92	1	1		174	Y
1	9/25/92	3	1		161	N
1	9/25/92	4	1		153	N
1	9/25/92	5	1		146	N
1	9/25/92	6	1		91	N
1	10/1/92	1	1		172	Y
1	10/1/92	3	1		160	N
1	10/1/92	4	1		154	N
1	10/1/92	5	1		147	N
1	10/1/92	6	1		92	N
1	10/8/92	1	1		172	Y
1	10/8/92	3	1		159	N
1	10/8/92	4	1		152	N
1	10/8/92	5	1		145	N

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/8/92	6	1		89	N	
1	10/15/92	1	1		172	Y	J 910126143-50
1	10/15/92	3	1		161	N	
1	10/15/92	4	1		154	N	
1	10/15/92	5	1		148	N	
1	10/15/92	6	1		90	N	
1	10/22/92	1	1		172	Y	J 890523512-47
1	10/22/92	3	1		160	N	
1	10/22/92	4	1		153	N	
1	10/22/92	5	1		146	N	
1	10/22/92	6	1		89	N	
1	10/30/92	1	1		171	Y	J 910126143-50
1	10/30/92	3	1		160	N	
1	10/30/92	4	1		155	N	
1	10/30/92	5	1		147	N	
1	10/30/92	6	1		87	N	
1	11/7/92	1	1		173	Y	J 817-13-20-019293
1	11/7/92	3	1		161	N	
1	11/7/92	4	1		154	N	
1	11/7/92	5	1		146	N	
1	11/7/92	6	1		86	N	
1	11/13/92	1	1		173	Y	J 910126143-50
1	11/13/92	3	1		160	N	
1	11/13/92	4	1		154	N	
1	11/13/92	5	1		146	N	
1	11/13/92	6	1		86	N	
1	11/19/92	1	1		174	Y	J 817-13-20-019
1	11/19/92	3	1		162	N	
1	11/19/92	4	1		154	N	
1	11/19/92	5	1		146	N	
1	11/19/92	6	1		85	N	
1	11/25/92	1	1		174	Y	J 910126143-50
1	11/25/92	3	1		162	N	
1	11/25/92	4	1		155	N	
1	11/25/92	5	1		148	N	
1	11/25/92	6	1		85	N	
1	12/3/92	1	1		172	Y	J 910126143-32
1	12/3/92	3	1		162	N	
1	12/3/92	4	1		156	N	
1	12/3/92	5	1		148	N	
1	12/3/92	6	1		84	N	
1	12/11/92	1	1		173	Y	J 910126143-32
1	12/11/92	3	1		161	N	
1	12/11/92	4	1		155	N	
1	12/11/92	5	1		146	N	
1	12/11/92	6	1		82	N	
1	12/20/92	1	1		172	Y	J 91012614332
1	12/20/92	3	1		161	N	
1	12/20/92	4	1		154	N	
1	12/20/92	5	1		146	N	
1	12/20/92	6	1		80	N	
1	12/27/92	1	1		176	Y	J 910126143-32
1	12/27/92	3	1		164	N	
1	12/27/92	4	1		136	N	
1	12/27/92	5	1		148	N	
1	12/27/92	6	1		82	N	
1	12/31/92	1	1		171	Y	J 91012614332
1	12/31/92	3	1		162	N	TC#2 BAD
1	12/31/92	4	1		156	N	
1	12/31/92	5	1		148	N	
1	12/31/92	6	1		81	N	
1	1/7/93	1	1		171	Y	J 910126143-29
1	1/7/93	3	1		160	N	
1	1/7/93	4	1		153	N	
1	1/7/93	5	1		144	N	
1	1/23/93	1	1		172	Y	J 910126143-29

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	1/23/93	3	1		160	N	
1	1/23/93	4	1		153	N	
1	1/23/93	5	1		144	N	
1	1/23/93	6	1		76	N	
1	1/31/93	1	1		171	Y	J 910126143-29
1	1/31/93	3	1		160	N	
1	1/31/93	4	1		153	N	
1	1/31/93	5	1		144	N	
1	1/31/93	6	1		75	N	
1	2/5/93	1	1		171	Y	J 910126143-32
1	2/5/93	3	1		159	N	
1	2/5/93	4	1		153	N	
1	2/5/93	5	1		144	N	
1	2/5/93	6	1		75	N	
1	2/11/93	1	1		170	Y	J 910126143-42
1	2/11/93	3	1		159	N	
1	2/11/93	4	1		152	N	
1	2/11/93	5	1		143	N	
1	2/11/93	6	1		75	N	
1	2/18/93	1	1		170	Y	J 910126143-29
1	2/18/93	2	1		161	N	
1	2/18/93	3	1		159	N	
1	2/18/93	4	1		152	N	
1	2/18/93	5	1		145	N	
1	2/18/93	6	1		74	N	
1	2/26/93	1	1		169	Y	J 910126143-66
1	2/26/93	3	1		160	N	
1	2/26/93	4	1		154	N	
1	2/26/93	5	1		146	N	
1	2/26/93	6	1		76	N	
1	3/4/93	1	1		168	Y	J 817-13-20-019
1	3/4/93	3	1		158	N	
1	3/4/93	4	1		151	N	
1	3/4/93	5	1		142	N	
1	3/4/93	6	1		73	N	
1	3/11/93	1	1		169	Y	J 910126143-66
1	3/11/93	3	1		157	N	
1	3/11/93	4	1		150	N	
1	3/11/93	5	1		142	N	
1	3/11/93	6	1		74	N	
1	3/19/93	1	1		168	Y	J 910126143-66
1	3/19/93	1	2		166	Y	J 910126143-66
1	3/19/93	3	1		163	N	
1	3/19/93	3	2		160	N	
1	3/19/93	4	1		151	N	
1	3/19/93	5	1		143	N	
1	3/19/93	6	1		75	N	
1	3/19/93	6	2		77	N	
1	3/27/93	1	1		167	Y	
1	3/27/93	3	1		158	N	
1	3/27/93	4	1		151	N	
1	3/27/93	5	1		142	N	
1	3/27/93	6	1		76	N	
1	4/1/93	1	1		167	Y	J 8904-23320-42
1	4/1/93	3	1		155	N	
1	4/1/93	4	1		148	N	
1	4/1/93	5	1		139	N	
1	4/1/93	6	1		72	N	
1	4/8/93	1	1		167	Y	J 0126143-14
1	4/8/93	2	1		55	N	
1	4/8/93	3	1		156	N	
1	4/8/93	4	1		149	N	
1	4/8/93	5	1		140	N	
1	4/8/93	6	1		74	N	
1	4/15/93	1	1		168	Y	J 910126143-66
1	4/21/93	1	1		168	Y	J 910126143-66 TC# 2 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	4/21/93	3	1		158	N	
1	4/21/93	4	1		151	N	
1	4/21/93	5	1		143	N	
1	4/21/93	6	1		78	N	
1	4/23/93	1	1		169	Y	J 910126143-66
1	4/23/93	2	1		161	N	
1	4/23/93	3	1		157	N	
1	4/23/93	4	1		150	N	
1	4/23/93	5	1		142	N	
1	4/23/93	6	1		77	N	
1	4/29/93	1	1		168	Y	J 910126143-66
1	4/29/93	3	1		157	N	
1	4/29/93	4	1		150	N	
1	4/29/93	5	1		141	N	
1	4/29/93	6	1		77	N	
1	5/6/93	1	1		168	Y	J 91012614366
1	5/6/93	3	1		157	N	
1	5/6/93	4	1		150	N	
1	5/6/93	5	1		142	N	
1	5/6/93	6	1		78	N	
1	5/13/93	1	1		167	Y	H 910126143-66
1	5/13/93	3	1		156	N	
1	5/13/93	4	1		150	N	
1	5/13/93	5	1		142	N	
1	5/13/93	6	1		80	N	
1	5/20/93	1	1		168	Y	J 910126143-66 TC 2 OS
1	5/20/93	3	1		157	N	
1	5/20/93	4	1		150	N	
1	5/20/93	5	1		142	N	
1	5/20/93	6	1		81	N	
1	5/27/93	1	1		164	Y	J 890432320-42 TC 2 O/S
1	5/27/93	3	1		155	N	
1	5/27/93	4	1		148	N	
1	5/27/93	5	1		139	N	
1	5/27/93	6	1		79	N	
1	6/3/93	1	1		168	Y	J 817-13-20-019 TC 2 O/S
1	6/3/93	3	1		157	N	
1	6/3/93	4	1		150	N	
1	6/3/93	5	1		142	N	
1	6/3/93	6	1		81	N	
1	6/10/93	1	1		167	Y	J 910126143-32 TC 2 O/S
1	6/10/93	3	1		158	N	
1	6/10/93	4	1		151	N	
1	6/10/93	5	1		143	N	
1	6/10/93	6	1		81	N	
1	6/18/93	1	1		168	Y	J TC 2 O/S
1	6/18/93	3	1		157	N	
1	6/18/93	4	1		150	N	
1	6/18/93	5	1		142	N	
1	6/18/93	6	1		82	N	
1	6/27/93	1	1		169	Y	J 910126143-32 TC 2 O/S
1	6/27/93	3	1		158	N	
1	6/27/93	4	1		151	N	
1	6/27/93	5	1		143	N	
1	6/27/93	6	1		84	N	
1	7/1/93	1	1		165	Y	J 890423320-42 TC 2 O/S
1	7/1/93	3	1		155	N	
1	7/1/93	4	1		148	N	
1	7/1/93	5	1		140	N	
1	7/1/93	6	1		82	N	
1	7/8/93	1	1		165	Y	J 890423320-42 TC 2 O/S
1	7/8/93	3	1		155	N	
1	7/8/93	4	1		148	N	
1	7/8/93	5	1		140	N	
1	7/8/93	6	1		83	N	
1	7/16/93	1	1		165	Y	TYPE J 89042330-42

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	7/16/93	3	1		155	N	
1	7/16/93	4	1		148	N	
1	7/16/93	5	1		140	N	
1	7/16/93	6	1		85	N	
1	7/22/93	1	1		166	Y	J 0126143-14 TC-2 O/S
1	7/22/93	3	1		156	N	
1	7/22/93	4	1		150	N	
1	7/22/93	5	1		142	N	
1	7/22/93	6	1		87	N	
1	7/29/93	1	1		167	Y	J 910126143-14 TC# 2 O/S
1	7/29/93	3	1		156	N	
1	7/29/93	4	1		149	N	
1	7/29/93	5	1		142	N	
1	7/29/93	6	1		87	N	
1	8/5/93	1	1		164	Y	J 890423320-42 TC# 2 O/S
1	8/5/93	3	1		155	N	
1	8/5/93	4	1		149	N	
1	8/5/93	5	1		141	N	
1	8/5/93	6	1		87	N	
1	8/13/93	1	1		165	Y	J89042332042 TC 2 O/S
1	8/13/93	3	1		155	N	
1	8/13/93	4	1		148	N	
1	8/13/93	5	1		140	N	
1	8/13/93	6	1		86	N	
1	8/19/93	1	1		165	Y	J 89062330-42 TC 2 O/S
1	8/19/93	3	1		155	N	
1	8/19/93	4	1		148	N	
1	8/19/93	5	1		140	N	
1	8/19/93	6	1		86	N	
1	8/27/93	1	1		172	Y	J 910126143-66 TC 2 O/S
1	8/27/93	3	1		160	N	
1	8/27/93	4	1		154	N	
1	8/27/93	5	1		146	N	
1	8/27/93	6	1		91	N	
1	9/3/93	1	1		170	Y	J 910126143-66 TC 2 O/S
1	9/3/93	3	1		160	N	
1	9/3/93	4	1		155	N	
1	9/3/93	5	1		147	N	
1	9/3/93	6	1		92	N	
1	9/12/93	1	1		172	Y	J TI-042 TC 2 O/S
1	9/12/93	3	1		160	N	
1	9/12/93	4	1		154	N	
1	9/12/93	5	1		146	N	
1	9/12/93	6	1		92	N	
1	9/20/93	1	1		165	Y	J 910126143-50 TC 2 O/S
1	9/20/93	3	1		155	N	
1	9/20/93	4	1		149	N	
1	9/20/93	5	1		141	N	
1	9/20/93	6	1		86	N	
1	9/27/93	1	1		166	Y	J 890423320-42 TC 2 O/S
1	9/27/93	1	2		166	Y	HDAT TC 2 O/S
1	9/27/93	3	1		156	N	
1	9/27/93	3	2		155	N	
1	9/27/93	4	1		149	N	
1	9/27/93	4	2		148	N	
1	9/27/93	5	1		142	N	
1	9/27/93	5	2		142	N	
1	9/27/93	6	1		88	N	
1	9/27/93	6	2		88	N	
1	10/5/93	1	1		168	Y	J 910126143-48 TC 2 O/S
1	10/5/93	3	1		158	N	
1	10/5/93	4	1		151	N	
1	10/5/93	5	1		143	N	
1	10/5/93	6	1		89	N	
1	10/11/93	1	1		168	Y	J 910126143-48 TC 2 O/S
1	10/11/93	3	1		157	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/11/93	4	1		151	N	
1	10/11/93	5	1		143	N	
1	10/11/93	6	1		88	N	
1	10/18/93	1	1		164	Y	J 910126143-14 TC 2 O/S
1	10/18/93	3	1		156	N	
1	10/18/93	4	1		149	N	
1	10/18/93	5	1		141	N	
1	10/18/93	6	1		88	N	
1	10/27/93	1	1		168	Y	J 91012614348 TC 2 O/S
1	10/27/93	3	1		158	N	
1	10/27/93	4	1		151	N	
1	10/27/93	5	1		144	N	
1	10/27/93	6	1		87	N	
1	11/1/93	1	1		168	Y	J 910126143-29 TC 2 O/S
1	11/1/93	3	1		157	N	
1	11/1/93	4	1		151	N	
1	11/1/93	5	1		143	N	
1	11/1/93	6	1		87	N	
1	11/8/93	1	1		169	Y	J 910126143-29 TC 2 O/S
1	11/8/93	3	1		158	N	
1	11/8/93	4	1		151	N	
1	11/8/93	5	1		144	N	
1	11/8/93	6	1		85	N	
1	11/17/93	1	1		168	Y	J TI-041 TC 2 O/S
1	11/17/93	3	1		158	N	
1	11/17/93	4	1		151	N	
1	11/17/93	5	1		144	N	
1	11/17/93	6	1		85	N	
1	11/23/93	1	1		169	Y	J 910126143-29 TC 2 O/S
1	11/23/93	3	1		158	N	
1	11/23/93	4	1		151	N	
1	11/23/93	5	1		143	N	
1	11/23/93	6	1		87	N	
1	11/29/93	1	1		169	Y	J-91026143-29 TC 2 NG
1	11/29/93	1	2		169	Y	J-910126143 TC 2 O/S
1	11/29/93	3	1		158	N	
1	11/29/93	3	2		158	N	
1	11/29/93	4	1		151	N	
1	11/29/93	4	2		152	N	
1	11/29/93	5	1		144	N	
1	11/29/93	5	2		145	N	
1	11/29/93	6	1		88	N	
1	11/29/93	6	2		88	N	
1	12/7/93	1	1		169	Y	J 910126143-29 TC 2 O/S
1	12/7/93	3	1		158	N	
1	12/7/93	4	1		152	N	
1	12/7/93	5	1		144	N	
1	12/7/93	6	1		88	N	
1	12/14/93	1	1		165	Y	J 910126143-29 TC 2 O/S
1	12/14/93	3	1		155	N	
1	12/14/93	4	1		148	N	
1	12/14/93	5	1		141	N	
1	12/14/93	6	1		85	N	
1	12/20/93	1	1		169	Y	J 910126143-29 TC 2 O/S
1	12/20/93	1	2		168	Y	J 910126143-29 TC 2 O/S
1	12/20/93	3	1		159	N	
1	12/20/93	3	2		158	N	
1	12/20/93	4	1		152	N	
1	12/20/93	4	2		151	N	
1	12/20/93	5	1		145	N	
1	12/20/93	5	2		144	N	
1	12/20/93	6	1		88	N	
1	12/20/93	6	2		88	N	
1	12/21/93	1	2		168	Y	J 910126143-29 TC 2 O/S
1	12/21/93	3	2		157	N	
1	12/21/93	4	2		152	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/21/93	5	2		145	N	
1	12/21/93	6	2		88	N	
1	12/22/93	1	1		169	Y	J 910126143-29 TC 2 O/S
1	12/22/93	3	1		159	N	
1	12/22/93	4	1		152	N	
1	12/22/93	5	1		145	N	
1	12/22/93	6	1		88	N	
1	12/23/93	1	1		144	N	J 91012643-29 TC 2 O/S Bad Data
1	12/23/93	4	1		150	N	
1	12/23/93	5	1		142	N	
1	12/23/93	6	1		87	N	
1	12/24/93	1	1		169	Y	J 910126143-29 TC 2 O/S
1	12/24/93	3	1		159	N	
1	12/24/93	4	1		152	N	
1	12/24/93	5	1		145	N	
1	12/24/93	6	1		88	N	
1	12/25/93	1	1		169	Y	J 910126143-29 TC 2 O/S
1	12/25/93	3	1		158	N	
1	12/25/93	4	1		152	N	
1	12/25/93	5	1		144	N	
1	12/25/93	6	1		88	N	
1	12/26/93	1	1		168	Y	J 910126143-29 TC 2 O/S
1	12/26/93	3	1		159	N	
1	12/26/93	4	1		151	N	
1	12/26/93	5	1		144	N	
1	12/26/93	6	1		88	N	
1	12/27/93	1	1		167	Y	J 910126143-29 TC 2 O/S
1	12/27/93	3	1		159	N	
1	12/27/93	4	1		151	N	
1	12/27/93	5	1		144	N	
1	12/27/93	6	1		88	N	
1	12/28/93	1	1			N	J 910126143-29 TC 1 thru 6 O/S Recheck Requested
1	12/28/93	6	1			N	
1	12/29/93	1	1		168	Y	J 910126143-29 TC 2 O/S
1	12/29/93	1	2		168	Y	J 910126143-29 TC 2 O/S
1	12/29/93	1	3		169	Y	TYPE J TC 2 O/S
1	12/29/93	1	4		169	Y	J 91012614332 TC 2 O/S
1	12/29/93	3	1		158	N	
1	12/29/93	3	2		158	N	
1	12/29/93	3	3		159	N	
1	12/29/93	3	4		159	N	
1	12/29/93	4	1		152	N	
1	12/29/93	4	2		151	N	
1	12/29/93	4	3		152	N	
1	12/29/93	4	4		152	N	
1	12/29/93	5	1		144	N	
1	12/29/93	5	2		144	N	
1	12/29/93	5	3		145	N	
1	12/29/93	5	4		145	N	
1	12/29/93	6	1		86	N	
1	12/29/93	6	2		86	N	
1	12/29/93	6	3		87	N	
1	12/29/93	6	4		87	N	
1	12/30/93	1	1		169	Y	J 910126143-32 TC 2 O/S
1	12/30/93	1	2		168	Y	J 910126143-32 TC 2 O/S
1	12/30/93	3	1		159	N	
1	12/30/93	3	2		158	N	
1	12/30/93	4	1		152	N	
1	12/30/93	4	2		151	N	
1	12/30/93	5	1		145	N	
1	12/30/93	5	2		144	N	
1	12/30/93	6	1		86	N	
1	12/30/93	6	2		85	N	
1	12/31/93	1	1		170	Y	J 910126143-32 TC 2 O/S
1	12/31/93	3	1		159	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-104							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	12/31/93	4	1		153	N	
1	12/31/93	5	1		145	N	
1	12/31/93	6	1		86	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/20/74	1		51.11	124		raw data - assumed degree C
1	10/20/74	2		45.56	114		raw data - assumed degree C
1	10/20/74	3		43.33	110		raw data - assumed degree C
1	10/20/74	4		43.33	110		raw data - assumed degree C
1	10/20/74	5		43.33	110		raw data - assumed degree C
1	10/20/74	6		43.33	110		raw data - assumed degree C
1	10/20/74	7		43.33	110		raw data - assumed degree C
1	10/20/74	8		43.33	110		raw data - assumed degree C
1	10/20/74	9		43.33	110		raw data - assumed degree C
1	10/20/74	10		43.33	110		raw data - assumed degree C
1	10/20/74	11		43.33	110		raw data - assumed degree C
1	10/20/74	12		43.33	110		raw data - assumed degree C
1	12/2/74	1		51.11	124		raw data - assumed degree C
1	12/2/74	2		45.56	114		raw data - assumed degree C
1	12/2/74	3		42.78	109		raw data - assumed degree C
1	12/2/74	4		42.78	109		raw data - assumed degree C
1	12/2/74	5		42.78	109		raw data - assumed degree C
1	12/2/74	6		42.78	109		raw data - assumed degree C
1	12/2/74	7		42.78	109		raw data - assumed degree C
1	12/2/74	8		42.78	109		raw data - assumed degree C
1	12/2/74	9		42.78	109		raw data - assumed degree C
1	12/2/74	10		42.78	109		raw data - assumed degree C
1	12/2/74	11		42.78	109		raw data - assumed degree C
1	12/2/74	12		42.78	109		raw data - assumed degree C
1	11/3/75	1			170		
1	11/3/75	2			169		
1	11/3/75	3			164		
1	11/3/75	4			158		
1	11/3/75	5			154		
1	11/3/75	6			150		
1	11/3/75	7			145		
1	11/3/75	8			140		
1	11/3/75	9			135		
1	11/3/75	10			130		
1	11/3/75	11			125		
1	11/3/75	12			123		
1	12/1/75	1			174		
1	12/1/75	2			173		
1	12/1/75	3			167		
1	12/1/75	4			160		
1	12/1/75	5			154		
1	12/1/75	6			150		
1	12/1/75	7			145		
1	12/1/75	8			140		
1	12/1/75	9			133		
1	12/1/75	10			120		
1	12/1/75	11			118		
1	12/1/75	12			118		
1	12/1/75	13			146		
1	1/20/76	1			180		
1	1/20/76	2			178		
1	1/20/76	3			172		
1	1/20/76	4			164		
1	1/20/76	5			157		
1	1/20/76	6			151		
1	1/20/76	7			145		
1	1/20/76	8			140		
1	1/20/76	9			129		
1	1/20/76	10			114		
1	1/20/76	11			112		
1	1/20/76	12			112		
1	1/20/76	13			112		
1	1/20/76	14			112		
1	3/5/76	1			185		
1	3/5/76	2			184		
1	3/5/76	3			176		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/5/76	4			168		
1	3/5/76	5			160		
1	3/5/76	6			154		
1	3/5/76	7			150		
1	3/5/76	8			144		
1	3/5/76	9			136		
1	3/5/76	10			129		
1	3/5/76	11			123		
1	3/5/76	12			122		
1	4/3/76	1			188		
1	4/3/76	2			187		
1	4/3/76	3			180		
1	4/3/76	4			170		
1	4/3/76	5			161		
1	4/3/76	6			156		
1	4/3/76	7			150		
1	4/3/76	8			146		
1	4/3/76	9			137		
1	4/3/76	10			125		
1	4/3/76	11			120		
1	4/3/76	12			117		
1	5/2/76	1			192		
1	5/2/76	2			191		
1	5/2/76	3			183		
1	5/2/76	4			173		
1	5/2/76	5			164		
1	5/2/76	6			157		
1	5/2/76	7			152		
1	5/2/76	8			146		
1	5/2/76	9			137		
1	5/2/76	10			129		
1	5/2/76	11			128		
1	5/2/76	12			119		
1	6/1/76	1			192		
1	6/1/76	2			193		
1	6/1/76	3			183		
1	6/1/76	4			174		
1	6/1/76	5			167		
1	6/1/76	6			161		
1	6/1/76	7			155		
1	6/1/76	8			148		
1	6/1/76	9			139		
1	6/1/76	10			128		
1	6/1/76	11			126		
1	6/1/76	12			118		
1	6/1/76	13			118		
1	6/1/76	14			118		
1	7/1/76	1			191		
1	7/1/76	2			189		
1	7/1/76	3			181		
1	7/1/76	4			171		
1	7/1/76	5			162		
1	7/1/76	6			155		
1	7/1/76	7			148		
1	7/1/76	8			141		
1	7/1/76	9			133		
1	7/1/76	10			123		
1	7/1/76	11			113		
1	7/1/76	12			112		
1	7/1/76	13			105		
1	7/1/76	14			104		
1	8/3/76	1			198		
1	8/3/76	2			198		
1	8/3/76	3			190		
1	8/3/76	4			180		
1	8/3/76	5			170		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	8/3/76	6			160		
1	8/3/76	7			154		
1	8/3/76	8			145		
1	8/3/76	9			136		
1	8/3/76	10			127		
1	8/3/76	11			124		
1	8/3/76	12			122		
1	8/3/76	13			111		
1	8/3/76	14			111		
1	9/2/76	1			200		
1	9/2/76	2			206		
1	9/2/76	3			193		
1	9/2/76	4			182		
1	9/2/76	5			173		
1	9/2/76	6			164		
1	9/2/76	7			156		
1	9/2/76	8			149		
1	9/2/76	9			140		
1	9/2/76	10			131		
1	9/2/76	11			125		
1	9/2/76	12			125		
1	11/1/76	1			200		
1	11/1/76	2			200		
1	11/1/76	3			198		
1	11/1/76	4			187		
1	11/1/76	5			174		
1	11/1/76	6			170		
1	11/1/76	7			160		
1	11/1/76	8			152		
1	11/1/76	9			143		
1	11/1/76	10			132		
1	11/1/76	11			126		
1	11/1/76	12			126		
1	11/1/76	13			114		
1	11/1/76	14			114		
1	12/4/76	1			200		
1	12/4/76	2			200		
1	12/4/76	3			194		
1	12/4/76	4			184		
1	12/4/76	5			181		
1	12/4/76	6			168		
1	12/4/76	7			159		
1	12/4/76	8			150		
1	12/4/76	9			142		
1	12/4/76	10			136		
1	12/4/76	11			132		
1	12/4/76	12			128		
1	1/1/77	1			200		
1	1/1/77	2			200		
1	1/1/77	3			197		
1	1/1/77	4			187		
1	1/1/77	5			180		
1	1/1/77	6			169		
1	1/1/77	7			161		
1	1/1/77	8			154		
1	1/1/77	9			146		
1	1/1/77	10			140		
1	1/1/77	11			130		
1	1/1/77	12			124		
1	1/17/77	1			208		
1	1/17/77	2			207		
1	1/17/77	3			198		
1	1/17/77	4			189		
1	1/17/77	5			181		
1	1/17/77	6			171		
1	1/17/77	7			163		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	1/17/77	8			156		
1	1/17/77	9			149		
1	1/17/77	10			142		
1	1/17/77	11			130		
1	1/17/77	12			130		
1	2/1/77	1			200		
1	2/1/77	2			200		
1	2/1/77	3			200		
1	2/1/77	4			188		
1	2/1/77	5			180		
1	2/1/77	6			170		
1	2/1/77	7			162		
1	2/1/77	8			156		
1	2/1/77	9			148		
1	2/1/77	10			140		
1	2/1/77	11			130		
1	2/1/77	12			124		
1	2/1/77	13			124		
1	2/1/77	14			124		
1	2/26/77	1			207		
1	2/26/77	2			207		
1	2/26/77	3			193		
1	2/26/77	4			173		
1	2/26/77	5			168		
1	2/26/77	6			165		
1	2/26/77	7			162		
1	2/26/77	8			152		
1	2/26/77	9			145		
1	2/26/77	10			135		
1	2/26/77	11			125		
1	2/26/77	12			123		
1	2/26/77	13			123		
1	2/26/77	14			123		
1	3/16/77	1			204		
1	3/16/77	2			203		
1	3/16/77	3			194		
1	3/16/77	4			173		
1	3/16/77	5			167		
1	3/16/77	6			165		
1	3/16/77	7			165		
1	3/16/77	8			163		
1	3/16/77	9			145		
1	3/16/77	10			135		
1	3/16/77	11			124		
1	3/16/77	12			124		
1	3/16/77	13			124		
1	3/16/77	14			124		
1	3/26/77	1			207		
1	3/26/77	2			207		
1	3/26/77	3			195		
1	3/26/77	4			173		
1	3/26/77	5			168		
1	3/26/77	6			165		
1	3/26/77	7			162		
1	3/26/77	8			152		
1	3/26/77	9			145		
1	3/26/77	10			135		
1	3/26/77	11			125		
1	3/26/77	12			123		
1	3/26/77	13			123		
1	3/26/77	14			123		
1	4/3/77	1			205		
1	4/3/77	2			204		
1	4/3/77	3			195		
1	4/3/77	4			183		
1	4/3/77	5			170		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	4/3/77	6			157		
1	4/3/77	7			156		
1	4/3/77	8			156		
1	4/3/77	9			143		
1	4/3/77	10			125		
1	4/3/77	11			125		
1	4/3/77	12			125		
1	4/3/77	13			125		
1	4/9/77	1			205		
1	4/9/77	2			205		
1	4/9/77	3			195		
1	4/9/77	4			185		
1	4/9/77	5			175		
1	4/9/77	6			165		
1	4/9/77	7			140		
1	4/9/77	8			140		
1	4/9/77	9			138		
1	4/9/77	10			125		
1	4/9/77	11			125		
1	4/9/77	12			125		
1	5/1/77	1			206		
1	5/1/77	2			205		
1	5/1/77	3			196		
1	5/1/77	4			187		
1	5/1/77	5			173		
1	5/1/77	6			164		
1	5/1/77	7			160		
1	5/1/77	8			150		
1	5/1/77	9			141		
1	5/1/77	10			130		
1	5/1/77	11			125		
1	5/1/77	12			110		
1	6/7/77	1			208		
1	6/7/77	2			208		
1	6/7/77	3			195		
1	6/7/77	4			190		
1	6/7/77	5			177		
1	6/7/77	6			175		
1	6/7/77	7			167		
1	6/7/77	8			163		
1	6/7/77	9			160		
1	6/7/77	10			150		
1	6/7/77	11			143		
1	6/7/77	12			130		
1	6/13/77	1			208		
1	6/13/77	2			208		
1	6/13/77	3			195		
1	6/13/77	4			190		
1	6/13/77	5			177		
1	6/13/77	6			175		
1	6/13/77	7			167		
1	6/13/77	8			163		
1	6/13/77	9			160		
1	6/13/77	10			150		
1	6/13/77	11			143		
1	6/13/77	12			130		
1	7/11/77	1			208		
1	7/11/77	2			207		
1	7/11/77	3			198		
1	7/11/77	4			188		
1	7/11/77	5			178		
1	7/11/77	6			170		
1	7/11/77	7			162		
1	7/11/77	8			155		
1	7/11/77	9			150		
1	7/11/77	10			145		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	7/11/77	11			142		
1	7/11/77	12			138		
1	8/5/77	1			208		
1	8/5/77	2			208		
1	8/5/77	3			200		
1	8/5/77	4			190		
1	8/5/77	5			180		
1	8/5/77	6			170		
1	8/5/77	7			164		
1	8/5/77	8			157		
1	8/5/77	9			150		
1	8/5/77	10			147		
1	8/5/77	11			138		
1	8/5/77	12			138		
1	8/23/77	1			210		
1	8/23/77	2			210		
1	8/23/77	3			200		
1	8/23/77	4			186		
1	8/23/77	5			174		
1	8/23/77	6			165		
1	8/23/77	7			162		
1	8/23/77	8			160		
1	8/23/77	9			156		
1	8/23/77	10			140		
1	8/23/77	11			140		
1	8/23/77	12			146		
1	8/23/77	13			140		
1	8/23/77	14			136		
1	9/5/77	1			209		
1	9/5/77	2			209		
1	9/5/77	3			199		
1	9/5/77	4			187		
1	9/5/77	5			177		
1	9/5/77	6			167		
1	9/5/77	7			164		
1	9/5/77	8			160		
1	9/5/77	9			150		
1	9/5/77	10			145		
1	9/5/77	11			142		
1	9/5/77	12			141		
1	9/5/77	13			136		
1	9/5/77	14			118		
1	10/3/77	1			210		
1	10/3/77	2			210		
1	10/3/77	3			200		
1	10/3/77	4			190		
1	10/3/77	5			180		
1	10/3/77	6			166		
1	10/3/77	7			166		
1	10/3/77	8			160		
1	10/3/77	9			153		
1	10/3/77	10			149		
1	10/3/77	11			146		
1	10/3/77	12			145		
1	10/3/77	13			140		
1	10/3/77	14			135		
1	10/3/77	15			135		
1	10/3/77	16			122		
1	11/3/77	1			210		
1	11/3/77	2			210		
1	11/3/77	3			200		
1	11/3/77	4			190		
1	11/3/77	5			177		
1	11/3/77	6			168		
1	11/3/77	7			168		
1	11/3/77	8			168		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	11/3/77	9			155		
1	11/3/77	10			150		
1	11/3/77	11			145		
1	11/3/77	12			137		
1	11/3/77	13			135		
1	11/3/77	14			135		
1	11/3/77	15			135		
1	11/3/77	16			112		
1	12/4/77	1			210		
1	12/4/77	2			210		
1	12/4/77	3			205		
1	12/4/77	4			195		
1	12/4/77	5			177		
1	12/4/77	6			175		
1	12/4/77	7			175		
1	12/4/77	8			175		
1	12/4/77	9			170		
1	12/4/77	10			160		
1	12/4/77	11			146		
1	12/15/77	1			211		
1	12/15/77	2			211		
1	12/15/77	3			202		
1	12/15/77	4			190		
1	12/15/77	5			173		
1	12/15/77	6			170		
1	12/15/77	7			168		
1	12/15/77	8			165		
1	12/15/77	9			155		
1	12/15/77	10			147		
1	12/15/77	11			135		
1	12/15/77	12			120		
1	1/12/78	1			212		
1	1/12/78	2			212		
1	1/12/78	3			200		
1	1/12/78	4			190		
1	1/12/78	5			166		
1	1/12/78	6			165		
1	1/12/78	7			165		
1	1/12/78	8			165		
1	1/12/78	9			153		
1	1/12/78	10			140		
1	1/12/78	11			130		
1	1/25/78	1			212		
1	1/25/78	2			212		
1	1/25/78	3			205		
1	1/25/78	4			190		
1	1/25/78	5			170		
1	1/25/78	6			166		
1	1/25/78	7			166		
1	1/25/78	8			166		
1	1/25/78	9			152		
1	1/25/78	10			138		
1	1/25/78	11			136		
1	2/2/78	1			212		
1	2/2/78	2			212		
1	2/2/78	3			203		
1	2/2/78	4			190		
1	2/2/78	5			171		
1	2/2/78	6			166		
1	2/2/78	7			166		
1	2/2/78	8			166		
1	2/2/78	9			152		
1	2/2/78	10			133		
1	2/2/78	11			126		
1	2/2/78	12			117		
1	2/2/78	13			102		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/2/78	14			102		
1	3/9/78	1			213		
1	3/9/78	2			213		
1	3/9/78	3			205		
1	3/9/78	4			195		
1	3/9/78	5			184		
1	3/9/78	6			172		
1	3/9/78	7			160		
1	3/9/78	8			160		
1	3/9/78	9			153		
1	3/9/78	10			140		
1	3/9/78	11			125		
1	5/3/80	1			215		
1	5/3/80	2			218		
1	5/3/80	3			210		
1	5/3/80	4			202		
1	5/3/80	5			190		
1	5/3/80	6			182		
1	5/3/80	7			173		
1	5/3/80	8			161		
1	5/3/80	9			150		
1	5/3/80	10			155		
1	5/3/80	11			117		
1	5/3/80	12			112		
1	9/19/80	1			215		
1	9/19/80	2			216		
1	9/19/80	3			206		
1	9/19/80	4			196		
1	9/19/80	5			190		
1	9/19/80	6			182		
1	9/19/80	7			172		
1	9/19/80	8			159		
1	9/19/80	9			145		
1	9/19/80	10			126		
1	9/19/80	11			105		
1	9/19/80	12			101		
1	9/19/80	13			101		
1	9/19/80	14			100		
1	9/19/80	15			100		
1	9/19/80	16			100		
1	2/7/81	1			222		
1	2/7/81	2			224		
1	2/7/81	3			214		
1	2/7/81	4			204		
1	2/7/81	5			195		
1	2/7/81	6			186		
1	2/7/81	7			163		
1	2/7/81	8			148		
1	2/7/81	9			132		
1	2/7/81	10			113		
1	2/7/81	11			105		
1	2/7/81	12			105		
1	2/7/81	13			105		
1	2/7/81	14			105		
1	1/13/82	1			213		
1	1/13/82	2			215		
1	1/13/82	3			206		
1	1/13/82	4			195		
1	1/13/82	5			192		
1	1/13/82	6			177		
1	1/13/82	7			167		
1	1/13/82	8			155		
1	1/13/82	9			141		
1	1/13/82	10			125		
1	1/13/82	11			107		
1	1/13/82	12			100		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/13/82	13			100		
1	1/13/82	14			100		
1	1/13/82	15			100		
1	1/13/82	16			100		
1	5/29/82	1			214		
1	5/29/82	2			217		
1	5/29/82	3			208		
1	5/29/82	4			197		
1	5/29/82	5			188		
1	5/29/82	6			178		
1	5/29/82	7			166		
1	5/29/82	8			153		
1	5/29/82	9			139		
1	5/29/82	10			123		
1	5/29/82	11			106		
1	5/29/82	12			100		
1	7/9/82	1			214		
1	7/9/82	2			215		
1	7/9/82	3			206		
1	7/9/82	4			194		
1	7/9/82	5			186		
1	7/9/82	6			100		
1	10/6/82	1			213		
1	10/6/82	2			215		
1	10/6/82	3			206		
1	10/6/82	4			196		
1	10/6/82	5			186		
1	10/6/82	6			176		
1	10/6/82	7			166		
1	10/6/82	8			154		
1	10/6/82	9			142		
1	10/6/82	10			128		
1	10/6/82	11			113		
1	10/6/82	12			107		
1	10/6/82	13			107		
1	10/6/82	14			107		
1	10/6/82	15			107		
1	10/6/82	16			107		
1	2/14/84	1			217		
1	2/14/84	2			218		
1	2/14/84	3			208		
1	2/14/84	4			198		
1	2/14/84	5			189		
1	2/14/84	6			97		
1	3/14/84	1			196		
1	3/14/84	2			192		
1	3/14/84	3			183		
1	3/14/84	4			172		
1	3/14/84	5			164		
1	3/14/84	6			99		
1	4/9/84	1			214		
1	4/9/84	2			214		
1	4/9/84	3			202		
1	4/9/84	4			194		
1	4/9/84	5			184		
1	4/9/84	6			91		
1	6/19/84	1			211		
1	6/19/84	2			210		
1	6/19/84	3			201		
1	6/19/84	4			192		
1	6/19/84	5			182		
1	6/19/84	6			94		
1	9/1/84	1			212		
1	9/1/84	2			211		
1	9/1/84	3			203		
1	9/1/84	4			193		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	9/1/84	5			183		
1	9/1/84	6			109		
1	10/5/84	1			204		
1	10/5/84	2			203		
1	10/5/84	3			197		
1	10/5/84	4			186		
1	10/5/84	5			175		
1	10/5/84	6			104		
1	1/8/85	1			208		
1	1/8/85	2			207		
1	1/8/85	3			200		
1	1/8/85	4			189		
1	1/8/85	5			179		
1	1/8/85	6			101		
1	2/4/85	1			235		
1	2/4/85	2			233		
1	2/4/85	3			226		
1	2/4/85	4			214		
1	2/4/85	5			206		
1	2/4/85	6			128		
1	4/2/85	1			206		
1	4/2/85	2			205		
1	4/2/85	3			199		
1	4/2/85	4			198		
1	4/2/85	5			180		
1	4/2/85	6			100		
1	5/2/85	1			199		
1	5/2/85	2			199		
1	5/2/85	3			192		
1	5/2/85	4			189		
1	5/2/85	5			173		
1	5/2/85	6			94		
1	6/4/85	1			211		
1	6/4/85	2			211		
1	6/4/85	3			203		
1	6/4/85	4			190		
1	6/4/85	5			184		
1	6/4/85	6			108		
1	8/6/85	1			194		
1	8/6/85	2			197		
1	8/6/85	3			197		
1	8/6/85	4			192		
1	8/6/85	5			194		
1	8/6/85	6					
1	8/13/85	1			228		192 - suspect data (high)
1	8/13/85	2			228		
1	8/13/85	3			221		
1	8/13/85	5			201		
1	8/13/85	6			129		
1	9/1/85	1			207		
1	9/1/85	2			207		
1	9/1/85	3			210		
1	9/1/85	5			200		
1	9/1/85	6					197 - suspect data (high)
1	12/4/85	1			182		
1	12/4/85	2			181		
1	12/4/85	3			175		
1	12/4/85	4					245 - suspect data (high)
1	12/4/85	5			157		
1	12/4/85	6			85		
1	1/6/86	1					76 - suspect data (low)
1	1/6/86	2					76 - suspect data (low)
1	1/6/86	3					76 - suspect data (low)
1	1/6/86	4					75 - suspect data (low)
1	1/6/86	5					75 - suspect data (low)
1	1/6/86	6					75 - suspect data (low)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/7/86	1					60 - suspect data (low)
1	1/7/86	2					58 - suspect data (low)
1	1/7/86	3					59 - suspect data (low)
1	1/7/86	4					57 - suspect data (low)
1	1/7/86	5					58 - suspect data (low)
1	1/7/86	6					58 - suspect data (low)
1	4/7/86	1					90 - suspect data (low)
1	4/7/86	2					89 - suspect data (low)
1	4/7/86	3					89 - suspect data (low)
1	4/7/86	4					89 - suspect data (low)
1	4/7/86	5					89 - suspect data (low)
1	4/7/86	6					89 - suspect data (low)
1	5/10/86	3			198		
1	5/10/86	4			189		
1	5/10/86	5			179		
1	5/10/86	6			99		
1	6/2/86	3			198		
1	6/2/86	5			180		
1	6/2/86	6			102		
1	7/7/86	3			198		
1	7/7/86	5			179		
1	7/7/86	6			102		
1	8/4/86	3			197		
1	8/4/86	4			188		
1	8/4/86	5			179		
1	8/4/86	6			105		
1	9/8/86	1			203		
1	9/8/86	2			202		
1	9/8/86	3			195		
1	9/8/86	4			187		
1	9/8/86	5			178		
1	9/8/86	6			110		
1	10/7/86	1			198		
1	10/7/86	2			197		
1	10/7/86	3			196		
1	10/7/86	4			188		
1	10/7/86	5			177		
1	11/1/86	3			197		
1	11/1/86	5			179		
1	11/1/86	6			107		
1	12/2/86	3			197		
1	12/2/86	4			188		
1	12/2/86	5			179		
1	12/2/86	6			104		
1	2/2/87	3			196		
1	2/2/87	5			178		
1	2/2/87	6			99		
1	6/1/87	1			92		
1	6/1/87	2			91		
1	6/1/87	3			83		
1	6/1/87	4			73		
1	6/1/87	5			64		
1	6/1/87	6					184 - suspect data (high)
1	7/6/87	3			196		
1	8/4/87	1			211		
1	8/4/87	2			211		
1	8/4/87	3			202		
1	8/4/87	4			188		
1	8/4/87	5			181		
1	8/4/87	6			101		
1	9/6/87	1			185		
1	9/6/87	2			184		
1	9/6/87	3			178		
1	9/6/87	4			150		
1	9/6/87	5			163		
1	9/6/87	6			105		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/5/87	1			199		
1	10/5/87	2			199		
1	10/5/87	3			193		
1	10/5/87	4			185		
1	10/5/87	5			175		
1	10/5/87	6			106		
1	11/4/87	5			177		
1	11/4/87	6			103		
1	12/8/87	3			195		
1	12/8/87	5			177		
1	12/8/87	6			101		
1	1/4/88	3	1		195	Y	
1	1/4/88	5	1		176	N	
1	1/4/88	6	1		98	N	
1	2/1/88	1	1		197	Y	
1	2/1/88	2	1		197	N	
1	2/1/88	3	1		191	N	
1	2/1/88	5	1		172	N	
1	2/1/88	6			95		
1	3/8/88	1	1		198	Y	
1	3/8/88	2	1		196	N	
1	3/8/88	3	1		189	N	
1	3/8/88	5	1		171	N	
1	3/8/88	6	1		93	N	
1	4/4/88	1	1		193	Y	
1	4/4/88	2	1		192	N	
1	4/4/88	3	1		184	N	
1	4/4/88	5	1		166	N	
1	4/4/88	6	1		88	N	
1	5/2/88	1	1		209	Y	
1	5/2/88	2	1		205	N	
1	5/2/88	3	1		197	N	
1	5/2/88	5	1		177	N	
1	5/2/88	6	1		102	N	
1	5/4/88	1	1		199	Y	
1	5/4/88	2	1		199	N	
1	5/4/88	3	1		192	N	
1	5/4/88	5	1		172	N	
1	5/4/88	6	1		96	N	
1	5/16/88	1	1		199	Y	
1	5/16/88	2	1		199	N	
1	5/16/88	3	1		192	N	
1	5/16/88	5	1		172	N	
1	5/16/88	6	1		96	N	
1	6/6/88	1	1		198	N	
1	6/6/88	2	1		199	Y	
1	6/6/88	3	1		191	N	
1	6/6/88	5	1		170	N	
1	6/6/88	6	1		98	N	
1	7/4/88	1	1		191	Y	
1	7/4/88	2	1		191	N	
1	7/4/88	3	1		182	N	
1	7/4/88	4	1		174	N	
1	7/4/88	5			169		
1	7/4/88	5	1		164	N	
1	7/4/88	6	1		92	N	
1	9/5/88	1	1		200	Y	
1	9/5/88	2	1		199	N	
1	9/5/88	3	1		192	N	
1	9/5/88	5	1		172	N	
1	9/5/88	6	1		103	N	
1	10/3/88	1	1		199	Y	
1	10/3/88	2	1		199	N	
1	10/3/88	3	1		192	N	
1	10/3/88	5	1		172	N	
1	10/3/88	6	1		103	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	11/7/88	1	1		196	Y	
1	11/7/88	2	1		195	N	
1	11/7/88	3	1		189	N	
1	11/7/88	5	1		167	N	
1	11/7/88	6	1		100	N	
1	12/5/88	1	1			N	O/S
1	1/2/89	1	1			N	O/S
1	1/6/89	1	1		200	Y	
1	1/6/89	2	1		199	N	
1	1/6/89	3	1		192	N	
1	1/6/89	5	1		172	N	
1	1/6/89	6	1		88	N	
1	2/7/89	2	1		197	Y	
1	2/7/89	3	1		192	N	
1	2/7/89	5	1		171	N	
1	2/7/89	6	1		86	N	
1	3/6/89	2	1		223	N	
1	3/6/89	3	1		220	N	
1	3/6/89	5	1		196	N	
1	3/6/89	6	1		102	N	
1	3/7/89	2	1		230	N	
1	3/7/89	3	1		224	N	
1	3/7/89	5	1		200	N	
1	3/7/89	6	1		105	N	
1	3/8/89	2	1		198	Y	
1	3/8/89	3	1		192	N	
1	3/8/89	5	1		171	N	
1	3/8/89	6	1		87	N	
1	6/5/89	1	1		199	Y	
1	6/5/89	3	1		191	N	
1	6/5/89	5	1		171	N	
1	6/5/89	6	1		95	N	
1	7/3/89	1	1		185	N	
1	7/3/89	3	1		189	Y	
1	7/3/89	5	1		170	N	
1	7/3/89	6	1		96	N	
1	1/1/90	1	1		196	Y	J-890523512-20
1	1/1/90	3	1		185	N	
1	1/1/90	5	1		168	N	
1	1/1/90	6	1		93	N	
1	2/5/90	1	1			N	J-890523512-20 & K-890723679
1	1/4/91	1	1		188	Y	J HH-99A Ser#890523512-47
1	1/4/91	3	1		178	N	
1	1/4/91	4	1		162	N	
1	1/4/91	5	1		161	N	
1	1/4/91	6	1		82	N	
1	2/9/91	1	1		190	Y	890423320-11
1	2/9/91	3	1		181	N	
1	2/9/91	4	1		170	N	
1	2/9/91	5	1		164	N	
1	2/9/91	6	1		84	N	
1	2/16/91	1	1		187	Y	890423320-11
1	2/16/91	3	1		178	N	
1	2/24/91	1	1		190	Y	J 890423320-11
1	2/24/91	3	1		180	N	
1	2/24/91	5	1		163	N	
1	2/24/91	6	1		83	N	
1	3/3/91	1	1		189	Y	J 890423320-11
1	3/3/91	3	1		180	N	
1	3/3/91	5	1		162	N	
1	3/3/91	6	1		82	N	
1	3/9/91	1	1		189	Y	J 890423320-11
1	3/9/91	3	1		180	N	
1	3/9/91	4	1		172	N	
1	3/9/91	5	1		162	N	
1	3/9/91	6	1		82	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/16/91	1	1		186	Y	TC #4 Bad Data J 890423320-11
1	3/16/91	3	1		180	N	
1	3/16/91	5	1		163	N	
1	3/16/91	6	1		82	N	
1	3/24/91	1	1		187	Y	J 890423320-11
1	3/24/91	3	1		178	N	
1	3/24/91	5	1		161	N	
1	3/24/91	6	1		80	N	
1	3/30/91	1	1		186	Y	J 890423320-11
1	3/30/91	3	1		178	N	
1	3/30/91	4	1		173	N	
1	3/30/91	5	1		162	N	
1	3/30/91	6	1		81	N	J 890423320-11
1	4/7/91	1	1		193	Y	
1	4/7/91	3	1		184	N	
1	4/7/91	4	1		182	N	
1	4/7/91	5	1		166	N	J 890423320-11 HH-99-A
1	4/7/91	6	1		83	N	
1	4/14/91	1	1		190	Y	
1	4/14/91	3	1		181	N	
1	4/14/91	5	1		163	N	H 890423320-11 HH-90A-J
1	4/14/91	6	1		84	N	
1	4/20/91	1	1		187	Y	
1	4/20/91	3	1		181	N	
1	4/20/91	5	1		163	N	J
1	4/20/91	6	1		84	N	
1	4/27/91	1	1		190	Y	
1	4/27/91	3	1		182	N	
1	4/27/91	4	1		183	N	J HH-99A-J
1	4/27/91	5	1		165	N	
1	4/27/91	6	1		85	N	
1	5/4/91	1	1		186	Y	
1	5/4/91	3	1		179	N	J 910126143-75
1	5/4/91	4	1		170	N	
1	5/4/91	5	1		162	N	
1	5/4/91	6	1		84	N	
1	5/12/91	1	1		188	Y	J Omega 99-A
1	5/12/91	3	1		180	N	
1	5/12/91	4	1		175	N	
1	5/12/91	5	1		162	N	
1	5/12/91	6	1		85	N	J 890423320-11
1	5/19/91	1	1		187	Y	
1	5/19/91	3	1		180	N	
1	5/19/91	4	1		168	N	
1	5/19/91	5	1		162	N	J 850423320-11
1	5/19/91	6	1		85	N	
1	5/24/91	1	1		188	Y	
1	5/24/91	3	1		180	N	
1	5/24/91	5	1		162	N	J 890423320-11
1	5/24/91	6	1		86	N	
1	6/2/91	1	1		186	Y	
1	6/2/91	3	1		179	N	J 890423320-11
1	6/2/91	4	1		176	N	
1	6/2/91	5	1		162	N	
1	6/2/91	6	1		86	N	
1	6/9/91	1	1		187	N	J 890423320-11
1	6/9/91	3	1		179	N	
1	6/9/91	4	1		187	Y	
1	6/9/91	5	1		162	N	
1	6/9/91	6	1		87	N	J 890423320-11
1	6/16/91	1	1		189	Y	
1	6/16/91	3	1		180	N	
1	6/16/91	4	1		170	N	
1	6/16/91	5	1		163	N	J 910126143-39
1	6/16/91	6	1		90	N	
1	6/22/91	1	1		188	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	6/22/91	3	1		180	N	
1	6/22/91	4	1		176	N	
1	6/22/91	5	1		162	N	
1	6/22/91	6	1		89	N	
1	6/29/91	1	1		184	Y	J 910126143-75 TC#2NG
1	6/29/91	3	1		178	N	
1	6/29/91	4	1		170	N	
1	6/29/91	5	1		160	N	
1	6/29/91	6	1		87	N	
1	7/7/91	1	1		185	Y	J 910126143-75
1	7/7/91	3	1		179	N	
1	7/7/91	4	1		177	N	
1	7/7/91	5	1		162	N	
1	7/7/91	6	1		90	N	
1	7/13/91	1	1		186	Y	J 910126143-75 TC#2o/s
1	7/13/91	3	1		178	N	
1	7/13/91	4	1		170	N	
1	7/13/91	5	1		161	N	
1	7/13/91	6	1		90	N	
1	7/20/91	1	1		185	Y	J 910126143-75 TC#2o/s
1	7/20/91	3	1		177	N	
1	7/20/91	4	1		171	N	
1	7/20/91	5	1		160	N	
1	7/20/91	6	1		89	N	J 910126143-75
1	7/27/91	1	1		186	Y	J 910126143-75 TC#2o/s
1	7/27/91	3	1		179	N	
1	7/27/91	4	1		171	N	
1	7/27/91	5	1		162	N	
1	7/27/91	6	1		92	N	
1	8/3/91	1	1		185	Y	J 910126143-75
1	8/3/91	3	1		178	N	
1	8/3/91	4	1		169	N	
1	8/3/91	5	1		159	N	
1	8/3/91	6	1		91	N	
1	8/11/91	1	1		185	Y	J 910126143-75 TC#2o/s
1	8/11/91	3	1		180	N	
1	8/11/91	4	1		171	N	
1	8/11/91	5	1		163	N	
1	8/11/91	6	1		94	N	
1	8/18/91	1	1		185	Y	J 910126143-75
1	8/18/91	3	1		177	N	
1	8/18/91	4	1		169	N	
1	8/18/91	5	1		161	N	
1	8/18/91	6	1		94	N	
1	8/25/91	1	1			N	JHH-99A-J O/S
1	8/25/91	2	1			N	O/S
1	8/25/91	3	1		179	Y	
1	8/25/91	4	1		168	N	
1	8/25/91	5	1		162	N	
1	8/25/91	6	1		94	N	
1	8/31/91	1	1		183	Y	J-890523512-20
1	8/31/91	3	1		177	N	
1	8/31/91	4	1		168	N	
1	8/31/91	5	1		161	N	
1	8/31/91	6	1		92	N	
1	9/7/91	1	1		186	Y	J-890523512-20
1	9/7/91	3	1		178	N	
1	9/7/91	4	1		167	N	
1	9/7/91	5	1		161	N	
1	9/7/91	6	1		94	N	
1	9/14/91	1	1		186	Y	J-890523512-20
1	9/14/91	3	1		178	N	
1	9/14/91	4	1		168	N	
1	9/14/91	5	1		162	N	
1	9/14/91	6	1		94	N	
1	9/21/91	1	1		186	Y	J-HH-99A-J

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/21/91	3	1		178	N	
1	9/21/91	4	1		168	N	
1	9/21/91	5	1		162	N	
1	9/21/91	6	1		94	N	
1	9/28/91	1	1		185	Y	J-890523512-20
1	9/28/91	3	1		178	N	
1	9/28/91	4	1		169	N	
1	9/28/91	5	1		162	N	
1	9/28/91	6	1		95	N	
1	10/5/91	1	1		187	Y	J-890523518-20
1	10/5/91	3	1		178	N	
1	10/5/91	4	1		169	N	
1	10/5/91	5	1		162	N	
1	10/5/91	6	1		94	N	
1	10/11/91	1	1		187	Y	J-890523512-20
1	10/11/91	3	1		179	N	
1	10/11/91	4	1		168	N	
1	10/11/91	5	1		163	N	
1	10/11/91	6	1		94	N	
1	10/20/91	1	1		186	Y	J-890523512-20
1	10/20/91	3	1		179	N	
1	10/20/91	4	1		166	N	
1	10/20/91	5	1		162	N	
1	10/20/91	6	1		93	N	
1	10/26/91	1	1		188	Y	J-890523512-20
1	10/26/91	3	1		180	N	
1	10/26/91	4	1		169	N	
1	10/26/91	5	1		164	N	
1	10/26/91	6	1		94	N	
1	11/2/91	1	1		189	Y	J-8905235125-80 TC #2 O/S
1	11/2/91	3	1		180	N	
1	11/2/91	4	1		176	N	
1	11/2/91	5	1		163	N	
1	11/2/91	6	1		92	N	
1	11/9/91	1	1		190	Y	J-890523512-20 TC #2 O/S
1	11/9/91	3	1		180	N	
1	11/9/91	4	1		173	N	
1	11/9/91	5	1		164	N	
1	11/9/91	6	1		92	N	
1	11/23/91	1	1		185	Y	J-890423320-42 TC #2 O/S
1	11/23/91	3	1		176	N	
1	11/23/91	4	1		168	N	
1	11/23/91	5	1		159	N	
1	11/23/91	6	1		87	N	
1	12/1/91	1	1		185	Y	TC #2 O/S J-890523512-47
1	12/1/91	3	1		176	N	
1	12/1/91	4	1		168	N	
1	12/1/91	5	1		159	N	
1	12/1/91	6	1		85	N	
1	12/6/91	1	1		191	Y	J-910126143-64 TC #2 O/S
1	12/6/91	3	1		178	N	
1	12/6/91	4	1		170	N	
1	12/6/91	5	1		162	N	
1	12/6/91	6	1		88	N	
1	12/14/91	1	1		188	Y	J-910126143-64 TC #2 O/S
1	12/14/91	3	1		178	N	
1	12/14/91	4	1		171	N	
1	12/14/91	5	1		162	N	
1	12/14/91	6	1		87	N	
1	12/22/91	1	1		191	Y	J-TI-007 TC #2 O/S
1	12/22/91	3	1		181	N	
1	12/22/91	4	1		173	N	
1	12/22/91	5	1		164	N	
1	12/22/91	6	1		88	N	
1	12/28/91	1	1		190	Y	TC #2 O/S
1	12/28/91	3	1		180	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
1	12/28/91	4	1		172	N
1	12/28/91	5	1		164	N
1	12/28/91	6	1		88	N
1	1/6/92	3	1		179	Y
1	1/6/92	4	1		170	N
1	1/6/92	5	1		162	N
1	1/6/92	6	1		85	N
1	1/10/92	1	1		189	Y
1	1/10/92	3	1		171	N
1	1/10/92	4	1		170	N
1	1/10/92	5	1		163	N
1	1/10/92	6	1		86	N
1	1/16/92	1	1		189	Y
1	1/16/92	3	1		176	N
1	1/16/92	4	1		166	N
1	1/16/92	5	1		159	N
1	1/16/92	6	1		83	N
1	1/25/92	1	1		188	Y
1	1/25/92	3	1		179	N
1	1/25/92	4	1		170	N
1	1/25/92	5	1		162	N
1	1/25/92	6	1		84	N
1	1/28/92	1	1			N
ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT						
1	2/23/92	1	1		183	Y
1	2/23/92	3	1		171	N
1	2/23/92	4	1		163	N
1	2/23/92	5	1		159	N
1	2/23/92	6	1		81	N
1	3/1/92	1	1		189	Y
1	3/1/92	3	1		179	N
1	3/1/92	4	1		169	N
1	3/1/92	5	1		162	N
1	3/1/92	6	1		83	N
1	3/6/92	1	1		186	Y
1	3/6/92	3	1		177	N
1	3/6/92	4	1		169	N
1	3/6/92	5	1		161	N
1	3/6/92	6	1		81	N
1	3/14/92	1	1		185	Y
1	3/14/92	3	1		178	N
1	3/14/92	4	1		169	N
1	3/14/92	5	1		161	N
1	3/14/92	6	1		83	N
1	3/22/92	1	1		183	Y
1	3/22/92	3	1		171	N
1	3/22/92	4	1		163	N
1	3/22/92	5	1		159	N
1	3/22/92	6	1		81	N
1	3/28/92	1	1		184	Y
1	3/28/92	3	1		175	N
1	3/28/92	4	1		166	N
1	3/28/92	5	1		157	N
1	3/28/92	6	1		80	N
1	4/4/92	1	1		186	Y
1	4/4/92	3	1		178	N
1	4/4/92	4	1		170	N
1	4/4/92	5	1		161	N
1	4/4/92	6	1		84	N
1	4/9/92	1	1		189	Y
1	4/9/92	3	1		180	N
1	4/9/92	4	1		174	N
1	4/9/92	5	1		162	N
1	4/9/92	6	1		85	N
1	4/18/92	1	1		178	Y
1	4/18/92	3	1		170	N

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	4/18/92	4	1		167	N	
1	4/18/92	5	1		153	N	
1	4/18/92	6	1		77	N	
1	4/25/92	1	1		179	Y	
1	4/25/92	3	1		172	N	
1	4/25/92	4	1		168	N	
1	4/25/92	5	1		156	N	
1	4/25/92	6	1		80	N	
1	4/30/92	1	1		187	Y	J 90092741-79
1	4/30/92	3	1		177	N	
1	4/30/92	4	1		173	N	
1	4/30/92	5	1		162	N	
1	4/30/92	6	1		86	N	
1	5/9/92	1	1		181	Y	J TI-045
1	5/9/92	3	1		175	N	
1	5/9/92	4	1		166	N	
1	5/9/92	5	1		158	N	
1	5/9/92	6	1		84	N	
1	5/15/92	1	1		187	Y	J TI-037
1	5/15/92	3	1		178	N	
1	5/15/92	4	1		170	N	
1	5/15/92	5	1		162	N	
1	5/15/92	6	1		87	N	
1	5/20/92	1	1		186	Y	J 89042330-42
1	5/20/92	3	1		179	N	
1	5/20/92	4	1		170	N	
1	5/20/92	5	1		162	N	
1	5/20/92	6	1		87	N	
1	5/30/92	1	1		183	Y	J 900925741-79
1	5/30/92	3	1		177	N	
1	5/30/92	4	1		169	N	
1	5/30/92	5	1		160	N	
1	5/30/92	6	1		87	N	
1	6/8/92	1	1		180	Y	J 890423320-42
1	6/8/92	3	1		173	N	
1	6/8/92	4	1		165	N	
1	6/8/92	5	1		156	N	
1	6/8/92	6	1		85	N	
1	6/13/92	1	1		186	Y	J 900925741-79
1	6/13/92	3	1		179	N	
1	6/13/92	4	1		176	N	
1	6/13/92	5	1		161	N	
1	6/13/92	6	1		89	N	
1	6/19/92	1	1		179	Y	J 890423320-42
1	6/19/92	3	1		174	N	
1	6/19/92	4	1		176	N	
1	6/19/92	5	1		157	N	
1	6/19/92	6	1		86	N	
1	6/25/92	1	1		180	Y	J 890423320-42
1	6/25/92	3	1		173	N	
1	6/25/92	4	1		165	N	
1	6/25/92	5	1		156	N	
1	6/25/92	6	1		87	N	
1	7/4/92	1	1		180	Y	J 890523512-47
1	7/4/92	3	1		174	N	
1	7/4/92	4	1		166	N	
1	7/4/92	5	1		156	N	
1	7/4/92	6	1		88	N	
1	7/8/92	1	1		179	Y	J 890523512-47
1	7/8/92	3	1		173	N	
1	7/8/92	4	1		167	N	
1	7/8/92	5	1		156	N	
1	7/8/92	6	1		87	N	
1	7/17/92	1	1		179	Y	J 890523512-47
1	7/17/92	3	1		173	N	
1	7/17/92	4	1		165	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	7/17/92	5	1		155	N	
1	7/17/92	6	1		88	N	
1	7/23/92	1	1		178	Y	J 890523512-47
1	7/23/92	3	1		173	N	
1	7/23/92	4	1		161	N	
1	7/23/92	5	1		158	N	
1	7/23/92	6	1		89	N	
1	7/30/92	1	1		178	Y	J 890523512-47
1	7/30/92	3	1		174	N	
1	7/30/92	4	1		172	N	
1	7/30/92	5	1		158	N	
1	7/30/92	6	1		89	N	
1	8/6/92	1	1		182	Y	J 890523512-47
1	8/6/92	3	1		177	N	
1	8/6/92	4	1		169	N	
1	8/6/92	5	1		162	N	
1	8/6/92	6	1		94	N	
1	8/13/92	1	1		182	Y	J 910126143-29
1	8/13/92	3	1		177	N	
1	8/13/92	4	1		170	N	
1	8/13/92	5	1		162	N	
1	8/13/92	6	1		94	N	
1	8/21/92	1	1		182	Y	J 890523512-47
1	8/21/92	3	1		176	N	
1	8/21/92	4	1		168	N	
1	8/21/92	5	1		161	N	
1	8/21/92	6	1		95	N	
1	8/27/92	1	1		180	Y	J 890523512-47
1	8/27/92	3	1		177	N	
1	8/27/92	4	1		168	N	
1	8/27/92	5	1		162	N	
1	8/27/92	6	1		95	N	
1	9/3/92	1	1		180	Y	J 890523512-47
1	9/3/92	3	1		176	N	
1	9/3/92	4	1		168	N	
1	9/3/92	5	1		161	N	
1	9/3/92	6	1		94	N	
1	9/9/92	1	1		180	Y	J 910126143-29 TC#2 O/S
1	9/9/92	3	1		177	N	
1	9/9/92	4	1		169	N	
1	9/9/92	5	1		160	N	
1	9/9/92	6	1		92	N	
1	9/18/92	1	1		180	Y	J 890523512-47
1	9/18/92	3	1		176	N	
1	9/18/92	4	1		168	N	
1	9/18/92	5	1		161	N	
1	9/18/92	6	1		94	N	
1	9/25/92	1	1		183	Y	J 910126143-42
1	9/25/92	3	1		177	N	
1	9/25/92	4	1		170	N	
1	9/25/92	5	1		162	N	
1	9/25/92	6	1		94	N	
1	10/1/92	1	1		180	Y	J 890523512-47
1	10/1/92	3	1		177	N	
1	10/1/92	4	1		170	N	
1	10/1/92	5	1		163	N	
1	10/1/92	6	1		94	N	
1	10/8/92	1	1		180	Y	J 890523512-47
1	10/8/92	3	1		176	N	
1	10/8/92	4	1		169	N	
1	10/8/92	5	1		161	N	
1	10/8/92	6	1		92	N	
1	10/15/92	1	1		181	Y	J 910126143-50
1	10/15/92	3	1		178	N	
1	10/15/92	4	1		170	N	
1	10/15/92	5	1		163	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/15/92	6	1		93	N	
1	10/22/92	1	1		181	Y	J 890523512-47
1	10/22/92	3	1		176	N	
1	10/22/92	4	1		169	N	
1	10/22/92	5	1		162	N	
1	10/22/92	6	1		92	N	
1	10/30/92	1	1		181	Y	J 910126143-50
1	10/30/92	3	1		177	N	
1	10/30/92	4	1		162	N	
1	10/30/92	5	1		162	N	
1	10/30/92	6	1		91	N	
1	11/7/92	1	1		184	Y	J 817-13-20-019293
1	11/7/92	3	1		177	N	
1	11/7/92	4	1		168	N	
1	11/7/92	5	1		162	N	
1	11/7/92	6	1		91	N	
1	11/13/92	1	1		185	Y	J 910126143-50
1	11/13/92	3	1		180	N	
1	11/13/92	4	1		168	N	
1	11/13/92	5	1		164	N	
1	11/13/92	6	1		92	N	
1	11/19/92	1	1		185	Y	J 817-13-20-019
1	11/19/92	3	1		176	N	
1	11/19/92	4	1		168	N	
1	11/19/92	5	1		163	N	
1	11/19/92	6	1		90	N	
1	11/25/92	1	1		185	Y	J 910126143-50
1	11/25/92	3	1		179	N	
1	11/25/92	4	1		170	N	
1	11/25/92	5	1		164	N	
1	11/25/92	6	1		90	N	
1	12/3/92	1	1		184	Y	J 910126143-32
1	12/3/92	3	1		178	N	
1	12/3/92	4	1		169	N	
1	12/3/92	5	1		165	N	
1	12/3/92	6	1		90	N	
1	12/11/92	1	1		187	Y	J 910126143-32
1	12/11/92	3	1		178	N	
1	12/11/92	4	1		169	N	
1	12/11/92	5	1		163	N	
1	12/11/92	6	1		88	N	
1	12/20/92	1	1		185	Y	J 91012614332
1	12/20/92	3	1		178	N	
1	12/20/92	4	1		169	N	
1	12/20/92	5	1		163	N	
1	12/20/92	6	1		86	N	
1	12/27/92	1	1		188	Y	J 910126143-32
1	12/27/92	3	1		181	N	
1	12/27/92	4	1		174	N	
1	12/27/92	5	1		166	N	
1	12/27/92	6	1		89	N	
1	12/31/92	1	1		186	Y	J 91012614332
1	12/31/92	3	1		179	N	
1	12/31/92	4	1		172	N	
1	12/31/92	5	1		164	N	
1	12/31/92	6	1		86	N	
1	1/7/93	1	1		183	Y	J 91012143-29
1	1/7/93	3	1		177	N	
1	1/7/93	4	1		169	N	
1	1/7/93	5	1		162	N	
1	1/7/93	6	1		83	N	
1	1/20/93	1	1		185	Y	J 910126143-32
1	1/20/93	3	1		177	N	
1	1/20/93	4	1		169	N	
1	1/20/93	5	1		162	N	
1	1/20/93	6	1		83	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	1/23/93	1	1		185	Y	K 910426539-80
1	1/23/93	3	1		177	N	
1	1/23/93	4	1		169	N	
1	1/23/93	5	1		162	N	
1	1/23/93	6	1		82	N	
1	1/31/93	1	1		184	Y	J 910126143-29
1	1/31/93	3	1		178	N	
1	1/31/93	4	1		168	N	
1	1/31/93	5	1		160	N	
1	1/31/93	6	1		82	N	
1	2/5/93	1	1		184	Y	J 910126143-32
1	2/5/93	3	1		178	N	
1	2/5/93	4	1		170	N	
1	2/5/93	5	1		164	N	
1	2/5/93	6	1		82	N	
1	2/11/93	1	1			N	OUT OF SERVICE
1	2/13/93	1	1		185	Y	J 910126143-42
1	2/13/93	3	1		176	N	
1	2/13/93	4	1		168	N	
1	2/13/93	5	1		161	N	
1	2/13/93	6	1		81	N	
1	2/18/93	1	1		184	Y	J 910126143-29
1	2/18/93	3	1		176	N	
1	2/18/93	4	1		169	N	
1	2/18/93	5	1		162	N	
1	2/18/93	6	1		80	N	
1	2/26/93	1	1		185	Y	J 910126143-66
1	2/26/93	3	1		178	N	
1	2/26/93	4	1		170	N	
1	2/26/93	5	1		162	N	
1	2/26/93	6	1		82	N	
1	3/4/93	1	1		180	Y	J 817-13-20-019
1	3/4/93	3	1		176	N	
1	3/4/93	4	1		168	N	
1	3/4/93	5	1		160	N	
1	3/4/93	6	1		80	N	
1	3/11/93	1	1		182	Y	J 910126143-66
1	3/11/93	3	1		175	N	
1	3/11/93	4	1		168	N	
1	3/11/93	5	1		160	N	
1	3/11/93	6	1		80	N	
1	3/19/93	1	1		183	Y	J 910126143-66
1	3/19/93	3	1		178	N	
1	3/19/93	4	1		170	N	
1	3/19/93	5	1		163	N	
1	3/19/93	6	1		82	N	
1	3/27/93	1	1		183	Y	
1	3/27/93	3	1		176	N	
1	3/27/93	4	1		166	N	
1	3/27/93	5	1		159	N	
1	3/27/93	6	1		82	N	
1	4/1/93	1	1		178	Y	J 8904-23320-42
1	4/1/93	3	1		172	N	
1	4/1/93	4	1		162	N	
1	4/1/93	5	1		156	N	
1	4/1/93	6	1		78	N	
1	4/8/93	1	1		181	Y	J 0126143-14
1	4/8/93	2	1			N	OUT OF SERVICE
1	4/8/93	3	1		174	N	
1	4/8/93	4	1		165	N	
1	4/8/93	5	1		158	N	
1	4/8/93	6	1		80	N	
1	4/15/93	1	1		184	Y	J 910126143-66
1	4/15/93	3	1		176	N	
1	4/15/93	4	1		168	N	
1	4/15/93	5	1		161	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/15/93	6	1		83	N	
1	4/21/93	1	1		181	Y	J 910126143-66 TC#2 O/S
1	4/21/93	3	1		175	N	
1	4/21/93	4	1		167	N	
1	4/21/93	5	1		160	N	
1	4/21/93	6	1		82	N	
1	4/23/93	1	1		182	Y	J 910126143-66
1	4/23/93	3	1		175	N	
1	4/23/93	4	1		167	N	
1	4/23/93	5	1		159	N	
1	4/23/93	6	1		82	N	
1	4/29/93	1	1		182	Y	J 910126143-66
1	4/29/93	3	1		175	N	
1	4/29/93	4	1		167	N	
1	4/29/93	5	1		159	N	
1	4/29/93	6	1		81	N	
1	5/6/93	1	1		181	Y	J 910126143-66
1	5/6/93	3	1		174	N	
1	5/6/93	4	1		167	N	
1	5/6/93	5	1		159	N	
1	5/6/93	6	1		82	N	
1	5/13/93	1	1		181	Y	J 910126143-66 TC#6 suspect data no recheck requested
1	5/13/93	3	1		174	N	
1	5/13/93	4	1		167	N	
1	5/13/93	5	1		158	N	
1	5/20/93	1	1		181	Y	J 910126143-66 TC 2 OS
1	5/20/93	3	1		174	N	
1	5/20/93	4	1		167	N	
1	5/20/93	5	1		159	N	
1	5/20/93	6	1		85	N	
1	5/27/93	1	1		178	Y	J 890432320-42 TC 2 O/S
1	5/27/93	3	1		172	N	
1	5/27/93	4	1		165	N	
1	5/27/93	5	1		157	N	
1	5/27/93	6	1		82	N	
1	6/3/93	1	1		181	Y	J-817-13-20-019
1	6/3/93	3	1		174	N	
1	6/3/93	4	1		168	N	
1	6/3/93	5	1		159	N	
1	6/3/93	6	1		86	N	
1	6/10/93	1	1		181	Y	J 910126143-32 TC 2 O/S
1	6/10/93	3	1		175	N	
1	6/10/93	4	1		168	N	
1	6/10/93	5	1		160	N	
1	6/10/93	6	1		85	N	
1	6/18/93	1	1		180	Y	J TC 2 O/S
1	6/18/93	3	1		175	N	
1	6/18/93	4	1		168	N	
1	6/18/93	5	1		159	N	
1	6/18/93	6	1		85	N	
1	6/27/93	1	1		181	Y	J 910126143-32 TC 2 O/S
1	6/27/93	3	1		176	N	
1	6/27/93	4	1		168	N	
1	6/27/93	5	1		160	N	
1	6/27/93	6	1		87	N	
1	7/1/93	1	1		177	Y	J 890432230-42 TC 2 O/S
1	7/1/93	3	1		172	N	
1	7/1/93	4	1		164	N	
1	7/1/93	5	1		156	N	
1	7/1/93	6	1		85	N	
1	7/8/93	1	1		177	Y	J 890423320-42 TC 2 O/S
1	7/8/93	3	1		172	N	
1	7/8/93	4	1			N	97.5 - suspect data (low)
1	7/8/93	5	1		92	N	
1	7/8/93	6	1		77	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	7/16/93	1	1		177	Y	TYPE J 890423320-42
1	7/16/93	3	1		165	N	
1	7/16/93	4	1		162	N	
1	7/16/93	5	1		157	N	
1	7/16/93	6	1		88	N	
1	7/22/93	1	1		178	Y	J 0126143-14 TC-2 O/S
1	7/22/93	3	1		171	N	
1	7/22/93	4	1		165	N	
1	7/22/93	5	1		158	N	
1	7/22/93	6	1		89	N	
1	7/29/93	1	1		178	Y	J 910126143-14 TC#2 O/S
1	7/29/93	3	1		173	N	
1	7/29/93	4	1		165	N	
1	7/29/93	5	1		158	N	
1	7/29/93	6	1		90	N	
1	8/5/93	1	1		176	Y	J 890423320-42 TC# 2 O/S
1	8/5/93	3	1		172	N	
1	8/5/93	4	1		165	N	
1	8/5/93	5	1		157	N	
1	8/5/93	6	1		89	N	
1	8/13/93	1	1		177	Y	J89042332042 TC 2 O/S suspect data TC 6
1	8/13/93	3	1		172	N	
1	8/13/93	4	1		164	N	
1	8/13/93	5	1		156	N	
1	8/19/93	1	1		176	Y	J 89062330-42 TC 2 O/S
1	8/19/93	3	1		169	N	
1	8/19/93	4	1		164	N	
1	8/19/93	5	1		156	N	
1	8/19/93	6	1		88	N	
1	8/27/93	1	1		184	Y	J 910126143-66 TC 2 O/S
1	8/27/93	3	1		178	N	
1	8/27/93	4	1		170	N	
1	8/27/93	5	1		162	N	
1	8/27/93	6	1		93	N	
1	9/3/93	1	1		182	Y	J 910126143-66 TC 23 O/S
1	9/3/93	4	1		170	N	
1	9/3/93	5	1		162	N	
1	9/3/93	6	1		94	N	
1	9/12/93	1	1		184	Y	J TI-042 TC 2 O/S
1	9/12/93	3	1		178	N	
1	9/12/93	4	1		170	N	
1	9/12/93	5	1		162	N	
1	9/12/93	6	1		94	N	
1	9/20/93	1	1		177	Y	J 910126143-50 TC 2 O/S
1	9/20/93	3	1		172	N	
1	9/20/93	4	1		164	N	
1	9/20/93	5	1		156	N	
1	9/20/93	6	1		89	N	
1	9/27/93	1	1		179	Y	J 890423320-42 TC 2 O/S
1	9/27/93	1	2		178	Y	HDAT TC 2 O/S
1	9/27/93	3	1		172	N	
1	9/27/93	3	2		172	N	
1	9/27/93	4	1		164	N	
1	9/27/93	4	2		163	N	
1	9/27/93	5	1		157	N	
1	9/27/93	5	2		157	N	
1	9/27/93	6	1		90	N	
1	9/27/93	6	2		90	N	
1	10/5/93	1	1		181	Y	J 910126143-48 TC 2 O/S
1	10/5/93	3	1		175	N	
1	10/5/93	4	1		167	N	
1	10/5/93	5	1		159	N	
1	10/5/93	6	1		92	N	
1	10/11/93	1	1		180	Y	J 910126143-48 TC 2 O/S
1	10/11/93	3	1			N	114.2 - suspect data (low)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/11/93	4	1		166	N	
1	10/11/93	5	1		158	N	
1	10/11/93	6	1		91	N	
1	10/18/93	1	1		176	Y	J 910126143-14 TC 2 O/S
1	10/18/93	3	1		172	N	
1	10/18/93	4	1		165	N	
1	10/18/93	5	1		156	N	
1	10/18/93	6	1		91	N	
1	10/27/93	1	1		181	Y	J 91012614348 TC 2 O/S
1	10/27/93	3	1		175	N	
1	10/27/93	4	1		167	N	
1	10/27/93	5	1		160	N	
1	10/27/93	6	1		91	N	
1	11/1/93	1	1		180	Y	J 910126143-29 TC 2 O/S
1	11/1/93	3	1		174	N	
1	11/1/93	4	1		166	N	
1	11/1/93	5	1		159	N	
1	11/1/93	6	1		90	N	
1	11/8/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	11/8/93	3	1		175	N	
1	11/8/93	4	1		168	N	
1	11/8/93	5	1		160	N	
1	11/8/93	6	1		89	N	
1	11/17/93	1	1		181	Y	J TI-041 TC 2 O/S
1	11/17/93	3	1		175	N	
1	11/17/93	4	1		168	N	
1	11/17/93	5	1		160	N	
1	11/17/93	6	1		89	N	
1	11/23/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	11/23/93	3	1		175	N	
1	11/23/93	4	1		168	N	
1	11/23/93	5	1		160	N	
1	11/23/93	6	1		91	N	
1	11/29/93	1	1		181	Y	J-91026143-29 TC 2 NG
1	11/29/93	1	2		182	Y	J-910126143-29 TC 2 O/S
1	11/29/93	3	1		173	N	
1	11/29/93	3	2		174	N	
1	11/29/93	4	1		168	N	
1	11/29/93	4	2		168	N	
1	11/29/93	5	1		160	N	
1	11/29/93	5	2		160	N	
1	11/29/93	6	1		92	N	
1	11/29/93	6	2		92	N	
1	12/7/93	1	1		180	Y	J 910126143-29 TC 2 O/S
1	12/7/93	3	1		175	N	
1	12/7/93	4	1		164	N	
1	12/7/93	5	1		160	N	
1	12/7/93	6	1		92	N	
1	12/14/93	1	1		182	Y	J 910126143-29 TC 2 O/S
1	12/14/93	3	1		175	N	
1	12/14/93	4	1		165	N	
1	12/14/93	5	1		160	N	
1	12/14/93	6	1		92	N	
1	12/20/93	1	1		182	Y	J 910126143-29 TC 2 O/S
1	12/20/93	1	2		181	Y	J 910126143-29 TC 2 O/S
1	12/20/93	3	1		175	N	
1	12/20/93	3	2		175	N	
1	12/20/93	4	1		167	N	
1	12/20/93	4	2		166	N	
1	12/20/93	5	1		160	N	
1	12/20/93	5	2		160	N	
1	12/20/93	6	1		92	N	
1	12/20/93	6	2		92	N	
1	12/21/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	12/21/93	1	2		182	Y	J 910126143-29 TC 2 O/S
1	12/21/93	3	1		175	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	12/21/93	3	2		176	N	
1	12/21/93	4	1		166	N	
1	12/21/93	4	2		167	N	
1	12/21/93	5	1		160	N	
1	12/21/93	5	2		166	N	
1	12/21/93	6	1		92	N	
1	12/21/93	6	2		92	N	
1	12/22/93	1	1		182	Y	J910126143-29 TC 2 O/S
1	12/22/93	3	1		176	N	
1	12/22/93	4	1		164	N	
1	12/22/93	5	1		165	N	
1	12/22/93	6	1		93	N	
1	12/23/93	1	1		181	Y	J 91012643-29 TC 2 O/S
1	12/23/93	3	1		175	N	
1	12/23/93	4	1		166	N	
1	12/23/93	5	1		159	N	
1	12/23/93	6	1		91	N	
1	12/24/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	12/24/93	3	1		176	N	
1	12/24/93	4	1		167	N	
1	12/24/93	5	1		160	N	
1	12/24/93	6	1		92	N	
1	12/25/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	12/25/93	3	1		175	N	
1	12/25/93	4	1		167	N	
1	12/25/93	5	1		160	N	
1	12/25/93	6	1		92	N	
1	12/26/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	12/26/93	3	1		175	N	
1	12/26/93	4	1		166	N	
1	12/26/93	5	1		160	N	
1	12/26/93	6	1		92	N	
1	12/27/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	12/27/93	3	1		175	N	
1	12/27/93	4	1		167	N	
1	12/27/93	5	1		160	N	
1	12/27/93	6	1		92	N	
1	12/28/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	12/28/93	3	1		175	N	
1	12/28/93	4	1		167	N	
1	12/28/93	5	1		160	N	
1	12/28/93	6	1		91	N	
1	12/29/93	1	1		181	Y	J 910126143-29 TC 2 O/S
1	12/29/93	1	2		178	Y	J 910126143-29 TC 2 O/S
1	12/29/93	1	3		182	Y	TYPE J TC 2 O/S
1	12/29/93	1	4		182	Y	J 91012614332 TC 2 O/S
1	12/29/93	3	1		175	N	
1	12/29/93	3	2		172	N	
1	12/29/93	3	3		176	N	
1	12/29/93	3	4		176	N	
1	12/29/93	4	1		167	N	
1	12/29/93	4	2		164	N	
1	12/29/93	4	3		168	N	
1	12/29/93	4	4		168	N	
1	12/29/93	5	1		160	N	
1	12/29/93	5	2		158	N	
1	12/29/93	5	3		161	N	
1	12/29/93	5	4		161	N	
1	12/29/93	6	1		91	N	
1	12/29/93	6	2		89	N	
1	12/29/93	6	3		91	N	
1	12/29/93	6	4		91	N	
1	12/30/93	1	1		182	Y	J 910126143-32 TC 2 O/S
1	12/30/93	1	2		182	Y	J 910126143-32 TC 2 O/S
1	12/30/93	3	1		176	N	
1	12/30/93	3	2		176	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-105							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/30/93	4	1		167	N	
1	12/30/93	4	2		168	N	
1	12/30/93	5	1		160	N	
1	12/30/93	5	2		160	N	
1	12/30/93	6	1		90	N	
1	12/30/93	6	2		90	N	
1	12/31/93	1	1		182	Y	J 910126143-32 TC 2 O/S
1	12/31/93	3	1		176	N	
1	12/31/93	4	1		168	N	
1	12/31/93	5	1		161	N	
1	12/31/93	6	1		91	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/20/74	1		43.89	111.002		raw data - assumed degree C
1	10/20/74	2		43.89	111.002		raw data - assumed degree C
1	10/20/74	3		43.89	111.002		raw data - assumed degree C
1	10/20/74	4		43.33	109.994		raw data - assumed degree C
1	10/20/74	5		43.33	109.994		raw data - assumed degree C
1	10/20/74	6		42.78	109.004		raw data - assumed degree C
1	10/20/74	7		41.67	107.006		raw data - assumed degree C
1	10/20/74	8		40	104		raw data - assumed degree C
1	10/20/74	9		37.78	100.004		raw data - assumed degree C
1	10/20/74	10		36.11	96.998		raw data - assumed degree C
1	10/20/74	11		35.56	96.008		raw data - assumed degree C
1	10/20/74	12		35.56	96.008		raw data - assumed degree C
1	12/2/74	1		43.89	111.002		raw data - assumed degree C
1	12/2/74	2		43.89	111.002		raw data - assumed degree C
1	12/2/74	3		43.89	111.002		raw data - assumed degree C
1	12/2/74	4		43.89	111.002		raw data - assumed degree C
1	12/2/74	5		43.33	109.994		raw data - assumed degree C
1	12/2/74	6		42.78	109.004		raw data - assumed degree C
1	12/2/74	7		41.11	105.998		raw data - assumed degree C
1	12/2/74	8		39.44	102.992		raw data - assumed degree C
1	12/2/74	9		36.67	98.006		raw data - assumed degree C
1	12/2/74	10		22.78	73.004		raw data - assumed degree C
1	12/2/74	11		22.78	73.004		raw data - assumed degree C
1	12/2/74	12		22.78	73.004		raw data - assumed degree C
1	1/3/75	1			107		
1	1/3/75	2			104		
1	1/3/75	3			104		
1	1/3/75	4			93		
1	1/3/75	5			91		
1	1/3/75	6			91		
1	1/3/75	7			91		
1	1/3/75	8			91		
1	1/3/75	9			91		
1	1/3/75	10			91		
1	1/3/75	11			91		
1	1/3/75	12			91		
1	1/20/76	1			94		
1	1/20/76	2			88		
1	1/20/76	3			87		
1	1/20/76	4			87		
1	1/20/76	5			87		
1	1/20/76	6			87		
1	1/20/76	7			87		
1	1/20/76	8			87		
1	1/20/76	9			87		
1	1/20/76	10			87		
1	1/20/76	11			87		
1	1/20/76	12			87		
1	1/20/76	13			87		
1	1/20/76	14			87		
1	3/5/76	1			89		
1	3/5/76	2			82		
1	3/5/76	3			81		
1	3/5/76	4			79		
1	3/5/76	5			79		
1	3/5/76	6			79		
1	3/5/76	7			81		
1	3/5/76	8			81		
1	3/5/76	9			81		
1	3/5/76	10			81		
1	3/5/76	11			81		
1	3/5/76	12			81		
1	4/3/76	1			88		
1	4/3/76	2			84		
1	4/3/76	3			88		
1	4/3/76	4			84		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
1	4/3/76	5			84	
1	4/3/76	6			84	
1	4/3/76	7			83	
1	4/3/76	8			83	
1	4/3/76	9			84	
1	2/26/77	1			125	
1	2/26/77	2			130	
1	2/26/77	3			135	
1	2/26/77	4			140	
1	2/26/77	5			140	
1	2/26/77	6			140	
1	2/26/77	7			134	
1	2/26/77	8			124	
1	2/26/77	9			116	
1	2/26/77	10			116	
1	2/26/77	11			116	
1	2/26/77	12			116	
1	2/26/77	13			116	
1	2/26/77	14			116	
1	3/16/77	1			111	
1	3/16/77	2			126	
1	3/16/77	3			128	
1	3/16/77	4			131	
1	3/16/77	5			133	
1	3/16/77	6			133	
1	3/16/77	7			130	
1	3/16/77	8			124	
1	3/16/77	9			124	
1	3/16/77	10			124	
1	3/16/77	11			124	
1	3/16/77	12			117	
1	3/16/77	13			116	
1	3/16/77	14			116	
1	3/26/77	1			175	
1	3/26/77	2			130	
1	3/26/77	3			135	
1	3/26/77	4			140	
1	3/26/77	5			140	
1	3/26/77	6			140	
1	3/26/77	7			134	
1	3/26/77	8			124	
1	3/26/77	9			116	
1	3/26/77	10			116	
1	3/26/77	11			116	
1	3/26/77	12			116	
1	3/26/77	13			116	
1	3/26/77	14			116	
1	4/3/77	1			125	
1	4/3/77	2			130	
1	4/3/77	3			133	
1	4/3/77	4			135	
1	4/3/77	5			135	
1	4/3/77	6			135	
1	4/3/77	7			131	
1	4/3/77	8			128	
1	4/3/77	9			118	
1	4/3/77	10			118	
1	4/3/77	11			117	
1	4/3/77	12			117	
1	4/3/77	13			117	
1	4/3/77	14			117	
1	4/9/77	1			125	
1	4/9/77	2			130	
1	4/9/77	3			135	
1	4/9/77	4			135	
1	4/9/77	5			135	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/9/77	6			135		
1	4/9/77	7			130		
1	4/9/77	8			120		
1	4/9/77	9			116		
1	4/9/77	10			116		
1	4/9/77	11			116		
1	4/9/77	12			116		
1	5/1/77	1			130		
1	5/1/77	2			133		
1	5/1/77	3			136		
1	5/1/77	4			139		
1	5/1/77	5			139		
1	5/1/77	6			136		
1	5/1/77	7			130		
1	5/1/77	8			116		
1	5/1/77	9			116		
1	5/1/77	10			116		
1	5/1/77	11			116		
1	5/1/77	12			116		
1	6/7/77	1			132		
1	6/7/77	2			138		
1	6/7/77	3			142		
1	6/7/77	4			145		
1	6/7/77	5			143		
1	6/7/77	6			138		
1	6/7/77	7			130		
1	6/7/77	8			116		
1	6/7/77	9			115		
1	6/7/77	10			115		
1	6/7/77	11			115		
1	6/7/77	12			115		
1	6/13/77	1			132		
1	6/13/77	2			138		
1	6/13/77	3			142		
1	6/13/77	4			145		
1	6/13/77	5			143		
1	6/13/77	6			138		
1	6/13/77	7			130		
1	6/13/77	8			116		
1	6/13/77	9			115		
1	6/13/77	10			115		
1	6/13/77	11			115		
1	6/13/77	12			115		
1	7/11/77	1			132		
1	7/11/77	2			135		
1	7/11/77	3			135		
1	7/11/77	4			135		
1	7/11/77	5			134		
1	7/11/77	6			132		
1	7/11/77	7			128		
1	7/11/77	8			123		
1	7/11/77	9			118		
1	7/11/77	10			118		
1	7/11/77	11			118		
1	7/11/77	12			118		
1	8/5/77	1			134		
1	8/5/77	2			138		
1	8/5/77	3			140		
1	8/5/77	4			140		
1	8/5/77	5			140		
1	8/5/77	6			139		
1	8/5/77	7			135		
1	8/5/77	8			127		
1	8/5/77	9			118		
1	8/5/77	10			118		
1	8/5/77	11			118		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	8/5/77	12			118		
1	8/23/77	1			135		
1	8/23/77	2			140		
1	8/23/77	3			142		
1	8/23/77	4			142		
1	8/23/77	5			140		
1	8/23/77	6			135		
1	8/23/77	7			126		
1	8/23/77	8			119		
1	8/23/77	9			119		
1	8/23/77	10			119		
1	8/23/77	11			119		
1	8/23/77	12			119		
1	9/5/77	1			136		
1	9/5/77	2			141		
1	9/5/77	3			143		
1	9/5/77	4			144		
1	9/5/77	5			142		
1	9/5/77	6			136		
1	9/5/77	7			127		
1	9/5/77	8			119		
1	9/5/77	9			119		
1	9/5/77	10			119		
1	9/5/77	11			119		
1	9/5/77	12			119		
1	9/5/77	13			119		
1	9/5/77	14			119		
1	10/3/77	1			137		
1	10/3/77	2			143		
1	10/3/77	3			145		
1	10/3/77	4			145		
1	10/3/77	5			144		
1	10/3/77	6			138		
1	10/3/77	7			126		
1	10/3/77	8			126		
1	10/3/77	9			120		
1	10/3/77	10			120		
1	10/3/77	11			120		
1	10/3/77	12			120		
1	10/3/77	13			120		
1	10/3/77	14			120		
1	10/3/77	15			120		
1	10/3/77	16			117		
1	11/3/77	1			140		
1	11/3/77	2			145		
1	11/3/77	3			148		
1	11/3/77	4			148		
1	11/3/77	5			145		
1	11/3/77	6			138		
1	11/3/77	7			126		
1	11/3/77	8			118		
1	11/3/77	9			118		
1	11/3/77	10			118		
1	11/3/77	11			118		
1	11/3/77	12			118		
1	11/3/77	13			118		
1	11/3/77	14			118		
1	12/4/77	1			140		
1	12/4/77	2			150		
1	12/4/77	3			150		
1	12/4/77	4			150		
1	12/4/77	5			150		
1	12/4/77	6			140		
1	12/4/77	7			125		
1	12/4/77	8			120		
1	12/4/77	9			120		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	12/4/77	10			120		
1	12/4/77	11			120		
1	12/15/77	1			143		
1	12/15/77	2			150		
1	12/15/77	3			153		
1	12/15/77	4			153		
1	12/15/77	5			149		
1	12/15/77	6			146		
1	12/15/77	7			126		
1	12/15/77	8			118		
1	12/15/77	9			118		
1	12/15/77	10			118		
1	12/15/77	11			118		
1	12/15/77	12			118		
1	2/2/78	1			145		
1	2/2/78	2			152		
1	2/2/78	3			155		
1	2/2/78	4			155		
1	2/2/78	5			150		
1	2/2/78	6			139		
1	2/2/78	7			124		
1	2/2/78	8			116		
1	2/2/78	9			116		
1	2/2/78	10			116		
1	2/2/78	11			116		
1	2/2/78	12			116		
1	2/2/78	13			116		
1	2/2/78	14			116		
1	3/9/78	1			140		
1	3/9/78	2			137		
1	3/9/78	3			130		
1	3/9/78	4			120		
1	3/9/78	5			114		
1	3/9/78	6			111		
1	3/9/78	7			111		
1	3/9/78	8			111		
1	3/9/78	9			111		
1	3/9/78	10			111		
1	3/9/78	11			111		
1	4/11/78	1			135		
1	4/11/78	2			134		
1	4/11/78	3			124		
1	4/11/78	4			110		
1	4/11/78	5			109		
1	4/11/78	6			106		
1	4/11/78	7			106		
1	4/11/78	8			106		
1	4/11/78	9			106		
1	4/11/78	10			106		
1	4/11/78	11			106		
1	4/11/78	12			106		
1	4/11/78	13			106		
1	4/11/78	14			106		
1	5/15/78	1			135		
1	5/15/78	2			133		
1	5/15/78	3			123		
1	5/15/78	4			110		
1	5/15/78	5			109		
1	5/15/78	6			105		
1	5/15/78	7			105		
1	5/15/78	8			105		
1	5/15/78	9			105		
1	5/15/78	10			105		
1	5/15/78	11			105		
1	5/15/78	12			105		
1	6/1/78	1			135		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
1	6/1/78	2			130	
1	6/1/78	3			120	
1	6/1/78	4			110	
1	6/1/78	5			105	
1	6/1/78	6			103	
1	6/1/78	7			103	
1	6/1/78	8			103	
1	6/1/78	9			103	
1	6/1/78	10			103	
1	6/1/78	11			103	
1	7/8/78	1			130	
1	7/8/78	2			125	
1	7/8/78	3			109	
1	7/8/78	4			105	
1	7/8/78	5			105	
1	7/8/78	6			105	
1	7/8/78	7			105	
1	7/8/78	8			105	
1	7/8/78	9			105	
1	7/8/78	10			105	
1	7/8/78	11			105	
1	8/14/78	1			126	
1	8/14/78	2			126	
1	8/14/78	3			107	
1	8/14/78	4			104	
1	8/14/78	5			104	
1	8/14/78	6			104	
1	8/14/78	7			104	
1	8/14/78	8			104	
1	8/14/78	9			104	
1	8/14/78	10			104	
1	8/14/78	11			104	
1	9/4/78	1			124	
1	9/4/78	2			118	
1	9/4/78	3			106	
1	9/4/78	4			102	
1	9/4/78	5			102	
1	9/4/78	6			102	
1	9/4/78	7			102	
1	9/4/78	8			102	
1	9/4/78	9			102	
1	9/4/78	10			102	
1	9/4/78	11			102	
1	9/4/78	12			102	
1	9/4/78	13			102	
1	9/4/78	14			102	
1	10/6/78	1			122	
1	10/6/78	2			118	
1	10/6/78	3			109	
1	10/6/78	4			101	
1	10/6/78	5			95	
1	10/6/78	6			95	
1	10/6/78	7			95	
1	10/6/78	8			94	
1	10/6/78	9			89	
1	10/6/78	10			88	
1	10/6/78	11			90	
1	10/6/78	12			91	
1	10/6/78	13			91	
1	10/6/78	14			91	
1	9/19/80	1			134	
1	9/19/80	2			134	
1	9/19/80	3			139	
1	9/19/80	4			141	
1	9/19/80	5			140	
1	9/19/80	6			115	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP
1	9/19/80	7			117	
1	9/19/80	8			120	
1	9/19/80	9			120	
1	9/19/80	10				
1	9/19/80	11			120	
1	9/19/80	12			119	
1	9/19/80	13			110	
1	9/19/80	14			110	
1	9/19/80	15			113	
1	9/19/80	16			119	
1	2/7/81	1			147	
1	2/7/81	2			151	
1	2/7/81	3			153	
1	2/7/81	4			154	
1	2/7/81	5			152	
1	2/7/81	6			149	
1	2/7/81	7			134	
1	2/7/81	8			108	
1	2/7/81	9			107	
1	2/7/81	10			107	
1	2/7/81	11			108	
1	2/7/81	12				
1	2/7/81	13			108	
1	2/7/81	14				
1	2/7/81	15				
1	2/7/81	16			108	
1	1/13/82	1			138	
1	1/13/82	2			139	
1	1/13/82	3			137	
1	1/13/82	4			133	
1	1/13/82	5			133	
1	1/13/82	6			130	
1	1/13/82	7			110	
1	1/13/82	8			95	
1	1/13/82	9			94	
1	1/13/82	10			94	
1	1/13/82	11			94	
1	5/29/82	1			137	
1	5/29/82	2			137	
1	5/29/82	3			134	
1	5/29/82	4			130	
1	5/29/82	5			128	
1	5/29/82	6			125	
1	5/29/82	7			114	
1	5/29/82	8			100	
1	5/29/82	9			94	
1	5/29/82	10			94	
1	5/29/82	11			94	
1	5/29/82	12			95	
1	10/6/82	1			135	
1	10/6/82	2			135	
1	10/6/82	3			133	
1	10/6/82	4			129	
1	10/6/82	5			127	
1	10/6/82	6			124	
1	10/6/82	7			112	
1	10/6/82	8			93	
1	10/6/82	9			92	
1	10/6/82	10			93	
1	10/6/82	11			93	
1	10/6/82	12			94	
1	10/6/82	13			93	
1	10/6/82	14			93	
1	10/6/82	15			94	
1	10/6/82	16			93	
1	1/3/84	1			125	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/3/84	2			125		
1	1/3/84	3			125		
1	1/3/84	4			120		
1	1/3/84	5			120		
1	1/3/84	6			120		
1	1/3/84	7			107		
1	1/3/84	8			85		
1	1/3/84	9			72		
1	1/3/84	10			72		
1	1/3/84	11			72		
1	1/3/84	12					
1	1/3/84	13			72		
1	1/3/84	14			72		
1	1/3/84	15					
1	1/3/84	16			72		
1	2/13/84	1			134		
1	2/13/84	2			134		
1	2/13/84	3			133		
1	2/13/84	4			129		
1	2/13/84	5			124		
1	2/13/84	6			118		
1	2/13/84	7			105		
1	2/13/84	8			84		
1	2/13/84	9			71		
1	2/13/84	10			71		
1	2/13/84	11			71		
1	2/13/84	12			71		
1	2/13/84	13			72		
1	2/13/84	14			72		
1	2/14/84	1			136		
1	2/14/84	2			136		
1	2/14/84	3			136		
1	2/14/84	4			132		
1	2/14/84	5			127		
1	2/14/84	6			120		
1	2/14/84	7			107		
1	2/14/84	8			87		
1	2/14/84	9			74		
1	2/14/84	10			73		
1	2/14/84	11			73		
1	2/14/84	12			73		
1	2/14/84	13			74		
1	2/14/84	14			74		
1	7/13/84	1			132		
1	7/13/84	2			132		
1	7/13/84	3			130		
1	7/13/84	4			127		
1	7/13/84	5			121		
1	7/13/84	6			118		
1	7/13/84	7			107		
1	7/13/84	8			95		
1	7/13/84	9			89		
1	7/13/84	10			89		
1	7/13/84	11			89		
1	7/13/84	12			89		
1	7/13/84	13			89		
1	7/13/84	14			89		
1	9/7/84	1			131		
1	9/7/84	2			131		
1	9/7/84	3			130		
1	9/7/84	4			127		
1	9/7/84	5			123		
1	9/7/84	6			119		
1	9/7/84	7			110		
1	9/7/84	8			98		
1	9/7/84	9			92		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/7/84	10			92		
1	9/7/84	11			92		
1	9/7/84	12			92		
1	9/7/84	13			91		
1	9/7/84	14			92		
1	11/26/84	1			131		
1	11/26/84	2			138		
1	11/26/84	3			144		
1	11/26/84	4			147		
1	11/26/84	5			147		
1	11/26/84	6			143		
1	11/26/84	7			134		
1	11/26/84	8			112		
1	11/26/84	9			112		
1	11/26/84	10			112		
1	11/26/84	11			113		
1	11/26/84	12			113		
1	11/26/84	13			113		
1	11/26/84	14			113		
1	12/11/87	1			119.8		
1	12/11/87	2			117.1		
1	12/11/87	3			117.1		
1	12/11/87	4		49.1	120.38		raw data - assumed degree C
1	12/11/87	5			113.1		
1	12/11/87	6			88.7		
1	2/3/88	1	1		113.3	N	
1	2/3/88	2	1		109	N	
1	2/3/88	3	1		115.5	Y	
1	2/3/88	5	1		107.9	N	
1	2/3/88	6	1		73.7	N	
1	3/8/88	1	1		119.8	Y	
1	3/8/88	2	1		116.61	N	
1	3/8/88	3	1		115.5	N	
1	3/8/88	4	1		115.2	N	
1	3/8/88	5	1		114.3	N	
1	3/8/88	6	1		80.6	N	
1	4/4/88	1	1			N	o/s
1	4/18/88	1	1		101	Y	
1	4/18/88	2	1		100	N	
1	4/18/88	3	1		99	N	
1	4/18/88	4	1		100	N	
1	4/18/88	5	1		96	N	
1	4/18/88	6	1		75	N	
1	5/4/88	1	1		118	Y	
1	5/4/88	2	1		115	N	
1	5/4/88	3	1		114	N	
1	5/4/88	4	1		114	N	
1	5/4/88	5	1		112	N	
1	5/4/88	6	1		87	N	
1	5/16/88	1	1		118	Y	
1	5/16/88	2	1		115	N	
1	5/16/88	3	1		114	N	
1	5/16/88	4	1		114	N	
1	5/16/88	5	1		112	N	
1	5/16/88	6	1		87	N	
1	6/6/88	1	1			N	O/S
1	8/1/88	1	1		121	Y	
1	8/1/88	2	1		118	N	
1	8/1/88	3			119		
1	8/1/88	3	1		119	N	
1	8/1/88	4	1		117	N	
1	8/1/88	5	1		114	N	
1	8/1/88	6	1		97	N	
1	9/5/88	1	1		117	Y	
1	9/5/88	2	1		115	N	
1	9/5/88	3	1		115	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	9/5/88	4	1		113	N	
1	9/5/88	5	1		111	N	
1	9/5/88	6	1		88	N	
1	10/3/88	1	1		119	Y	
1	10/3/88	2	1		116	N	
1	10/3/88	3	1		116	N	
1	10/3/88	4	1		115	N	
1	10/3/88	5	1		112	N	
1	10/3/88	6	1		91	N	
1	12/5/88	1	1			N	O/S
1	1/6/89	1	1		119.8	Y	
1	1/6/89	2	1		116.7	N	
1	1/6/89	3	1		119.3	N	
1	1/6/89	4	1		119.4	N	
1	1/6/89	5	1		114.9	N	
1	1/6/89	6	1		86.1	N	
1	2/7/89	1	1		124.8	Y	
1	2/7/89	2	1		120.2	N	
1	2/7/89	3	1		119.6	N	
1	2/7/89	4	1		119.4	N	
1	2/7/89	5	1		112.5	N	
1	2/7/89	6	1		88.7	N	
1	3/8/89	1	1		111.5	Y	
1	3/8/89	2	1		108.1	N	
1	3/8/89	3	1		108.4	N	
1	3/8/89	4	1		107.5	N	
1	3/8/89	5	1		101.9	N	
1	3/8/89	6	1		75.9	N	
1	6/5/89	1	1		109	Y	
1	6/5/89	2	1		106	N	
1	6/5/89	3	1		106	N	
1	6/5/89	4	1		105	N	
1	6/5/89	5	1		102	N	
1	6/5/89	6	1		79	N	
1	7/3/89	1	1		106.4	Y	
1	7/3/89	2	1		103.9	N	
1	7/3/89	3	1		104	N	
1	7/3/89	4	1		103.7	N	
1	7/3/89	5	1		100.6	N	
1	7/3/89	6	1		83.8	N	
1	1/1/90	1	1		113.4	Y	K-890723679-20
1	1/1/90	2	1		110.7	N	
1	1/1/90	3	1		110.1	N	
1	1/1/90	4	1		110.2	N	
1	1/1/90	5	1		104.4	N	
1	1/1/90	6	1		84.5	N	
1	6/4/90	1	1		98	Y	
1	6/4/90	2	1		97	N	
1	6/4/90	3	1		97	N	
1	6/4/90	4	1		96	N	
1	6/4/90	5	1		93	N	
1	6/4/90	6	1		78	N	
1	10/28/90	1	1		111.3	Y	K-HH-99A-K
1	10/28/90	2	1		108.6	N	
1	10/28/90	3	1		108.2	N	
1	10/28/90	4	1		107.7	N	
1	10/28/90	5	1		103.1	N	
1	10/28/90	6	1		83.2	N	
1	10/29/90	1	1		111.3	Y	K-HH-99A-K
1	10/29/90	2	1		108.6	N	
1	10/29/90	3	1		108.2	N	
1	10/29/90	4	1		107.7	N	
1	10/29/90	5	1		103.4	N	
1	10/29/90	6	1		83.2	N	
1	11/4/90	1	1		115	Y	K 890723679-200
1	11/4/90	2	1		112	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	11/4/90	3	1		112	N	
1	11/4/90	4	1		111	N	
1	11/4/90	5	1		107	N	
1	11/4/90	6	1		87	N	
1	11/12/90	1	1		107	Y	K 890723679-20
1	11/12/90	2	1		103	N	
1	11/12/90	3	1		103	N	
1	11/12/90	4	1		98	N	
1	11/12/90	5	1		78	N	
1	11/18/90	1	1		113.5	Y	K 890723679-20
1	11/18/90	2	1		110.6	N	
1	11/18/90	3	1		110.3	N	
1	11/18/90	4	1		109.7	N	
1	11/18/90	5	1		104.8	N	
1	11/18/90	6	1		85.6	N	
1	11/25/90	1	1		102	N	K-890723679-20
1	11/25/90	2	1		104.7	Y	
1	11/25/90	3	1		104.6	N	
1	11/25/90	4	1		104.1	N	
1	11/25/90	5	1		98.8	N	
1	11/25/90	6	1		78.1	N	
1	12/2/90	1	1		110.2	Y	K Used with Type E Connector
1	12/2/90	2	1		108.2	N	
1	12/2/90	3	1		107.9	N	
1	12/2/90	4	1		107.6	N	
1	12/2/90	5	1		102.4	N	
1	12/2/90	6	1		82	N	
1	12/9/90	1	1		108.2	Y	HH-99A-K 890723679
1	12/9/90	2	1		105.9	N	
1	12/9/90	3	1		105.6	N	
1	12/9/90	4	1		105.4	N	
1	12/9/90	5	1		100	N	
1	12/9/90	6	1		78.9	N	
1	12/16/90	1	1		97.3	Y	K 890723679-20
1	12/16/90	2	1		91.2	N	
1	12/16/90	3	1		90.6	N	
1	12/16/90	4	1		89.6	N	
1	12/16/90	5	1		84.9	N	
1	12/16/90	6	1		63.9	N	
1	12/25/90	1	1		90.3	Y	J
1	12/25/90	2	1		88.4	N	
1	12/25/90	3	1		88	N	
1	12/25/90	4	1		87.8	N	
1	12/25/90	5	1		83.6	N	
1	12/25/90	6	1		66	N	
1	12/30/90	1	1		106.4	Y	K 890723679-20
1	12/30/90	2	1		101	N	
1	12/30/90	3	1		101	N	
1	12/30/90	4	1		100	N	
1	12/30/90	5	1		95	N	
1	12/30/90	6	1		72	N	
1	1/6/91	1	1		112.1	Y	
1	1/6/91	2	1		108.6	N	
1	1/6/91	3	1		108.8	N	
1	1/6/91	4	1		107.1	N	
1	1/6/91	5	1		102.6	N	
1	1/13/91	1	1		113	Y	K 127996
1	1/13/91	2	1		109.3	N	
1	1/13/91	3	1		110.1	N	
1	1/13/91	4	1		109.3	N	
1	1/13/91	5	1		103.8	N	
1	1/13/91	6	1		90.18	N	
1	1/19/91	1	1		97.6	Y	K 890723679-20
1	1/19/91	2	1		94.8	N	
1	1/19/91	3	1		93.8	N	
1	1/19/91	4	1		93.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	1/19/91	5	1		89.5	N	
1	1/19/91	6	1		66	N	
1	1/26/91	1	1		113.2	Y	K HH-99A Ser# 890723679-20
1	1/26/91	2	1		110.1	N	
1	1/26/91	3	1		110	N	
1	1/26/91	4	1		109.3	N	
1	1/26/91	5	1		103.9	N	
1	1/26/91	6	1		78.8	N	
1	2/2/91	1	1		113.3	Y	K 890723679-20
1	2/2/91	2	1		110.3	N	
1	2/2/91	3	1		110.1	N	
1	2/2/91	4	1		109.1	N	
1	2/2/91	5	1		108.7	N	
1	2/2/91	6	1		78.3	N	
1	2/9/91	1	1		105.2	Y	890723679-20
1	2/9/91	2	1		102.6	N	
1	2/9/91	3	1		102.1	N	
1	2/9/91	4	1		101.9	N	
1	2/9/91	5	1		96.2	N	
1	2/9/91	6	1		70.6	N	
1	2/16/91	1	1		97.9	Y	890723679-20
1	2/16/91	2	1		94.3	N	
1	2/16/91	3	1		93.7	N	
1	2/16/91	4	1		93.1	N	
1	2/16/91	5	1		87.9	N	
1	2/16/91	6	1		63.8	N	
1	2/24/91	1	1		107.2	Y	K 890723679-20
1	2/24/91	2	1		104.5	N	
1	2/24/91	3	1		104.1	N	
1	2/24/91	4	1		103	N	
1	2/24/91	5	1		97.2	N	
1	2/24/91	6	1		71.9	N	
1	3/3/91	1	1		111	Y	K 890423320-11
1	3/3/91	2	1		108	N	
1	3/3/91	3	1		108	N	
1	3/3/91	4	1		106	N	
1	3/3/91	5	1		100	N	
1	3/3/91	6	1		75	N	
1	3/9/91	1	1		114	Y	K 890723679-20
1	3/9/91	2	1		111	N	
1	3/9/91	3	1		111	N	
1	3/9/91	4	1		110	N	
1	3/9/91	5	1		104	N	
1	3/9/91	6	1		79	N	
1	3/16/91	1	1		99.5	N	K 890723679-20
1	3/16/91	2	1		99.5	N	
1	3/16/91	3	1		99.8	Y	
1	3/16/91	4	1		98.1	N	
1	3/16/91	5	1		92.4	N	
1	3/16/91	6	1		68	N	
1	3/24/91	1	1		115.1	Y	K 890723633-71 LOW
1	3/24/91	2	1		112.6	N	
1	3/24/91	3	1		111.8	N	
1	3/24/91	4	1		111.3	N	
1	3/24/91	5	1		104.9	N	
1	3/24/91	6	1		80.1	N	
1	3/30/91	1	1		108	Y	K 890423320-11
1	3/30/91	2	1		105.2	N	
1	3/30/91	3	1		105.2	N	
1	3/30/91	4	1		104.7	N	
1	3/30/91	5	1		99.3	N	
1	3/30/91	6	1		74.9	N	
1	4/7/91	1	1		114.3	Y	J 890423320-11
1	4/7/91	2	1		111.2	N	
1	4/7/91	3	1		110.7	N	
1	4/7/91	4	1		109.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/7/91	5	1		103.4	N	
1	4/7/91	6	1		78.8	N	
1	4/14/91	1	1		116	Y	K 890723633-71
1	4/14/91	2	1		113.5	N	
1	4/14/91	3	1		113.2	N	
1	4/14/91	4	1		112.1	N	
1	4/14/91	5	1		106.3	N	
1	4/14/91	6	1		82.6	N	
1	4/20/91	1	1		115.8	Y	K 890727633-71
1	4/20/91	2	1		112.6	N	
1	4/20/91	3	1		112.2	N	
1	4/20/91	4	1		111.3	N	
1	4/20/91	5	1		105.4	N	
1	4/20/91	6	1		81.3	N	
1	4/27/91	1	1		104.5	Y	J
1	4/27/91	2	1		101.5	N	
1	4/27/91	3	1		101.3	N	
1	4/27/91	4	1		100.7	N	
1	4/27/91	5	1		95.2	N	
1	4/27/91	6	1		72.3	N	
1	5/4/91	1	1		105	Y	K HH-99A-K
1	5/4/91	2	1		102.8	N	
1	5/4/91	3	1		103	N	
1	5/4/91	4	1		102.6	N	
1	5/4/91	5	1		97.1	N	
1	5/4/91	6	1		74.4	N	
1	5/12/91	1	1		115.5	Y	K 890723678-64
1	5/12/91	2	1		111.9	N	
1	5/12/91	3	1		111.7	N	
1	5/12/91	4	1		110.7	N	
1	5/12/91	5	1		104.8	N	
1	5/12/91	6	1		82	N	
1	5/19/91	1	1		107.9	Y	K OMEGA 99-A
1	5/19/91	2	1		105	N	
1	5/19/91	3	1		104.8	N	
1	5/19/91	4	1		103.7	N	
1	5/19/91	5	1		97.2	N	
1	5/19/91	6	1		74.3	N	
1	5/24/91	1	1		111.7	Y	K 890723679-64
1	5/24/91	2	1		108.5	N	
1	5/24/91	3	1		108.4	N	
1	5/24/91	4	1		107.7	N	
1	5/24/91	5	1		101.9	N	
1	5/24/91	6	1		80.5	N	
1	6/2/91	1	1		104.7	Y	J 850423320-11
1	6/2/91	2	1		101	N	
1	6/2/91	3	1		100.6	N	
1	6/2/91	4	1		100.1	N	
1	6/9/91	1	1		107.2	N	K 910226246-45
1	6/9/91	2	1		108.2	N	
1	6/9/91	3	1		114.2	Y	
1	6/9/91	4	1		112.7	N	
1	6/9/91	5	1		101.6	N	
1	6/9/91	6	1		70.6	N	
1	6/22/91	1	1		116.8	Y	K 910226246-45
1	6/22/91	2	1		113.5	N	
1	6/22/91	3	1		113.5	N	
1	6/22/91	4	1		112.8	N	
1	6/22/91	5	1		106.6	N	
1	6/22/91	6	1		85.6	N	
1	6/29/91	1	1		103.3	Y	K 9101226246-45
1	6/29/91	2	1		100.3	N	
1	6/29/91	3	1		100.2	N	
1	6/29/91	4	1		99.9	N	
1	6/29/91	5	1		95	N	
1	6/29/91	6	1		75.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	7/7/91	1	1		105.9	Y	K 910226246-45
1	7/7/91	2	1		103.1	N	
1	7/7/91	3	1		103.3	N	
1	7/7/91	4	1		102.7	N	
1	7/7/91	5	1		98	N	
1	7/7/91	6	1		78.5	N	
1	7/13/91	1	1		103.6	Y	K 910226246-45
1	7/13/91	2	1		100.2	N	
1	7/13/91	3	1		100.1	N	
1	7/13/91	4	1		99.4	N	
1	7/13/91	5	1		94.3	N	
1	7/13/91	6	1		75.3	N	
1	7/20/91	1	1		104.7	Y	K 910226246-45
1	7/20/91	2	1		101.5	N	
1	7/20/91	3	1		101.4	N	
1	7/20/91	4	1		101.1	N	
1	7/20/91	5	1		96.2	N	
1	7/20/91	6	1		77.6	N	
1	7/27/91	1	1		106.6	Y	K 910226246-45
1	7/27/91	2	1		103.3	N	
1	7/27/91	3	1		103.3	N	
1	7/27/91	4	1		102.7	N	
1	7/27/91	5	1		97.8	N	
1	7/27/91	6	1		78.6	N	
1	8/3/91	1	1		102.3	Y	J 910126143-75
1	8/3/91	2	1		99.3	N	
1	8/3/91	3	1		99	N	
1	8/3/91	4	1		98.6	N	
1	8/3/91	5	1		93.8	N	
1	8/3/91	6	1		75.6	N	
1	8/11/91	1	1		107.6	Y	K 9101226246-45
1	8/11/91	2	1		104.9	N	
1	8/11/91	3	1		105	N	
1	8/11/91	4	1		104.7	N	
1	8/11/91	5	1		99.8	N	
1	8/11/91	6	1		81.2	N	
1	8/18/91	1	1		101.4	Y	K 910226246-45
1	8/18/91	2	1		100.3	N	
1	8/18/91	3	1		100.6	N	
1	8/18/91	4	1		100.3	N	
1	8/18/91	5	1		96	N	
1	8/18/91	6	1		78.2	N	
1	8/25/91	1	1		101.6	Y	J HH-99A-J
1	8/25/91	2	1		99.1	N	
1	8/25/91	3	1		99.2	N	
1	8/25/91	4	1		98.8	N	
1	8/25/91	5	1		93.9	N	
1	8/25/91	6	1		75.8	N	
1	8/31/91	1	1		110.4	Y	K-8962356712
1	8/31/91	2	1		107.5	N	
1	8/31/91	3	1		107.6	N	
1	8/31/91	4	1		107.2	N	
1	8/31/91	5	1		102.2	N	
1	8/31/91	6	1		83.8	N	
1	9/7/91	1	1		114.4	Y	K-890723679-20
1	9/7/91	2	1		111.5	N	
1	9/7/91	3	1		111.2	N	
1	9/7/91	4	1		110.3	N	
1	9/7/91	5	1		105	N	
1	9/7/91	6	1		86	N	
1	9/14/91	1	1		97.9	Y	K-890723679-64
1	9/14/91	2	1		94.9	N	
1	9/14/91	3	1		94.6	N	
1	9/14/91	4	1		94.2	N	
1	9/14/91	5	1		89.6	N	
1	9/14/91	6	1		71.3	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/21/91	1	1		102	Y	K-HH-99A-K
1	9/21/91	2	1		99.8	N	
1	9/21/91	3	1		99.1	N	
1	9/21/91	4	1		98.6	N	
1	9/21/91	5	1		93.7	N	
1	9/21/91	6	1		74.8	N	
1	9/28/91	1	1		107.4	Y	K-890723679-64
1	9/28/91	2	1		104.5	N	
1	9/28/91	3	1		104.4	N	
1	9/28/91	4	1		103.8	N	
1	9/28/91	5	1		99.4	N	
1	9/28/91	6	1		80.3	N	
1	10/5/91	1	1		104.2	Y	K-890723679-20
1	10/5/91	2	1		101.3	N	
1	10/5/91	3	1		100.5	N	
1	10/5/91	4	1		99.9	N	
1	10/5/91	5	1		95.1	N	
1	10/5/91	6	1		76.4	N	
1	10/11/91	1	1		107.2	Y	K-890723679-20
1	10/11/91	2	1		104.2	N	
1	10/11/91	3	1		104.1	N	
1	10/11/91	4	1		103.6	N	
1	10/11/91	5	1		98.8	N	
1	10/11/91	6	1		79.3	N	
1	10/20/91	1	1		103.9	Y	K-890723673-20
1	10/20/91	2	1		100.9	N	
1	10/20/91	3	1		100.7	N	
1	10/20/91	4	1		100.4	N	
1	10/20/91	5	1		95.7	N	
1	10/20/91	6	1		75.8	N	
1	10/26/91	1	1		108.6	Y	K-890723679-64
1	10/26/91	2	1		105.6	N	
1	10/26/91	3	1		104.9	N	
1	10/26/91	4	1		99.9	N	
1	10/26/91	5	1		100.6	N	
1	10/26/91	6	1		80	N	
1	11/2/91	1	1		103	Y	K-890723679-20
1	11/2/91	2	1		100.1	N	
1	11/2/91	3	1		98.8	N	
1	11/2/91	4	1		99.6	N	
1	11/2/91	5	1		94.8	N	
1	11/2/91	6	1		73.7	N	
1	11/9/91	1	1		101.7	Y	K-890723679-64
1	11/9/91	2	1		99.9	N	
1	11/9/91	3	1		99.4	N	
1	11/9/91	4	1		98.6	N	
1	11/9/91	5	1		94.6	N	
1	11/9/91	6	1		77.7	N	
1	11/15/91	1	1		111.4	Y	K-890723679-64
1	11/15/91	2	1		108.5	N	
1	11/15/91	3	1		108.2	N	
1	11/15/91	4	1		107.6	N	
1	11/15/91	5	1		102.2	N	
1	11/15/91	6	1		80.2	N	
1	11/23/91	1	1		112	Y	K-910226246-56
1	11/23/91	2	1		109.3	N	
1	11/23/91	3	1		108.9	N	
1	11/23/91	4	1		108.1	N	
1	11/23/91	5	1		102.8	N	
1	11/23/91	6	1		80.6	N	
1	12/1/91	1	1		102.6	Y	K-910226246-56
1	12/1/91	2	1		99.1	N	
1	12/1/91	3	1		98.5	N	
1	12/1/91	4	1		98	N	
1	12/1/91	5	1		92.8	N	
1	12/1/91	6	1		70.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/6/91	1	1		114	Y	K-890723633-71
1	12/6/91	2	1		111	N	
1	12/6/91	3	1		111	N	
1	12/6/91	4	1		110	N	
1	12/6/91	5	1		104	N	
1	12/6/91	6	1		82	N	
1	12/14/91	1	1		107.1	Y	K-910226246-56
1	12/14/91	2	1		104.3	N	
1	12/14/91	3	1		104	N	
1	12/14/91	4	1		103.4	N	
1	12/14/91	5	1		98.2	N	
1	12/14/91	6	1		75.7	N	
1	12/22/91	1	1		114.1	Y	K-TI-050
1	12/22/91	2	1		110.3	N	
1	12/22/91	3	1		110.2	N	
1	12/22/91	4	1		109.3	N	
1	12/22/91	5	1		103.7	N	
1	12/22/91	6	1		80.5	N	
1	12/28/91	1	1		112.9	Y	K-890723679-64
1	12/28/91	2	1		110.1	N	
1	12/28/91	3	1		109.7	N	
1	12/28/91	4	1		108.7	N	
1	12/28/91	5	1		102.5	N	
1	12/28/91	6	1		79.6	N	
1	1/11/92	1	1		115.7	Y	K 910226246-56 HH99A-K
1	1/11/92	2	1		112	N	
1	1/11/92	3	1		111.3	N	
1	1/11/92	4	1		110.5	N	
1	1/11/92	5	1		104.6	N	
1	1/11/92	6	1		81.1	N	
1	1/16/92	1	1		112.6	Y	K TI-016
1	1/16/92	2	1		108.8	N	
1	1/16/92	3	1		108.2	N	
1	1/16/92	4	1		107.3	N	
1	1/16/92	5	1		101.6	N	
1	1/16/92	6	1		77.5	N	
1	1/25/92	1	1		110.3	Y	K-0226246-56
1	1/25/92	2	1		107.2	N	
1	1/25/92	3	1		106.9	N	
1	1/25/92	4	1		106.4	N	
1	1/25/92	5	1		100.4	N	
1	1/25/92	6	1		76.7	N	
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
1	2/22/92	1	1		106.2	Y	J-910126143-50
1	2/22/92	2	1		102.9	N	
1	2/22/92	3	1		102.3	N	
1	2/22/92	4	1		101.9	N	
1	2/22/92	5	1		96.4	N	
1	2/22/92	6	1		72.4	N	
1	2/23/92	1	1		103.5	Y	J 890423320 42
1	2/23/92	2	1		100.1	N	
1	2/23/92	3	1		99.7	N	
1	2/23/92	4	1		98.9	N	
1	2/23/92	5	1		93.4	N	
1	2/23/92	6	1		69.5	N	
1	3/1/92	1	1		116.5	Y	J-910126143-5
1	3/1/92	2	1		109.5	N	
1	3/1/92	3	1		109.6	N	
1	3/1/92	4	1		108	N	
1	3/1/92	5	1		101.7	N	
1	3/1/92	6	1		77.6	N	
1	3/6/92	1	1		101.3	Y	K 910226246-56
1	3/6/92	2	1		98	N	
1	3/6/92	3	1		97.8	N	
1	3/6/92	4	1		96.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/6/92	5	1		91.3	N	
1	3/6/92	6	1		67.8	N	
1	3/14/92	1	1		103.3	Y	J 890523512-20
1	3/14/92	2	1		100.4	N	
1	3/14/92	3	1		100.2	N	
1	3/14/92	4	1		99.5	N	
1	3/14/92	5	1		93.7	N	
1	3/14/92	6	1		70.1	N	
1	3/22/92	1	1		103.5	Y	J 890423320-42
1	3/22/92	2	1		100.1	N	
1	3/22/92	3	1		99.7	N	
1	3/22/92	4	1		98.9	N	
1	3/22/92	5	1		93.4	N	
1	3/22/92	6	1		69.5	N	
1	3/28/92	1	1		106	Y	K 910426539
1	3/28/92	2	1		102	N	
1	3/28/92	3	1		102	N	
1	3/28/92	4	1		101	N	
1	3/28/92	5	1		95	N	
1	3/28/92	6	1		71	N	
1	4/4/92	1	1		108.4	Y	K 890723633-71
1	4/4/92	2	1		104.2	N	
1	4/4/92	3	1		104.1	N	
1	4/4/92	4	1		103.2	N	
1	4/4/92	5	1		97.3	N	
1	4/4/92	6	1		74.4	N	
1	4/9/92	1	1		112	Y	K 106 890723622-71
1	4/9/92	2	1		108.6	N	
1	4/9/92	3	1		108.4	N	
1	4/9/92	4	1		107.6	N	
1	4/9/92	5	1		101.3	N	
1	4/9/92	6	1		78	N	
1	4/18/92	1	1		105.9	Y	J 890423320 42
1	4/18/92	2	1		102.6	N	
1	4/18/92	3	1		102.3	N	
1	4/18/92	4	1		101.4	N	
1	4/18/92	5	1		95.4	N	
1	4/18/92	6	1		73.7	N	
1	4/25/92	1	1		107.7	Y	
1	4/25/92	2	1		104.1	N	
1	4/25/92	3	1		103.7	N	
1	4/25/92	4	1		102.9	N	
1	4/25/92	5	1		97.4	N	
1	4/25/92	6	1		75.1	N	
1	4/30/92	1	1		106.4		S K 910426539-80
1	4/30/92	2	1		102.7	N	
1	4/30/92	3	1		102.1	N	
1	4/30/92	4	1		101.2	N	
1	4/30/92	5	1		101.2	N	
1	4/30/92	6	1		73.5	N	
1	5/9/92	1	1		108.7	Y	K TI-029
1	5/9/92	2	1		104.9	N	
1	5/9/92	3	1		104.8	N	
1	5/9/92	4	1		104	N	
1	5/9/92	5	1		98.1	N	
1	5/9/92	6	1		76.6	N	
1	5/15/92	1	1		105.6	Y	K TI-043 0723633-71
1	5/15/92	2	1		102.1	N	
1	5/15/92	3	1		101.9	N	
1	5/15/92	4	1		100.8	N	
1	5/15/92	5	1		95	N	
1	5/15/92	6	1		73.4	N	
1	5/20/92	1	1		107.8	Y	K 890723633-71
1	5/20/92	2	1		104.8	N	
1	5/20/92	3	1		105	N	
1	5/20/92	4	1		103.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106 THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	5/20/92	5	1		98.2	N	
1	5/20/92	6	1		77	N	
1	5/30/92	1	1		98.8	Y	K 910426539-80
1	5/30/92	2	1		95.1	N	
1	5/30/92	3	1		94.8	N	
1	5/30/92	4	1		93.9	N	
1	5/30/92	5	1		88.4	N	
1	5/30/92	6	1		68.3	N	
1	6/8/92	1	1		105	N	K 910420539-80
1	6/8/92	2	1		103	N	
1	6/8/92	3	1		106.8	N	
1	6/8/92	4	1		107.3	Y	
1	6/8/92	5	1		100.7	Y	
1	6/8/92	6	1		75	N	
1	6/13/92	1	1		111.7	Y	J 900925741-79
1	6/13/92	2	1		108	N	
1	6/13/92	3	1		108	N	
1	6/13/92	4	1		107	N	
1	6/13/92	5	1		101	N	
1	6/13/92	6	1		81	N	
1	6/19/92	1	1		105.9	Y	K 890723633-71
1	6/19/92	2	1		102.5	N	
1	6/19/92	3	1		102.6	N	
1	6/19/92	4	1		101.8	N	
1	6/19/92	5	1		96.2	N	
1	6/19/92	6	1		77	N	
1	6/25/92	1	1		102.7	Y	K 910425439-80
1	6/25/92	2	1		99	N	
1	6/25/92	3	1		98.7	N	
1	6/25/92	4	1		98	N	
1	6/25/92	5	1		92.6	N	
1	6/25/92	6	1		74.1	N	
1	7/4/92	1	1		108.6	Y	K 910226246-68
1	7/4/92	2	1		104.9	N	
1	7/4/92	3	1		104.5	N	
1	7/4/92	4	1		103.4	N	
1	7/4/92	5	1		97.4	N	
1	7/4/92	6	1		78.9	N	
1	7/8/92	1	1		101.4	Y	K 910226246-68
1	7/8/92	2	1		98.1	N	
1	7/8/92	3	1		97.8	N	
1	7/8/92	4	1		97.1	N	
1	7/8/92	5	1		91.8	N	
1	7/8/92	6	1		74	N	
1	7/17/92	1	1		106.1	Y	
1	7/17/92	2	1		102.8	N	
1	7/17/92	3	1		102.8	N	
1	7/17/92	4	1		102.3	N	
1	7/17/92	5	1		96.8	N	
1	7/17/92	6	1		79.3	N	
1	7/23/92	1	1		114.2	Y	K 8972367920
1	7/23/92	2	1		110.9	N	
1	7/23/92	3	1		110.8	N	
1	7/23/92	4	1		109.9	N	
1	7/23/92	5	1		104.1	N	
1	7/23/92	6	1		86.4	N	
1	7/30/92	1	1		104.7	Y	K 890723679-64
1	7/30/92	2	1		101.5	N	
1	7/30/92	3	1		101.3	N	
1	7/30/92	4	1		100.8	N	
1	7/30/92	5	1		95.8	N	
1	7/30/92	6	1		79.2	N	
1	8/6/92	1	1		108.8	Y	K 910226246-68
1	8/6/92	2	1		105.7	N	
1	8/6/92	3	1		105.7	N	
1	8/6/92	4	1		104.1	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	8/6/92	5	1		99.1	N	
1	8/6/92	6	1		81.8	N	
1	8/13/92	1	1		105.8	Y	K 910226246-68
1	8/13/92	2	1		102.8	N	
1	8/13/92	3	1		102.8	N	
1	8/13/92	4	1		102	N	
1	8/13/92	5	1		97.2	N	
1	8/13/92	6	1		80.3	N	
1	8/21/92	1	1		108.6	Y	K 910226246-68
1	8/21/92	2	1		105.6	N	
1	8/21/92	3	1		105.5	N	
1	8/21/92	4	1		104.4	N	
1	8/21/92	5	1		98.8	N	
1	8/21/92	6	1		82.3	N	
1	8/27/92	1	1		102.6	Y	K 91022624868
1	9/3/92	1	1		103	Y	K 910226246-68
1	9/3/92	2	1		99.8	N	
1	9/3/92	3	1		99.6	N	
1	9/3/92	4	1		98.9	N	
1	9/3/92	5	1		93.9	N	
1	9/3/92	6	1		78.4	N	
1	9/9/92	1	1		97.7	Y	K 910226246-68
1	9/9/92	2	1		94.8	N	
1	9/9/92	3	1		94.4	N	
1	9/9/92	4	1		94.1	N	
1	9/9/92	5	1		89.2	N	
1	9/9/92	6	1		73.6	N	
1	9/18/92	1	1		101.8	Y	J 890523512-47
1	9/18/92	2	1		98.6	N	
1	9/18/92	3	1		98.3	N	
1	9/18/92	4	1		97.8	N	
1	9/18/92	5	1		93	N	
1	9/18/92	6	1		77.3	N	
1	9/25/92	1	1		104.8	Y	K 9102246-56
1	9/25/92	2	1		101.4	N	
1	9/25/92	3	1		101	N	
1	9/25/92	4	1		100.6	N	
1	9/25/92	5	1		95.8	N	
1	9/25/92	6	1		80.2	N	
1	10/1/92	1	1		103.9	Y	K 910226246-56
1	10/1/92	2	1		100.9	N	
1	10/1/92	3	1		100.8	N	
1	10/1/92	4	1		100.5	N	
1	10/1/92	5	1		96	N	
1	10/1/92	6	1		80.1	N	
1	10/8/92	1	1		109.7	Y	K 890723633-71
1	10/8/92	2	1		106.3	N	
1	10/8/92	3	1		106.4	N	
1	10/8/92	4	1		105.8	N	
1	10/8/92	5	1		100.5	N	
1	10/8/92	6	1		84	N	
1	10/15/92	1	1		102	Y	K 890723633-64
1	10/15/92	2	1		98.9	N	
1	10/15/92	3	1		98.7	N	
1	10/15/92	4	1		98.3	N	
1	10/15/92	5	1		93.6	N	
1	10/15/92	6	1		77.2	N	
1	10/23/92	1	1		99.9	Y	K 890723633-64
1	10/23/92	2	1		96.7	N	
1	10/23/92	3	1		96.4	N	
1	10/23/92	4	1		96	N	
1	10/23/92	5	1		91.2	N	
1	10/23/92	6	1		74.9	N	
1	10/30/92	1	1		99.5	Y	K 890723633-64
1	10/30/92	2	1		96.4	N	
1	10/30/92	3	1		96	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/30/92	4	1		95.6	N	
1	10/30/92	5	1		90.8	N	
1	10/30/92	6	1		74.5	N	
1	11/7/92	1	1		112	Y	K
1	11/7/92	2	1		109.2	N	
1	11/7/92	3	1		109.1	N	
1	11/7/92	4	1		108	N	
1	11/7/92	5	1		102.6	N	
1	11/7/92	6	1		85	N	
1	11/13/92	1	1		111.9	Y	K 910225246-68
1	11/13/92	2	1		108.2	N	
1	11/13/92	3	1		108	N	
1	11/13/92	4	1		107.4	N	
1	11/13/92	5	1		101.8	N	
1	11/13/92	6	1		84.1	N	
1	11/19/92	1	1		109.7	N	K TI-050
1	11/19/92	2	1		105.9	N	
1	11/19/92	3	1		105.6	N	
1	11/19/92	4	1		103.5	N	
1	11/19/92	5	1		101.6	N	
1	11/19/92	6	1		81.7	N	
1	11/25/92	1	1		104.9	Y	K 890723633-71
1	11/25/92	2	1		101.8	N	
1	11/25/92	3	1		101.5	N	
1	11/25/92	4	1		100.5	N	
1	11/25/92	5	1		94.8	N	
1	11/25/92	6	1		76.7	N	
1	12/3/92	1	1		100.9	Y	K 890723679-64
1	12/3/92	2	1		97.6	N	
1	12/3/92	3	1		97.3	N	
1	12/3/92	4	1		97.1	N	
1	12/3/92	5	1		92	N	
1	12/3/92	6	1		73.9	N	
1	12/11/92	1	1		109	Y	K 890723679-64
1	12/11/92	2	1		106.2	N	
1	12/11/92	3	1		106	N	
1	12/11/92	4	1		105.1	N	
1	12/11/92	5	1		99.5	N	
1	12/11/92	6	1		80.7	N	
1	12/20/92	1	1		110.4	Y	K 890723679-64
1	12/20/92	2	1		107.8	N	
1	12/20/92	3	1		107.8	N	
1	12/20/92	4	1		106.8	N	
1	12/20/92	5	1		100.8	N	
1	12/20/92	6	1		81.3	N	
1	12/27/92	1	1		109.7	Y	K
1	12/27/92	2	1		106.2	N	
1	12/27/92	3	1		106	N	
1	12/27/92	4	1		105	N	
1	12/27/92	5	1		99.8	N	
1	12/27/92	6	1		79.7	N	
1	12/31/92	1	1		111.5	Y	K 0723633-71
1	12/31/92	2	1		108.3	N	
1	12/31/92	3	1		108.1	N	
1	12/31/92	4	1		107.4	N	
1	12/31/92	5	1		101.6	N	
1	12/31/92	6	1		81.9	N	
1	1/7/93	1	1		104.9	Y	K 0723633-71
1	1/7/93	2	1		101.9	N	
1	1/7/93	3	1		101.7	N	
1	1/7/93	4	1		100.9	N	
1	1/7/93	5	1		95.3	N	
1	1/7/93	6	1		75.3	N	
1	1/20/93	1	1		109.3	Y	K 890723633-64
1	1/20/93	2	1		105.5	N	
1	1/20/93	3	1		105	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/20/93	4	1		103.9	N	
1	1/20/93	5	1		98	N	
1	1/20/93	6	1		77.7	N	
1	1/23/93	1	1		116.7	Y	J 910126143-29
1	1/23/93	2	1		108.2	N	
1	1/23/93	3	1		107.8	N	
1	1/23/93	4	1		106.8	N	
1	1/23/93	5	1		100.8	N	
1	1/23/93	6	1		79.9	N	
1	1/31/93	1	1		111.1	Y	K 890723633-71
1	1/31/93	2	1		108	N	
1	1/31/93	3	1		107.8	N	
1	1/31/93	4	1		106.8	N	
1	1/31/93	5	1		100.6	N	
1	1/31/93	6	1		80	N	
1	2/5/93	1	1		108.5	Y	K 890723633-71
1	2/5/93	2	1		102.5	N	
1	2/5/93	3	1		103.5	N	
1	2/5/93	4	1		101.6	N	
1	2/5/93	5	1		95.8	N	
1	2/5/93	6	1		75.9	N	
1	2/11/93	1	1		113.2	Y	K 890723633-71
1	2/11/93	2	1		104.2	N	
1	2/11/93	3	1		108.8	N	
1	2/11/93	4	1		107.9	N	
1	2/11/93	5	1		101.4	N	
1	2/11/93	6	1		80.5	N	
1	2/18/93	1	1		109.9	Y	K 890723633-71
1	2/18/93	2	1		105.9	N	
1	2/18/93	3	1		105.8	N	
1	2/18/93	4	1		104.8	N	
1	2/18/93	5	1		98	N	
1	2/18/93	6	1		77	N	
1	2/26/93	6	1		72.8	N	
1	3/4/93	1	1		114.2	Y	K 890723633-71
1	3/4/93	2	1		112	N	
1	3/4/93	3	1		112	N	
1	3/4/93	4	1		111.3	N	
1	3/4/93	5	1		104.7	N	
1	3/4/93	6	1		83.7	N	
1	3/11/93	1	1		109.1	Y	K 890723633-71
1	3/11/93	2	1		105.7	N	
1	3/11/93	3	1		105.5	N	
1	3/11/93	4	1		104.5	N	
1	3/11/93	5	1		97.7	N	
1	3/11/93	6	1		76.9	N	
1	3/19/93	1	1		101.6	Y	K 890723622-71
1	3/19/93	2	1		98.2	N	
1	3/19/93	3	1		98.1	N	
1	3/19/93	4	1		97.2	N	
1	3/19/93	5	1		90.6	N	
1	3/19/93	6	1		70.2	N	
1	3/27/93	1	1		99.1	N	
1	3/27/93	2	1		95.6	Y	
1	3/27/93	3	1		95.6	N	
1	3/27/93	4	1		94.6	N	
1	3/27/93	5	1		88	N	
1	3/27/93	6	1		68	N	
1	4/1/93	1	1		110.3	Y	K 8972-3679-84
1	4/1/93	2	1		106.4	N	
1	4/1/93	3	1		106.2	N	
1	4/1/93	4	1		105.2	N	
1	4/1/93	5	1		98.3	N	
1	4/1/93	6	1		78	N	
1	4/8/93	1	1		109.5	Y	K 890723679-64
1	4/8/93	2	1		104.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/8/93	3	1		104.3	N	
1	4/8/93	4	1		103	N	
1	4/8/93	5	1		96.1	N	
1	4/8/93	6	1		76.5	N	
1	4/15/93	1	1		109.1	Y	K
1	4/15/93	2	1		105.4	N	
1	4/15/93	3	1		105.3	N	
1	4/15/93	4	1		103.9	N	
1	4/15/93	5	1		97	N	
1	4/15/93	6	1		77.3	N	
1	4/21/93	1	1		99.4	Y	K 890723633-71
1	4/21/93	2	1		95.5	N	
1	4/21/93	3	1		95.5	N	
1	4/21/93	4	1		94.5	N	
1	4/21/93	5	1		88.1	N	
1	4/21/93	6	1		68.9	N	
1	4/23/93	1	1		108	Y	K 890723633-71
1	4/23/93	2	1		104	N	
1	4/23/93	3	1		103.8	N	
1	4/23/93	4	1		102.3	N	
1	4/23/93	5	1		95.2	N	
1	4/23/93	6	1		75.8	N	
1	4/29/93	1	1		113.7	Y	K 910226246-45
1	4/29/93	2	1		109.4	N	
1	4/29/93	3	1		109.8	N	
1	4/29/93	4	1		108.3	N	
1	4/29/93	5	1		101.7	N	
1	4/29/93	6	1		82.9	N	
1	5/6/93	1	1		105.5	Y	K 90226246-45 OPS(COMMENT) TEMP SLIGHTLY LWR THAN LAST WK
1	5/6/93	2	1		101.5	N	
1	5/6/93	3	1		101.2	N	
1	5/6/93	4	1		100	N	
1	5/6/93	5	1		92.5	N	
1	5/6/93	6	1		74.3	N	
1	5/13/93	1	1		108	Y	J 910226246-45
1	5/13/93	2	1		104.7	N	
1	5/13/93	3	1		104.6	N	
1	5/13/93	4	1		103.3	N	
1	5/13/93	5	1		97	N	
1	5/13/93	6	1		78.9	N	
1	5/20/93	1	1		106.9	Y	K 910226246-45
1	5/20/93	2	1		103.1	N	
1	5/20/93	3	1		103.2	N	
1	5/20/93	4	1		102	N	
1	5/20/93	5	1		95.4	N	
1	5/20/93	6	1		77.3	N	
1	5/27/93	1	1		105.5	Y	K TI 02490226264
1	5/27/93	2	1		101.7	N	
1	5/27/93	3	1		101.8	N	
1	5/27/93	4	1		101.1	N	
1	5/27/93	5	1		94.8	N	
1	5/27/93	6	1		77.4	N	
1	6/3/93	1	1		104	Y	K
1	6/3/93	2	1		100	N	
1	6/3/93	3	1		100	N	
1	6/3/93	4	1		99	N	
1	6/3/93	5	1		92	N	
1	6/3/93	6	1		75	N	
1	6/10/93	1	1		107.4	Y	K 0723633-71
1	6/10/93	2	1		103.3	N	
1	6/10/93	3	1		103.3	N	
1	6/10/93	4	1		101.8	N	
1	6/10/93	5	1		95.2	N	
1	6/10/93	6	1		78.3	N	
1	6/18/93	1	1		101.2	Y	K

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	6/18/93	2	1		97.3	N	
1	6/18/93	3	1		97.3	N	
1	6/18/93	4	1		96.5	N	
1	6/18/93	5	1		90.9	N	
1	6/18/93	6	1		75.2	N	
1	6/27/93	1	1		107.8	Y	K 890723679-64
1	6/27/93	2	1		104.2	N	
1	6/27/93	3	1		104.2	N	
1	6/27/93	4	1		103.2	N	
1	6/27/93	5	1		97.1	N	
1	6/27/93	6	1		81.2	N	
1	7/1/93	1	1		108.2	Y	K 910226246-34
1	7/1/93	2	1		104.7	N	
1	7/1/93	3	1		104.7	N	
1	7/1/93	4	1		103.8	N	
1	7/1/93	5	1		97.8	N	
1	7/1/93	6	1		82.2	N	
1	7/8/93	1	1		102.2	Y	K 910226246-34
1	7/8/93	2	1		98.42	N	
1	7/8/93	3	1		98.4	N	
1	7/8/93	4	1		97.5	N	
1	7/8/93	5	1		91.9	N	
1	7/8/93	6	1		77	N	
1	7/16/93	1	1		108.6	Y	TYPE K 910226246-34
1	7/16/93	2	1		105.7	N	
1	7/16/93	3	1		105.8	N	
1	7/16/93	4	1		104.7	N	
1	7/16/93	5	1		98.6	N	
1	7/16/93	6	1		83.5	N	
1	7/22/93	1	1		105.8	Y	K 91022624634
1	7/22/93	2	1		103.1	N	
1	7/22/93	3	1		103.6	N	
1	7/22/93	4	1		103.1	N	
1	7/22/93	5	1		97.6	N	
1	7/22/93	6	1		83.2	N	
1	7/29/93	1	1		110.6	Y	K 890723679-64
1	7/29/93	2	1		106.8	N	
1	7/29/93	3	1		106.8	N	
1	7/29/93	4	1		105.7	N	
1	7/29/93	5	1		99.7	N	
1	7/29/93	6	1		85.5	N	
1	8/5/93	1	1		100.6	Y	K 890723679-64
1	8/5/93	2	1		97.4	N	
1	8/5/93	3	1		97.8	N	
1	8/5/93	4	1		97	N	
1	8/5/93	5	1		91.8	N	
1	8/5/93	6	1		77.9	N	
1	8/6/93	1	1		99.7	Y	K 8972367920
1	8/6/93	2	1		96	N	
1	8/6/93	3	1		96.1	N	
1	8/6/93	4	1		95.6	N	
1	8/6/93	5	1		90.7	N	
1	8/6/93	6	1		77.4	N	
1	8/13/93	1	1		100.7	Y	K8972367920
1	8/13/93	2	1		97.3	N	
1	8/13/93	3	1		97.4	N	
1	8/13/93	4	1		96.7	N	
1	8/13/93	5	1		91.5	N	
1	8/13/93	6	1		78	N	
1	8/19/93	1	1		98.9	Y	K 890723679
1	8/19/93	2	1		95.2	N	
1	8/19/93	3	1		94.8	N	
1	8/19/93	4	1		94.1	N	
1	8/19/93	5	1		88.5	N	
1	8/19/93	6	1		74.5	N	
1	8/27/93	1	1		109.5	Y	K 910226246-34

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	8/27/93	2	1		105.3	N	
1	8/27/93	3	1		105.2	N	
1	8/27/93	4	1		104.2	N	
1	8/27/93	5	1		98.4	N	
1	8/27/93	6	1		84.9	N	
1	9/3/93	1	1		101.9	Y	K 8972367920
1	9/3/93	2	1		99.4	N	
1	9/3/93	3	1		99.2	N	
1	9/3/93	4	1		98.7	N	
1	9/3/93	5	1		93.6	N	
1	9/3/93	6	1		80.3	N	
1	9/12/93	1	1		111.5	Y	K TI-005
1	9/12/93	2	1		107.8	N	
1	9/12/93	3	1		107.7	N	
1	9/12/93	4	1		106.6	N	
1	9/12/93	5	1		100.8	N	
1	9/12/93	6	1		87.7	N	
1	9/20/93	1	1		100	Y	K 910226246-34
1	9/20/93	2	1		95.5	N	
1	9/20/93	3	1		95	N	
1	9/20/93	4	1		94.3	N	
1	9/20/93	5	1		89.2	N	
1	9/20/93	6	1		76.3	N	
1	9/27/93	1	1		111	Y	K 8972367920
1	9/27/93	1	2		108.8	Y	HDAT
1	9/27/93	2	1		107.4	N	
1	9/27/93	2	2		105.6	N	
1	9/27/93	3	1		107.2	N	
1	9/27/93	3	2		105.3	N	
1	9/27/93	4	1		106.2	N	
1	9/27/93	4	2		104.4	N	
1	9/27/93	5	1		100.4	N	
1	9/27/93	5	2		98.7	N	
1	9/27/93	6	1		87.2	N	
1	9/27/93	6	2		85.4	N	
1	10/6/93	1	1		111.5	Y	K OMEGA-CAL 505A
1	10/6/93	2	1		108	N	
1	10/6/93	3	1		108	N	
1	10/6/93	4	1		107	N	
1	10/6/93	5	1		101.5	N	
1	10/6/93	6	1		88	N	
1	10/11/93	1	1		109.8	Y	K TYPE
1	10/11/93	2	1		106.7	N	
1	10/11/93	2	2		120.6	N	
1	10/11/93	3	1		106.8	N	
1	10/11/93	3	2		119.8	N	
1	10/11/93	4	1		106	N	
1	10/11/93	4	2		118.8	N	
1	10/11/93	5	1		100.9	N	
1	10/11/93	5	2		112.1	N	
1	10/11/93	6	1		87.6	N	
1	10/11/93	6	2		98.4	N	
1	10/18/93	1	1		99.1	Y	K 890723679-84
1	10/18/93	2	1		95.3	N	
1	10/18/93	3	1		95.3	N	
1	10/18/93	4	1		94.9	N	
1	10/18/93	5	1		90.3	N	
1	10/18/93	6	1		78.8	N	
1	10/27/93	1	1		111.9	Y	K 8972367920
1	10/27/93	2	1		108.4	N	
1	10/27/93	3	1		108.2	N	
1	10/27/93	4	1		107.5	N	
1	10/27/93	5	1		101.8	N	
1	10/27/93	6	1		88.3	N	
1	11/1/93	1	1		109.2	Y	K 910226246-55
1	11/1/93	2	1		105.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	11/1/93	3	1		105.7	N	
1	11/1/93	4	1		104.8	N	
1	11/1/93	5	1		99.2	N	
1	11/1/93	6	1		85.6	N	
1	11/8/93	1	1		102.6	Y	K 704-13-55-001
1	11/8/93	2	1		99.2	N	
1	11/8/93	3	1		99.1	N	
1	11/8/93	4	1		98.3	N	
1	11/8/93	5	1		93.5	N	
1	11/8/93	6	1		79.7	N	
1	11/17/93	1	1		110.5	Y	K TI-024
1	11/17/93	2	1		107.6	N	
1	11/17/93	3	1		107.6	N	
1	11/17/93	4	1		106.8	N	
1	11/17/93	5	1		101.3	N	
1	11/17/93	6	1		86.8	N	
1	11/23/93	1	1		111.3	Y	K 910226246-45
1	11/23/93	2	1		107.3	N	
1	11/23/93	3	1		107.6	N	
1	11/23/93	4	1		107.4	N	
1	11/23/93	5	1		101.1	N	
1	11/23/93	6	1		86.8	N	
1	11/29/93	1	1		111.9	Y	K-910226246-45
1	11/29/93	1	2		110.7	Y	K-9102262346-45
1	11/29/93	2	1		108.9	N	
1	11/29/93	2	2		107.7	N	
1	11/29/93	3	1		109	N	
1	11/29/93	3	2		107.6	N	
1	11/29/93	4	1		108.2	N	
1	11/29/93	4	2		106.6	N	
1	11/29/93	5	1		102.6	N	
1	11/29/93	5	2		100.8	N	
1	11/29/93	6	1		88.4	N	
1	11/29/93	6	2		86.8	N	
1	12/7/93	1	1		114.5	Y	J 910126143-29
1	12/7/93	2	1		111.5	N	
1	12/7/93	3	1		111.5	N	
1	12/7/93	4	1		111.4	N	
1	12/7/93	5	1		105.5	N	
1	12/7/93	6	1		91.2	N	
1	12/14/93	1	1		112.3	Y	K 90226246-45
1	12/14/93	2	1		107.7	N	
1	12/14/93	3	1		107.3	N	
1	12/14/93	4	1		106.4	N	
1	12/14/93	5	1		100.8	N	
1	12/14/93	6	1		86.9	N	
1	12/20/93	1	1		111.1	Y	TYPE K
1	12/20/93	1	2		110.6	Y	TYPE K
1	12/20/93	2	1		108.2	N	
1	12/20/93	2	2		107.5	N	
1	12/20/93	3	1		108.1	N	
1	12/20/93	3	2		107.2	N	
1	12/20/93	4	1		107.4	N	
1	12/20/93	4	2		106.4	N	
1	12/20/93	5	1		101.8	N	
1	12/20/93	5	2		100.8	N	
1	12/20/93	6	1		87.9	N	
1	12/20/93	6	2		86.8	N	
1	12/21/93	1	2		109.2	Y	K 910426539-80
1	12/21/93	2	2		106.5	N	
1	12/21/93	3	2		106.2	N	
1	12/21/93	4	2		105.4	N	
1	12/21/93	5	2		99.7	N	
1	12/21/93	6	2		85.9	N	
1	12/22/93	1	1		110.7	Y	K 910426539-80
1	12/22/93	2	1		107	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/22/93	3	1		106.6	N	
1	12/22/93	4	1		105.8	N	
1	12/22/93	5	1		100.2	N	
1	12/22/93	6	1		86.2	N	
1	12/23/93	1	1		109.8	Y	K 9104265339-80
1	12/23/93	2	1		106.8	N	
1	12/23/93	3	1		106.5	N	
1	12/23/93	4	1		105.9	N	
1	12/23/93	5	1		103.1	N	
1	12/23/93	6	1		86.4	N	
1	12/24/93	1	1		113.6	Y	K 910226246-45
1	12/24/93	2	1		108.2	N	
1	12/24/93	3	1		108	N	
1	12/24/93	4	1		107.2	N	
1	12/24/93	5	1		101.4	N	
1	12/24/93	6	1		87.5	N	
1	12/25/93	1	1		110.4	Y	K 910226246-45
1	12/25/93	2	1		107.6	N	
1	12/25/93	3	1		107.4	N	
1	12/25/93	4	1		106.6	N	
1	12/25/93	5	1		101.1	N	
1	12/25/93	6	1		87	N	
1	12/26/93	1	1		108.9	Y	K 910226246-45
1	12/26/93	2	1		106	N	
1	12/26/93	3	1		105.9	N	
1	12/26/93	4	1		105	N	
1	12/26/93	5	1		99.4	N	
1	12/26/93	6	1		85.3	N	
1	12/27/93	1	1		110.5	Y	K 910226246-45
1	12/27/93	2	1		107.4	N	
1	12/27/93	3	1		107.3	N	
1	12/27/93	4	1		106.3	N	
1	12/27/93	5	1		100.6	N	
1	12/27/93	6	1		86.6	N	
1	12/28/93	1	1			N	K 90226246-45 TC 1 thru 6 O/S Recheck Requested
1	12/29/93	1	1		109.9	Y	K 890723679-64
1	12/29/93	1	2		110.2	Y	K 8907236799-64
1	12/29/93	1	3		110.2	Y	TYPE K
1	12/29/93	1	4		112	Y	K 89072367964
1	12/29/93	2	1		106.3	N	
1	12/29/93	2	2		107.4	N	
1	12/29/93	2	3		107.1	N	
1	12/29/93	2	4		107.7	N	
1	12/29/93	3	1		106.1	N	
1	12/29/93	3	2		107.2	N	
1	12/29/93	3	3		106.7	N	
1	12/29/93	3	4		107.6	N	
1	12/29/93	4	1		105.3	N	
1	12/29/93	4	2		106.2	N	
1	12/29/93	4	3		105.9	N	
1	12/29/93	4	4		106.6	N	
1	12/29/93	5	1		99.9	N	
1	12/29/93	5	2		100.7	N	
1	12/29/93	5	3		100.4	N	
1	12/29/93	5	4		101.6	N	
1	12/29/93	6	1		85.7	N	
1	12/29/93	6	2		86.3	N	
1	12/29/93	6	3		86.2	N	
1	12/29/93	6	4		86.6	N	
1	12/30/93	1	1		112.2	Y	K 89072367664
1	12/30/93	1	2		111.2	Y	K 890723679-64
1	12/30/93	2	1		107.2	N	
1	12/30/93	2	2		107.9	N	
1	12/30/93	3	1		106.9	N	
1	12/30/93	3	2		107.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-106							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/30/93	4	1		105.8	N	
1	12/30/93	4	2		106.6	N	
1	12/30/93	5	1		100.4	N	
1	12/30/93	5	2		101.1	N	
1	12/30/93	6	1		85.8	N	
1	12/30/93	6	2		86.5	N	
1	12/31/93	1	1		108.8	Y	K 90226246-45
1	12/31/93	2	1		105.9	N	
1	12/31/93	3	1		105.8	N	
1	12/31/93	4	1		104.9	N	
1	12/31/93	5	1		99.3	N	
1	12/31/93	6	1		84.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	2/2/75	1			169		
1	2/2/75	2			128		
1	2/2/75	3			106		
1	12/1/75	1			175		
1	12/1/75	2			131		
1	12/1/75	3			104		
1	7/1/77	1			180		
1	7/1/77	2			147		
1	7/1/77	3			128		
1	7/1/77	4			119		
1	8/1/77	1			181		
1	8/1/77	2			149		
1	8/1/77	3			131		
1	8/1/77	4			122		
1	9/1/77	1			184		
1	9/1/77	2			150		
1	9/1/77	3			131		
1	9/1/77	4			122		
1	9/15/77	1			184		
1	9/15/77	2			150		
1	9/15/77	3			131		
1	9/15/77	4			122		
1	9/19/77	1			184		
1	9/19/77	2			150		
1	9/19/77	3			132		
1	9/19/77	4			123		
1	9/22/77	1			183		
1	9/22/77	2			151		
1	9/22/77	3			133		
1	9/22/77	4			124		
1	10/3/77	1			184		
1	10/3/77	2			148		
1	10/3/77	3			128		
1	10/3/77	4			119		
2	2/2/75	1			173		
2	2/2/75	2			153		
2	2/2/75	3			113		
2	12/1/75	1			180		
2	12/1/75	2			158		
2	12/1/75	3			114		
2	7/1/77	1			182		
2	7/1/77	2			166		
2	7/1/77	3			133		
2	7/1/77	4			119		
2	8/1/77	1			183		
2	8/1/77	2			167		
2	8/1/77	3			136		
2	8/1/77	4			122		
2	9/1/77	1			186		
2	9/1/77	2			176		
2	9/1/77	3			135		
2	9/1/77	4			121		
2	9/15/77	1			186		
2	9/15/77	2			170		
2	9/15/77	3			135		
2	9/15/77	4			121		
2	9/19/77	1			185		
2	9/19/77	2			169		
2	9/19/77	3			137		
2	9/19/77	4			123		
2	9/22/77	1			185		
2	9/22/77	2			170		
2	9/22/77	3			138		
2	9/22/77	4			123		
2	10/3/77	1			186		
2	10/3/77	2			170		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	10/3/77	3			133		
2	10/3/77	4			118		
2	1/20/89	1	1		213		
2	1/20/89	2	1		207		
2	1/20/89	3	1		195		
2	1/20/89	4	1		181		
2	1/20/89	5	1		154		
2	1/20/89	6	1		155		
2	1/20/89	7	1		152		
2	1/20/89	8	1		152		
2	8/14/89	1	1		182		
2	8/14/89	2	1		177.1		
2	8/14/89	3	1		166.9		
2	8/14/89	4	1		155.1		
2	8/14/89	5	1		138.9		
2	8/14/89	6	1		130.3		
2	8/14/89	7	1		128.2		
2	8/14/89	8	1		127.1		
2	9/6/89	1	1		184.5		
2	9/6/89	2	1		179.9		
2	9/6/89	3	1		170.7		
2	9/6/89	4	1		159.3		
2	9/6/89	5	1		143		
2	9/6/89	6	1		134.6		
2	9/6/89	7	1		133		
2	9/6/89	8	1		133.5		
2	10/16/89	1	1		185.9		
2	10/16/89	2	1		180.2		
2	10/16/89	3	1		170.3		
2	10/16/89	4	1		157.4		
2	10/16/89	5	1		140.5		
2	10/16/89	6	1		132.8		
2	10/16/89	7	1		131.2		
2	10/16/89	8	1		131.5		
2	11/6/89	1	1		176		
2	11/6/89	3	1		156		
2	11/6/89	5	1		141		
2	11/6/89	7	1		128		
2	11/6/89	8	1		119		
2	12/5/89	1	1		177		
2	12/5/89	2	1		172		
2	12/5/89	3	1		162		
2	12/5/89	4	1		150		
2	12/5/89	5	1		134		
2	12/5/89	6	1		125		
2	12/5/89	7	1		123		
2	12/5/89	8	1		122		
2	1/3/90	1	1		176		
2	1/3/90	2	1		171		
2	1/3/90	3	1		161		
2	1/3/90	4	1		149		
2	1/3/90	5	1		132		
2	1/3/90	6	1		124		
2	1/3/90	7	1		122		
2	1/3/90	8	1		121		
2	2/1/90	1	1		173		
2	2/1/90	2	1		168		
2	2/1/90	3	1		158		
2	2/1/90	4	1		134		
2	2/1/90	5	1		126		
2	2/1/90	6	1		117		
2	2/1/90	7	1		115		
2	2/1/90	8	1		114		
2	3/8/90	1	1		171		
2	3/8/90	2	1		165		
2	3/8/90	3	1		154		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	3/8/90	4	1		142		
2	3/8/90	5	1		124		
2	3/8/90	6	1		115		
2	3/8/90	7	1		113		
2	3/8/90	8	1		113		
2	4/3/90	1	1		167		
2	4/3/90	2	1		162		
2	4/3/90	3	1		151		
2	4/3/90	4	1		139		
2	4/3/90	5	1		122		
2	4/3/90	6	1		113		
2	4/3/90	7	1		111		
2	4/3/90	8	1		111		
2	5/3/90	1	1		169		
2	5/3/90	2	1		164		
2	5/3/90	3	1		153		
2	5/3/90	4	1		141		
2	5/3/90	5	1		125		
2	5/3/90	6	1		116		
2	5/3/90	7	1		114		
2	5/3/90	8	1		114		
2	6/7/90	1	1		171		
2	6/7/90	2	1		165		
2	6/7/90	3	1		155		
2	6/7/90	4	1		143		
2	6/7/90	5	1		128		
2	6/7/90	6	1		119		
2	6/7/90	7	1		117		
2	6/7/90	8	1		117		
2	7/3/90	1	1		169		
2	7/3/90	2	1		159		
2	7/3/90	5	1		120		
2	7/3/90	6	1		119		
2	7/3/90	7	1		119		
2	7/3/90	8	1		102		
2	8/2/90	1	1		171		
2	8/2/90	2	1		167		
2	8/2/90	3	1		158		
2	8/2/90	4	1		147		
2	8/2/90	5	1		133		
2	8/2/90	6	1		124		
2	8/2/90	7	1		122		
2	8/2/90	8	1		122		
2	9/6/90	1	1		172		
2	9/6/90	2	1		167		
2	9/6/90	3	1		158		
2	9/6/90	4	1		146		
2	9/6/90	5	1		132		
2	9/6/90	6	1		124		
2	9/6/90	7	1		122		
2	9/6/90	8	1		122		
2	10/2/90	1	1		175		
2	10/2/90	2	1		171		
2	10/2/90	3	1		161		
2	10/2/90	4	1		149		
2	10/2/90	5	1		133		
2	10/2/90	6	1		124		
2	10/2/90	7	1		122		
2	10/2/90	8	1		122		
2	11/13/90	1	1		173		
2	11/13/90	2	1		169		
2	11/13/90	3	1		158		
2	11/13/90	4	1		146		
2	11/13/90	5	1		129		
2	11/13/90	6	1		121		
2	11/13/90	7	1		119		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	11/13/90	8	1		118		
2	12/5/90	1	1		173.4		
2	12/5/90	2	1		166.9		
2	12/5/90	3	1		155.1		
2	12/5/90	4	1		142.5		
2	12/5/90	5	1		125.3		
2	12/5/90	6	1		126		
2	12/5/90	7	1		114.1		
2	12/5/90	8	1		114.3		
2	1/3/91	1	1		172.5		
2	1/3/91	2	1		166.4		
2	1/3/91	3	1		152.6		
2	1/3/91	4	1		138.6		
2	1/3/91	5	1		122.6		
2	1/3/91	6	1		118.5		
2	1/3/91	7	1		108.8		
2	1/3/91	8	1		110.1		
2	2/20/91	1	1		168.5		
2	2/20/91	2	1		162.3		
2	2/20/91	3	1		149.6		
2	2/20/91	4	1		137.2		
2	2/20/91	5	1		114.9		
2	2/20/91	6	1		110.2		
2	2/20/91	7	1		107.8		
2	2/20/91	8	1		108		
2	3/14/91	1	1		166.4		
2	3/14/91	2	1		160.3		
2	3/14/91	3	1		148.4		
2	3/14/91	4	1		135.2		
2	3/14/91	5	1		117.1		
2	3/14/91	6	1		107.2		
2	3/14/91	7	1		106		
2	3/14/91	8	1		105.5		
2	4/17/91	1	1		164		
2	4/17/91	2	1		158		
2	4/17/91	3	1		146.7		
2	4/17/91	4	1		133.9		
2	4/17/91	5	1		117.2		
2	4/17/91	6	1		108.3		
2	4/17/91	7	1		106.2		
2	4/17/91	8	1		105.9		
2	5/2/91	1	1		173.6		
2	5/2/91	2	1		158.5		
2	5/2/91	3	1		147.4		
2	5/2/91	4	1		135		
2	5/2/91	5	1		119.1		
2	5/2/91	6	1		110.3		
2	5/2/91	7	1		108.1		
2	5/2/91	8	1		116.4		
2	6/14/91	1	1		167.8		
2	6/14/91	2	1		162.8		
2	6/14/91	3	1		151.6		
2	6/14/91	4	1		141.1		
2	6/14/91	5	1		125.4		
2	6/14/91	6	1		127		
2	6/14/91	7	1		114.9		
2	6/14/91	8	1		114.8		
2	7/19/91	1	1		175		
2	7/19/91	2	1		170		
2	7/19/91	3	1		152.6		
2	7/19/91	4	1		141.5		
2	7/19/91	5	1		126.3		
2	7/19/91	6	1		118		
2	7/19/91	7	1		116.2		
2	7/19/91	8	1		116		
2	8/15/91	1	1		169.4		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	8/15/91	2	1		164.6		
2	8/15/91	3	1		155.1		
2	8/15/91	4	1		144		
2	8/15/91	5	1		138.6		
2	8/15/91	6	1		120.8		
2	8/15/91	7	1		119		
2	8/15/91	8	1		118.8		
2	9/5/91	1	1		171.3		
2	9/5/91	2	1		166.6		
2	9/5/91	3	1		157		
2	9/5/91	4	1		146		
2	9/5/91	5	1		130.9		
2	9/5/91	6	1		122.8		
2	9/5/91	7	1		121		
2	9/5/91	8	1		120.9		
2	10/7/91	1	1		172.4		
2	10/7/91	2	1		166.7		
2	10/7/91	3	1		157.2		
2	10/7/91	4	1		145.7		
2	10/7/91	5	1		130.5		
2	10/7/91	6	1		122.2		
2	10/7/91	7	1		120.6		
2	10/7/91	8	1		125		
2	11/10/91	1	1		175.8		
2	11/10/91	2	1		167		
2	11/10/91	3	1		156.4		
2	11/10/91	4	1		144		
2	11/10/91	5	1		127.5		
2	11/10/91	6	1		118.1		
2	11/10/91	7	1		116.3		
2	11/10/91	8	1		116.1		
2	12/6/91	1	1		171.7		
2	12/6/91	2	1		165.1		
2	12/6/91	3	1		154.1		
2	12/6/91	4	1		141.6		
2	12/6/91	5	1		125.1		
2	12/6/91	6	1		120.2		
2	12/6/91	7	1		113.9		
2	12/6/91	8	1		113.9		
2	1/17/92	1	1		173.6		
2	1/17/92	2	1		167.6		
2	1/17/92	3	1		153.7		
2	1/17/92	4	1		140.9		
2	1/17/92	5	1		123.6		
2	1/17/92	6	1		114		
2	1/17/92	7	1		112.2		
2	1/17/92	8	1		112.3		
2	2/21/92	1	1		170		
2	2/21/92	2	1		165		
2	2/21/92	3	1		153		
2	2/21/92	4	1		141		
2	2/21/92	5	1		124		
2	2/21/92	6	1		116		
2	2/21/92	7	1		114		
2	2/21/92	8	1		114		
2	3/5/92	1	1		175		
2	3/5/92	2	1		170		
2	3/5/92	3	1		159		
2	3/5/92	4	1		147		
2	3/5/92	5	1		130		
2	3/5/92	6	1		121		
2	3/5/92	7	1		119		
2	3/5/92	8	1		119		
2	4/2/92	1	1		170		
2	4/2/92	2	1		164		
2	4/2/92	3	1		154		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	4/2/92	4	1		143		
2	4/2/92	5	1		126		
2	4/2/92	6	1		118		
2	4/2/92	7	1		116		
2	4/2/92	8	1		116		
2	5/14/92	1	1		166		
2	5/14/92	2	1		161		
2	5/14/92	3	1		151		
2	5/14/92	4	1		139		
2	5/14/92	5	1		124		
2	5/14/92	6	1		115		
2	5/14/92	7	1		114		
2	5/14/92	8	1		113		
2	6/4/92	1	1		172		
2	6/4/92	2	1		167		
2	6/4/92	3	1		157		
2	6/4/92	4	1		145		
2	6/4/92	5	1		131		
2	6/4/92	6	1		123		
2	6/4/92	7	1		121		
2	6/4/92	8	1		120		
2	7/1/92	1	1		172		
2	7/1/92	2	1		168		
2	7/1/92	3	1		158		
2	7/1/92	4	1		147		
2	7/1/92	5	1		133		
2	7/1/92	6	1		125		
2	7/1/92	7	1		122		
2	7/1/92	8	1		123		
2	8/7/92	1	1		171.9		
2	8/7/92	2	1		167		
2	8/7/92	3	1		161		
2	8/7/92	4	1		150.1		
2	8/7/92	5	1		135.5		
2	8/7/92	6	1		127.4		
2	8/7/92	7	1		122.1		
2	8/7/92	8	1		122		
2	9/3/92	1	1		171.1		
2	9/3/92	2	1		166.6		
2	9/3/92	3	1		157.6		
2	9/3/92	4	1		146.9		
2	9/3/92	5	1		132		
2	9/3/92	6	1		124		
2	9/3/92	7	1		122.1		
2	9/3/92	8	1		122		
2	10/8/92	1	1		171		
2	10/8/92	2	1		166		
2	10/8/92	3	1		156		
2	10/8/92	4	1		145		
2	10/8/92	5	1		130		
2	10/8/92	6	1		121		
2	10/8/92	7	1		119		
2	10/8/92	8	1		119		
2	11/5/92	1	1		163		
2	11/5/92	2	1		149		
2	11/5/92	3	1		123		
2	11/5/92	8	1				
2	12/4/92	1	1		165		
2	12/4/92	2	1		159		
2	12/4/92	3	1		148		
2	12/4/92	4	1		136		
2	12/4/92	5	1		119		
2	12/4/92	6	1		110		
2	12/4/92	7	1		109		
2	12/4/92	8	1		109		
2	1/5/93	1	1		171		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	1/5/93	2	1		166		
2	1/5/93	3	1		154		
2	1/5/93	4	1		142		
2	1/5/93	5	1		128		
2	1/5/93	6	1		115		
2	1/5/93	7	1		113		
2	1/5/93	8	1		113		
2	2/19/93	1	1		159.5		
2	2/19/93	2	1		153.9		
2	2/19/93	3	1		142.9		
2	2/19/93	4	1		130.8		
2	2/19/93	5	1		115		
2	2/19/93	6	1		106.4		
2	2/19/93	7	1		104.5		
2	2/19/93	8	1		104.3		
2	3/3/93	1	1		168		
2	3/3/93	2	1		162		
2	3/3/93	3	1		150		
2	3/3/93	4	1		137		
2	3/3/93	5	1		121		
2	3/3/93	6	1		112		
2	3/3/93	7	1		110		
2	3/3/93	8	1		102		
2	4/8/93	1	1		157		
2	4/8/93	2	1		152		
2	4/8/93	3	1		142		
2	4/8/93	4	1		131		
2	4/8/93	5	1		116		
2	4/8/93	6	1		108		
2	4/8/93	7	1		106		
2	4/8/93	8	1		106		
2	5/6/93	1	1		157		
2	5/6/93	2	1		142		
2	5/6/93	3	1		143		
2	5/6/93	4	1		132		
2	5/6/93	5	1		117		
2	5/6/93	6	1		109		
2	5/6/93	7	1		107		
2	5/6/93	8	1		107		
2	6/3/93	1	1		158		
2	6/3/93	2	1		153		
2	6/3/93	3	1		144		
2	6/3/93	4	1		134		
2	6/3/93	5	1		120		
2	6/3/93	6	1		112		
2	6/3/93	7	1		110		
2	6/3/93	8	1		110		
2	6/18/93	1	1		166.2		
2	6/18/93	2	1		161.7		
2	6/18/93	3	1		151.8		
2	6/18/93	4	1		140.3		
2	6/18/93	5	1		125.4		
2	6/18/93	6	1		116.7		
2	6/18/93	7	1		114.5		
2	6/18/93	8	1		113.9		
2	7/1/93	1	1		163.6		
2	7/1/93	2	1		158.2		
2	7/1/93	3	1		148.6		
2	7/1/93	4	1		137.8		
2	7/1/93	5	1		123.4		
2	7/1/93	6	1		115.2		
2	7/1/93	7	1		113.4		
2	7/1/93	8	1		112.9		
2	8/5/93	1	1		165.8		
2	8/5/93	1	2		161		
2	8/5/93	2	1		160.5		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	8/5/93	2	2		156		
2	8/5/93	3	1		151.5		
2	8/5/93	3	2		148		
2	8/5/93	4	1		141.6		
2	8/5/93	4	2		138		
2	8/5/93	5	1		128		
2	8/5/93	5	2		126		
2	8/5/93	6	1		120.5		
2	8/5/93	6	2		118		
2	8/5/93	7	1		118.9		
2	8/5/93	7	2		117		
2	8/5/93	8	1		118.5		
2	8/5/93	8	2		116		
2	9/3/93	2	1		167.8		
2	9/3/93	3	1		158.4		
2	9/3/93	4	1		147.6		
2	9/3/93	5	1		133.3		
2	9/3/93	6	1		125.2		
2	9/3/93	7	1		122.5		
2	9/3/93	8	1		122.5		
2	9/4/93	1	1		168		
2	9/4/93	2	1		164.5		
2	9/4/93	3	1		155.1		
2	9/4/93	4	1		144.3		
2	9/4/93	5	1		129.7		
2	9/4/93	6	1		121.4		
2	9/4/93	7	1		118.8		
2	9/4/93	8	1		118.2		
2	10/5/93	1	1		170.6		
2	10/5/93	2	1		165.9		
2	10/5/93	3	1		156.3		
2	10/5/93	4	1		145.3		
2	10/5/93	5	1		130.6		
2	10/5/93	6	1		122.4		
2	10/5/93	7	1		120.5		
2	10/5/93	8	1		120.3		
2	10/11/93	1	1		170.9		
2	10/11/93	2	1		166		
2	10/11/93	3	1		156.2		
2	10/11/93	4	1		145		
2	10/11/93	5	1		129.7		
2	10/11/93	6	1		121.2		
2	10/11/93	7	1		119.3		
2	10/11/93	8	1		119.3		
2	10/18/93	1	1		167.5		
2	10/18/93	2	1		162.4		
2	10/18/93	3	1		154.1		
2	10/18/93	4	1		144.8		
2	10/18/93	5	1		132.1		
2	10/18/93	6	1		125.3		
2	10/18/93	7	1		123.3		
2	10/18/93	8	1		122.4		
2	11/1/93	1	1		170.9		
2	11/1/93	2	1		165.9		
2	11/1/93	3	1		155.8		
2	11/1/93	4	1		144.3		
2	11/1/93	5	1		128.6		
2	11/1/93	6	1		120		
2	11/1/93	7	1		118.2		
2	11/1/93	8	1		118.1		
2	11/29/93	1	1		172.7		
2	11/29/93	2	1		168.1		
2	11/29/93	3	1		158.6		
2	11/29/93	4	1		147.3		
2	11/29/93	5	1		134		
2	11/29/93	6	1		126.2		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	11/29/93	7	1		124.2		
2	11/29/93	8	1		123.8		
2	12/2/93	1	1		172.7		
2	12/2/93	2	1		168		
2	12/2/93	3	1		158.6		
2	12/2/93	4	1		148.2		
2	12/2/93	5	1		134.3		
2	12/2/93	6	1		126.4		
2	12/2/93	7	1		124.4		
2	12/2/93	8	1		124.1		
2	12/21/93	1	1		174.3		
2	12/21/93	1	2		173.5		
2	12/21/93	2	1		169.6		
2	12/21/93	2	2		168.8		
2	12/21/93	3	1		160		
2	12/21/93	3	2		169.6		
2	12/21/93	4	1		149.2		
2	12/21/93	4	2		148.7		
2	12/21/93	5	1		133.7		
2	12/21/93	5	2		133.7		
2	12/21/93	6	1		124.4		
2	12/21/93	6	2		124.3		
2	12/21/93	7	1		122.3		
2	12/21/93	7	2		122.2		
2	12/21/93	8	1		122.3		
2	12/21/93	8	2		122.1		
2	12/22/93	1	1		174.3		
2	12/22/93	2	1		169.7		
2	12/22/93	3	1		160.3		
2	12/22/93	4	1		149.6		
2	12/22/93	5	1		135.5		
2	12/22/93	6	1		127.7		
2	12/22/93	7	1		125.6		
2	12/22/93	8	1		125.4		
2	12/23/93	1	1		173.7		
2	12/23/93	2	1		169.1		
2	12/23/93	3	1		159.6		
2	12/23/93	4	1		148.9		
2	12/23/93	5	1		135.2		
2	12/23/93	6	1		127.2		
2	12/23/93	7	1		125.1		
2	12/23/93	8	1		124.8		
2	12/28/93	1	1		174		
2	12/28/93	2	1		169.2		
2	12/28/93	3	1		160		
2	12/28/93	4	1		149		
2	12/28/93	5	1		133.5		
2	12/28/93	6	1		123.9		
2	12/28/93	7	1		122		
2	12/28/93	8	1		122		
2	12/29/93	1	1		174.4		
2	12/29/93	1	2		173.9		
2	12/29/93	1	3		174.6		
2	12/29/93	1	4		174.9		
2	12/29/93	2	1		169.7		
2	12/29/93	2	2		169.4		
2	12/29/93	2	3		170		
2	12/29/93	2	4		170.2		
2	12/29/93	3	1		160.4		
2	12/29/93	3	2		159.9		
2	12/29/93	3	3		160.5		
2	12/29/93	3	4		160.5		
2	12/29/93	4	1		149.1		
2	12/29/93	4	2		148.7		
2	12/29/93	4	3		149.2		
2	12/29/93	4	4		149		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	12/29/93	5	1		132.8		
2	12/29/93	5	2		132.5		
2	12/29/93	5	3		132.7		
2	12/29/93	5	4		132.6		
2	12/29/93	6	1		123.6		
2	12/29/93	6	2		122.9		
2	12/29/93	6	3		123.3		
2	12/29/93	6	4		123.2		
2	12/29/93	7	1		121.7		
2	12/29/93	7	2		121.1		
2	12/29/93	7	3		121.3		
2	12/29/93	7	4		121.5		
2	12/29/93	8	1		121.7		
2	12/29/93	8	2		121.1		
2	12/29/93	8	3		121.5		
2	12/29/93	8	4		121.5		
2	12/30/93	1	1		174.8		
2	12/30/93	2	1		169.9		
2	12/30/93	3	1		160.1		
2	12/30/93	4	1		148.3		
2	12/30/93	5	1		131.8		
2	12/30/93	6	1		122.3		
2	12/30/93	7	1		120.4		
2	12/30/93	8	1		120.5		
2	12/31/93	1	1		174.8		
2	12/31/93	2	1		170		
2	12/31/93	3	1		160.2		
2	12/31/93	4	1		148.2		
2	12/31/93	5	1		131.7		
2	12/31/93	6	1		122.1		
2	12/31/93	7	1		120.1		
2	12/31/93	8	1		120.3		
3	2/2/75	1			194		
3	2/2/75	2			170		
3	2/2/75	3			125		
3	12/1/75	1			200		
3	12/1/75	2			175		
3	12/1/75	3			127		
3	7/1/77	1			204		
3	7/1/77	2			184		
3	7/1/77	3			145		
3	7/1/77	4			119		
3	8/1/77	1			205		
3	8/1/77	2			185		
3	8/1/77	3			147		
3	8/1/77	4			122		
3	9/1/77	1			207		
3	9/1/77	2			187		
3	9/1/77	3			148		
3	9/1/77	4			122		
3	9/15/77	1			208		
3	9/15/77	2			187		
3	9/15/77	3			148		
3	9/15/77	4			122		
3	9/19/77	1			208		
3	9/19/77	2			187		
3	9/19/77	3			148		
3	9/19/77	4			123		
3	9/22/77	1			207		
3	9/22/77	2			187		
3	9/22/77	3			149		
3	9/22/77	4			124		
3	10/3/77	1			208		
3	10/3/77	2			188		
3	10/3/77	3			146		
3	10/3/77	4			119		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
3	1/20/89	1	1		229		
3	1/20/89	2	1		221		
3	1/20/89	3	1		207		
3	1/20/89	4	1		192		
3	1/20/89	5	1		169		
3	1/20/89	6	1		149		
3	1/20/89	7	1		146		
3	1/20/89	8	1		142		
4	2/2/75	1			192		
4	2/2/75	2			165		
4	2/2/75	3			116		
4	12/1/75	1			198		
4	12/1/75	2			169		
4	12/1/75	3			116		
4	7/1/77	1			204		
4	7/1/77	2			180		
4	7/1/77	3			138		
4	7/1/77	4			119		
4	8/1/77	1			205		
4	8/1/77	2			182		
4	8/1/77	3			132		
4	8/1/77	4			122		
4	9/1/77	1			208		
4	9/1/77	2			184		
4	9/1/77	3			141		
4	9/1/77	4			120		
4	9/15/77	1			208		
4	9/15/77	2			184		
4	9/15/77	3			141		
4	9/15/77	4			121		
4	9/19/77	1			208		
4	9/19/77	2			183		
4	9/19/77	3			142		
4	9/19/77	4			123		
4	9/22/77	1			207		
4	9/22/77	2			183		
4	9/22/77	3			142		
4	9/22/77	4			123		
4	10/3/77	1			208		
4	10/3/77	2			184		
4	10/3/77	3			138		
4	10/3/77	4			117		
4	1/20/89	1	1		227		
4	1/20/89	2	1		219		
4	1/20/89	3	1		204		
4	1/20/89	4	1		188		
4	1/20/89	5	1		183		
4	1/20/89	6	1		159		
4	1/20/89	7	1		149		
4	1/20/89	8	1		146		
5	2/2/75	1			177		
5	2/2/75	2			155		
5	2/2/75	3			107		
5	12/1/75	1			182		
5	12/1/75	2			159		
5	12/1/75	3			106		
5	7/1/77	1			187		
5	7/1/77	2			169		
5	7/1/77	3			130		
5	7/1/77	4			120		
5	8/1/77	1			188		
5	8/1/77	2			171		
5	8/1/77	3			132		
5	8/1/77	4			122		
5	9/1/77	1			191		
5	9/1/77	2			173		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
5	9/1/77	3			133		
5	9/1/77	4			122		
5	9/15/77	1			191		
5	9/15/77	2			173		
5	9/15/77	3			133		
5	9/15/77	4			122		
5	9/19/77	1			196		
5	9/19/77	2			172		
5	9/19/77	3			134		
5	9/19/77	4			124		
5	9/22/77	1			190		
5	9/22/77	2			173		
5	9/22/77	3			134		
5	9/22/77	4			124		
5	10/3/77	1			192		
5	10/3/77	2			172		
5	10/3/77	3			129		
5	10/3/77	4			119		
5	1/20/89	1	1		208		
5	1/20/89	2	1		201		
5	1/20/89	3	1		189		
5	1/20/89	4	1		174		
5	1/20/89	5	1		153		
5	1/20/89	6	1		145		
5	1/20/89	7	1		143		
5	1/20/89	8	1		143		
5	6/13/89	1	1		188		
5	6/13/89	2	1		181.6		
5	6/13/89	3	1		174.1		
5	6/13/89	4	1		157.4		
5	6/13/89	5	1		138.3		
5	6/13/89	6	1		131.1		
5	6/13/89	7	1		129.1		
5	6/13/89	8	1		128.9		
5	7/20/89	1	1		188		
5	7/20/89	2	1		181.6		
5	7/20/89	3	1		174.1		
5	7/20/89	4	1		157.4		
5	7/20/89	5	1		138.3		
5	7/20/89	6	1		131.1		
5	7/20/89	7	1		129.1		
5	7/20/89	8	1		129.9		
6	2/2/75	1			169		
6	2/2/75	2			146		
6	2/2/75	3			126		
6	12/1/75	1			174		
6	12/1/75	2			150		
6	12/1/75	3			129		
6	7/1/77	1			180		
6	7/1/77	2			162		
6	7/1/77	3			145		
6	7/1/77	4			128		
6	8/1/77	1			181		
6	8/1/77	2			163		
6	8/1/77	3			147		
6	8/1/77	4			130		
6	9/1/77	1			184		
6	9/1/77	2			166		
6	9/1/77	3			149		
6	9/1/77	4			131		
6	9/15/77	1			183		
6	9/15/77	2			165		
6	9/15/77	3			148		
6	9/15/77	4			131		
6	9/19/77	1			183		
6	9/19/77	2			165		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
6	9/19/77	3			149		
6	9/19/77	4			132		
6	9/22/77	1			183		
6	9/22/77	2			165		
6	9/22/77	3			149		
6	9/22/77	4			133		
6	10/3/77	1			184		
6	10/3/77	2			165		
6	10/3/77	3			147		
6	10/3/77	4			128		
6	1/20/89	1	1		212		
6	1/20/89	2	1		202		
6	1/20/89	3	1		191		
6	1/20/89	4	1		181		
6	1/20/89	5	1		173		
6	1/20/89	6	1		165		
6	1/20/89	7	1		157		
6	1/20/89	8	1		148		
6	3/6/89	1	1		194		
6	3/6/89	2	1		184		
6	3/6/89	3	1		170		
6	3/6/89	4	1		162		
6	3/6/89	5	1		152		
6	3/6/89	6	1		142		
6	3/6/89	7	1		137		
6	3/6/89	8	1		132		
6	5/3/89	1	1		179.6		
6	5/3/89	2	1		171.1		
6	5/3/89	3	1		158.5		
6	5/3/89	4	1		150.2		
6	5/3/89	5	1		142.8		
6	5/3/89	6	1		135.7		
6	5/3/89	7	1		123		
6	5/3/89	8	1		123		
7	2/2/75	1			117		
7	2/2/75	2			102		
7	2/2/75	3			96		
7	12/1/75	1			119		
7	12/1/75	2			101		
7	12/1/75	3			94		
7	7/1/77	1			138		
7	7/1/77	2			125		
7	7/1/77	3			120		
7	7/1/77	4			119		
7	8/1/77	1			140		
7	8/1/77	2			128		
7	8/1/77	3			123		
7	8/1/77	4			121		
7	9/1/77	1			142		
7	9/1/77	2			128		
7	9/1/77	3			123		
7	9/1/77	4			122		
7	9/15/77	1			141		
7	9/15/77	2			128		
7	9/15/77	3			123		
7	9/15/77	4			121		
7	9/19/77	1			142		
7	9/19/77	2			129		
7	9/19/77	3			125		
7	9/19/77	4			123		
7	9/22/77	1			142		
7	9/22/77	2			130		
7	9/22/77	3			125		
7	9/22/77	4			124		
7	10/3/77	1			139		
7	10/3/77	2			125		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
7	10/3/77	3			119		
7	10/3/77	4			119		
7	1/20/89	1	1		163		
7	1/20/89	2	1		157		
7	1/20/89	3	1		151		
7	1/20/89	4	1		148		
7	1/20/89	5	1		146		
7	1/20/89	6	1		144		
7	1/20/89	7	1		141		
7	1/20/89	8	1		144		
7	3/24/89	3	1		120		
7	3/31/89	3	1		129		
7	4/7/89	3	1		120		
7	4/21/89	3	1		131		
7	5/13/89	3	1		131		
7	6/4/89	3	1		129		
7	6/13/89	1	1		141.3		
7	6/13/89	2	1		135.7		
7	6/13/89	3	1		131.8		
7	6/13/89	4	1		129.6		
7	6/13/89	5	1		127		
7	6/13/89	6	1		126.1		
7	6/13/89	7	1		125.7		
7	6/13/89	8	1		125.6		
7	7/20/89	1	1		141.3		
7	7/20/89	2	1		135.7		
7	7/20/89	3	1		131.8		
7	7/20/89	4	1		129.6		
7	7/20/89	5	1		127.6		
7	7/20/89	6	1		126.1		
7	7/20/89	7	1		125.7		
7	7/20/89	8	1		125.6		
8	2/2/75	1			169		
8	2/2/75	2			153		
8	2/2/75	3			115		
8	12/1/75	1			170		
8	12/1/75	2			157		
8	12/1/75	3			94		
8	7/1/77	1			178		
8	7/1/77	2			168		
8	7/1/77	3			121		
8	8/1/77	1			180		
8	8/1/77	2			170		
8	8/1/77	3			124		
8	9/1/77	1			186		
8	9/1/77	2			172		
8	9/1/77	3			124		
8	9/15/77	1			187		
8	9/15/77	2			172		
8	9/15/77	3			124		
8	9/19/77	1			192		
8	9/19/77	2			172		
8	9/22/77	1			190		
8	9/22/77	2			172		
8	9/22/77	3			126		
8	10/3/77	1			181		
8	10/3/77	2			171		
8	10/3/77	3			120		
8	1/20/89	1	1		201		
8	1/20/89	2	1		189		
8	1/20/89	4	1		169		
8	1/20/89	5	1		144		
8	1/20/89	6	1		143		
8	1/20/89	7	1		143		
8	1/20/89	8	1		130		
8	3/6/89	1	1		181		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	3/6/89	2	1		168		
8	3/6/89	4	1		132		
8	3/6/89	5	1		125		
8	3/6/89	6	1		124		
8	3/6/89	7	1		122		
8	5/3/89	1	1		174.5		
8	5/3/89	2	1		164.3		
8	5/3/89	5	1		123.9		
8	5/3/89	6	1		123		
8	5/3/89	7	1		123.2		
8	8/14/89	1	1		181.5		
8	8/14/89	2	1		172		
8	8/14/89	4	1		117.8		
8	8/14/89	5	1		132.5		
8	8/14/89	6	1		131.1		
8	8/14/89	7	1		131.1		
8	8/14/89	8	1		103.7		
8	9/6/89	1	1		190.4		
8	9/6/89	2	1		181.6		
8	9/6/89	4	1		121.8		
8	9/6/89	5	1		133.1		
8	9/6/89	6	1		140.4		
8	9/6/89	7	1		140.5		
8	9/6/89	8	1		111.7		
8	10/16/89	1	1		177.8		
8	10/16/89	2	1		168.2		
8	10/16/89	3	1		161.8		
8	10/16/89	4	1		126.7		
8	10/16/89	5	1		127.7		
8	10/16/89	6	1		127.4		
8	10/16/89	7	1		127.4		
8	10/16/89	8	1		116.9		
8	11/6/89	1	1		172		
8	11/6/89	2	1		163		
8	11/6/89	5	1		122		
8	11/6/89	7	1		121		
8	12/5/89	1	1		175		
8	12/5/89	2	1		164		
8	12/5/89	4	1		126		
8	12/5/89	5	1		124		
8	12/5/89	6	1		122		
8	12/5/89	7	1		122		
8	12/5/89	8	1		112		
8	1/3/90	1	1		173		
8	1/3/90	2	1		164		
8	1/3/90	4	1		130		
8	1/3/90	5	1		123		
8	1/3/90	6	1		121		
8	1/3/90	7	1		122		
8	1/3/90	8	1		115		
8	2/1/90	1	1		170		
8	2/1/90	2	1		161		
8	2/1/90	4	1		125		
8	2/1/90	5	1		119		
8	2/1/90	6	1		116		
8	2/1/90	7	1		117		
8	2/1/90	8	1		102		
8	3/8/90	1	1		163		
8	3/8/90	2	1		154		
8	3/8/90	5	1		112		
8	3/8/90	6	1		111		
8	3/8/90	7	1		112		
8	3/8/90	8	1		93		
8	4/3/90	1	1		163		
8	4/3/90	2	1		154		
8	4/3/90	4	1		113		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	4/3/90	5	1		112		
8	4/3/90	6	1		110		
8	4/3/90	7	1		111		
8	4/3/90	8	1		68		
8	5/3/90	1	1		164		
8	5/3/90	2	1		154		
8	5/3/90	5	1		114		
8	5/3/90	6	1		113		
8	5/3/90	7	1		113		
8	5/3/90	8	1		58		
8	6/7/90	1	1		168		
8	6/7/90	2	1		158		
8	6/7/90	5	1		118		
8	6/7/90	6	1		117		
8	6/7/90	7	1		117		
8	6/7/90	8	1		92		
8	7/3/90	1	1		170		
8	7/3/90	2	1		166		
8	7/3/90	3	1		156		
8	7/3/90	5	1		129		
8	7/3/90	6	1		120		
8	7/3/90	7	1		118		
8	7/3/90	8	1		118		
8	8/2/90	1	1		171		
8	8/2/90	2	1		162		
8	8/2/90	5	1		123		
8	8/2/90	6	1		122		
8	8/2/90	7	1		122		
8	8/2/90	8	1		97		
8	9/6/90	1	1		166		
8	9/6/90	2	1		161		
8	9/6/90	4	1		109		
8	9/6/90	5	1		122		
8	9/6/90	6	1		122		
8	9/6/90	7	1		122		
8	9/6/90	8	1		104		
8	10/2/90	1	1		173		
8	10/2/90	2	1		164		
8	10/2/90	4	1		125		
8	10/2/90	5	1		124		
8	10/2/90	6	1		123		
8	10/2/90	7	1		123		
8	10/2/90	8	1		119		
8	11/13/90	2	1		161		
8	11/13/90	4	1		128		
8	11/13/90	5	1		121		
8	11/13/90	6	1		120		
8	11/13/90	7	1		119		
8	11/13/90	8	1		113		
8	12/5/90	1	1		170.5		
8	12/5/90	2	1		159.9		
8	12/5/90	3	1		122.2		
8	12/5/90	4	1		127.3		
8	12/5/90	5	1		117.1		
8	12/5/90	6	1		115.7		
8	12/5/90	7	1		115.6		
8	12/5/90	8	1		116		
8	1/3/91	1	1		166.3		
8	1/3/91	2	1		156.9		
8	1/3/91	4	1		120.6		
8	1/3/91	5	1		111.1		
8	1/3/91	6	1		110		
8	1/3/91	7	1		110		
8	1/3/91	8	1		112.2		
8	2/20/91	1	1		154		
8	2/20/91	2	1		152.4		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	2/20/91	4	1		117.7		
8	2/20/91	5	1		110		
8	2/20/91	6	1		108.1		
8	2/20/91	7	1		109.8		
8	2/20/91	8	1		104.9		
8	3/14/91	1	1		162.3		
8	3/14/91	2	1		151.2		
8	3/14/91	4	1		113.9		
8	3/14/91	5	1		107.9		
8	3/14/91	6	1		106.4		
8	3/14/91	7	1		116.3		
8	3/14/91	8	1		113.4		
8	4/17/91	1	1		161.8		
8	4/17/91	2	1		150.6		
8	4/17/91	4	1		106.4		
8	4/17/91	5	1		108.7		
8	4/17/91	6	1		106.4		
8	4/17/91	7	1		106.2		
8	4/17/91	8	1		98.3		
8	5/2/91	1	1		163.9		
8	5/2/91	2	1		152.6		
8	5/2/91	4	1		110.4		
8	5/2/91	5	1		114.4		
8	5/2/91	6	1		109.9		
8	5/2/91	7	1		109.4		
8	5/2/91	8	1		97		
8	6/14/91	1	1		164.1		
8	6/14/91	2	1		164.6		
8	6/14/91	4	1		119.1		
8	6/14/91	5	1		114.1		
8	6/14/91	6	1		113		
8	6/14/91	7	1		113		
8	6/14/91	8	1		110		
8	7/19/91	1	1		164.7		
8	7/19/91	2	1		155		
8	7/19/91	4	1		122.4		
8	7/19/91	5	1		116.5		
8	7/19/91	6	1		115.1		
8	7/19/91	7	1		115.1		
8	7/19/91	8	1		110.4		
8	8/15/91	1	1		168.1		
8	8/15/91	2	1		158.7		
8	8/15/91	4	1		121		
8	8/15/91	5	1		119.9		
8	8/15/91	6	1		118.5		
8	8/15/91	7	1		118.4		
8	8/15/91	8	1		109		
8	9/5/91	1	1		169.1		
8	9/5/91	2	1		159.5		
8	9/5/91	4	1		123.1		
8	9/5/91	5	1		124.4		
8	9/5/91	6	1		119.4		
8	9/5/91	7	1		119.4		
8	9/5/91	8	1		113.4		
8	10/7/91	1	1		171.3		
8	10/7/91	2	1		161.4		
8	10/7/91	4	1		121		
8	10/7/91	5	1		121.6		
8	10/7/91	6	1		120.4		
8	10/7/91	7	1		120.6		
8	10/7/91	8	1		116.6		
8	11/10/91	1	1		171.3		
8	11/10/91	2	1		160.7		
8	11/10/91	3	1		126.3		
8	11/10/91	4	1		128.3		
8	11/10/91	5	1		119.3		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	11/10/91	6	1		117.5		
8	11/10/91	7	1		117.4		
8	11/10/91	8	1		118.3		
8	12/6/91	1	1		169.1		
8	12/6/91	2	1		158.4		
8	12/6/91	3	1		104		
8	12/6/91	4	1		125.8		
8	12/6/91	5	1		115.8		
8	12/6/91	6	1		114.1		
8	12/6/91	7	1		114.4		
8	12/6/91	8	1		114.7		
8	1/17/92	1	1		171		
8	1/17/92	2	1		157.5		
8	1/17/92	3	1		135.4		
8	1/17/92	4	1		124.5		
8	1/17/92	5	1		114.3		
8	1/17/92	6	1		112.4		
8	1/17/92	7	1		112.6		
8	1/17/92	8	1		113.5		
8	2/21/92	1	1		167		
8	2/21/92	2	1		157		
8	2/21/92	3	1		115		
8	2/21/92	4	1		126		
8	2/21/92	5	1		114		
8	2/21/92	6	1		113		
8	2/21/92	7	1		113		
8	2/21/92	8	1		111		
8	3/5/92	1	1		168		
8	3/5/92	2	1		158		
8	3/5/92	3	1		129		
8	3/5/92	4	1		130		
8	3/5/92	5	1		115		
8	3/5/92	6	1		115		
8	3/5/92	7	1		115		
8	3/5/92	8	1		114		
8	4/2/92	1	1		164		
8	4/2/92	2	1		154		
8	4/2/92	4	1		119		
8	4/2/92	5	1		112		
8	4/2/92	6	1		112		
8	4/2/92	7	1		112		
8	4/2/92	8	1		116		
8	5/14/92	1	1		164		
8	5/14/92	2	1		155		
8	5/14/92	3	1		155		
8	5/14/92	4	1		121		
8	5/14/92	5	1		116		
8	5/14/92	6	1		113		
8	5/14/92	7	1		113		
8	5/14/92	8	1		109		
8	6/4/92	1	1		167		
8	6/4/92	2	1		157		
8	6/4/92	4	1		126		
8	6/4/92	5	1		120		
8	6/4/92	6	1		118		
8	6/4/92	7	1		116		
8	6/4/92	8	1		120		
8	7/1/92	1	1		173		
8	7/1/92	2	1		164		
8	7/1/92	3	1		144		
8	7/1/92	4	1		131		
8	7/1/92	5	1		125		
8	7/1/92	6	1		124		
8	7/1/92	7	1		123		
8	7/1/92	8	1		119		
8	8/7/92	1	1		170.6		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	8/7/92	2	1		165.3		
8	8/7/92	4	1		129.2		
8	8/7/92	5	1		126.5		
8	8/7/92	6	1		121.5		
8	8/7/92	7	1		125.3		
8	8/7/92	8	1		119.5		
8	9/3/92	1	1		171		
8	9/3/92	2	1		161.7		
8	9/3/92	4	1		127.4		
8	9/3/92	5	1		120		
8	9/3/92	6	1		118.6		
8	9/3/92	7	1		118.5		
8	9/3/92	8	1		118.5		
8	10/8/92	1	1		171		
8	10/8/92	2	1		161		
8	10/8/92	3	1		140		
8	10/8/92	4	1		125		
8	10/8/92	5	1		117		
8	10/8/92	6	1		116		
8	10/8/92	7	1		116		
8	10/8/92	8	1		115		
8	11/5/92	1	1		163		
8	11/5/92	2	1		153		
8	11/5/92	3	1		138		
8	11/5/92	4	1		122		
8	11/5/92	5	1		114		
8	11/5/92	6	1		114		
8	11/5/92	7	1		113		
8	11/5/92	8	1		112		
8	12/4/92	1	1		164		
8	12/4/92	2	1		153		
8	12/4/92	4	1		119		
8	12/4/92	5	1		111		
8	12/4/92	6	1		109		
8	12/4/92	7	1		109		
8	12/4/92	8	1		109		
8	1/5/93	1	1		169		
8	1/5/93	2	1		158		
8	1/5/93	3	1		117		
8	1/5/93	4	1		124		
8	1/5/93	5	1		115		
8	1/5/93	6	1		114		
8	1/5/93	7	1		113		
8	1/5/93	8	1		114		
8	2/19/93	1	1		159.3		
8	2/19/93	2	1		147.5		
8	2/19/93	3	1		131.8		
8	2/19/93	4	1		114.6		
8	2/19/93	5	1		106.5		
8	2/19/93	6	1		104.9		
8	2/19/93	7	1		105.1		
8	2/19/93	8	1		104.9		
8	3/3/93	1	1		164		
8	3/3/93	2	1		153		
8	3/3/93	3	1		129		
8	3/3/93	4	1		113		
8	3/3/93	5	1		105		
8	3/3/93	6	1		104		
8	3/3/93	7	1		104		
8	3/3/93	8	1		104		
8	4/8/93	1	1		155		
8	4/8/93	2	1		146		
8	4/8/93	3	1		130		
8	4/8/93	4	1		116		
8	4/8/93	5	1		107		
8	4/8/93	6	1		105		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	4/8/93	7	1		105		
8	4/8/93	8	1		105		
8	5/6/93	1	1		156		
8	5/6/93	2	1		147		
8	5/6/93	3	1		132		
8	5/6/93	4	1		117		
8	5/6/93	5	1		107		
8	5/6/93	6	1		105		
8	5/6/93	7	1		107		
8	5/6/93	8	1		107		
8	6/3/93	1	1		163		
8	6/3/93	2	1		152		
8	6/3/93	3	1		132		
8	6/3/93	4	1		118		
8	6/3/93	5	1		110		
8	6/3/93	6	1		109		
8	6/3/93	7	1		109		
8	6/3/93	8	1		109		
8	6/18/93	1	1		164.8		
8	6/18/93	2	1		154.6		
8	6/18/93	5	1		116.2		
8	6/18/93	6	1		114.3		
8	6/18/93	7	1		114.3		
8	7/1/93	1	1		162.2		
8	7/1/93	2	1		151.5		
8	7/1/93	5	1		113.5		
8	7/1/93	6	1		111.8		
8	7/1/93	7	1		121.1		
8	8/5/93	1	1		165.5		
8	8/5/93	1	2		162		
8	8/5/93	2	1		155.3		
8	8/5/93	2	2		153		
8	8/5/93	3	2		140		
8	8/5/93	4	2		125		
8	8/5/93	5	1		118.4		
8	8/5/93	5	2		118		
8	8/5/93	6	1		115.9		
8	8/5/93	6	2		115		
8	8/5/93	7	1		117.6		
8	8/5/93	7	2		116		
8	8/5/93	8	2		115		
8	9/3/93	2	1		161.1		
8	9/3/93	5	1		122.8		
8	9/3/93	6	1		120.5		
8	9/3/93	7	1		121.6		
8	9/4/93	1	1		166		
8	9/4/93	2	1		156.4		
8	9/4/93	5	1		119.4		
8	9/4/93	6	1		116.1		
8	9/4/93	7	1		116.4		
8	10/5/93	1	1		169.6		
8	10/5/93	2	1		159.1		
8	10/5/93	5	1		120.6		
8	10/5/93	6	1		118.6		
8	10/5/93	7	1		119.4		
8	10/11/93	1	1		170.3		
8	10/11/93	2	1		159.5		
8	10/11/93	5	1		119.5		
8	10/11/93	6	1		117.7		
8	10/11/93	7	1		118.5		
8	10/18/93	1	1		168		
8	10/18/93	2	1		158.3		
8	10/18/93	5	1		123.5		
8	10/18/93	6	1		121.7		
8	10/18/93	7	1		122		
8	11/1/93	1	1		170		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	11/1/93	2	1		159.3		
8	11/1/93	5	1		118.8		
8	11/1/93	6	1		117.1		
8	11/1/93	7	1		117.9		
8	11/29/93	1	1		172.9		
8	11/29/93	2	1		163.5		
8	11/29/93	5	1		125.6		
8	11/29/93	6	1		123.9		
8	11/29/93	7	1		123.8		
8	12/2/93	1	1		172.6		
8	12/2/93	2	1		163.5		
8	12/2/93	4	1		45.6		
8	12/2/93	5	1		125.9		
8	12/2/93	6	1		124.4		
8	12/2/93	7	1		124.1		
8	12/21/93	1	1		174.6		
8	12/21/93	1	2		173.2		
8	12/21/93	2	1		165.3		
8	12/21/93	2	2		164.2		
8	12/21/93	4	2		61		
8	12/21/93	5	1		124.6		
8	12/21/93	5	2		124.3		
8	12/21/93	6	1		123.3		
8	12/21/93	6	2		122.8		
8	12/21/93	7	1		123.1		
8	12/21/93	7	2		122.5		
8	12/22/93	1	1		174.7		
8	12/22/93	2	1		165.4		
8	12/22/93	5	1		127.3		
8	12/22/93	6	1		125.8		
8	12/22/93	7	1		125.3		
8	12/23/93	1	1		174.1		
8	12/23/93	2	1		164.8		
8	12/23/93	4	1		61.8		
8	12/23/93	5	1		126.8		
8	12/23/93	6	1		125.4		
8	12/23/93	7	1		125.1		
8	12/28/93	1	1		173.8		
8	12/28/93	2	1		164.9		
8	12/28/93	4	1		62.9		
8	12/28/93	5	1		124		
8	12/28/93	6	1		122.8		
8	12/28/93	7	1		122.7		
8	12/29/93	1	1		174.3		
8	12/29/93	1	2		174.1		
8	12/29/93	1	3		174.8		
8	12/29/93	1	4		174.9		
8	12/29/93	2	1		165.1		
8	12/29/93	2	2		164.8		
8	12/29/93	2	3		165.3		
8	12/29/93	2	4		165.4		
8	12/29/93	4	1		63		
8	12/29/93	4	2		60.5		
8	12/29/93	4	3		59.9		
8	12/29/93	4	4		60		
8	12/29/93	5	1		123.9		
8	12/29/93	5	2		123.3		
8	12/29/93	5	3		123.7		
8	12/29/93	5	4		123.6		
8	12/29/93	6	1		122.7		
8	12/29/93	6	2		122.3		
8	12/29/93	6	3		122.5		
8	12/29/93	6	4		122.6		
8	12/29/93	7	1		122.6		
8	12/29/93	7	2		122.1		
8	12/29/93	7	3		122.3		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-107							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/29/93	7	4		122.3		
8	12/30/93	1	1		174.9		
8	12/30/93	2	1		165.2		
8	12/30/93	5	1		123.2		
8	12/30/93	6	1		122		
8	12/30/93	7	1		121.9		
8	12/31/93	1	1		174.3		
8	12/31/93	2	1		164.8		
8	12/31/93	4	1		47.7		
8	12/31/93	5	1		122.7		
8	12/31/93	6	1		121.6		
8	12/31/93	7	1		121.4		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-107-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	9/1/74	1			173		
1	2/1/75	1			181		
1	7/1/75	1			187		
1	12/1/75	1			187		
1	1/1/76	1			187		
1	2/2/76	1					157 - suspect data (low)
1	7/1/76	1			187		
1	3/1/77	1			194		
1	6/1/77	1			201		
1	7/1/77	1			200		
1	8/1/77	1			200		
1	12/1/77	1			187		
1	1/20/89	1	1		194	Y	
1	6/13/89	1	1		188.6	Y	
1	7/20/89	1	1		188.6	Y	Currently taken by Maint Eng Services
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
1	9/1/74	2			150		
1	2/1/75	2			140		
1	7/1/75	2			145		
1	12/1/75	2			141		
1	1/1/76	2			141		
1	2/2/76	2			134		
1	7/1/76	2			157		
1	3/1/77	2			157		
1	6/1/77	2			162		
1	7/1/77	2			163		
1	8/1/77	2			165		
1	9/1/77	2			166		
1	9/9/77	2			166		
1	9/15/77	2			166		
1	9/19/77	2			167		
1	9/22/77	2			167		
1	9/24/77	2			168		
1	12/1/77	2			141		
1	9/1/74	3			136		
1	2/1/75	3			124		
1	7/1/75	3			130		
1	1/1/76	3			124		
1	7/1/76	3			142		
1	3/1/77	3			143		
1	6/1/77	3			148		
1	7/1/77	3			149		
1	8/1/77	3			151		
1	9/1/77	3			153		
1	9/9/77	3			152		
1	9/15/77	3			152		
1	9/19/77	3			153		
1	9/22/77	3			153		
1	9/24/77	3			154		
1	1/20/89	3	1		157	N	
1	6/13/89	3	1		154.5	N	
1	7/20/89	3	1		154.5	N	
1	9/1/74	4			134		
1	2/1/75	4			121		
1	7/1/75	4			127		
1	1/1/76	4			121		
1	7/1/76	4			140		
1	3/1/77	4			140		
1	6/1/77	4			145		
1	7/1/77	4			147		
1	8/1/77	4			148		
1	9/1/77	4			150		
1	9/9/77	4			150		
1	9/15/77	4			150		
1	9/19/77	4			150		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/22/77	4			151		
1	9/24/77	4			152		
1	1/20/89	5	1		143	N	
1	6/13/89	5	1		142.2	N	
1	7/20/89	5	1		142.2	N	
1	1/20/89	7	1		141	N	
1	6/13/89	7	1		140	N	
1	7/20/89	7	1		140	N	
2	9/1/74	1			189		
2	2/1/75	1			189		
2	7/1/75	1			193		
2	12/1/75	1			196		
2	1/1/76	1			198		
2	2/2/76	1			176		
2	7/1/76	1			209		
2	3/1/77	1			219		
2	6/1/77	1			223		
2	7/1/77	1			223		
2	8/1/77	1			229		
2	9/1/77	1			227		
2	9/9/77	1			227		
2	9/15/77	1			226		
2	9/19/77	1			226		
2	9/22/77	1			227		
2	9/24/77	1			227		
2	12/1/77	1			196		
2	1/20/89	1	1		213	Y	
2	5/3/89	1	1		200.7	Y	
2	8/14/89	1	1		204.9	Y	Currently taken by Maint Eng Services
2	9/6/89	1	1		204.3	Y	Currently taken by Maint Eng Services
2	10/16/89	1	1		205	Y	Currently taken by Maint Eng Services
2	11/6/89	1	1		203.8	Y	Currently taken by Maint Eng Services
2	12/5/89	1	1		199	Y	Currently taken by Maint Eng Services
2	1/3/90	1	1		199	Y	
2	2/1/90	1	1		198	Y	
2	3/8/90	1	1		193	Y	
2	4/3/90	1	1		193	Y	
2	5/3/90	1	1		193	Y	
2	6/7/90	1	1		195	Y	
2	7/3/90	1	1		195	Y	
2	8/2/90	1	1		194	Y	
2	9/6/90	1	1		196	Y	
2	10/2/90	1	1		200	Y	
2	11/13/90	1	1		199	Y	
2	12/5/90	1	1		197	Y	
2	1/3/91	1	1		197.5	Y	
2	2/20/91	1	1		195.4	Y	
2	3/14/91	1	1		193.1	Y	
2	4/17/91	1	1		192.4	Y	
2	5/2/91	1	1		197.1	Y	
2	6/14/91	1	1		193.2	Y	
2	8/15/91	1	1		195.4	Y	
2	9/5/91	1	1		193.5	Y	
2	10/7/91	1	1		195.4	Y	
2	11/10/91	1	1		197.3	Y	J-817-13-55-008
2	12/6/91	1	1		198	Y	J-817-13-55-008
2	1/17/92	1	1		197.3	Y	J-817-13-55-008
2	2/21/92	1	1		187	Y	J-817-13-20-019
2	4/2/92	1	1		190	Y	J 8171355010
2	5/14/92	1	1		189	Y	J 8171355010
2	6/4/92	1	1		189	Y	J 8171320019
2	7/1/92	1	1		194	Y	C19950
2	8/7/92	1	1		195.4	Y	J 817-13-55-008
2	9/3/92	1	1		194	Y	J 890523512-47
2	10/8/92	1	1		195	Y	
2	11/5/92	1	1		189	Y	J 817-13-20-019

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	12/4/92	1	1		190	Y	J 817-13-20-019
2	1/5/93	1	1		198	Y	817-13-20-019
2	2/2/93	1	1		186	Y	817-13-20-019
2	3/3/93	1	1		191	Y	817-13-20-019
2	4/8/93	1	1		184	Y	J 817-13-20-019
2	5/6/93	1	1		184	Y	I 817132019
2	6/3/93	1	1		188	Y	817-13-20-019
2	6/10/93	1	1		190.4	Y	
2	6/18/93	1	1		192	Y	910126143-32 TC 5-8 O/S
2	7/1/93	1	1		188.2	Y	890423320-42 TC 5-8 O/S
2	8/5/93	1	1		190.1	Y	890423320-42
2	8/5/93	1	2		184	Y	817-13-20-019
2	9/4/93	1	1		191.7	Y	TI-045 TC 5,6,7,8 O/S
2	10/11/93	1	1		196	Y	J 910126143-48
2	10/18/93	1	1		192	Y	910126143-14 TC 5,6,7,8 O/S
2	11/1/93	1	1		195	Y	910126143-29 TC 5,6,7,8 O/S
2	11/29/93	1	1			N	91012614329 TC 1,5,6,7,8 o/s
2	12/2/93	1	1			N	J 910126143-29 TC 1,5,6,7,8 O/S
2	12/21/93	1	1			N	910126143-29 TC 1,5,6,7,8 O/S
2	12/21/93	1	2			N	J 910126143-29 TC 1,5,6,7,8 O/S
2	12/22/93	1	1			N	910126143029 TC 1,5,6,7,8 O/S
2	12/23/93	1	1			N	910126143-29 TC 1,5,6,7,8 O/S
2	12/28/93	1	1			N	910126143-29 TC 1,5,6,7,8 O/S
2	12/29/93	1	1		199	Y	910126143-29 TC 5 THRU 8 O/S
2	12/29/93	1	2		198	Y	910126143-29 TC 5 THRU 8 O/S
2	12/29/93	1	3			N	J 910126143-32 TC 1,5 THRU 8 O/S
2	12/29/93	1	4			N	J 91012614332 TC 1,5 THRU 8 O/S
2	12/30/93	1	1			N	910126143-32 TC 1,5 thru 8 O/S
2	12/31/93	1	1		200	Y	910126143-32 TC 5 THRU 8 O/S
2	9/1/74	2			166		
2	2/1/75	2			160		
2	7/1/75	2			180		
2	12/1/75	2			168		
2	1/1/76	2			168		
2	2/2/76	2			158		
2	7/1/76	2			179		
2	3/1/77	2			185		
2	6/1/77	2			190		
2	7/1/77	2			191		
2	8/1/77	2			193		
2	9/1/77	2			194		
2	9/9/77	2			184		
2	9/15/77	2			194		
2	9/19/77	2			195		
2	9/22/77	2			195		
2	9/24/77	2			196		
2	12/1/77	2			168		
2	1/3/90	2	1		175	N	
2	3/8/90	2	1		169	N	
2	6/7/90	2	1		172	N	
2	8/2/90	2	1		173	N	
2	9/6/90	2	1		173	N	
2	10/2/90	2	1		178	N	
2	11/13/90	2	1		177	N	
2	12/5/90	2	1		172.4	N	
2	1/3/91	2	1		173.6	N	
2	2/20/91	2	1		168.6	N	
2	3/14/91	2	1		168.1	N	
2	4/17/91	2	1		167.9	N	
2	5/2/91	2	1		165.1	N	
2	6/14/91	2	1		170.1	N	
2	8/15/91	2	1		173.4	N	
2	9/5/91	2	1		171.6	N	
2	10/7/91	2	1		175.6	N	
2	11/10/91	2	1		174.1	N	
2	12/6/91	2	1		173	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	1/17/92	2	1		172.9	N	
2	2/21/92	2	1		162	N	
2	4/2/92	2	1		165	N	
2	5/14/92	2	1		167	N	
2	6/4/92	2	1		167	N	
2	7/1/92	2	1		174	N	
2	8/7/92	2	1		174.3	N	
2	9/3/92	2	1		173.5	N	
2	10/8/92	2	1		173	N	
2	11/5/92	2	1		168	N	
2	12/4/92	2	1		168	N	
2	1/5/93	2	1		175	N	
2	2/2/93	2	1		163	N	
2	3/3/93	2	1		168	N	
2	4/8/93	2	1		162	N	
2	5/6/93	2	1		163	N	
2	6/3/93	2	1		158	N	
2	6/10/93	2	1		167.2	N	
2	6/18/93	2	1		168.9	N	
2	7/1/93	2	1		165.9	N	
2	8/5/93	2	1		167.9	N	
2	8/5/93	2	2		163	N	
2	9/3/93	2	1		174.2	N	
2	9/4/93	2	1		170.3	N	
2	10/5/93	2	1		172.8	N	J 910126143-48 TC 1,5,6,7,8 O/S
2	10/11/93	2	1		174.1	N	
2	10/18/93	2	1		170	N	
2	11/1/93	2	1		173.4	N	
2	11/29/93	2	1		175.4	N	
2	12/2/93	2	1		175.1	N	
2	12/21/93	2	1		175.8	N	
2	12/21/93	2	2		175.8	N	
2	12/22/93	2	1		175.9	Y	
2	12/23/93	2	1		174.9	Y	
2	12/28/93	2	1		175.7	Y	
2	12/29/93	2	1		175.7	N	
2	12/29/93	2	2		175.5	N	
2	12/29/93	2	3		176.1	N	
2	12/29/93	2	4		176.3	N	
2	12/30/93	2	1		176.2	N	
2	12/31/93	2	1		175.6	N	
2	9/1/74	3			135		
2	2/1/75	3			163		
2	7/1/75	3			160		
2	1/1/76	3			124		
2	7/1/76	3			142		
2	3/1/77	3			142		
2	6/1/77	3			147		
2	7/1/77	3			149		
2	8/1/77	3			151		
2	9/1/77	3			152		
2	9/9/77	3			152		
2	9/15/77	3			152		
2	9/19/77	3			153		
2	9/22/77	3			154		
2	9/24/77	3			154		
2	1/20/89	3	1		187	N	
2	5/3/89	3	1		174.9	N	
2	8/14/89	3	1		181.4	N	
2	9/6/89	3	1		181.1	N	
2	10/16/89	3	1		182.4	N	
2	11/6/89	3	1		179.3	N	
2	12/5/89	3	1		175	N	
2	1/3/90	3	1		141	N	
2	2/1/90	3	1		175	N	
2	3/8/90	3	1		134	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	4/3/90	3	1		168	N	
2	5/3/90	3	1		169	N	
2	6/7/90	3	1		138	N	
2	7/3/90	3	1		172	N	
2	8/2/90	3	1		140	N	
2	9/6/90	3	1		142	N	
2	10/2/90	3	1		145	N	
2	11/13/90	3	1		143	N	
2	12/5/90	3	1		138.6	N	
2	1/3/91	3	1		139.5	N	
2	2/20/91	3	1		132.9	N	
2	3/14/91	3	1		132.6	N	
2	4/17/91	3	1		132.9	N	
2	5/2/91	3	1		131	N	
2	6/14/91	3	1		137.4	N	
2	8/15/91	3	1		141.6	N	
2	9/5/91	3	1		139.9	N	
2	10/7/91	3	1		139.6	N	
2	11/10/91	3	1		140.8	N	
2	12/6/91	3	1		139	N	
2	1/17/92	3	1		138	N	
2	2/21/92	3	1		128	N	
2	4/2/92	3	1		132	N	
2	5/14/92	3	1		134	N	
2	6/4/92	3	1		136	N	
2	7/1/92	3	1		142	N	
2	8/7/92	3	1		142.9	N	
2	9/3/92	3	1		142.2	N	
2	10/8/92	3	1		141	N	
2	11/5/92	3	1		137	N	
2	12/4/92	3	1		137	N	
2	1/5/93	3	1		142	N	
2	2/2/93	3	1		132	N	
2	3/3/93	3	1		135	N	
2	4/8/93	3	1		131	N	
2	5/6/93	3	1		132	N	
2	6/3/93	3	1		128	N	
2	6/10/93	3	1		135.6	N	
2	6/18/93	3	1		137.7	N	
2	7/1/93	3	1		135	N	
2	8/5/93	3	1		137.5	N	
2	8/5/93	3	2		134	N	
2	9/3/93	3	1		143.1	N	
2	9/4/93	3	1		140.1	N	
2	10/5/93	3	1		142	N	
2	10/11/93	3	1		142.5	N	
2	10/18/93	3	1		139.9	N	
2	11/1/93	3	1		144.8	N	
2	11/29/93	3	1		143.3	N	
2	12/2/93	3	1		143.3	N	
2	12/21/93	3	1		144.1	N	
2	12/21/93	3	2		143.8	N	
2	12/22/93	3	1		144.2	N	
2	12/23/93	3	1		143.4	N	
2	12/28/93	3	1		143.8	N	
2	12/29/93	3	1		144.1	N	
2	12/29/93	3	2		143.7	N	
2	12/29/93	3	3		144.2	N	
2	12/29/93	3	4		144.2	N	
2	12/30/93	3	1		143.9	N	
2	12/31/93	3	1		143.8	N	
2	9/1/74	4			131		
2	2/1/75	4			119		
2	7/1/75	4			158		
2	1/1/76	4			118		
2	7/1/76	4			137		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	3/1/77	4			138		
2	6/1/77	4			143		
2	7/1/77	4			144		
2	8/1/77	4			146		
2	9/1/77	4			148		
2	9/9/77	4			147		
2	9/15/77	4			147		
2	9/19/77	4			148		
2	9/22/77	4			149		
2	9/24/77	4			150		
2	1/3/90	4	1		136	N	
2	3/8/90	4	1		129	N	
2	6/7/90	4	1		133	N	
2	8/2/90	4	1		136	N	
2	9/6/90	4	1		137	N	
2	10/2/90	4	1		140	N	
2	11/13/90	4	1		138	N	
2	12/5/90	4	1		134.1	N	
2	1/3/91	4	1		134.4	N	
2	2/20/91	4	1		127.9	N	
2	3/14/91	4	1		127.7	N	
2	4/17/91	4	1		127.9	N	
2	5/2/91	4	1		126.5	N	
2	6/14/91	4	1		132.9	N	
2	8/15/91	4	1		137.3	N	
2	9/5/91	4	1		140.5	N	
2	10/7/91	4	1		139.1	N	
2	11/10/91	4	1		136.3	N	
2	12/6/91	4	1		135	N	
2	1/17/92	4	1		133.6	N	
2	2/21/92	4	1		124	N	
2	4/2/92	4	1		127	N	
2	5/14/92	4	1		130	N	
2	6/4/92	4	1		131	N	
2	7/1/92	4	1		138	N	
2	8/7/92	4	1		138.4	N	
2	9/3/92	4	1		137.9	N	
2	10/8/92	4	1		137	N	
2	11/5/92	4	1		134	N	
2	12/4/92	4	1		133	N	
2	1/5/93	4	1		137	N	
2	2/2/93	4	1		127	N	
2	3/3/93	4	1		130	N	
2	4/8/93	4	1		127	N	
2	5/6/93	4	1		128	N	
2	6/3/93	4	1		130	N	
2	6/10/93	4	1		132	N	
2	6/18/93	4	1		133.8	N	
2	7/1/93	4	1		131.5	N	
2	8/5/93	4	1		134.2	N	
2	8/5/93	4	2		131	N	
2	9/3/93	4	1		139.3	N	
2	9/4/93	4	1		136.4	N	
2	10/5/93	4	1		138	N	
2	10/11/93	4	1		138	N	
2	10/18/93	4	1		137.1	N	
2	11/1/93	4	1		137.2	N	
2	11/29/93	4	1		138.9	N	
2	12/2/93	4	1		140	N	
2	12/21/93	4	1		139.9	N	
2	12/21/93	4	2		139.6	N	
2	12/22/93	4	1		140.6	N	
2	12/23/93	4	1		139.9	N	
2	12/28/93	4	1		139.5	N	
2	12/29/93	4	1		139.6	N	
2	12/29/93	4	2		139.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	12/29/93	4	3		139.7	N	
2	12/29/93	4	4		139.8	N	
2	12/30/93	4	1		139.4	N	
2	12/31/93	4	1		139.2	N	
2	1/20/89	5	1		149	N	
2	5/3/89	5	1		137.4	N	
2	8/14/89	5	1		145.8	N	
2	9/6/89	5	1		146.1	N	
2	10/16/89	5	1		146.6	N	
2	11/6/89	5	1		142.8	N	
2	12/5/89	5	1		141	N	
2	2/1/90	5	1		146	N	
2	4/3/90	5	1		133	N	
2	5/3/90	5	1		135	N	
2	7/3/90	5	1		139	N	
2	7/19/91	5	1		139	N	
2	1/20/89	7	1		145	N	
2	5/3/89	7	1		134.4	N	
2	8/14/89	7	1		141.7	N	
2	9/6/89	7	1		141.1	N	
2	10/16/89	7	1		142.5	N	
2	11/6/89	7	1		138.2	N	
2	12/5/89	7	1		136	N	
2	2/1/90	7	1		136	N	
2	4/3/90	7	1		129	N	
2	5/3/90	7	1		130	N	
2	7/3/90	7	1		134	N	
2	7/19/91	7	1		134.7	N	
3	9/1/74	1			211		
3	2/1/75	1			215		
3	7/1/75	1			221		
3	12/1/75	1			225		
3	1/1/76	1			225		
3	2/2/76	1			220		
3	7/1/76	1			234		
3	3/1/77	1			237		
3	6/1/77	1			240		
3	7/1/77	1			241		
3	8/1/77	1			241		
3	9/1/77	1			244		
3	9/9/77	1			243		
3	9/15/77	1			243		
3	9/19/77	1			243		
3	9/22/77	1			243		
3	9/24/77	1			244		
3	12/1/77	1			225		
3	1/20/89	1	1		225	Y	
3	9/1/74	2			179		
3	2/1/75	2			175		
3	7/1/75	2			182		
3	12/1/75	2			181		
3	1/1/76	2			181		
3	2/2/76	2			175		
3	7/1/76	2			195		
3	3/1/77	2			196		
3	6/1/77	2			200		
3	7/1/77	2			201		
3	8/1/77	2			202		
3	9/1/77	2			204		
3	9/9/77	2			204		
3	9/15/77	2			204		
3	9/19/77	2			204		
3	9/22/77	2			204		
3	9/24/77	2			205		
3	12/1/77	2			181		
3	9/1/74	3			137		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
3	2/1/75	3			125		
3	7/1/75	3			131		
3	1/1/76	3			125		
3	7/1/76	3			144		
3	3/1/77	3			144		
3	6/1/77	3			144		
3	7/1/77	3			151		
3	8/1/77	3			152		
3	9/1/77	3			154		
3	9/9/77	3			154		
3	9/15/77	3			154		
3	9/19/77	3			154		
3	9/22/77	3			155		
3	9/24/77	3			156		
3	1/20/89	3	1		203	N	
3	9/1/74	4			133		
3	2/1/75	4			120		
3	7/1/75	4			126		
3	1/1/76	4			119		
3	7/1/76	4			137		
3	3/1/77	4			139		
3	6/1/77	4			144		
3	7/1/77	4			145		
3	8/1/77	4			147		
3	9/1/77	4			149		
3	9/9/77	4			148		
3	9/15/77	4			148		
3	9/19/77	4			149		
3	9/22/77	4			150		
3	9/24/77	4			157		
3	1/20/89	5	1		147	N	
3	1/20/89	7	1		144	N	
4	9/1/74	1			184		
4	2/1/75	1			179		
4	7/1/75	1			183		
4	12/1/75	1			184		
4	1/1/76	1			184		
4	2/2/76	1			177		
4	7/1/76	1			194		
4	3/1/77	1			196		
4	6/1/77	1			199		
4	7/1/77	1			200		
4	8/1/77	1			201		
4	9/1/77	1			203		
4	9/9/77	1			203		
4	9/15/77	1			203		
4	9/19/77	1			203		
4	9/22/77	1			203		
4	9/24/77	1			204		
4	12/1/77	1			184		
4	1/20/89	1	1		190	Y	
4	5/3/89	1	1		175.5	Y	
4	9/1/74	2			139		
4	2/1/75	2			127		
4	7/1/75	2			133		
4	12/1/75	2			126		
4	1/1/76	2			126		
4	2/2/76	2			120		
4	7/1/76	2			145		
4	3/1/77	2			145		
4	6/1/77	2			150		
4	7/1/77	2			151		
4	8/1/77	2			153		
4	9/1/77	2			155		
4	9/9/77	2			154		
4	9/15/77	2			154		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
4	9/19/77	2			155		
4	9/22/77	2			155		
4	9/24/77	2			156		
4	12/1/77	2			126		
4	9/1/74	3			133		
4	2/1/75	3			121		
4	7/1/75	3			126		
4	1/1/76	3			120		
4	7/1/76	3			139		
4	3/1/77	3			139		
4	6/1/77	3			144		
4	7/1/77	3			145		
4	8/1/77	3			147		
4	9/1/77	3			149		
4	9/9/77	3			144		
4	9/15/77	3			149		
4	9/19/77	3			149		
4	9/22/77	3			150		
4	9/24/77	3			151		
4	1/20/89	3	1		150	N	
4	5/3/89	3	1		137.6	N	
4	9/1/74	4			132		
4	2/1/75	4			121		
4	7/1/75	4			126		
4	1/1/76	4			120		
4	7/1/76	4			139		
4	3/1/77	4			139		
4	6/1/77	4			143		
4	7/1/77	4			145		
4	8/1/77	4			147		
4	9/1/77	4			149		
4	9/9/77	4			148		
4	9/15/77	4			148		
4	9/19/77	4			149		
4	9/22/77	4			150		
4	9/24/77	4			150		
4	1/20/89	5	1		145	N	
4	5/3/89	5	1		134.3	N	
4	1/20/89	7	1		145	N	
4	5/3/89	7	1		134.8	N	
5	9/1/74	1			186		
5	2/1/75	1			187		
5	7/1/75	1			189		
5	12/1/75	1			196		
5	1/1/76	1			196		
5	2/2/76	1			193		
5	7/1/76	1			208		
5	3/1/77	1			212		
5	6/1/77	1			214		
5	7/1/77	1			215		
5	8/1/77	1			216		
5	9/1/77	1			218		
5	9/9/77	1			212		
5	9/15/77	1			217		
5	9/19/77	1			217		
5	9/22/77	1			217		
5	9/24/77	1			218		
5	12/1/77	1			196		
5	12/1/77	1			193		
5	1/20/89	1	1		207	Y	
5	6/13/89	1	1		195.4	Y	
5	7/20/89	1	1		195.4	Y	
5	9/1/74	2			166		Currently taken by Maint Eng Services
5	2/1/75	2			161		
5	7/1/75	2			165		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
5	12/1/75	2			169		
5	1/1/76	2			169		
5	2/2/76	2			162		
5	7/1/76	2			183		
5	3/1/77	2			185		
5	6/1/77	2			189		
5	7/1/77	2			189		
5	8/1/77	2			191		
5	9/1/77	2			192		
5	9/9/77	2			192		
5	9/15/77	2			192		
5	9/19/77	2			193		
5	9/22/77	2			193		
5	9/24/77	2			194		
5	12/1/77	2			169		
5	9/1/74	3			134		
5	2/1/75	3			122		
5	7/1/75	3			128		
5	1/1/76	3			125		
5	7/1/76	3			142		
5	3/1/77	3			142		
5	6/1/77	3			146		
5	7/1/77	3			147		
5	8/1/77	3			149		
5	9/1/77	3			151		
5	9/9/77	3			150		
5	9/15/77	3			150		
5	9/19/77	3			152		
5	9/22/77	3			153		
5	9/24/77	3			154		
5	1/20/89	3	1		187	N	
5	6/13/89	3	1		175.2	Y	
5	7/20/89	3	1		175.2	N	
5	9/1/74	4			131		
5	2/1/75	4			119		
5	7/1/75	4			125		
5	1/1/76	4			120		
5	7/1/76	4			138		
5	3/1/77	4			138		
5	6/1/77	4			142		
5	7/1/77	4			144		
5	8/1/77	4			146		
5	9/1/77	4			147		
5	9/9/77	4			147		
5	9/15/77	4			147		
5	9/19/77	4			148		
5	9/22/77	4			149		
5	9/24/77	4			150		
5	1/20/89	5	1		150	N	
5	6/13/89	5	1		141.4	Y	
5	7/20/89	5	1		141.4	N	
5	1/20/89	7	1		145	N	
5	6/13/89	7	1		140.4	Y	
5	7/20/89	7	1		140.4	N	
6	9/1/74	4					287 - suspect data (high)
6	2/1/75	4					310 - suspect data (high)
6	7/1/75	4					304 - suspect data (high)
6	12/1/75	4					328 - suspect data (high)
6	7/1/76	4					313 - suspect data (high)
6	5/1/77	4					334 - suspect data (high)
6	6/1/77	4					335 - suspect data (high)
6	7/1/77	4					337 - suspect data (high)
6	8/1/77	4					338 - suspect data (high)
6	9/1/77	4					340 - suspect data (high)
6	9/9/77	4					340 - suspect data (high)
6	9/15/77	4					341 - suspect data (high)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
7	9/1/74	1			180		
7	2/1/75	1			176		
7	7/1/75	1			179		
7	12/1/75	1			187		
7	1/1/76	1			187		
7	2/2/76	1			182		
7	7/1/76	1			196		
7	3/1/77	1			204		
7	6/1/77	1			207		
7	7/1/77	1			208		
7	8/1/77	1			209		
7	9/1/77	1			211		
7	9/9/77	1			211		
7	9/15/77	1			211		
7	9/19/77	1			211		
7	9/22/77	1			212		
7	9/24/77	1			212		
7	12/1/77	1			182		
7	1/20/89	1	1		205	Y	
7	9/1/74	2			158		
7	2/1/75	2			150		
7	7/1/75	2			154		
7	12/1/75	2			156		
7	1/1/76	2			156		
7	2/2/76	2			150		
7	7/1/76	2			169		
7	5/1/77	2			174		
7	6/1/77	2			178		
7	7/1/77	2			179		
7	8/1/77	2			181		
7	9/1/77	2			183		
7	9/9/77	2			183		
7	9/15/77	2			182		
7	9/19/77	2			182		
7	9/22/77	2			184		
7	9/24/77	2			184		
7	12/1/77	2			156		
7	9/1/74	3			133		
7	2/1/75	3			119		
7	7/1/75	3			126		
7	1/1/76	3			122		
7	7/1/76	3			139		
7	3/1/77	3			140		
7	6/1/77	3			144		
7	7/1/77	3			145		
7	8/1/77	3			147		
7	9/1/77	3			149		
7	9/9/77	3			149		
7	9/15/77	3			149		
7	9/19/77	3			149		
7	9/22/77	3			150		
7	9/24/77	3			151		
7	1/20/89	3	1		179	N	
7	3/24/89	3	1		120	N	
7	4/7/89	3	1		120	N	
7	4/21/89	3	1		131	N	
7	9/1/74	4			131		
7	2/1/75	4			117		
7	7/1/75	4			124		
7	1/1/76	4			117		
7	7/1/76	4			137		
7	3/1/77	4			137		
7	6/1/77	4			146		
7	7/1/77	4			143		
7	8/1/77	4			145		
7	9/1/77	4			147		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
7	9/9/77	4			147		
7	9/15/77	4			147		
7	9/19/77	4			148		
7	9/22/77	4			149		
7	9/24/77	4			147		
7	1/20/89	5	1		147	N	
7	1/20/89	7	1		145	N	
8	9/1/74	1			201		
8	2/1/75	1			202		
8	7/1/75	1			207		
8	12/1/75	1			214		
8	1/1/76	1			214		
8	2/2/76	1			209		
8	7/1/76	1			223		
8	3/1/77	1			227		
8	6/1/77	1			229		
8	7/1/77	1			230		
8	8/1/77	1			231		
8	9/1/77	1			233		
8	9/9/77	1			232		
8	9/15/77	1			231		
8	9/19/77	1			232		
8	9/22/77	1			232		
8	9/24/77	1			233		
8	12/1/77	1			209		
8	1/20/89	1	1		222	Y	
8	3/6/89	1	1		224	Y	
8	3/17/89	1	1		198	N	
8	8/14/89	1	1		211.6	Y	Currently taken by Maint Eng Services
8	9/6/89	1	1		205.1	Y	Currently taken by Maint Eng Services
8	10/16/89	1	1		207	Y	
8	11/6/89	1	1		208.2	Y	
8	12/5/89	1	1		202	Y	
8	1/3/90	1	1		203	Y	
8	2/1/90	1	1		206	Y	
8	3/8/90	1	1		196	Y	
8	4/3/90	1	1		195	Y	
8	5/3/90	1	1		195	Y	
8	6/7/90	1	1		199	Y	
8	7/3/90	1	1		200	Y	
8	8/2/90	1	1		200	Y	
8	9/6/90	1	1		201	Y	
8	10/2/90	1	1		203	Y	
8	11/13/90	1	1		203	Y	
8	12/5/90	1	1		202.5	Y	
8	1/3/91	1	1		196	Y	
8	2/20/91	1	1		194.9	Y	
8	3/14/91	1	1		196.4	Y	
8	4/17/91	1	1		198	Y	
8	5/2/91	1	1		195.6	Y	
8	6/14/91	1	1		196.4	Y	
8	7/19/91	1	1		196.4	Y	
8	8/15/91	1	1		198.5	Y	
8	9/5/91	1	1		204.7	Y	
8	10/7/91	1	1		201.4	Y	
8	11/10/91	1	1		203.4	Y	J 817-13-55-008
8	12/6/91	1	1		205	Y	J 817-13-55-008
8	1/17/92	1	1		200.6	Y	J 817-13-55-008
8	2/21/92	1	1		198	Y	J 817-13-20-019
8	3/5/92	1	1		197	Y	
8	4/2/92	1	1		188	Y	J 8171355010
8	5/14/92	1	1		194	Y	J 8171355010
8	6/4/92	1	1		197	Y	J 8171320019
8	7/1/92	1	1		198	Y	817-13-20-019
8	8/7/92	1	1		199.8	Y	J 817-13-55-008
8	9/3/92	1	1		197.5	Y	J 890523512-47

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	10/8/92	1	1		200	Y	
8	11/5/92	1	1		193	Y	J 817-13-20-019
8	12/4/92	1	1		196	Y	J 817-13-20-019
8	1/5/93	1	1		202	Y	817-13-20-019
8	2/2/93	1	1		189	Y	817-13-20-019
8	3/3/93	1	1		196	Y	817-13-20-019
8	4/8/93	1	1		188	Y	J 817-13-20-019
8	5/6/93	1	1		189	Y	I 817132019
8	6/10/93	1	1		197	Y	
8	6/18/93	1	1		196.7	Y	910126143-32 TC 5-8 O/S
8	7/1/93	1	1		194	Y	890423320-42 TC 5-8 O/S
8	8/5/93	1	1		197	Y	890423320-42
8	8/5/93	1	2		191	Y	817-13-20-019
8	9/4/93	1	1		196	Y	TI-045 TC 5,6,7,8 O/S
8	10/5/93	1	1			N	J 910126143-48 TC 1,5,6,7,8 O/S
8	10/11/93	1	1		200	Y	J 910126143-48
8	10/18/93	1	1		198	Y	910126143-14 TC 5,6,7,8 O/S
8	11/1/93	1	1		200	Y	910126143-29 TC 5,6,7,8 O/S
8	11/29/93	1	1			N	91012614329 TC 1,5,6,7,8 o/s
8	12/10/93	1	1		203	Y	J 910126143-29 TC 5 O/S Recheck for 12/2
8	12/21/93	1	1			N	910126143-29 TC 1,5,6,7,8 O/S
8	12/21/93	1	2			N	J 910126143-29 TC 1,5,6,7,8 O/S
8	12/22/93	1	1			N	910126143-29 TC 1,5,6,7,8 O/S
8	12/23/93	1	1			N	910126143-29 TC 1,5,6,7,8 O/S
8	12/28/93	1	1			N	910126143-29 TC 1,5,6,7,8 O/S
8	12/29/93	1	1		203	Y	910126143-29 TC 5 THRU 8 O/S
8	12/29/93	1	2		203	Y	910126143-29 TC 5 THRU 8 O/S
8	12/29/93	1	3			N	J 910126143-32 TC 1,5 THRU 8 O/S
8	12/29/93	1	4			N	J 91012614332 TC 1,5 THRU 8 O/S
8	12/30/93	1	1			N	910126143-32 TC 1,5 thru 8 O/S
8	12/31/93	1	1		204	Y	910126243-32 TC 5 THRU 8 O/S
8	9/1/74	2			166		
8	2/1/75	2			158		
8	7/1/75	2			165		
8	12/1/75	2			165		
8	1/1/76	2			165		
8	2/2/76	2			159		
8	7/1/76	2			180		
8	3/1/77	2			182		
8	6/1/77	2			185		
8	7/1/77	2			186		
8	8/1/77	2			188		
8	9/1/77	2			190		
8	9/9/77	2			190		
8	9/15/77	2			190		
8	9/19/77	2			190		
8	9/22/77	2			191		
8	9/24/77	2			191		
8	12/1/77	2			165		
8	12/1/77	2			159		
8	1/3/90	2	1		169	N	
8	3/8/90	2	1		161	N	
8	6/7/90	2	1		166	N	
8	8/2/90	2	1		168	N	
8	9/6/90	2	1		169	N	
8	10/2/90	2	1		171	N	
8	11/13/90	2	1		170	N	
8	12/5/90	2	1		167.9	N	
8	1/3/91	2	1		162	N	
8	2/20/91	2	1		159.1	N	
8	3/14/91	2	1		160.1	N	
8	4/17/91	2	1		162.9	N	
8	5/2/91	2	1		160.8	N	
8	6/14/91	2	1		163.6	N	
8	8/15/91	2	1		167.1	N	
8	9/5/91	2	1		168	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	10/7/91	2	1		169.4	N	
8	11/10/91	2	1		170.2	N	
8	12/6/91	2	1		167	N	
8	1/17/92	2	1		166.4	N	
8	2/21/92	2	1		163	N	
8	3/5/92	2	1		162	N	
8	4/2/92	2	1		153	N	
8	5/14/92	2	1		162	N	
8	6/4/92	2	1		164	N	
8	7/1/92	2	1		172	N	
8	8/7/92	2	1		168.7	N	
8	9/3/92	2	1		167	N	
8	10/8/92	2	1		169	N	
8	11/5/92	2	1		163	N	
8	12/4/92	2	1		164	N	
8	1/5/93	2	1		170	N	
8	2/2/93	2	1		158	N	
8	3/3/93	2	1		163	N	
8	4/8/93	2	1		157	N	
8	5/6/93	2	1		158	N	
8	6/10/93	2	1		163.9	N	
8	6/18/93	2	1		164.6	N	
8	7/1/93	2	1		162.6	N	
8	8/5/93	2	1		165.6	N	
8	8/5/93	2	2		162	N	
8	9/3/93	2	1		169.8	N	
8	9/4/93	2	1		165	N	
8	10/5/93	2	1		168.3	N	
8	10/11/93	2	1		168.8	N	
8	10/18/93	2	1		167	N	
8	11/1/93	2	1		168.1	N	
8	11/29/93	2	1		170	N	
8	12/2/93	2	1		140	N	
8	12/10/93	2	1		171.6	N	
8	12/21/93	2	1		171.6	N	
8	12/21/93	2	2		170.8	N	
8	12/22/93	2	1		171.9	N	
8	12/23/93	2	1		171.4	Y	
8	12/28/93	2	1		171.3	Y	
8	12/29/93	2	1		171.4	N	
8	12/29/93	2	2		170.5	N	
8	12/29/93	2	3		171.7	N	
8	12/29/93	2	4		171.6	Y	
8	12/30/93	2	1		171.5	N	
8	12/31/93	2	1		171.3	N	
8	9/1/74	3			132		
8	2/1/75	3			118		
8	7/1/75	3			125		
8	1/1/76	3			120		
8	7/1/76	3			138		
8	3/1/77	3			138		
8	6/1/77	3			143		
8	7/1/77	3			144		
8	8/1/77	3			146		
8	9/1/77	3			148		
8	9/9/77	3			147		
8	9/15/77	3			147		
8	9/19/77	3			149		
8	9/22/77	3			149		
8	9/24/77	3			150		
8	1/20/89	3	1		184	N	
8	3/6/89	3	1		186	N	
8	5/13/89	3	1		171	N	
8	6/4/89	3	1		169	N	
8	8/14/89	3	1		177.8	N	
8	9/6/89	3	1		170.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	10/16/89	3	1		170.2	N	
8	11/6/89	3	1		172	N	
8	12/5/89	3	1		168	N	
8	1/3/90	3	1		136	N	
8	2/1/90	3	1		117	N	
8	3/8/90	3	1		127	N	
8	4/3/90	3	1		160	N	
8	5/3/90	3	1		161	N	
8	6/7/90	3	1		132	N	
8	7/3/90	3	1		167	N	
8	8/2/90	3	1		137	N	
8	9/6/90	3	1		138	N	
8	10/2/90	3	1		139	N	
8	11/13/90	3	1		138	N	
8	12/5/90	3	1		134.5	N	
8	1/3/91	3	1		130.6	N	
8	2/20/91	3	1		125.3	N	
8	3/14/91	3	1		126.4	N	
8	4/17/91	3	1		128.6	N	
8	5/2/91	3	1		127.8	N	
8	6/14/91	3	1		131.3	N	
8	7/19/91	3	1		164.1	N	
8	8/15/91	3	1		134.9	N	
8	9/5/91	3	1		136.5	N	
8	10/7/91	3	1		138.4	N	
8	11/10/91	3	1		136	N	
8	12/6/91	3	1		134	N	
8	1/17/92	3	1		133.4	N	
8	2/21/92	3	1		150	N	
8	3/5/92	3	1		129	N	
8	4/2/92	3	1		120	N	
8	5/14/92	3	1		130	N	
8	6/4/92	3	1		133	N	
8	7/1/92	3	1		141	N	
8	8/7/92	3	1		137.8	N	
8	9/3/92	3	1		136.1	N	
8	10/8/92	3	1		137	N	
8	11/5/92	3	1		133	N	
8	12/4/92	3	1		134	N	
8	1/5/93	3	1		138	N	
8	2/2/93	3	1		127	N	
8	3/3/93	3	1		131	N	
8	4/8/93	3	1		127	N	
8	5/6/93	3	1		128	N	
8	6/10/93	3	1		132.3	N	
8	6/18/93	3	1		132.8	N	
8	7/1/93	3	1		131.6	N	
8	8/5/93	3	1		135.2	N	
8	8/5/93	3	2		133	N	
8	9/3/93	3	1		138.8	N	
8	9/4/93	3	1		134.9	N	
8	10/5/93	3	1		137.7	N	
8	10/11/93	3	1		137.8	N	
8	10/18/93	3	1		138.4	N	
8	11/1/93	3	1		136.9	N	
8	11/29/93	3	1		140.2	N	
8	12/2/93	3	1		142	N	
8	12/10/93	3	1		140.5	N	
8	12/21/93	3	1		139.7	N	
8	12/21/93	3	2		139.4	N	
8	12/22/93	3	1		141.1	N	
8	12/23/93	3	1		140.2	N	
8	12/28/93	3	1		139.3	N	
8	12/29/93	3	1		139.2	N	
8	12/29/93	3	2		138.8	N	
8	12/29/93	3	3		139.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/29/93	3	4		139.3	N	
8	12/30/93	3	1		139.4	N	
8	12/31/93	3	1		139.4	N	
8	9/1/74	4			133		
8	2/1/75	4			119		
8	7/1/75	4			127		
8	1/1/76	4			126		
8	7/1/76	4			140		
8	3/1/77	4			140		
8	6/1/77	4			145		
8	7/1/77	4			146		
8	8/1/77	4			148		
8	9/1/77	4			149		
8	9/9/77	4			149		
8	9/19/77	4			150		
8	9/22/77	4			151		
8	9/24/77	4			142		
8	1/3/90	4	1		138	N	
8	3/8/90	4	1		128	N	
8	6/7/90	4	1		135	N	
8	8/2/90	4	1		138	N	
8	9/6/90	4	1		139	N	
8	10/2/90	4	1		140	N	
8	11/13/90	4	1		139	N	
8	12/5/90	4	1		135.8	N	
8	1/3/91	4	1		132.1	N	
8	2/20/91	4	1		125.9	N	
8	3/14/91	4	1		127.1	N	
8	4/17/91	4	1		130	N	
8	5/2/91	4	1		129.5	N	
8	6/14/91	4	1		132.9	N	
8	8/15/91	4	1		137.5	N	
8	9/5/91	4	1		143.1	N	
8	10/7/91	4	1		139.9	N	
8	11/10/91	4	1		140.6	N	
8	12/6/91	4	1		136	N	
8	1/17/92	4	1		134.6	N	
8	2/21/92	4	1		131	N	
8	3/5/92	4	1		130	N	
8	4/2/92	4	1		122	N	
8	5/14/92	4	1		132	N	
8	6/4/92	4	1		134	N	
8	7/1/92	4	1		142	N	
8	8/7/92	4	1		139.5	N	
8	9/3/92	4	1		137.8	N	
8	10/8/92	4	1		139	N	
8	11/5/92	4	1		135	N	
8	12/4/92	4	1		135	N	
8	1/5/93	4	1		139	N	
8	2/2/93	4	1		129	N	
8	3/3/93	4	1		132	N	
8	4/8/93	4	1		128	N	
8	5/6/93	4	1		129	N	
8	6/10/93	4	1		134.4	N	
8	6/18/93	4	1		134.8	N	
8	7/1/93	4	1		133.6	N	
8	8/5/93	4	1		137.2	N	
8	8/5/93	4	2		135	N	
8	9/3/93	4	1		140.3	N	
8	9/4/93	4	1		136.7	N	
8	10/5/93	4	1		139.4	N	
8	10/11/93	4	1		139.5	N	
8	10/18/93	4	1		140.7	N	
8	11/1/93	4	1		138.7	N	
8	11/29/93	4	1		142.1	N	
8	12/10/93	4	1		142.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-108							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/21/93	4	1		141.6	N	
8	12/21/93	4	2		141.4	N	
8	12/22/93	4	1		142.7	N	
8	12/23/93	4	1		141.9	N	
8	12/28/93	4	1		141.2	N	
8	12/29/93	4	1		141.3	N	
8	12/29/93	4	2		140.6	N	
8	12/29/93	4	3		141.5	N	
8	12/29/93	4	4		141.4	N	
8	12/30/93	4	1		141.3	N	
8	12/31/93	4	1		141.3	N	
8	1/20/89	5	1		148	N	
8	3/6/89	5	1		150	N	
8	8/14/89	5	1		143.6	N	
8	9/6/89	5	1		137.3	N	
8	10/16/89	5	1		136.2	N	
8	11/6/89	5	1		138.2	N	
8	12/5/89	5	1		135	N	
8	2/1/90	5	1		138	N	
8	4/3/90	5	1		127	N	
8	5/3/90	5	1		129	N	
8	7/3/90	5	1		135	N	
8	7/19/91	5	1		132.6	N	
8	1/20/89	7	1		149	N	
8	3/6/89	7	1		151	N	
8	8/14/89	7	1		144.9	N	
8	9/6/89	7	1		138.5	N	
8	10/16/89	7	1		136.8	N	
8	11/6/89	7	1		138.9	N	
8	12/5/89	7	1		137	N	
8	2/1/90	7	1		138	N	
8	4/3/90	7	1		127	N	
8	5/3/90	7	1		130	N	
8	7/3/90	7	1		136	N	
8	7/19/91	7	1		141.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-108-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	9/1/74	1			180		
1	9/1/74	2			182		
1	9/1/74	3			177		
1	9/1/74	4			165		
1	2/1/75	1			178		
1	2/1/75	2			230		
1	2/1/75	3			170		
1	2/1/75	4			157		
1	7/1/75	1			175		
1	7/1/75	2			177		
1	7/1/75	3			170		
1	7/1/75	4			157		
1	12/1/75	1			177		
1	12/1/75	2			179		
1	12/1/75	3			172		
1	12/1/75	4			158		
1	2/2/76	1			174		
1	2/2/76	2			175		
1	2/2/76	3			168		
1	2/2/76	4			153		
1	7/1/76	1			175		
1	7/1/76	2			177		
1	7/1/76	3			172		
1	7/1/76	4			161		
1	3/1/77	1			179		
1	3/1/77	2			182		
1	3/1/77	3			177		
1	3/1/77	4			165		
1	6/1/77	1			180		
1	6/1/77	2			183		
1	6/1/77	3			179		
1	7/1/77	1			179		
1	7/1/77	2			183		
1	7/1/77	3			179		
1	7/1/77	4			167		
1	8/1/77	1			180		
1	8/1/77	2			183		
1	8/1/77	3			179		
1	8/1/77	4			168		
1	9/1/77	1			182		
1	9/1/77	2			185		
1	9/1/77	3			181		
1	9/1/77	4			170		
1	9/19/77	1			182		
1	9/19/77	2			185		
1	9/19/77	3			181		
1	9/19/77	4			170		
1	10/3/77	1			182		
1	10/3/77	2			186		
1	10/3/77	3			182		
1	10/3/77	4			171		
1	1/28/92	1	1			N	BATTERY FUME INCIDENT
2	9/1/74	1			152		
2	9/1/74	2			151		
2	9/1/74	3			143		
2	9/1/74	4			133		
2	2/1/75	1			150		
2	2/1/75	2			147		
2	2/1/75	3			135		
2	2/1/75	4			122		
2	7/1/75	1			147		
2	7/1/75	2			144		
2	7/1/75	3			135		
2	7/1/75	4			124		
2	12/1/75	1			150		
2	12/1/75	2			148		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	12/1/75	3			137		
2	12/1/75	4			125		
2	2/2/76	1			147		
2	2/2/76	2			143		
2	2/2/76	3			133		
2	2/2/76	4			121		
2	7/1/76	1			148		
2	7/1/76	2			147		
2	7/1/76	3			140		
2	7/1/76	4			131		
2	3/1/77	1			154		
2	3/1/77	2			153		
2	3/1/77	3			145		
2	3/1/77	4			135		
2	6/1/77	1			155		
2	6/1/77	2			154		
2	6/1/77	3			146		
2	6/1/77	4			138		
2	7/1/77	1			154		
2	7/1/77	2			153		
2	7/1/77	3			147		
2	7/1/77	4			138		
2	8/1/77	1			155		
2	8/1/77	2			154		
2	8/1/77	3			148		
2	8/1/77	4			139		
2	9/1/77	1			156		
2	9/1/77	2			156		
2	9/1/77	3			150		
2	9/1/77	4			148		
2	9/19/77	1			157		
2	9/19/77	2			156		
2	9/19/77	3			149		
2	9/19/77	4			141		
2	10/3/77	1			157		
2	10/3/77	1			157		
2	10/3/77	2			156		
2	10/3/77	3			150		
2	10/3/77	4			142		
2	8/14/89	1	1		157.8	Y	Currently taken by Maint Eng Services
2	8/14/89	2	1		157.6	N	
2	8/14/89	3	1		156.7	N	
2	8/14/89	4	1		154.6	N	
2	8/14/89	5	1		150.3	N	
2	8/14/89	6	1		146	N	
2	8/14/89	7	1		143.5	N	
2	8/14/89	8	1		138.9	N	
2	9/6/89	1	1		152.4	N	Currently taken by Maint Eng Services
2	9/6/89	2	1		153.2	Y	
2	9/6/89	3	1		152.4	N	
2	9/6/89	4	1		151.1	N	
2	9/6/89	5	1		147.8	N	
2	9/6/89	6	1		144.3	N	
2	9/6/89	7	1		139.6	N	
2	9/6/89	8	1		135.1	N	
2	10/16/89	1	1		156.4	N	Currently taken by Maint. Eng. Services
2	10/16/89	2	1		156.7	Y	
2	10/16/89	3	1		156.1	N	
2	10/16/89	4	1		153.8	N	
2	10/16/89	5	1		149.7	N	
2	10/16/89	6	1		145.6	N	
2	10/16/89	7	1		141.3	N	
2	10/16/89	8	1		135.3	N	
2	11/6/89	1	1		151	Y	Currently taken by Maint. Eng. Services
2	11/6/89	2	1		151	Y	
2	11/6/89	3	1		150	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	11/6/89	4	1		148	N	
2	11/6/89	5	1		144	N	
2	11/6/89	6	1		140	N	
2	11/6/89	7	1		136	N	
2	11/6/89	8	1		131	N	
2	12/5/89	1	1		151	Y	
2	12/5/89	1	2		151	N	
2	12/5/89	2	1		151	N	
2	12/5/89	2	2		151	N	
2	12/5/89	3	1		150	N	
2	12/5/89	3	2		150	N	
2	12/5/89	4	1		148	N	
2	12/5/89	4	2		148	N	
2	12/5/89	5	1		144	N	
2	12/5/89	5	2		144	N	
2	12/5/89	6	1		140	N	
2	12/5/89	6	2		140	N	
2	12/5/89	7	1		135	N	
2	12/5/89	7	2		135	N	
2	12/5/89	8	1		130	N	
2	12/5/89	8	2		135	N	
2	1/3/90	1	1		152	N	
2	1/3/90	2	1		153	Y	
2	1/3/90	3	1		151	N	
2	1/3/90	4	1		149	N	
2	1/3/90	5	1			N	114 - suspect data (low)
2	1/3/90	6	1			N	109 - suspect data (low)
2	1/3/90	7	1			N	105 - suspect data (low)
2	1/3/90	8	1			N	100 - suspect data (low)
2	2/1/90	1	1		151	Y	
2	2/1/90	2	1		151	N	
2	2/1/90	3	1		150	N	
2	2/1/90	4	1		148	N	
2	2/1/90	5	1		144	N	
2	2/1/90	6	1		140	N	
2	2/1/90	7	1		135	N	
2	2/1/90	8	1		130	N	
2	3/8/90	1	1		150	Y	
2	3/8/90	2	1		150	N	
2	3/8/90	3	1		149	N	
2	3/8/90	4	1		146	N	
2	3/8/90	5	1		142	N	
2	3/8/90	6	1		137	N	
2	3/8/90	7	1		133	N	
2	3/8/90	8	1		127	N	
2	4/3/90	1	1		146	Y	
2	4/3/90	2	1		146	N	
2	4/3/90	3	1		145	N	
2	4/3/90	4	1		143	N	
2	4/3/90	5	1		139	N	
2	4/3/90	6	1		135	N	
2	4/3/90	7	1		130	N	
2	4/3/90	8	1		124	N	
2	5/3/90	1	1		146	Y	
2	5/3/90	2	1		146	N	
2	5/3/90	3	1		145	N	
2	5/3/90	4	1		143	N	
2	5/3/90	5	1		139	N	
2	5/3/90	6	1		134	N	
2	5/3/90	7	1		130	N	
2	5/3/90	8	1		124	N	
2	6/7/90	1	1		145	N	
2	6/7/90	2	1		149	Y	
2	6/7/90	3	1		147	N	
2	6/7/90	4	1		145	N	
2	6/7/90	5	1		141	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	6/7/90	6	1		137	N	
2	6/7/90	7	1		132	N	
2	6/7/90	8	1		127	N	
2	7/3/90	1	1		145	N	
2	7/3/90	2	1		146	Y	
2	7/3/90	3	1		145	N	
2	7/3/90	4	1		143	N	
2	7/3/90	5	1		140	N	
2	7/3/90	6	1		136	N	
2	7/3/90	7	1		131	N	
2	7/3/90	8	1		126	N	
2	8/2/90	1	1		145	Y	
2	8/2/90	2	1		144	N	
2	8/2/90	3	1		144	N	
2	8/2/90	4	1		142	N	
2	8/2/90	5	1		139	N	
2	8/2/90	6	1		135	N	
2	8/2/90	7	1		131	N	
2	8/2/90	8	1		126	N	
2	9/6/90	1	1		146	Y	
2	9/6/90	2	1		146	N	
2	9/6/90	3	1		145	N	
2	9/6/90	4	1		143	N	
2	9/6/90	5	1		140	N	
2	9/6/90	6	1		136	N	
2	9/6/90	7	1		132	N	
2	9/6/90	8	1		128	N	
2	10/2/90	1	1		149	Y	
2	10/2/90	2	1		150	N	
2	10/2/90	3	1		149	N	
2	10/2/90	4	1		147	N	
2	10/2/90	5	1		144	N	
2	10/2/90	6	1		140	N	
2	10/2/90	7	1		137	N	
2	10/2/90	8	1		132	N	
2	11/13/90	1	1		150	Y	
2	11/13/90	2	1		150	N	
2	11/13/90	3	1		149	N	
2	11/13/90	4	1		148	N	
2	11/13/90	5	1		144	N	
2	11/13/90	6	1		140	N	
2	11/13/90	7	1		135	N	
2	11/13/90	8	1		131	N	
2	12/5/90	1	1		149	Y	
2	12/5/90	2	1		148.8	N	
2	12/5/90	3	1		147.4	N	
2	12/5/90	4	1		145.1	N	
2	12/5/90	5	1		141	N	
2	12/5/90	6	1		136.5	N	
2	12/5/90	7	1		131.7	N	
2	12/5/90	8	1		126.2	N	
2	1/3/91	1	1		147.2	N	
2	1/3/91	2	1		149.4	N	
2	1/3/91	3	1		150.9	Y	
2	1/3/91	4	1		148.1	N	
2	1/3/91	5	1		143.6	N	
2	1/3/91	6	1		139.4	N	
2	1/3/91	7	1		134.4	N	
2	1/3/91	8	1		129.5	N	
2	2/20/91	1	1		147.1	N	
2	2/20/91	2	1		147.4	Y	
2	2/20/91	3	1		145.6	N	
2	2/20/91	4	1		142.9	N	
2	2/20/91	5	1		138.6	N	
2	2/20/91	6	1		133.6	N	
2	2/20/91	7	1		128.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	2/20/91	8	1		122.8	N	
2	3/14/91	1	1		147.5	Y	
2	3/14/91	2	1		147.4	N	
2	3/14/91	3	1		145.9	N	
2	3/14/91	4	1		143.2	N	
2	3/14/91	5	1		139.1	N	
2	3/14/91	6	1		134.4	N	
2	3/14/91	7	1		129.4	N	
2	3/14/91	8	1		123.8	N	
2	4/17/91	1	1		144.4	Y	
2	4/17/91	2	1		144.2	N	
2	4/17/91	3	1		142.7	N	
2	4/17/91	4	1		140	N	
2	4/17/91	5	1		143.9	N	
2	4/17/91	6	1		131	N	
2	4/17/91	7	1		126	N	
2	4/17/91	8	1		120.3	N	
2	5/2/91	1	1		143	N	
2	5/2/91	2	1		142.6	N	
2	5/2/91	3	1		141.5	N	
2	5/2/91	4	1		146.7	Y	
2	5/2/91	5	1		142.6	N	
2	5/2/91	6	1		129.5	N	
2	5/2/91	7	1		124.6	N	
2	5/2/91	8	1		119.2	N	
2	6/14/91	1	1		144.2	Y	
2	6/14/91	2	1		144	N	
2	6/14/91	3	1		142.5	N	
2	6/14/91	4	1		140	N	
2	6/14/91	5	1		134.5	N	
2	6/14/91	6	1		129.4	N	
2	6/14/91	7	1		124.9	N	
2	6/14/91	8	1		120.5	N	
2	7/19/91	1	1		143	N	
2	7/19/91	2	1		143.2	Y	
2	7/19/91	3	1		142.2	N	
2	7/19/91	4	1		140	N	
2	7/19/91	5	1		136.6	N	
2	7/19/91	6	1		132.4	N	
2	7/19/91	7	1		128.4	N	
2	7/19/91	8	1		123.5	N	
2	8/15/91	1	1		143.2	N	
2	8/15/91	2	1		143.9	N	
2	8/15/91	4	1		140.9	N	
2	8/15/91	5	1		137.6	N	
2	8/15/91	6	1		133.6	N	
2	8/15/91	7	1		129.6	N	
2	8/15/91	8	1		125	N	
2	8/30/91	1	1		144.5	N	128-9042405
2	8/30/91	2	1		144.9	Y	
2	8/30/91	3	1		143.9	N	
2	8/30/91	4	1		141.9	N	
2	8/30/91	5	1		138.4	N	
2	8/30/91	6	1		134.4	N	
2	8/30/91	7	1		130.5	N	
2	8/30/91	8	1		125.9	N	
2	9/5/91	1	1		141.1	N	J-817-13-55-008
2	9/5/91	2	1		141.5	Y	
2	9/5/91	3	1		140.5	N	
2	9/5/91	4	1		138.8	N	
2	9/5/91	5	1		135.5	N	
2	9/5/91	6	1		131.9	N	
2	9/5/91	7	1		127.7	N	
2	9/5/91	8	1		123.4	N	
2	9/12/91	1	1		144.1	N	J-8171355 Omega
2	9/12/91	2	1		144.5	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	9/12/91	3	1		143.9	N	
2	9/12/91	4	1		144.4	N	
2	9/12/91	5	1		137.9	N	
2	9/12/91	6	1		134	N	
2	9/12/91	7	1		130.2	N	
2	9/12/91	8	1		125.5	N	
2	9/19/91	1	1		143.5	Y	J-Omega
2	9/19/91	2	1		143.5	N	
2	9/19/91	3	1		142.5	N	
2	9/19/91	4	1		144.5	N	
2	9/19/91	5	1		137.1	N	
2	9/19/91	6	1		138.7	N	
2	9/19/91	7	1		134.8	N	
2	9/19/91	8	1		124.7	N	
2	9/26/91	1	1		144.9	N	817-13-55-008
2	9/26/91	2	1		145	N	
2	9/26/91	3	1		144	N	
2	9/26/91	4	1		145.1	Y	
2	9/26/91	5	1		138.7	N	
2	9/26/91	6	1		135	N	
2	9/26/91	7	1		130.9	N	
2	9/26/91	8	1		126.5	N	
2	10/7/91	1	1		146.9	N	J-817-13-35-008
2	10/7/91	2	1		146.4	N	
2	10/7/91	3	1		149.5	Y	
2	10/7/91	4	1		143.7	N	
2	10/7/91	5	1		140.5	N	
2	10/7/91	6	1		136.4	N	
2	10/7/91	7	1		132.4	N	
2	10/7/91	8	1		127.8	N	
2	10/10/91	1	1		144.7	N	J-817-13-35-008
2	10/10/91	2	1		145.1	Y	
2	10/10/91	3	1		144.4	N	
2	10/10/91	4	1		142.4	N	
2	10/10/91	5	1		139	N	
2	10/10/91	6	1		135.2	N	
2	10/10/91	7	1		131.4	N	
2	10/10/91	8	1		130.4	N	
2	10/16/91	1	1		148.3	N	817-13-35-008
2	10/16/91	2	1		148.6	Y	
2	10/16/91	3	1		147.4	N	
2	10/16/91	4	1		146	N	
2	10/16/91	5	1		142	N	
2	10/16/91	6	1		138	N	
2	10/16/91	7	1		134	N	
2	10/16/91	8	1		129.2	N	
2	10/24/91	1	1		146.4	N	J-817-13-35-008
2	10/24/91	2	1		147.1	Y	
2	10/24/91	3	1		146	N	
2	10/24/91	4	1		144.1	N	
2	10/24/91	5	1		141	N	
2	10/24/91	6	1		137	N	
2	10/24/91	7	1		133	N	
2	10/24/91	8	1		127.9	N	
2	10/31/91	1	1		148.4	Y	817-13-35-008
2	10/31/91	2	1		148.4	N	
2	10/31/91	3	1		147.1	N	
2	10/31/91	4	1		145	N	
2	10/31/91	5	1		141.4	N	
2	10/31/91	6	1		137.4	N	
2	10/31/91	7	1		133.3	N	
2	10/31/91	8	1		128.5	N	
2	11/10/91	1	1		150.1	N	J-817-13-55-008
2	11/10/91	2	1		150.7	Y	
2	11/10/91	3	1		148.2	N	
2	11/10/91	4	1		146.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	11/10/91	5	1		143.4	N	
2	11/10/91	6	1		139.5	N	
2	11/10/91	7	1		134.8	N	
2	11/10/91	8	1		129.9	N	
2	11/15/91	1	1		151.3	Y	J-817-13-55-008
2	11/15/91	2	1		148.4	N	
2	11/15/91	3	1		146.9	N	
2	11/15/91	4	1		144.8	N	
2	11/15/91	5	1		141	N	
2	11/15/91	6	1		137.1	N	
2	11/15/91	7	1		132.8	N	
2	11/15/91	8	1		127.6	N	
2	11/21/91	1	1		151.1	N	J-817-13-55-008
2	11/21/91	2	1		151.6	Y	
2	11/21/91	3	1		148.6	N	
2	11/21/91	4	1		147.6	N	
2	11/21/91	5	1		143.4	N	
2	11/21/91	6	1		139.5	N	
2	11/21/91	7	1		135.1	N	
2	11/21/91	8	1		129.1	N	
2	11/27/91	1	1		150.1	Y	J-817-13-55-008
2	11/27/91	2	1		150.1	N	
2	11/27/91	3	1		148.6	N	
2	11/27/91	4	1		146.4	N	
2	11/27/91	5	1		142.9	N	
2	11/27/91	6	1		138.2	N	
2	11/27/91	7	1		133.7	N	
2	11/27/91	8	1		128.6	N	
2	12/6/91	1	1		153	Y	J-817-13-55-008
2	12/6/91	2	1		149	N	
2	12/6/91	3	1		147	N	
2	12/6/91	4	1		144	N	
2	12/6/91	5	1		141	N	
2	12/6/91	6	1		136	N	
2	12/6/91	7	1		132	N	
2	12/6/91	8	1		131	N	
2	12/13/91	1	1		150.4	Y	817-13-55-008
2	12/13/91	2	1		147.4	N	
2	12/13/91	3	1		146.2	N	
2	12/13/91	4	1		143.9	N	
2	12/13/91	5	1		139.9	N	
2	12/13/91	6	1		135.5	N	
2	12/13/91	7	1		131	N	
2	12/13/91	8	1		125.6	N	
2	12/19/91	1	1		150.6	Y	J-817-13-55-008
2	12/19/91	2	1		150.6	N	
2	12/19/91	3	1		149	N	
2	12/19/91	4	1		146.8	N	
2	12/19/91	5	1		142.6	N	
2	12/19/91	6	1		138.4	N	
2	12/19/91	7	1		133.4	N	
2	12/19/91	8	1		128.3	N	
2	12/26/91	1	1		148.9	Y	817-13-55-008
2	12/26/91	2	1		148.7	N	
2	12/26/91	3	1		147.5	N	
2	12/26/91	4	1		145.5	N	
2	12/26/91	5	1		141	N	
2	12/26/91	6	1		136.4	N	
2	12/26/91	7	1		132.6	N	
2	12/26/91	8	1		126.5	N	
2	1/2/92	1	1		146	Y	J-817-13-55-008
2	1/2/92	2	1		146	N	
2	1/2/92	3	1		145	N	
2	1/2/92	4	1		142	N	
2	1/2/92	5	1		138	N	
2	1/2/92	6	1		134	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	1/2/92	7	1		129	N	
2	1/2/92	8	1		124	N	
2	1/9/92	1	1		151.4	Y	J 817135500-8
2	1/9/92	2	1		150.3	N	
2	1/9/92	3	1		148.8	N	
2	1/9/92	4	1		146.2	N	
2	1/9/92	5	1		142	N	
2	1/9/92	6	1		137	N	
2	1/9/92	7	1		132.2	N	
2	1/9/92	8	1		126.4	N	
2	1/17/92	1	1		152.1	Y	J 8171355008
2	1/17/92	2	1		151	N	
2	1/17/92	3	1		149.6	N	
2	1/17/92	4	1		147	N	
2	1/17/92	5	1		142.8	N	
2	1/17/92	6	1		142	N	
2	1/17/92	7	1		137	N	
2	1/17/92	8	1		N		
2	1/24/92	1	1		144.9	Y	
2	1/24/92	2	1		144.6	N	
2	1/24/92	3	1		143.1	N	
2	1/24/92	4	1		140.6	N	
2	1/24/92	5	1		136.4	N	
2	1/24/92	6	1		131.7	N	
2	1/24/92	7	1		126.9	N	
2	1/24/92	8	1		121.2	N	
2	2/21/92	1	1		142	N	
2	2/21/92	2	1		143	Y	
2	2/21/92	3	1		142	N	
2	2/21/92	4	1		140	N	
2	2/21/92	5	1		134	N	
2	2/21/92	6	1		132	N	
2	2/21/92	7	1		127	N	
2	2/21/92	8	1		122	N	
2	2/28/92	1	1		153	Y	817-13-20-019
2	2/28/92	2	1		152	N	
2	2/28/92	3	1		151	N	
2	2/28/92	4	1		148	N	
2	2/28/92	5	1		144	N	
2	2/28/92	6	1		139	N	
2	2/28/92	7	1		134	N	
2	2/28/92	8	1		129	N	
2	3/5/92	1	1		156	Y	
2	3/5/92	2	1		156	N	
2	3/5/92	3	1		154	N	
2	3/5/92	4	1		152	N	
2	3/5/92	5	1		147	N	
2	3/5/92	6	1		143	N	
2	3/5/92	7	1		138	N	
2	3/5/92	8	1		132	N	
2	3/14/92	1	1		148	Y	J 8171315010
2	3/14/92	2	1		148	N	
2	3/14/92	3	1		147	N	
2	3/14/92	4	1		145	N	
2	3/14/92	5	1		141	N	
2	3/14/92	6	1		136	N	
2	3/14/92	7	1		132	N	
2	3/14/92	8	1		126	N	
2	3/19/92	1	1		151	N	J C19950
2	3/19/92	2	1		153	Y	
2	3/19/92	3	1		150	N	
2	3/19/92	4	1		147	N	
2	3/19/92	5	1		143	N	
2	3/19/92	6	1		139	N	
2	3/19/92	7	1		134	N	
2	3/19/92	8	1		128	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	3/26/92	1	1		151	Y	J 8171320019
2	3/26/92	2	1		150	N	
2	3/26/92	3	1		149	N	
2	3/26/92	4	1		146	N	
2	3/26/92	5	1		142	N	
2	3/26/92	6	1		137	N	
2	3/26/92	7	1		132	N	
2	3/26/92	8	1		126	N	
2	4/2/92	1	2		142	Y	SET #2
2	4/2/92	2	2		139	N	
2	4/2/92	3	2		131	N	
2	4/2/92	4	2			N	122 - suspect data (low)
2	4/2/92	5	2			N	116 - suspect data (low)
2	4/2/92	6	2			N	114 - suspect data (low)
2	4/2/92	7	2			N	113 - suspect data (low)
2	4/2/92	8	2			N	112 - suspect data (low)
2	4/6/92	1	1		154	Y	J 8171355010
2	4/6/92	2	1		154	N	
2	4/6/92	3	1		152	N	
2	4/6/92	4	1		149	N	
2	4/6/92	5	1		145	N	
2	4/6/92	6	1		140	N	
2	4/6/92	7	1		136	N	
2	4/6/92	8	1		130	N	
2	4/15/92	1	1		152	Y	J 8171355010 TC #5 BAD
2	4/15/92	2	1		152	N	
2	4/15/92	3	1		150	N	
2	4/15/92	4	1		148	N	
2	4/15/92	6	1		139	N	
2	4/15/92	7	1		135	N	
2	4/15/92	8	1		130	N	
2	4/23/92	1	1		143	Y	J 8171355010
2	4/23/92	2	1		142	N	
2	4/23/92	3	1		141	N	
2	4/23/92	4	1		139	N	
2	4/23/92	5	1		136	N	
2	4/23/92	6	1		132	N	
2	4/23/92	7	1		128	N	
2	4/23/92	8	1		124	N	
2	4/30/92	1	1		145	Y	J 8171355010
2	4/30/92	2	1		145	N	
2	4/30/92	3	1		144	N	
2	4/30/92	4	1		142	N	
2	4/30/92	5	1		138	N	
2	4/30/92	6	1		134	N	
2	4/30/92	7	1		129	N	
2	4/30/92	8	1		125	N	
2	5/7/92	1	1		141.9	N	J 8171355008
2	5/7/92	2	1		141.4	N	
2	5/7/92	3	1		145.4	Y	
2	5/7/92	4	1		142.6	N	
2	5/7/92	5	1		134.5	N	
2	5/7/92	6	1		130.3	N	
2	5/7/92	7	1		126.1	N	
2	5/7/92	8	1		121.1	N	
2	5/14/92	1	1		140	Y	J 8171355010
2	5/14/92	2	1		140	N	
2	5/14/92	3	1		139	N	
2	5/14/92	4	1		137	N	
2	5/14/92	5	1		134	N	
2	5/14/92	6	1		129	N	
2	5/14/92	7	1		126	N	
2	5/14/92	8	1		121	N	
2	5/21/92	1	1		158	N	J 8171320019
2	5/21/92	2	1		159	N	
2	5/21/92	3	1		158	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	5/21/92	4	1		155	N	
2	5/21/92	5	1		150	N	
2	5/21/92	6	1		146	N	
2	5/21/92	7	1		141	N	
2	5/21/92	8	1		135	N	
2	5/28/92	1	1		142	Y	J 8171355010
2	5/28/92	2	1		141	N	
2	5/28/92	3	1		139	N	
2	5/28/92	4	1		139	N	
2	5/28/92	5	1		134	N	
2	5/28/92	6	1		131	N	
2	5/28/92	7	1		127	N	
2	5/28/92	8	1		122	N	
2	6/4/92	1	1		141	Y	J 8171320019
2	6/4/92	2	1		140	N	
2	6/4/92	3	1		139	N	
2	6/4/92	4	1		137	N	
2	6/4/92	5	1		134	N	
2	6/4/92	6	1		130	N	
2	6/4/92	7	1		126	N	
2	6/4/92	8	1		121	N	
2	6/11/92	1	1		142	Y	J NO-817-1320-019
2	6/11/92	2	1		142	N	
2	6/11/92	3	1		141	N	
2	6/11/92	4	1		139	N	
2	6/11/92	5	1		135	N	
2	6/11/92	6	1		131	N	
2	6/11/92	7	1		128	N	
2	6/11/92	8	1		123	N	
2	7/1/92	1	1		141	Y	C19950
2	7/1/92	2	1		141	N	
2	7/1/92	3	1		140	N	
2	7/1/92	4	1		137	N	
2	7/1/92	5	1		135	N	
2	7/1/92	6	1		131	N	
2	7/1/92	7	1		127	N	
2	7/1/92	8	1		123	N	
2	7/13/92	1	1		141	Y	J 817-13-20-019
2	7/13/92	2	1		141	N	
2	7/13/92	3	1		140	N	
2	7/13/92	4	1		137	N	
2	7/13/92	5	1		135	N	
2	7/13/92	6	1		131	N	
2	7/13/92	7	1		127	N	
2	7/13/92	8	1		123	N	
2	7/16/92	1	1		139	N	J 890523512-42
2	7/16/92	2	1		140	Y	
2	7/16/92	3	1		139	N	
2	7/16/92	4	1		137	N	
2	7/16/92	5	1		134	N	
2	7/16/92	6	1		130	N	
2	7/16/92	7	1		126	N	
2	7/16/92	8	1		122	N	
2	7/25/92	1	1		145	Y	J 817-13-20-019
2	7/25/92	2	1		145	N	
2	7/25/92	3	1		144	N	
2	7/25/92	4	1		142	N	
2	7/25/92	5	1		139	N	
2	7/25/92	6	1		135	N	
2	7/25/92	7	1		132	N	
2	7/25/92	8	1		127	N	
2	7/30/92	1	1		146.5	Y	813-13-55-008
2	7/30/92	2	1		145	N	
2	7/30/92	3	1		143	N	
2	7/30/92	4	1		141	N	
2	7/30/92	5	1		140	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	7/30/92	6	1		136	N	
2	7/30/92	7	1		130	N	
2	7/30/92	8	1		125	N	
2	8/7/92	2	1		144.4	Y	
2	8/7/92	3	1		143.5	N	
2	8/7/92	4	1		141.6	N	
2	8/7/92	5	1		138.5	N	
2	8/7/92	6	1		135	N	
2	8/7/92	7	1		131.2	N	
2	8/7/92	8	1		127	N	
2	8/13/92	1	1		143.2	N	J 817-13-55-008
2	8/13/92	2	1		143.4	Y	
2	8/13/92	3	1		142.8	N	
2	8/13/92	4	1		141	N	
2	8/13/92	5	1		138.1	N	
2	8/13/92	6	1		134.1	N	
2	8/13/92	7	1		130.8	N	
2	8/13/92	8	1		126.3	N	
2	8/20/92	1	1		142	Y	J 817-13-55-008
2	8/20/92	2	1		142	N	
2	8/20/92	3	1		141	N	
2	8/20/92	4	1		139	N	
2	8/20/92	5	1		137	N	
2	8/20/92	6	1		133	N	
2	8/20/92	7	1		130	N	
2	8/20/92	8	1		126	N	
2	8/28/92	1	1		145.1	N	J 817-13-55-009
2	8/28/92	2	1		145.5	Y	
2	8/28/92	3	1		144.6	N	
2	8/28/92	4	1		143.1	N	
2	8/28/92	5	1		140.4	N	
2	8/28/92	6	1		137	N	
2	8/28/92	7	1		133.1	N	
2	8/28/92	8	1		128.9	N	
2	9/3/92	1	1		145.5	N	J 890523512-47
2	9/3/92	2	1		145.7	Y	
2	9/3/92	3	1		144.4	N	
2	9/3/92	4	1		142.6	N	
2	9/3/92	5	1		139.7	N	
2	9/3/92	6	1		136.3	N	
2	9/3/92	7	1		132.5	N	
2	9/3/92	8	1		128	N	
2	9/9/92	1	1		144	Y	J 910126143-29
2	9/9/92	2	1		144	N	
2	9/9/92	3	1		143	N	
2	9/9/92	4	1		142	N	
2	9/9/92	5	1		139	N	
2	9/9/92	6	1		136	N	
2	9/9/92	7	1		132	N	
2	9/9/92	8	1		128	N	
2	9/15/92	1	1		147	Y	817-13-20-019
2	9/15/92	2	1		147	N	
2	9/15/92	3	1		146	N	
2	9/15/92	4	1		144	N	
2	9/15/92	5	1		141	N	
2	9/15/92	6	1		138	N	
2	9/15/92	7	1		134	N	
2	9/15/92	8	1		130	N	
2	9/24/92	1	1		154	Y	817-13-20-019
2	9/24/92	2	1		152	N	
2	9/24/92	3	1		153	N	
2	9/24/92	4	1		152	N	
2	9/24/92	5	1		150	N	
2	9/24/92	6	1		148	N	
2	9/24/92	7	1		144	N	
2	9/24/92	8	1		141	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	10/1/92	1	1		144	Y	J 817-13-20-019
2	10/1/92	2	1		144	N	
2	10/1/92	3	1		142	N	
2	10/1/92	4	1		141	N	
2	10/1/92	5	1		138	N	
2	10/1/92	6	1		135	N	
2	10/1/92	7	1		131	N	
2	10/1/92	8	1		127	N	
2	10/8/92	1	1		145	N	
2	10/8/92	2	1		146	Y	
2	10/8/92	3	1		145	N	
2	10/8/92	4	1		143	N	
2	10/8/92	5	1		140	N	
2	10/8/92	6	1		136	N	
2	10/8/92	7	1		132	N	
2	10/8/92	8	1		129	N	
2	10/16/92	1	1		145	N	J 817-13-20-019
2	10/16/92	2	1		146	Y	
2	10/16/92	3	1		145	N	
2	10/16/92	4	1		143	N	
2	10/16/92	5	1		140	N	
2	10/16/92	6	1		137	N	
2	10/16/92	7	1		133	N	
2	10/16/92	8	1		129	N	
2	10/22/92	1	1		149	Y	J 817-13-20-019
2	10/22/92	2	1		149	N	
2	10/22/92	3	1		147	N	
2	10/22/92	4	1		146	N	
2	10/22/92	5	1		143	N	
2	10/22/92	6	1		139	N	
2	10/22/92	7	1		136	N	
2	10/22/92	8	1		131	N	
2	10/29/92	1	1		149	Y	J 819-20-13-019
2	10/29/92	2	1		149	N	
2	10/29/92	3	1		148	N	
2	10/29/92	4	1		147	N	
2	10/29/92	5	1		143	N	
2	10/29/92	6	1		139	N	
2	10/29/92	7	1		136	N	
2	10/29/92	8	1		132	N	
2	11/5/92	1	1		144	Y	J 817-13-20-019
2	11/5/92	2	1		144	N	
2	11/5/92	3	1		143	N	
2	11/5/92	4	1		141	N	
2	11/5/92	5	1		141	N	
2	11/5/92	6	1		136	N	
2	11/5/92	7	1		133	N	
2	11/5/92	8	1		126	N	
2	11/12/92	1	1		150	Y	817-13-55-009
2	11/12/92	2	1		150	N	
2	11/12/92	3	1		149	N	
2	11/12/92	4	1		147	N	
2	11/12/92	5	1		144	N	
2	11/12/92	6	1		140	N	
2	11/12/92	7	1		138	N	
2	11/12/92	8	1		132	N	
2	11/19/92	1	1		148	Y	J 817-13-20-019
2	11/19/92	2	1		148	N	
2	11/19/92	3	1		147	N	
2	11/19/92	4	1		145	N	
2	11/19/92	5	1		142	N	
2	11/19/92	6	1		138	N	
2	11/19/92	7	1		135	N	
2	11/19/92	8	1		130	N	
2	11/24/92	1	1		148	Y	817-13-20-019
2	11/24/92	2	1		148	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	11/24/92	3	1		148	N	
2	11/24/92	4	1		146	N	
2	11/24/92	5	1		142	N	
2	11/24/92	6	1		139	N	
2	11/24/92	7	1		135	N	
2	11/24/92	8	1		130	N	
2	12/4/92	1	1		146	Y	J 817-13-20-019
2	12/4/92	2	1		146	N	
2	12/4/92	3	1		144	N	
2	12/4/92	4	1		142	N	
2	12/4/92	5	1		139	N	
2	12/4/92	6	1		135	N	
2	12/4/92	7	1		131	N	
2	12/4/92	8	1		127	N	
2	12/10/92	1	1		148	Y	817-13-20-019
2	12/10/92	2	1		148	N	
2	12/10/92	3	1		146	N	
2	12/10/92	4	1		144	N	
2	12/10/92	5	1		141	N	
2	12/10/92	6	1		137	N	
2	12/10/92	7	1		133	N	
2	12/10/92	8	1		128	N	
2	12/16/92	1	1		152	Y	
2	12/16/92	2	1		152	N	
2	12/16/92	3	1		150	N	
2	12/16/92	4	1		148	N	
2	12/16/92	5	1		144	N	
2	12/16/92	6	1		140	N	
2	12/16/92	7	1		136	N	
2	12/16/92	8	1		130	N	
2	12/22/92	1	1		145	Y	J 817-13-20-019
2	12/22/92	2	1		145	N	
2	12/22/92	3	1		144	N	
2	12/22/92	4	1		142	N	
2	12/22/92	5	1		139	N	
2	12/22/92	6	1		135	N	
2	12/22/92	7	1		131	N	
2	12/22/92	8	1		127	N	
2	12/30/92	1	1		153	Y	
2	12/30/92	2	1		153	N	
2	12/30/92	3	1		152	N	
2	12/30/92	4	1		148	N	
2	12/30/92	5	1		145	N	
2	12/30/92	6	1		141	N	
2	12/30/92	7	1		137	N	
2	12/30/92	8	1		132	N	
2	1/7/93	1	1		154	Y	817-13-20-019
2	1/7/93	2	1		154	N	
2	1/7/93	3	1		154	N	
2	1/7/93	4	1		153	N	
2	1/7/93	5	1		149	N	
2	1/7/93	6	1		145	N	
2	1/7/93	7	1		140	N	
2	1/7/93	8	1		135	N	
2	1/15/93	2	1		143	N	
2	1/15/93	3	1		140	N	
2	1/15/93	4	1		137	N	
2	1/15/93	5	1		134	N	
2	1/15/93	6	1		130	N	
2	1/15/93	7	1		156	N	
2	1/15/93	8	1		122	N	
2	1/28/93	1	1		147	Y	817-13-20-019
2	1/28/93	2	1		147	N	
2	1/28/93	3	1		145	N	
2	1/28/93	4	1		143	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	1/28/93	5	1		139	N	
2	1/28/93	6	1		136	N	
2	1/28/93	7	1		132	N	
2	1/28/93	8	1		118	N	
2	2/3/93	1	1		153	Y	817-13-20-019
2	2/3/93	2	1		153	N	
2	2/3/93	3	1		150	N	
2	2/3/93	4	1		149	N	
2	2/3/93	5	1		146	N	
2	2/3/93	6	1		143	N	
2	2/3/93	7	1		139	N	
2	2/3/93	8	1		124	N	
2	2/11/93	1	1		149	Y	J 910126143-42
2	2/11/93	2	1		149	N	
2	2/11/93	3	1		148	N	
2	2/11/93	4	1		146	N	
2	2/11/93	5	1		141	N	
2	2/11/93	6	1		137	N	
2	2/11/93	7	1		133	N	
2	2/11/93	8	1		128	N	
2	2/18/93	1	1		143.7	Y	
2	2/18/93	2	1		143	N	
2	2/18/93	3	1		141.6	N	
2	2/18/93	4	1		139.5	N	
2	2/18/93	5	1		135.7	N	
2	2/18/93	6	1		136	N	
2	2/18/93	7	1		127.2	N	
2	2/18/93	8	1		122.2	N	
2	2/25/93	1	1		146.2	N	J 817-13-55-008
2	2/25/93	2	1		147	Y	
2	2/25/93	3	1		144.7	N	
2	2/25/93	4	1		146.1	N	
2	2/25/93	5	1		143.1	N	
2	2/25/93	6	1		134.1	N	
2	2/25/93	7	1		129.6	N	
2	2/25/93	8	1		124.7	N	
2	3/3/93	1	1		148	Y	817-13-20-019
2	3/3/93	2	1		148	N	
2	3/3/93	3	1		147	N	
2	3/3/93	4	1		144	N	
2	3/3/93	5	1		141	N	
2	3/3/93	6	1		136	N	
2	3/3/93	7	1		132	N	
2	3/3/93	8	1		127	N	
2	3/4/93	1	1		150	Y	OMEGA 817-13-20-019
2	3/4/93	2	1		149	N	
2	3/4/93	3	1		148	N	
2	3/4/93	4	1		146	N	
2	3/4/93	5	1		141	N	
2	3/4/93	6	1		137	N	
2	3/4/93	7	1		133	N	
2	3/4/93	8	1		127	N	
2	3/11/93	1	1		142	Y	
2	3/11/93	2	1		142	N	
2	3/11/93	3	1		141	N	
2	3/11/93	4	1		139	N	
2	3/11/93	5	1		135	N	
2	3/11/93	6	1		131	N	
2	3/11/93	7	1		127	N	
2	3/11/93	8	1		122	N	
2	3/18/93	1	1		149	Y	817-13-20-019
2	3/18/93	2	1		148	N	
2	3/18/93	3	1		147	N	
2	3/18/93	4	1		145	N	
2	3/18/93	5	1		141	N	
2	3/18/93	6	1		136	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	3/18/93	7	1		132	N	
2	3/18/93	8	1		127	N	
2	3/25/93	1	1		146	Y	
2	3/25/93	2	1		146	N	
2	3/25/93	3	1		145	N	
2	3/25/93	4	1		143	N	
2	3/25/93	5	1		139	N	
2	3/25/93	6	1		135	N	
2	3/25/93	7	1		126	N	
2	3/25/93	8	1		125	N	
2	4/1/93	1	1		143	Y	J 817-13-55-005
2	4/1/93	2	1		142	N	
2	4/1/93	3	1		141	N	
2	4/1/93	4	1		139	N	
2	4/1/93	5	1		135	N	
2	4/1/93	6	1		131	N	
2	4/1/93	7	1		127	N	
2	4/1/93	8	1		122	N	
2	4/8/93	1	1		143	Y	J 817-13-20-019
2	4/8/93	2	1		143	N	
2	4/8/93	3	1		142	N	
2	4/8/93	4	1		140	N	
2	4/8/93	5	1		136	N	
2	4/8/93	6	1		132	N	
2	4/8/93	7	1		128	N	
2	4/8/93	8	1		123	N	
2	4/15/93	1	1		141	Y	J 910126143-66
2	4/15/93	2	1		141	N	
2	4/15/93	3	1		140	N	
2	4/15/93	4	1		138	N	
2	4/15/93	5	1		134	N	
2	4/15/93	6	1		130	N	
2	4/15/93	7	1		126	N	
2	4/15/93	8	1		121	N	
2	4/22/93	1	1		145	Y	TYPE J 817-13-20-019
2	4/22/93	2	1		144	N	
2	4/22/93	3	1		143	N	
2	4/22/93	4	1		141	N	
2	4/22/93	5	1		138	N	
2	4/22/93	6	1		134	N	
2	4/22/93	7	1		129	N	
2	4/22/93	8	1		124	N	
2	4/29/93	1	1		143	Y	
2	4/29/93	2	1		142	N	
2	4/29/93	3	1		142	N	
2	4/29/93	4	1		139	N	
2	4/29/93	5	1		135	N	
2	4/29/93	6	1		132	N	
2	4/29/93	7	1		127	N	
2	4/29/93	8	1		122	N	
2	5/6/93	1	1		141	Y	I 817132019
2	5/6/93	2	1		141	N	
2	5/6/93	3	1		140	N	
2	5/6/93	4	1		138	N	
2	5/6/93	5	1		134	N	
2	5/6/93	6	1		131	N	
2	5/6/93	7	1		126	N	
2	5/6/93	8	1		122	N	
2	5/13/93	1	1		141	Y	OMEGA 817-13-20-019
2	5/13/93	2	1		141	N	
2	5/13/93	3	1		140	N	
2	5/13/93	4	1		138	N	
2	5/13/93	5	1		135	N	
2	5/13/93	6	1		131	N	
2	5/13/93	7	1		127	N	
2	5/13/93	8	1		119	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	5/20/93	1	1		140	Y	J 910126143-66
2	5/20/93	2	1		140	N	
2	5/20/93	3	1		139	N	
2	5/20/93	4	1		138	N	
2	5/20/93	5	1		134	N	
2	5/20/93	6	1		130	N	
2	5/20/93	7	1		126	N	
2	5/20/93	8	1		121	N	
2	5/27/93	1	1		143	Y	817-13-20-019
2	5/27/93	2	1		143	N	
2	5/27/93	3	1		142	N	
2	5/27/93	4	1		140	N	
2	5/27/93	5	1		137	N	
2	5/27/93	6	1		133	N	
2	5/27/93	7	1		129	N	
2	5/27/93	8	1		124	N	
2	6/3/93	1	1		140	Y	817-13-20-019
2	6/3/93	2	1		140	N	
2	6/3/93	3	1		139	N	
2	6/3/93	4	1		137	N	
2	6/3/93	5	1		134	N	
2	6/3/93	6	1		130	N	
2	6/3/93	7	1		126	N	
2	6/3/93	8	1		121	N	
2	6/10/93	1	1		138	N	910126142-32
2	6/10/93	2	1		139	Y	
2	6/10/93	3	1		138	N	
2	6/10/93	4	1		137	N	
2	6/10/93	5	1		134	N	
2	6/10/93	6	1		130	N	
2	6/10/93	7	1		126	N	
2	6/10/93	8	1		121	N	
2	6/18/93	1	1		144.4	Y	910126143-32
2	6/18/93	2	1		144.8	N	
2	6/18/93	3	1		143.9	N	
2	6/18/93	4	1		142	N	
2	6/18/93	5	1		138.3	N	
2	6/18/93	6	1		134.2	N	
2	6/18/93	7	1		129.7	N	
2	6/18/93	8	1		124.8	N	
2	6/24/93	1	1		145	Y	J 817-13-20-019
2	6/24/93	2	1		143	N	
2	6/24/93	3	1		140	N	
2	6/24/93	4	1		137	N	
2	6/24/93	5	1		133	N	
2	6/24/93	6	1		130	N	
2	6/24/93	7	1		126	N	
2	6/24/93	8	1		123	N	
2	7/1/93	1	1		141.8	Y	890423320-42
2	7/1/93	2	1		141.5	N	
2	7/1/93	3	1		140.4	N	
2	7/1/93	4	1		138.7	N	
2	7/1/93	5	1		135.5	N	
2	7/1/93	6	1		131.6	N	
2	7/1/93	7	1		127.5	N	
2	7/1/93	8	1		122.4	N	
2	7/9/93	1	1		140.5	Y	
2	7/9/93	2	1		140	N	
2	7/9/93	3	1		139.2	N	
2	7/9/93	4	1		137.9	N	
2	7/9/93	5	1		135	N	
2	7/9/93	6	1		131.2	N	
2	7/9/93	7	1		127.4	N	
2	7/9/93	8	1		122.4	N	
2	7/16/93	1	1		141.6	N	TYPE J 890423320-42
2	7/16/93	2	1		141.7	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	7/16/93	3	1		140.7	N	
2	7/16/93	4	1		139	N	
2	7/16/93	5	1		135.8	N	
2	7/16/93	6	1		132	N	
2	7/16/93	7	1		128	N	
2	7/16/93	8	1		123.5	N	
2	7/22/93	1	1		142.8	Y	J 817-13-55-009
2	7/22/93	1	2		141.7	Y	J 0126143-14
2	7/22/93	2	1		142.5	N	
2	7/22/93	2	2		141.6	N	
2	7/22/93	3	1		141.9	N	
2	7/22/93	3	2		140.9	N	
2	7/22/93	4	1		140.7	N	
2	7/22/93	4	2		139.8	N	
2	7/22/93	5	1		137.9	N	
2	7/22/93	5	2		136.9	N	
2	7/22/93	6	1		134.1	N	
2	7/22/93	6	2		133	N	
2	7/22/93	7	1		130.4	N	
2	7/22/93	7	2		129.2	N	
2	7/22/93	8	1		126	N	
2	7/22/93	8	2		124.6	N	
2	7/29/93	1	1		143.2	N	J 910126143-14
2	7/29/93	2	1		143.3	Y	
2	7/29/93	3	1		142.3	N	
2	7/29/93	4	1		140.6	N	
2	7/29/93	5	1		137.5	N	
2	7/29/93	6	1		133.8	N	
2	7/29/93	7	1		129.9	N	
2	7/29/93	8	1		125.6	N	
2	8/5/93	1	1		141.8	Y	890423320-42
2	8/5/93	1	2		143	Y	817-13-20-019
2	8/5/93	2	1		141.4	N	
2	8/5/93	2	2		142	N	
2	8/5/93	3	1		140.5	N	
2	8/5/93	3	2		141	N	
2	8/5/93	4	1		139.2	N	
2	8/5/93	4	2		140	N	
2	8/5/93	5	1		136.4	N	
2	8/5/93	5	2		137	N	
2	8/5/93	6	1		133	N	
2	8/5/93	6	2		134	N	
2	8/5/93	7	1		129.2	N	
2	8/5/93	7	2		130	N	
2	8/5/93	8	1		124.8	N	
2	8/5/93	8	2		126	N	
2	8/14/93	1	1		142.8	Y	J910126143-14
2	8/14/93	2	1		142.7	N	
2	8/14/93	3	1		141.9	N	
2	8/14/93	4	1		140.4	N	
2	8/14/93	5	1		137.6	N	
2	8/14/93	6	1		133.9	N	
2	8/14/93	7	1		129.9	N	
2	8/14/93	8	1		125.6	N	
2	8/19/93	1	1		141.7	Y	J 89062330-42
2	8/19/93	2	1		141.5	N	
2	8/19/93	3	1		140.7	N	
2	8/19/93	4	1		139.6	N	
2	8/19/93	5	1		137	N	
2	8/19/93	6	1		133.5	N	
2	8/19/93	7	1		129.8	N	
2	8/19/93	8	1		125.3	N	
2	8/27/93	1	1		148.5	N	J 910126143-66
2	8/27/93	2	1		148.7	Y	
2	8/27/93	3	1		147.8	N	
2	8/27/93	4	1		145.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	8/27/93	5	1		142.4	N	
2	8/27/93	6	1		138.6	N	
2	8/27/93	7	1		134.9	N	
2	8/27/93	8	1		130.3	N	
2	9/3/93	1	1		146.3	N	REQUESTED
2	9/3/93	3	1		145.8	N	
2	9/3/93	4	1		144.8	N	
2	9/3/93	5	1		142	N	
2	9/3/93	6	1		138.3	N	
2	9/3/93	7	1		134.6	N	
2	9/3/93	8	1		130	N	
2	9/4/93	1	1		143.2	N	TI-045
2	9/4/93	2	1		143.8	Y	
2	9/4/93	3	1		143.2	N	
2	9/4/93	4	1		141.7	N	
2	9/4/93	5	1		138.4	N	
2	9/4/93	6	1		134.7	N	
2	9/4/93	7	1		130.5	N	
2	9/4/93	8	1		126	N	
2	9/12/93	1	1		148.7	N	OMEGA TI-042
2	9/12/93	2	1		148.8	Y	
2	9/12/93	3	1		148	N	
2	9/12/93	4	1		145.9	N	
2	9/12/93	5	1		142.5	N	
2	9/12/93	6	1		138.7	N	
2	9/12/93	7	1		135	N	
2	9/12/93	8	1		130.5	N	
2	9/20/93	1	1		144.1	N	HDAT
2	9/20/93	2	1		144.2	Y	
2	9/20/93	3	1		143.3	N	
2	9/20/93	4	1		141.6	N	
2	9/20/93	5	1		138.3	N	
2	9/20/93	6	1		134.6	N	
2	9/20/93	7	1		130.8	N	
2	9/20/93	8	1		126.4	N	
2	9/27/93	1	1		144.6	Y	J 890423320-42
2	9/27/93	1	2		144.5	N	HDAT
2	9/27/93	2	1		144.7	N	
2	9/27/93	2	2		144.6	Y	
2	9/27/93	3	1		143.7	N	
2	9/27/93	3	2		143.6	N	
2	9/27/93	4	1		141.8	N	
2	9/27/93	4	2		141.8	N	
2	9/27/93	5	1		138.6	N	
2	9/27/93	5	2		138.4	N	
2	9/27/93	6	1		134.9	N	
2	9/27/93	6	2		134.9	N	
2	9/27/93	7	1		131.2	N	
2	9/27/93	7	2		131.1	N	
2	9/27/93	8	1		126.8	N	
2	9/27/93	8	2		126.7	N	
2	10/5/93	1	1		145.8	N	J 910126143-48
2	10/5/93	2	1		146.2	Y	
2	10/5/93	3	1		145.4	N	
2	10/5/93	4	1		143.5	N	
2	10/5/93	5	1		140.4	N	
2	10/5/93	6	1		136.6	N	
2	10/5/93	7	1		132.7	N	
2	10/5/93	8	1		128.2	N	
2	10/11/93	1	1		146.5	N	J 910126143-48
2	10/11/93	2	1		146.6	Y	
2	10/11/93	3	1		145.6	N	
2	10/11/93	4	1		143.8	N	
2	10/11/93	5	1		140.6	N	
2	10/11/93	6	1		136.8	N	
2	10/11/93	7	1		133.1	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	10/11/93	8	1		128.6	N	
2	10/18/93	1	1		143	Y	910126143-14
2	10/18/93	2	1		142.2	N	
2	10/18/93	3	1		141.8	N	
2	10/18/93	4	1		141.1	N	
2	10/18/93	5	1		138.8	N	
2	10/18/93	6	1		135.7	N	
2	10/18/93	7	1		132	N	
2	10/18/93	8	1		127.4	N	
2	10/27/93	1	1		146.8	N	91012614348
2	10/27/93	2	1		147.2	Y	
2	10/27/93	3	1		146	N	
2	10/27/93	4	1		144.4	N	
2	10/27/93	5	1		141.2	N	
2	10/27/93	6	1		137.5	N	
2	10/27/93	7	1		133.6	N	
2	10/27/93	8	1		129.1	N	
2	11/1/93	1	1		146.4	N	910126143-29
2	11/1/93	2	1		146.6	Y	
2	11/1/93	3	1		145.7	N	
2	11/1/93	4	1		143.8	N	
2	11/1/93	5	1		140.3	N	
2	11/1/93	6	1		136.6	N	
2	11/1/93	7	1		132.8	N	
2	11/1/93	8	1		128.3	N	
2	11/8/93	1	1		147.7	N	J 910126143-29
2	11/8/93	2	1		148	Y	
2	11/8/93	3	1		147.2	N	
2	11/8/93	4	1		145.1	N	
2	11/8/93	5	1		141.9	N	
2	11/8/93	6	1		138	N	
2	11/8/93	7	1		134.1	N	
2	11/8/93	8	1		129.5	N	
2	11/17/93	1	1		147.7	Y	J TI-041
2	11/17/93	2	1		147.7	N	
2	11/17/93	3	1		146.7	N	
2	11/17/93	4	1		144.9	N	
2	11/17/93	5	1		141.6	N	
2	11/17/93	6	1		137.7	N	
2	11/17/93	7	1		133.5	N	
2	11/17/93	8	1		128.4	N	
2	11/23/93	1	1		148	N	J 910126143-29
2	11/23/93	2	1		148.2	Y	
2	11/23/93	3	1		147.2	N	
2	11/23/93	4	1		145.2	N	
2	11/23/93	5	1		141.2	N	
2	11/23/93	6	1		137.9	N	
2	11/23/93	7	1		133.8	N	
2	11/23/93	8	1		129.3	N	
2	11/29/93	1	1		148.1	N	91012614329
2	11/29/93	1	2		148	N	
2	11/29/93	2	1		148.2	Y	
2	11/29/93	2	2		148.1	Y	
2	11/29/93	3	1		147.3	N	
2	11/29/93	3	2		147.2	Y	
2	11/29/93	4	1		145.4	N	
2	11/29/93	4	2		145.1	N	
2	11/29/93	5	1		142	N	
2	11/29/93	5	2		141.9	N	
2	11/29/93	6	1		138	N	
2	11/29/93	6	2		137.9	N	
2	11/29/93	7	1		134.2	N	
2	11/29/93	7	2		133.9	N	
2	11/29/93	8	1		129.6	N	
2	11/29/93	8	2		129.3	N	
2	12/7/93	1	1		148	Y	J 910126143-29

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	12/7/93	2	1		148	N	
2	12/7/93	3	1		147	N	
2	12/7/93	4	1		145.2	N	
2	12/7/93	5	1		142	N	
2	12/7/93	6	1		138	N	
2	12/7/93	7	1		134.2	N	
2	12/7/93	8	1		129.4	N	
2	12/14/93	1	1		148.7	N	J 910126143-29
2	12/14/93	2	1		148.8	Y	
2	12/14/93	3	1		147.9	N	
2	12/14/93	4	1		145.9	N	
2	12/14/93	5	1		142.5	N	
2	12/14/93	6	1		138.8	N	
2	12/14/93	7	1		135	N	
2	12/14/93	8	1		130.4	N	
2	12/20/93	1	1		148	N	
2	12/20/93	2	1		148.2	Y	
2	12/20/93	3	1		147.3	N	
2	12/20/93	4	1		145.3	N	
2	12/20/93	5	1		142	N	
2	12/20/93	6	1		138.2	N	
2	12/20/93	7	1		134.3	N	
2	12/20/93	8	1		129.8	N	
2	12/21/93	1	1		148.2	N	910126143-29
2	12/21/93	1	2		148	Y	J 910126143-29
2	12/21/93	2	1		148.3	Y	
2	12/21/93	2	2		148	N	
2	12/21/93	3	1		147.5	N	
2	12/21/93	3	2		147.1	N	
2	12/21/93	4	1		145.4	N	
2	12/21/93	4	2		145.2	N	
2	12/21/93	5	1		142.1	N	
2	12/21/93	5	2		142.2	N	
2	12/21/93	6	1		138.3	N	
2	12/21/93	6	2		138.2	N	
2	12/21/93	7	1		134.5	N	
2	12/21/93	7	2		134.4	N	
2	12/21/93	8	1		129.9	N	
2	12/21/93	8	2		129.8	N	
2	12/22/93	1	1		148.7	N	910126143-29
2	12/22/93	2	1		148.8	Y	
2	12/22/93	3	1		148	N	
2	12/22/93	4	1		145.9	N	
2	12/22/93	5	1		142.6	N	
2	12/22/93	6	1		138.5	N	
2	12/22/93	7	1		135	N	
2	12/22/93	8	1		130.5	N	
2	12/23/93	1	1		147.9	N	910126143-29
2	12/23/93	2	1		148	Y	
2	12/23/93	3	1		147.2	N	
2	12/23/93	4	1		145.4	N	
2	12/23/93	5	1		142.4	N	
2	12/23/93	6	1		138.1	N	
2	12/23/93	7	1		134.3	N	
2	12/23/93	8	1		129.7	N	
2	12/24/93	1	2		149.1	Y	910126143-29
2	12/24/93	2	2		148.9	N	
2	12/24/93	3	2		147.9	N	
2	12/24/93	4	2		145.8	N	
2	12/24/93	5	2		142.7	N	
2	12/24/93	6	2		138.7	N	
2	12/24/93	7	2		134.9	N	
2	12/24/93	8	2		130.2	N	
2	12/25/93	1	1		148	N	910126143-29
2	12/25/93	2	1		148.2	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	12/25/93	3	1		147.3	N	
2	12/25/93	4	1		145.3	N	
2	12/25/93	5	1		142	N	
2	12/25/93	6	1		138.2	N	
2	12/25/93	7	1		134.3	N	
2	12/25/93	8	1		129.7	N	
2	12/26/93	1	1		148.1	N	910126143-29
2	12/26/93	2	1		148.2	Y	
2	12/26/93	3	1		147.4	N	
2	12/26/93	4	1		145.4	N	
2	12/26/93	5	1		142	N	
2	12/26/93	6	1		138.2	N	
2	12/26/93	7	1		134.4	N	
2	12/26/93	8	1		130	N	
2	12/27/93	1	1		148.1	N	910126143-29
2	12/27/93	2	1		148.2	Y	
2	12/27/93	3	1		147.4	N	
2	12/27/93	4	1		145.3	N	
2	12/27/93	5	1		142	N	
2	12/27/93	6	1		138.2	N	
2	12/27/93	7	1		134.4	N	
2	12/27/93	8	1		129.7	N	
2	12/28/93	1	1		148.2	N	910126143-29
2	12/28/93	2	1		148.4	Y	
2	12/28/93	3	1		147.5	N	
2	12/28/93	4	1		145.5	N	
2	12/28/93	5	1		142.2	N	
2	12/28/93	6	1		138.3	N	
2	12/28/93	7	1		134.5	N	
2	12/28/93	8	1		129.8	N	
2	12/29/93	1	1		148.3	N	910126143-29
2	12/29/93	1	2		148.2	N	910126143-29
2	12/29/93	1	3		148.9	N	J 910126143-32
2	12/29/93	1	4		148.8	N	J 91012614332
2	12/29/93	2	1		148.6	Y	
2	12/29/93	2	2		148.3	Y	
2	12/29/93	2	3		149.2	Y	
2	12/29/93	2	4		148.9	Y	
2	12/29/93	3	1		147.6	N	
2	12/29/93	3	2		147.4	N	
2	12/29/93	3	3		148	N	
2	12/29/93	3	4		148	N	
2	12/29/93	4	1		145.7	N	
2	12/29/93	4	2		145.5	N	
2	12/29/93	4	3		146.1	N	
2	12/29/93	4	4		146	N	
2	12/29/93	5	1		142.3	N	
2	12/29/93	5	2		142.2	N	
2	12/29/93	5	3		142.8	N	
2	12/29/93	5	4		142.8	N	
2	12/29/93	6	1		138.5	N	
2	12/29/93	6	2		138.4	N	
2	12/29/93	6	3		139.2	N	
2	12/29/93	6	4		138.9	N	
2	12/29/93	7	1		134.6	N	
2	12/29/93	7	2		134.6	N	
2	12/29/93	7	3		135.1	N	
2	12/29/93	7	4		135.1	N	
2	12/29/93	8	1		129.9	N	
2	12/29/93	8	2		129.8	N	
2	12/29/93	8	3		130.5	N	
2	12/29/93	8	4		130.4	N	
2	12/30/93	1	1		149.3	N	910126143-32
2	12/30/93	1	2		149.1	Y	J 910126143-32
2	12/30/93	2	1		149.4	Y	
2	12/30/93	2	2		149.1	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	12/30/93	3	1		148.3	N	
2	12/30/93	3	2		148.1	N	
2	12/30/93	4	1		146.4	N	
2	12/30/93	4	2		146.1	N	
2	12/30/93	5	1		143.1	N	
2	12/30/93	5	2		142.8	N	
2	12/30/93	6	1		139.3	N	
2	12/30/93	6	2		139.2	N	
2	12/30/93	7	1		135.4	N	
2	12/30/93	7	2		135.1	N	
2	12/30/93	8	1		130.6	N	
2	12/30/93	8	2		130.3	N	
2	12/31/93	1	1		149.5	N	910126143-32
2	12/31/93	2	1		149.6	Y	
2	12/31/93	3	1		148.6	N	
2	12/31/93	4	1		146.7	N	
2	12/31/93	5	1		143.4	N	
2	12/31/93	6	1		139.6	N	
2	12/31/93	7	1		135.6	N	
2	12/31/93	8	1		130.6	N	
3	9/1/74	1			175		
3	9/1/74	2			180		
3	9/1/74	3			179		
3	9/1/74	4			172		
3	2/1/75	1			174		
3	2/1/75	2			178		
3	2/1/75	3			176		
3	2/1/75	4			167		
3	7/1/75	1			171		
3	7/1/75	2			175		
3	7/1/75	3			174		
3	7/1/75	4			165		
3	12/1/75	1			174		
3	12/1/75	2			178		
3	12/1/75	3			176		
3	12/1/75	4			167		
3	2/2/76	1			171		
3	2/2/76	2			175		
3	2/2/76	3			173		
3	2/2/76	4			163		
3	7/1/76	1			170		
3	7/1/76	2			174		
3	7/1/76	3			173		
3	7/1/76	4			166		
3	3/1/77	1			176		
3	3/1/77	2			181		
3	3/1/77	3			179		
3	3/1/77	4			172		
3	6/1/77	1			176		
3	6/1/77	2			181		
3	6/1/77	3			180		
3	6/1/77	4			173		
3	7/1/77	1			175		
3	7/1/77	2			180		
3	7/1/77	3			180		
3	7/1/77	4			173		
3	8/1/77	1			176		
3	8/1/77	2			181		
3	8/1/77	3			180		
3	8/1/77	4			174		
3	9/1/77	1			177		
3	9/1/77	2			182		
3	9/1/77	3			182		
3	9/1/77	4			178		
3	9/19/77	1			177		
3	9/19/77	2			182		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
3	9/19/77	3			182		
3	9/19/77	4			176		
3	10/3/77	1			178		
3	10/3/77	2			183		
3	10/3/77	3			183		
3	10/3/77	4			176		
3	12/5/89	1	1		159	N	
3	12/5/89	2	1		163	N	
3	12/5/89	3	1		166	N	
3	12/5/89	4	1		169	N	
3	12/5/89	5	1		170	Y	
3	12/5/89	6	1		170	N	
3	12/5/89	7	1		168	N	
3	12/5/89	8	1		167	N	
4	9/1/74	1			161		
4	9/1/74	2			164		
4	9/1/74	3			160		
4	9/1/74	4			149		
4	2/1/75	1			159		
4	2/1/75	2			161		
4	2/1/75	3			156		
4	2/1/75	4			141		
4	7/1/75	1			157		
4	7/1/75	2			158		
4	7/1/75	3			153		
4	7/1/75	4			141		
4	12/1/75	1			159		
4	12/1/75	2			161		
4	12/1/75	3			156		
4	12/1/75	4			142		
4	2/2/76	1			156		
4	2/2/76	2			157		
4	2/2/76	3			152		
4	2/2/76	4			138		
4	7/1/76	1			156		
4	7/1/76	2			158		
4	7/1/76	3			154		
4	7/1/76	4			145		
4	3/1/77	1			161		
4	3/1/77	2			163		
4	3/1/77	3			160		
4	3/1/77	4			149		
4	6/1/77	1			161		
4	6/1/77	2			163		
4	6/1/77	3			160		
4	6/1/77	4			151		
4	7/1/77	1			161		
4	7/1/77	2			163		
4	7/1/77	3			160		
4	7/1/77	4			151		
4	8/1/77	1			161		
4	8/1/77	2			164		
4	8/1/77	3			151		
4	8/1/77	4			152		
4	9/1/77	1			163		
4	9/1/77	2			166		
4	9/1/77	3			160		
4	9/1/77	4			154		
4	9/19/77	1			163		
4	9/19/77	2			166		
4	9/19/77	3			163		
4	9/19/77	4			154		
4	10/3/77	1			164		
4	10/3/77	2			166		
4	10/3/77	3			163		
4	10/3/77	4			155		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
4	1/1/89	1	1		161	N	
4	1/1/89	3	1		167	Y	
4	4/14/89	3	1		163	N	
4	5/6/89	1	1		162	N	
4	5/6/89	3	1		163	Y	
4	5/13/89	3	1		162	N	
4	5/28/89	3	1		159	N	
4	6/4/89	1	1		158	N	
4	6/4/89	3	1		159	Y	
4	6/12/89	1	1		160	N	
4	6/12/89	3	1		161	N	
4	6/13/89	1	1		173.7	Y	
4	6/13/89	2	1		159.7	N	
4	6/13/89	3	1		159.6	N	
4	6/13/89	4	1		158	N	
4	6/13/89	5	1		156.2	N	
4	6/13/89	6	1		152.4	N	
4	6/13/89	7	1		149.7	N	
4	6/13/89	8	1		144.4	N	
4	7/20/89	1	1		173.7	N	Currently taken by Maint Eng Services
4	7/20/89	2	1		159.7	N	
4	7/20/89	3	1		159.6	N	
4	7/20/89	4	1		158	N	
4	7/20/89	5	1		156.2	N	
4	7/20/89	6	1		142.7	N	
4	7/20/89	7	1		149.7	N	
4	7/20/89	8	1		144.4	N	
4	12/5/89	1	1		155	N	
4	12/5/89	2	1		157	Y	
4	12/5/89	3	1		157	N	
4	12/5/89	4	1		156	N	
4	12/5/89	5	1		155	N	
4	12/5/89	6	1		151	N	
4	12/5/89	7	1		147	N	
4	12/5/89	8	1		142	N	
5	9/1/74	1			153		
5	9/1/74	2			154		
5	9/1/74	3			153		
5	9/1/74	4			149		
5	2/1/75	1			150		
5	2/1/75	2			151		
5	2/1/75	3			149		
5	2/1/75	4			144		
5	7/1/75	1			148		
5	7/1/75	2			148		
5	7/1/75	3			146		
5	7/1/75	4			142		
5	12/1/75	1			151		
5	12/1/75	2			152		
5	12/1/75	3			150		
5	12/1/75	4			145		
5	2/2/76	1			147		
5	2/2/76	2			148		
5	2/2/76	3			146		
5	2/2/76	4			141		
5	7/1/76	1			149		
5	7/1/76	2			149		
5	7/1/76	3			148		
5	7/1/76	4			145		
5	3/1/77	1			154		
5	3/1/77	2			155		
5	3/1/77	3			154		
5	3/1/77	4			150		
5	6/1/77	1			154		
5	6/1/77	2			155		
5	6/1/77	3			154		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
5	6/1/77	4			151		
5	7/1/77	1			154		
5	7/1/77	2			154		
5	7/1/77	3			154		
5	7/1/77	4			151		
5	8/1/77	1			158		
5	8/1/77	2			155		
5	8/1/77	3			155		
5	8/1/77	4			154		
5	9/1/77	1			157		
5	9/1/77	2			158		
5	9/1/77	3			157		
5	9/1/77	4			154		
5	9/19/77	1			157		
5	9/19/77	2			158		
5	9/19/77	3			157		
5	9/19/77	4			154		
5	10/3/77	1			158		
5	10/3/77	2			158		
5	10/3/77	3			158		
5	10/3/77	4			155		
5	12/5/89	1	1		155	N	
5	12/5/89	2	1		156	Y	
5	12/5/89	3	1		155	N	
5	12/5/89	4	1		153	N	
5	12/5/89	5	1		149	N	
5	12/5/89	6	1		145	N	
5	12/5/89	7	1		140	N	
5	12/5/89	8	1		135	N	
6	9/1/74	1			154		
6	9/1/74	2			148		
6	9/1/74	3			140		
6	9/1/74	4			131		
6	2/1/75	1			150		
6	2/1/75	2			142		
6	2/1/75	3			132		
6	2/1/75	4			121		
6	7/1/75	1			147		
6	7/1/75	2			141		
6	7/1/75	3			132		
6	7/1/75	4			122		
6	12/1/75	1			152		
6	12/1/75	2			145		
6	12/1/75	3			134		
6	12/1/75	4			123		
6	2/2/76	1			148		
6	2/2/76	2			140		
6	2/2/76	3			130		
6	2/2/76	4			119		
6	7/1/76	1			150		
6	7/1/76	2			144		
6	7/1/76	3			137		
6	7/1/76	4			129		
6	3/1/77	1			158		
6	3/1/77	2			152		
6	3/1/77	3			143		
6	3/1/77	4			134		
6	6/1/77	1			157		
6	6/1/77	2			152		
6	6/1/77	3			144		
6	6/1/77	4			136		
6	7/1/77	1			157		
6	7/1/77	2			152		
6	7/1/77	3			144		
6	7/1/77	4			137		
6	8/1/77	1			159		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
6	8/1/77	2			158		
6	8/1/77	3			145		
6	8/1/77	4			138		
6	9/1/77	1			160		
6	9/1/77	2			155		
6	9/1/77	3			148		
6	9/1/77	4			141		
6	9/19/77	1			160		
6	9/19/77	2			155		
6	9/19/77	3			148		
6	9/19/77	4			140		
6	10/3/77	1			161		
6	10/3/77	2			155		
6	10/3/77	3			148		
6	10/3/77	4			141		
6	1/1/89	3	1		148	Y	
6	4/14/89	3	1		161	N	
6	4/14/89	4	1		161	N	
6	5/6/89	3	1		162	N	
6	5/6/89	4	1		163	Y	
6	6/13/89	1	1		159.9	Y	
6	6/13/89	2	1		157.4	N	
6	6/13/89	3	1		153.9	N	
6	6/13/89	4	1		149.8	N	
6	6/13/89	5	1		146.6	N	
6	6/13/89	6	1		142.7	N	
6	6/13/89	7	1		138.6	N	
6	6/13/89	8	1		94.1	N	
6	7/20/89	1	1		159.9	Y	Currently taken by Maint Eng Services
6	7/20/89	2	1		157.4	N	
6	7/20/89	3	1		153.9	N	
6	7/20/89	4	1		149.8	N	
6	7/20/89	5	1		146.6	N	
6	7/20/89	6	1		142.7	N	
6	7/20/89	7	1		138.6	N	
6	7/20/89	8	1		94.1	N	
6	12/5/89	1	1		155	Y	
6	12/5/89	2	1		154	N	
6	12/5/89	3	1		151	N	
6	12/5/89	4	1		147	N	
6	12/5/89	5	1		143	N	
6	12/5/89	6	1		139	N	
6	12/5/89	7	1		135	N	
7	9/1/74	1			156		
7	9/1/74	2			156		
7	9/1/74	3			147		
7	9/1/74	4			135		
7	2/1/75	1			153		
7	2/1/75	2			151		
7	2/1/75	3			140		
7	2/1/75	4			122		
7	7/1/75	1			150		
7	7/1/75	2			148		
7	7/1/75	3			138		
7	7/1/75	4			124		
7	12/1/75	1			154		
7	12/1/75	2			153		
7	12/1/75	3			142		
7	12/1/75	4			125		
7	2/2/76	1			151		
7	2/2/76	2			149		
7	2/2/76	3			137		
7	2/2/76	4			122		
7	7/1/76	1			152		
7	7/1/76	2			152		
7	7/1/76	3			144		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
7	7/1/76	4			132		
7	3/1/77	1			158		
7	3/1/77	2			157		
7	3/1/77	3			149		
7	3/1/77	4			136		
7	6/1/77	1			158		
7	6/1/77	2			157		
7	6/1/77	3			149		
7	6/1/77	4			137		
7	7/1/77	1			158		
7	7/1/77	2			157		
7	7/1/77	3			149		
7	7/1/77	4			138		
7	8/1/77	1			159		
7	8/1/77	2			158		
7	8/1/77	3			150		
7	8/1/77	4			140		
7	9/1/77	1			160		
7	9/1/77	2			161		
7	9/1/77	3			153		
7	9/1/77	4			143		
7	9/19/77	1			160		
7	9/19/77	2			160		
7	9/19/77	3			153		
7	9/19/77	4			142		
7	10/3/77	1			161		
7	10/3/77	2			161		
7	10/3/77	3			153		
7	10/3/77	4			142		
7	12/5/89	1	1		156	N	
7	12/5/89	2	1		157	Y	
7	12/5/89	3	1		156	N	
7	12/5/89	4	1		153	N	
7	12/5/89	5	1		149	N	
7	12/5/89	6	1		143	N	
7	12/5/89	7	1		138	N	
7	12/5/89	8	1		131	N	
8	9/1/74	1			158		
8	9/1/74	2			150		
8	9/1/74	3			140		
8	9/1/74	4			130		
8	2/1/75	1			153		
8	2/1/75	2			145		
8	2/1/75	3			132		
8	2/1/75	4					
8	7/1/75	1			151		
8	7/1/75	2			143		
8	7/1/75	3			131		
8	7/1/75	4					
8	12/1/75	1			154		
8	12/1/75	2			146		
8	12/1/75	3			135		
8	12/1/75	4			121		
8	2/2/76	1			150		
8	2/2/76	2			142		
8	2/2/76	3			130		
8	2/2/76	4			117		
8	7/1/76	1			153		
8	7/1/76	2			147		
8	7/1/76	3			147		
8	7/1/76	4					
8	3/1/77	1			158		
8	3/1/77	2			151		
8	3/1/77	3			142		
8	3/1/77	4					
8	6/1/77	1			158		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	6/1/77	2			152		
8	6/1/77	3			143		
8	6/1/77	4					
8	7/1/77	1			158		
8	7/1/77	2			152		
8	7/1/77	3			144		
8	7/1/77	4			135		
8	8/1/77	1			159		
8	8/1/77	2			153		
8	8/1/77	3			147		
8	8/1/77	4			137		
8	9/1/77	1			161		
8	9/1/77	2			155		
8	9/1/77	3			148		
8	9/1/77	4			149		
8	9/19/77	1			160		
8	9/19/77	2			155		
8	9/19/77	3			147		
8	9/19/77	4			137		
8	10/3/77	1			162		
8	10/3/77	2			156		
8	10/3/77	3			148		
8	10/3/77	4					
8	1/1/89	2	1		163	Y	
8	1/1/89	3	1		151	N	
8	3/1/89	2	1		164	N	
8	3/1/89	3	1		151	N	
8	4/14/89	3	1		132	N	
8	5/6/89	3	1		148	Y	
8	5/13/89	3	1		148	N	
8	6/4/89	3	1		159	Y	
8	6/4/89	4	1		145	N	
8	6/12/89	4	1		147	N	
8	8/14/89	1	1		163.3	Y	Currently taken by Maint Eng Services
8	8/14/89	2	1		162.8	N	
8	8/14/89	3	1		159.6	N	
8	8/14/89	4	1		156	N	
8	8/14/89	5	1		151.2	N	
8	8/14/89	6	1		147.9	N	
8	8/14/89	7	1		143.9	N	
8	8/14/89	8	1		139.8	N	
8	9/6/89	1	1		162.4	Y	Currently taken by Maint Eng Services
8	9/6/89	2	1		161	N	
8	9/6/89	3	1		157.4	N	
8	9/6/89	4	1		152.9	N	
8	9/6/89	5	1			N	104.2 - suspect data (low)
8	9/6/89	6	1		146.4	N	
8	9/6/89	7	1		142.4	N	
8	9/6/89	8	1		138.4	N	
8	10/16/89	1	1		158.2	Y	
8	10/16/89	2	1		156.2	N	
8	10/16/89	3	1		152.9	N	
8	10/16/89	4	1		149.2	N	
8	10/16/89	5	1		144.9	N	
8	10/16/89	6	1		141.6	N	
8	10/16/89	7	1		138.9	N	
8	10/16/89	8	1		135.9	N	
8	11/6/89	1	1		156	Y	
8	11/6/89	2	1		155	N	
8	11/6/89	3	1		152	N	
8	11/6/89	4	1		148	N	
8	11/6/89	5	1		145	N	
8	11/6/89	6	1		141	N	
8	11/6/89	7	1		137	N	
8	11/6/89	8	1		133	N	
8	12/5/89	1	1		156	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/5/89	1	2		156	N	
8	12/5/89	2	1		155	N	
8	12/5/89	2	2		155	N	
8	12/5/89	3	1		152	N	
8	12/5/89	3	2		152	N	
8	12/5/89	4	1		148	N	
8	12/5/89	4	2		148	N	
8	12/5/89	5	1		144	N	
8	12/5/89	5	2		144	N	
8	12/5/89	6	1		140	N	
8	12/5/89	6	2		140	N	
8	12/5/89	7	1		136	N	
8	12/5/89	7	2		136	N	
8	12/5/89	8	1		123	N	
8	12/5/89	8	2		132	N	
8	1/3/90	1	1		157	Y	
8	1/3/90	2	1		156	N	
8	1/3/90	3	1		153	N	
8	1/3/90	4	1		149	N	
8	1/3/90	5	1		145	N	
8	1/3/90	6	1		141	N	
8	1/3/90	7	1		137	N	
8	1/3/90	8	1		133	N	
8	2/1/90	1	1		158	Y	
8	2/1/90	2	1		156	N	
8	2/1/90	3	1		153	N	
8	2/1/90	4	1		149	N	
8	2/1/90	5	1		144	N	
8	2/1/90	6	1		141	N	
8	2/1/90	7	1		137	N	
8	2/1/90	8	1		130	N	
8	3/8/90	1	1		154	Y	
8	3/8/90	2	1		152	N	
8	3/8/90	3	1		149	N	
8	3/8/90	4	1		145	N	
8	3/8/90	5	1		140	N	
8	3/8/90	6	1		136	N	
8	3/8/90	7	1		132	N	
8	3/8/90	8	1		127	N	
8	4/3/90	1	1		150	Y	
8	4/3/90	2	1		149	N	
8	4/3/90	3	1		145	N	
8	4/3/90	4	1		141	N	
8	4/3/90	5	1		137	N	
8	4/3/90	6	1		133	N	
8	4/3/90	7	1		129	N	
8	4/3/90	8	1		124	N	
8	5/3/90	1	1		150	Y	
8	5/3/90	2	1		149	N	
8	5/3/90	3	1		146	N	
8	5/3/90	4	1		142	N	
8	5/3/90	5	1		138	N	
8	5/3/90	6	1		134	N	
8	5/3/90	7	1		130	N	
8	5/3/90	8	1		126	N	
8	6/7/90	1	1		152	Y	
8	6/7/90	2	1		151	N	
8	6/7/90	3	1		148	N	
8	6/7/90	4	1		144	N	
8	6/7/90	5	1		140	N	
8	6/7/90	6	1		136	N	
8	6/7/90	7	1		132	N	
8	6/7/90	8	1		128	N	
8	7/3/90	1	1		152	Y	
8	7/3/90	2	1		151	N	
8	7/3/90	3	1		148	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	7/3/90	4	1		144	N	
8	7/3/90	5	1		140	N	
8	7/3/90	6	1		137	N	
8	7/3/90	7	1		133	N	
8	7/3/90	8	1		129	N	
8	8/2/90	1	1		151	Y	
8	8/2/90	2	1		149	N	
8	8/2/90	3	1		147	N	
8	8/2/90	4	1		143	N	
8	8/2/90	5	1		140	N	
8	8/2/90	6	1		136	N	
8	8/2/90	7	1		132	N	
8	8/2/90	8	1		128	N	
8	9/6/90	1	1		152	Y	
8	9/6/90	2	1		150	N	
8	9/6/90	3	1		147	N	
8	9/6/90	4	1		144	N	
8	9/6/90	5	1		141	N	
8	9/6/90	6	1		137	N	
8	9/6/90	7	1		134	N	
8	9/6/90	8	1		130	N	
8	10/2/90	1	1		153	Y	
8	10/2/90	2	1		152	N	
8	10/2/90	3	1		149	N	
8	10/2/90	4	1		146	N	
8	10/2/90	5	1		142	N	
8	10/2/90	6	1		139	N	
8	10/2/90	7	1		136	N	
8	10/2/90	8	1		132	N	
8	11/13/90	1	1		155	Y	
8	11/13/90	2	1		154	N	
8	11/13/90	3	1		151	N	
8	11/13/90	4	1		147	N	
8	11/13/90	5	1		143	N	
8	11/13/90	6	1		140	N	
8	11/13/90	7	1		136	N	
8	11/13/90	8	1		131	N	
8	12/5/90	1	1		154.6	Y	
8	12/5/90	2	1		153.5	N	
8	12/5/90	3	1		150	N	
8	12/5/90	4	1		145.9	N	
8	12/5/90	5	1		142.3	N	
8	12/5/90	6	1		138.4	N	
8	12/5/90	7	1		134	N	
8	12/5/90	8	1		129.3	N	
8	1/3/91	1	1		158.6	Y	
8	1/3/91	2	1		150.4	N	
8	1/3/91	3	1		150	N	
8	1/3/91	4	1		146.3	N	
8	1/3/91	5	1		142.8	N	
8	1/3/91	6	1		138.6	N	
8	1/3/91	7	1		133.6	N	
8	1/3/91	8	1		129.4	N	
8	2/20/91	1	1		150.6	Y	
8	2/20/91	2	1		148.8	N	
8	2/20/91	3	1		145.1	N	
8	2/20/91	4	1		140.6	N	
8	2/20/91	5	1		145.9	N	
8	2/20/91	6	1		131.4	N	
8	2/20/91	7	1		126.9	N	
8	2/20/91	8	1		122	N	
8	3/14/91	1	1		150.1	Y	
8	3/14/91	2	1		148.9	N	
8	3/14/91	3	1		145.2	N	
8	3/14/91	4	1		140.7	N	
8	3/14/91	5	1		136.5	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	3/14/91	6	1		132.4	N	
8	3/14/91	7	1		127.8	N	
8	3/14/91	8	1		122.9	N	
8	4/17/91	1	1		148.3	Y	
8	4/17/91	2	1		146.6	N	
8	4/17/91	3	1		143	N	
8	4/17/91	4	1		138.7	N	
8	4/17/91	5	1		134.5	N	
8	4/17/91	6	1		130.3	N	
8	4/17/91	7	1		125.9	N	
8	4/17/91	8	1		121.1	N	
8	5/2/91	1	1		148.5	Y	
8	5/2/91	2	1		146.5	N	
8	5/2/91	3	1		142.9	N	
8	5/2/91	4	1		138.4	N	
8	5/2/91	5	1		134.5	N	
8	5/2/91	6	1		130.6	N	
8	5/2/91	7	1		126.1	N	
8	5/2/91	8	1		121.4	N	
8	6/14/91	1	1		147.1	Y	
8	6/14/91	2	1		144.7	N	
8	6/14/91	3	1		141.6	N	
8	6/14/91	4	1		137.4	N	
8	6/14/91	5	1		133.6	N	
8	6/14/91	6	1		130.1	N	
8	6/14/91	7	1		126.1	N	
8	6/14/91	8	1		129.4	N	
8	7/19/91	1	1		146.2	Y	
8	7/19/91	2	1		145	N	
8	7/19/91	3	1		142.1	N	
8	7/19/91	4	1		138.1	N	
8	7/19/91	5	1		134.5	N	
8	7/19/91	6	1		138.4	N	
8	7/19/91	7	1		134.6	N	
8	7/19/91	8	1		123	N	
8	8/15/91	1	1		148	Y	
8	8/15/91	2	1		146.6	N	
8	8/15/91	3	1		143.8	N	
8	8/15/91	4	1		140	N	
8	8/15/91	5	1		136.9	N	
8	8/15/91	6	1		133.5	N	
8	8/15/91	7	1		129.9	N	
8	8/15/91	8	1		125.9	N	
8	8/30/91	1	1		147.9	Y	128-9042405
8	8/30/91	2	1		146.1	N	
8	8/30/91	3	1		143.3	N	
8	8/30/91	4	1		139.4	N	
8	8/30/91	5	1		135.9	N	
8	8/30/91	6	1		132.5	N	
8	8/30/91	7	1		129.1	N	
8	8/30/91	8	1		125.1	N	
8	9/5/91	1	1		149.4	Y	817-13-55-008 Omega
8	9/5/91	2	1		147.8	N	
8	9/5/91	3	1		144.7	N	
8	9/5/91	4	1		140.9	N	
8	9/5/91	5	1		137.7	N	
8	9/5/91	6	1		134.5	N	
8	9/5/91	7	1		130.8	N	
8	9/5/91	8	1		132.4	N	
8	9/12/91	1	1		147.6	Y	J-8171355008
8	9/12/91	2	1		146.4	N	
8	9/12/91	3	1		143.9	N	
8	9/12/91	4	1		140.4	N	
8	9/12/91	5	1		136.4	N	
8	9/12/91	6	1		133.6	N	
8	9/12/91	7	1		130.1	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	9/12/91	8	1		126.5	N	
8	9/19/91	1	1		148.1	Y	
8	9/19/91	2	1		146.8	N	
8	9/19/91	3	1		143.5	N	
8	9/19/91	4	1		139.9	N	
8	9/19/91	5	1		137	N	
8	9/19/91	6	1		133.6	N	
8	9/19/91	7	1		130	N	
8	9/19/91	8	1		126.6	N	
8	9/26/91	1	1		148.1	N	817-13-55-008
8	9/26/91	2	1		151.1	Y	
8	9/26/91	3	1		147.7	N	
8	9/26/91	4	1		141.3	N	
8	9/26/91	5	1		142.1	N	
8	9/26/91	6	1		138.2	N	
8	9/26/91	7	1		130.9	N	
8	9/26/91	8	1		128	N	
8	10/7/91	1	1		150.5	Y	J-817-13-35-008
8	10/7/91	2	1		149	N	
8	10/7/91	3	1		146	N	
8	10/7/91	4	1		142.4	N	
8	10/7/91	5	1		138.9	N	
8	10/7/91	6	1		135.5	N	
8	10/7/91	7	1		131.9	N	
8	10/7/91	8	1		127.9	N	
8	10/10/91	1	1		148.5	N	J-817-13-35-008
8	10/10/91	2	1		151.4	Y	
8	10/10/91	3	1		148.4	N	
8	10/10/91	4	1		140.9	N	
8	10/10/91	5	1		137.4	N	
8	10/10/91	6	1		134.1	N	
8	10/10/91	7	1		130.6	N	
8	10/10/91	8	1		126.6	N	
8	10/16/91	1	1		150.6	Y	817-13-35-008
8	10/16/91	2	1		149.1	N	
8	10/16/91	3	1		150.4	N	
8	10/16/91	4	1		142.7	N	
8	10/16/91	5	1		138.9	N	
8	10/16/91	6	1		135.5	N	
8	10/16/91	7	1		132	N	
8	10/16/91	8	1		127.9	N	
8	10/24/91	1	1		151.5	Y	J-817-13-35-008
8	10/24/91	2	1		150.1	N	
8	10/24/91	3	1		147.1	N	
8	10/24/91	4	1		143.4	N	
8	10/24/91	5	1		140	N	
8	10/24/91	6	1		136.5	N	
8	10/24/91	7	1		132.6	N	
8	10/24/91	8	1		128.4	N	
8	10/31/91	1	1		153.1	Y	817-13-35-008
8	10/31/91	2	1		151.8	N	
8	10/31/91	3	1		148.6	N	
8	10/31/91	4	1		144.9	N	
8	10/31/91	5	1		141.3	N	
8	10/31/91	6	1		138	N	
8	10/31/91	7	1		134	N	
8	10/31/91	8	1		130.1	N	
8	11/10/91	1	1		153.9	Y	J-817-13-55-008
8	11/10/91	2	1		152.9	N	
8	11/10/91	3	1		149.2	N	
8	11/10/91	4	1		145.6	N	
8	11/10/91	5	1		141.9	N	
8	11/10/91	6	1		138.5	N	
8	11/10/91	7	1		134.6	N	
8	11/10/91	8	1		130.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	11/15/91	1	1		152.1	Y	J-817-13-55-008
8	11/15/91	2	1		150.8	N	
8	11/15/91	3	1		147.6	N	
8	11/15/91	4	1		143.7	N	
8	11/15/91	5	1		140	N	
8	11/15/91	6	1		136.5	N	
8	11/15/91	7	1		132.6	N	
8	11/15/91	8	1		128.4	N	
8	11/21/91	1	1		155.7	Y	J-817-13-55-008
8	11/21/91	2	1		154.4	N	
8	11/21/91	3	1		151.3	N	
8	11/21/91	4	1		146.8	N	
8	11/21/91	5	1		142.9	N	
8	11/21/91	6	1		139.4	N	
8	11/21/91	7	1		135	N	
8	11/21/91	8	1		130.7	N	
8	11/27/91	1	1		159.9	Y	J-817-13-55-008
8	11/27/91	2	1		151.6	N	
8	11/27/91	3	1		154.9	N	
8	11/27/91	4	1		150.6	N	
8	11/27/91	5	1		142.4	N	
8	11/27/91	6	1		139	N	
8	11/27/91	7	1		134.7	N	
8	11/27/91	8	1		130.1	N	
8	12/6/91	1	1		153	Y	J-817-13-55-008
8	12/6/91	2	1		151	N	
8	12/6/91	3	1		148	N	
8	12/6/91	4	1		144	N	
8	12/6/91	5	1		140	N	
8	12/6/91	6	1		136	N	
8	12/6/91	7	1		132	N	
8	12/6/91	8	1		127	N	
8	12/13/91	1	1		151.5	Y	817-13-55-008
8	12/13/91	2	1		149.9	N	
8	12/13/91	3	1		146.6	N	
8	12/13/91	4	1		142.4	N	
8	12/13/91	5	1		138.4	N	
8	12/13/91	6	1		134.5	N	
8	12/13/91	7	1		130.2	N	
8	12/13/91	8	1		125.6	N	
8	12/19/91	1	1		154.6	Y	J-817-13-55-008
8	12/19/91	2	1		154	N	
8	12/19/91	3	1		150.5	N	
8	12/19/91	4	1		146.4	N	
8	12/19/91	5	1		142.1	N	
8	12/19/91	6	1		138.4	N	
8	12/19/91	7	1		134.3	N	
8	12/19/91	8	1		129.6	N	
8	12/26/91	1	1		153.5	Y	817-13-55-008
8	12/26/91	2	1		151.6	N	
8	12/26/91	3	1		148.1	N	
8	12/26/91	4	1		143.8	N	
8	12/26/91	5	1		140	N	
8	12/26/91	6	1		136.5	N	
8	12/26/91	7	1		132.7	N	
8	12/26/91	8	1		128.4	N	
8	1/2/92	1	1		151	N	J-817-13-55-008
8	1/2/92	2	1		153	Y	
8	1/2/92	3	1		146	N	
8	1/2/92	4	1		142	N	
8	1/2/92	5	1		138	N	
8	1/2/92	6	1		134	N	
8	1/2/92	7	1		130	N	
8	1/2/92	8	1		125	N	
8	1/9/92	1	1		155.4	Y	J 817135500-8
8	1/9/92	2	1		153.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	1/9/92	3	1		149.1	N	
8	1/9/92	4	1		144.6	N	
8	1/9/92	5	1		141	N	
8	1/9/92	6	1		137	N	
8	1/9/92	7	1		132.7	N	
8	1/9/92	8	1		127.9	N	
8	1/17/92	1	1		162.2	Y	J 8171355008
8	1/17/92	2	1		153.5	N	
8	1/17/92	3	1		150.3	N	
8	1/17/92	4	1		145.6	N	
8	1/17/92	5	1		141.4	N	
8	1/17/92	6	1		137	N	
8	1/17/92	7	1		132.4	N	
8	1/17/92	8	1		N		
8	1/24/92	1	1		149.2	Y	
8	1/24/92	2	1		147.4	N	
8	1/24/92	3	1		144	N	
8	1/24/92	4	1		139.6	N	
8	1/24/92	5	1		138.2	N	
8	1/24/92	6	1		134.3	N	
8	1/24/92	7	1		129.9	N	
8	1/24/92	8	1		122.3	N	
8	2/21/92	1	1		154	Y	
8	2/21/92	2	1		152	N	
8	2/21/92	3	1		148	N	
8	2/21/92	4	1		143	N	
8	2/21/92	5	1		139	N	
8	2/21/92	6	1		135	N	
8	2/21/92	7	1		130	N	
8	2/21/92	8	1		125	N	
8	2/28/92	1	1		156	Y	817-13-20-019
8	2/28/92	2	1		155	N	
8	2/28/92	3	1		151	N	
8	2/28/92	4	1		147	N	
8	2/28/92	5	1		142	N	
8	2/28/92	6	1		138	N	
8	2/28/92	7	1		134	N	
8	2/28/92	8	1		129	N	
8	3/5/92	1	1		152	Y	
8	3/5/92	2	1		150	N	
8	3/5/92	3	1		146	N	
8	3/5/92	4	1		142	N	
8	3/5/92	5	1		136	N	
8	3/5/92	6	1		132	N	
8	3/5/92	7	1		127	N	
8	3/5/92	8	1		123	N	
8	3/19/92	1	1		154	Y	J C19950
8	3/19/92	2	1		152	N	
8	3/19/92	3	1		148	N	
8	3/19/92	4	1		144	N	
8	3/19/92	5	1		140	N	
8	3/19/92	6	1		136	N	
8	3/19/92	7	1		131	N	
8	3/19/92	8	1		127	N	
8	3/26/92	1	1		154	Y	J 8171320019
8	3/26/92	2	1		153	N	
8	3/26/92	3	1		149	N	
8	3/26/92	4	1		145	N	
8	3/26/92	5	1		140	N	
8	3/26/92	6	1		136	N	
8	3/26/92	7	1		132	N	
8	3/26/92	8	1		127	N	
8	4/2/92	1	2		146	Y	SET #2
8	4/2/92	2	2		138	N	
8	4/2/92	3	2		127	N	
8	4/2/92	4	2			N	115 - suspect data (low)

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	4/2/92	5	2			N	113 - suspect data (low)
8	4/2/92	6	2			N	113 - suspect data (low)
8	4/2/92	7	2			N	122 - suspect data (low)
8	4/2/92	8	2			N	111 - suspect data (low)
8	4/6/92	1	1		160	N	J 8171355010
8	4/6/92	2	1		158	N	
8	4/6/92	3	1		154	N	
8	4/6/92	4	1		149	N	
8	4/6/92	5	1		145	N	
8	4/6/92	6	1		141	N	
8	4/6/92	7	1		137	N	
8	4/6/92	8	1		132	N	
8	4/15/92	1	1		152	Y	J 8171355010
8	4/15/92	2	1		150	N	
8	4/15/92	3	1		147	N	
8	4/15/92	4	1		142	N	
8	4/15/92	5	1		138	N	
8	4/15/92	6	1		134	N	
8	4/15/92	7	1		130	N	
8	4/15/92	8	1		126	N	
8	4/23/92	1	1		150	Y	J 8171355010
8	4/23/92	2	1		148	N	
8	4/23/92	3	1		144	N	
8	4/23/92	4	1		140	N	
8	4/23/92	5	1		138	N	
8	4/23/92	6	1		134	N	
8	4/23/92	7	1		130	N	
8	4/23/92	8	1		125	N	
8	4/30/92	1	1		145	Y	J 8171355010
8	4/30/92	2	1		143	N	
8	4/30/92	3	1		139	N	
8	4/30/92	4	1		135	N	
8	4/30/92	5	1		131	N	
8	4/30/92	6	1		127	N	
8	4/30/92	7	1		124	N	
8	4/30/92	8	1		119	N	
8	5/14/92	1	1		145	Y	J 8171355010
8	5/14/92	2	1		144	N	
8	5/14/92	3	1		141	N	
8	5/14/92	4	1		137	N	
8	5/14/92	5	1		133	N	
8	5/14/92	6	1		130	N	
8	5/14/92	7	1		126	N	
8	5/14/92	8	1		121	N	
8	5/21/92	1	1		160	N	J 8171320019
8	5/21/92	2	1		158	N	
8	5/21/92	3	1		155	N	
8	5/21/92	4	1		151	N	
8	5/21/92	5	1		146	N	
8	5/21/92	6	1		142	N	
8	5/21/92	7	1		137	N	
8	5/21/92	8	1		133	N	
8	5/28/92	1	1		145	Y	J 8171355010
8	5/28/92	2	1		143	N	
8	5/28/92	3	1		136	N	
8	5/28/92	4	1		132	N	
8	5/28/92	5	1		129	N	
8	5/28/92	6	1		126	N	
8	5/28/92	7	1		121	N	
8	6/4/92	1	1		143	Y	J 8171320019
8	6/4/92	2	1		141	N	
8	6/4/92	3	1		138	N	
8	6/4/92	4	1		134	N	
8	6/4/92	5	1		132	N	
8	6/4/92	6	1		128	N	
8	6/4/92	7	1		125	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	6/4/92	8	1		121	N	
8	6/11/92	1	1		144	Y	J NO-817-1320-019
8	6/11/92	2	1		143	N	
8	6/11/92	3	1		140	N	
8	6/11/92	4	1		136	N	
8	6/11/92	5	1		132	N	
8	6/11/92	6	1		129	N	
8	6/11/92	7	1		125	N	
8	6/11/92	8	1		121	N	
8	7/1/92	1	1		143	Y	817-13-20-019
8	7/1/92	2	1		142	N	
8	7/1/92	3	1		139	N	
8	7/1/92	4	1		135	N	
8	7/1/92	5	1		128	N	
8	7/1/92	6	1		128	N	
8	7/1/92	7	1		125	N	
8	7/1/92	8	1		121	N	
8	7/13/92	1	1		143	Y	J 817-13-20-019
8	7/13/92	2	1		142	N	
8	7/13/92	3	1		139	N	
8	7/13/92	4	1		135	N	
8	7/13/92	5	1		128	N	
8	7/13/92	6	1		128	N	
8	7/13/92	7	1		125	N	
8	7/13/92	8	1		121	N	
8	7/16/92	1	1		145	Y	J 890523512-42
8	7/16/92	2	1		143	N	
8	7/16/92	3	1		140	N	
8	7/16/92	4	1		137	N	
8	7/16/92	5	1		134	N	
8	7/16/92	6	1		131	N	
8	7/16/92	7	1		127	N	
8	7/16/92	8	1		123	N	
8	7/25/92	1	1		148	Y	J 817-13-20-019
8	7/25/92	2	1		147	N	
8	7/25/92	3	1		145	N	
8	7/25/92	4	1		141	N	
8	7/25/92	5	1		138	N	
8	7/25/92	6	1		135	N	
8	7/25/92	7	1		131	N	
8	7/25/92	8	1		128	N	
8	7/30/92	1	1		148	Y	813-13-55-008
8	7/30/92	2	1		143	N	
8	7/30/92	3	1		143	N	
8	7/30/92	4	1		141	N	
8	7/30/92	5	1		138	N	
8	7/30/92	6	1		134	N	
8	7/30/92	7	1		130	N	
8	7/30/92	8	1		127	N	
8	8/7/92	1	1		148.1	N	J 817-13-55-008
8	8/7/92	2	1		146.5	N	
8	8/7/92	3	1		143.6	N	
8	8/7/92	4	1		140.4	N	
8	8/7/92	5	1		133.1	N	
8	8/7/92	6	1		134	N	
8	8/7/92	7	1		130.8	N	
8	8/7/92	8	1		127.2	N	
8	8/13/92	1	1		146.2	Y	J 817-13-55-008
8	8/13/92	2	1		145.1	N	
8	8/13/92	3	1		142.4	N	
8	8/13/92	4	1		138.9	N	
8	8/13/92	5	1		135.5	N	
8	8/13/92	6	1		132.6	N	
8	8/13/92	7	1		129.4	N	
8	8/13/92	8	1		125.5	N	
8	8/20/92	1	1		146.6	Y	J 817-13-55-008 TC#5-8 BAD

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	8/20/92	2	1		144	N	
8	8/20/92	3	1		140	N	
8	8/20/92	4	1		138	N	
8	8/28/92	1	1		147.8	Y	J 817-13-55-009
8	8/28/92	2	1		145.1	N	
8	8/28/92	3	1		143.1	N	
8	8/28/92	4	1		140	N	
8	8/28/92	5	1		137.6	N	
8	8/28/92	6	1		134.5	N	
8	8/28/92	7	1		131	N	
8	8/28/92	8	1		127.5	N	
8	9/3/92	1	1		147.6	Y	J 128-9042212
8	9/3/92	2	1		145.4	N	
8	9/3/92	3	1		143	N	
8	9/3/92	4	1		139.6	N	
8	9/3/92	5	1		136.4	N	
8	9/3/92	6	1		133.4	N	
8	9/3/92	7	1		130	N	
8	9/3/92	8	1		127	N	
8	9/9/92	1	1		147	Y	J 910126143-29
8	9/9/92	2	1		146	N	
8	9/9/92	3	1		143	N	
8	9/9/92	4	1		140	N	
8	9/9/92	5	1		136	N	
8	9/9/92	6	1		133	N	
8	9/9/92	7	1		130	N	
8	9/9/92	8	1		127	N	
8	9/15/92	1	1		151	Y	817-13-20-019
8	9/15/92	2	1		150	N	
8	9/15/92	3	1		148	N	
8	9/15/92	4	1		145	N	
8	9/15/92	5	1		139	N	
8	9/15/92	6	1		141	N	
8	9/15/92	7	1		138	N	
8	9/15/92	8	1		134	N	
8	10/1/92	1	1		148	Y	J 817-13-20-019
8	10/1/92	2	1		147	N	
8	10/1/92	3	1		144	N	
8	10/1/92	4	1		141	N	
8	10/1/92	5	1		138	N	
8	10/1/92	6	1		134	N	
8	10/1/92	7	1		131	N	
8	10/1/92	8	1		128	N	
8	10/8/92	1	1		150	Y	
8	10/8/92	2	1		149	N	
8	10/8/92	3	1		146	N	
8	10/8/92	4	1		142	N	
8	10/8/92	5	1		139	N	
8	10/8/92	6	1		136	N	
8	10/8/92	7	1		133	N	
8	10/8/92	8	1		129	N	
8	10/16/92	1	1		150	Y	J 817-13-20-019
8	10/16/92	2	1		149	N	
8	10/16/92	3	1		146	N	
8	10/16/92	4	1		142	N	
8	10/16/92	5	1		139	N	
8	10/16/92	6	1		136	N	
8	10/16/92	7	1		133	N	
8	10/16/92	8	1		129	N	
8	10/22/92	1	1		152	Y	J 817-13-20-019
8	10/22/92	2	1		151	N	
8	10/22/92	3	1		148	N	
8	10/22/92	4	1		145	N	
8	10/22/92	5	1		142	N	
8	10/22/92	6	1		138	N	
8	10/22/92	7	1		135	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	10/22/92	8	1		131	N	
8	10/29/92	1	1		154	Y	J 819-20-13-019
8	10/29/92	2	1		153	N	
8	10/29/92	3	1		150	N	
8	10/29/92	4	1		147	N	
8	10/29/92	5	1		143	N	
8	10/29/92	6	1		140	N	
8	10/29/92	7	1		136	N	
8	10/29/92	8	1		133	N	
8	11/5/92	1	1		151	Y	J 817-13-20-019
8	11/5/92	2	1		148	N	
8	11/5/92	3	1		144	N	
8	11/5/92	4	1		145	N	
8	11/5/92	5	1		138	N	
8	11/5/92	6	1		136	N	
8	11/5/92	7	1		132	N	
8	11/5/92	8	1		128	N	
8	11/12/92	1	1		154	Y	817-13-55-009
8	11/12/92	2	1		153	N	
8	11/12/92	3	1		150	N	
8	11/12/92	4	1		147	N	
8	11/12/92	5	1		144	N	
8	11/12/92	6	1		140	N	
8	11/12/92	7	1		137	N	
8	11/12/92	8	1		133	N	
8	11/19/92	1	1		153	Y	J 817-13-20-019
8	11/19/92	2	1		152	N	
8	11/19/92	3	1		149	N	
8	11/19/92	4	1		147	N	
8	11/19/92	5	1		137	N	
8	11/19/92	6	1		140	N	
8	11/19/92	7	1		137	N	
8	11/19/92	8	1		133	N	
8	11/24/92	1	1		146	Y	817-13-20-019
8	11/24/92	2	1		144	N	
8	11/24/92	3	1		141	N	
8	11/24/92	4	1		138	N	
8	11/24/92	5	1		134	N	
8	11/24/92	6	1		131	N	
8	11/24/92	7	1		128	N	
8	11/24/92	8	1		124	N	
8	12/4/92	1	1		146	Y	J 817-13-20-019
8	12/4/92	2	1		145	N	
8	12/4/92	3	1		142	N	
8	12/4/92	4	1		138	N	
8	12/4/92	5	1		135	N	
8	12/4/92	6	1		132	N	
8	12/4/92	7	1		128	N	
8	12/4/92	8	1		124	N	
8	12/10/92	1	1		149	Y	817-13-20-019
8	12/10/92	2	1		147	N	
8	12/10/92	3	1		144	N	
8	12/10/92	4	1		140	N	
8	12/10/92	5	1		136	N	
8	12/10/92	6	1		133	N	
8	12/10/92	7	1		129	N	
8	12/10/92	8	1		126	N	
8	12/16/92	1	1		149	Y	
8	12/16/92	2	1		147	N	
8	12/16/92	3	1		144	N	
8	12/16/92	4	1		141	N	
8	12/16/92	5	1		137	N	
8	12/16/92	6	1		134	N	
8	12/16/92	7	1		131	N	
8	12/16/92	8	1		127	N	
8	12/22/92	1	1		147	Y	J 817-13-20-019

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	12/22/92	2	1		145	N	
8	12/22/92	3	1		143	N	
8	12/22/92	4	1		139	N	
8	12/22/92	5	1		136	N	
8	12/22/92	6	1		133	N	
8	12/22/92	7	1		129	N	
8	12/22/92	8	1		125	N	
8	12/30/92	1	1		150	Y	
8	12/30/92	2	1		149	N	
8	12/30/92	3	1		145	N	
8	12/30/92	4	1		142	N	
8	12/30/92	5	1		138	N	
8	12/30/92	6	1		134	N	
8	12/30/92	7	1		131	N	
8	12/30/92	8	1		126	N	
8	1/7/93	1	1		154	Y	817-13-20-019
8	1/7/93	2	1		153	N	
8	1/7/93	3	1		150	N	
8	1/7/93	4	1		147	N	
8	1/7/93	5	1		143	N	
8	1/7/93	6	1		140	N	
8	1/7/93	7	1		136	N	
8	1/7/93	8	1		132	N	
8	1/15/93	1	1		152	Y	J 817-13-20-019
8	1/15/93	2	1		145	N	
8	1/15/93	3	1		143	N	
8	1/15/93	4	1		140	N	
8	1/15/93	5	1		136	N	
8	1/15/93	6	1		133	N	
8	1/15/93	7	1		132	N	
8	1/15/93	8	1		124	N	
8	1/28/93	1	1		144	Y	817-13-20-019
8	1/28/93	2	1		139	N	
8	1/28/93	3	1		137	N	
8	1/28/93	4	1		134	N	
8	1/28/93	5	1		129	N	
8	1/28/93	6	1		126	N	
8	1/28/93	7	1		123	N	
8	1/28/93	8	1		118	N	
8	2/3/93	1	1		155	Y	817-13-20-019
8	2/3/93	2	1		153	N	
8	2/3/93	3	1		150	N	
8	2/3/93	4	1		146	N	
8	2/3/93	5	1		142	N	
8	2/3/93	6	1		138	N	
8	2/3/93	7	1		134	N	
8	2/3/93	8	1		129	N	
8	2/11/93	1	1		152	Y	J 817-13-20-019
8	2/11/93	2	1		151	N	
8	2/11/93	3	1		148	N	
8	2/11/93	4	1		144	N	
8	2/11/93	5	1		140	N	
8	2/11/93	6	1		136	N	
8	2/11/93	7	1		132	N	
8	2/11/93	8	1		128	N	
8	2/18/93	1	1		144.1	Y	
8	2/18/93	2	1		143.1	N	
8	2/18/93	3	1		140	N	
8	2/18/93	4	1		136.1	N	
8	2/18/93	5	1		132.5	N	
8	2/18/93	6	1		129	N	
8	2/18/93	7	1		125.1	N	
8	2/18/93	8	1		121	N	
8	2/25/93	1	1		121.5	N	817-13-55-008
8	2/25/93	2	1		145	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	2/25/93	3	1		141.7	N	
8	2/25/93	4	1		137.9	N	
8	2/25/93	5	1		137	N	
8	2/25/93	6	1		130.4	N	
8	2/25/93	7	1		126.6	N	
8	2/25/93	8	1		122.4	N	
8	3/3/93	1	1		154	Y	817-13-20-019
8	3/3/93	2	1		152	N	
8	3/3/93	3	1		149	N	
8	3/3/93	4	1		145	N	
8	3/3/93	5	1		140	N	
8	3/3/93	6	1		137	N	
8	3/3/93	7	1		132	N	
8	3/3/93	8	1		129	N	
8	3/4/93	1	1		155	Y	J 817-13-20-019
8	3/4/93	2	1		153	N	
8	3/4/93	3	1		151	N	
8	3/4/93	4	1		146	N	
8	3/4/93	5	1		142	N	
8	3/4/93	6	1		138	N	
8	3/4/93	7	1		135	N	
8	3/4/93	8	1		130	N	
8	3/11/93	1	1		143	Y	
8	3/11/93	2	1		142	N	
8	3/11/93	3	1		139	N	
8	3/11/93	4	1		135	N	
8	3/11/93	5	1		131	N	
8	3/11/93	6	1		128	N	
8	3/11/93	7	1		124	N	
8	3/11/93	8	1		120	N	
8	3/18/93	1	1		150	Y	817-13-20-019
8	3/18/93	2	1		150	N	
8	3/18/93	3	1		146	N	
8	3/18/93	4	1		142	N	
8	3/18/93	5	1		138	N	
8	3/18/93	6	1		134	N	
8	3/18/93	7	1		130	N	
8	3/18/93	8	1		125	N	
8	3/25/93	1	1		148	Y	817-13-20-019
8	3/25/93	2	1		146	N	
8	3/25/93	3	1		143	N	
8	3/25/93	4	1		139	N	
8	3/25/93	5	1		136	N	
8	3/25/93	6	1		132	N	
8	3/25/93	7	1		128	N	
8	3/25/93	8	1		123	N	
8	4/1/93	1	1		144	Y	J 817-13-55-005
8	4/1/93	2	1		143	N	
8	4/1/93	3	1		140	N	
8	4/1/93	4	1		136	N	
8	4/1/93	5	1		133	N	
8	4/1/93	6	1		129	N	
8	4/1/93	7	1		125	N	
8	4/1/93	8	1		121	N	
8	4/8/93	1	1		145	Y	J 817-13-20-019
8	4/8/93	2	1		143	N	
8	4/8/93	3	1		140	N	
8	4/8/93	4	1		136	N	
8	4/8/93	5	1		132	N	
8	4/8/93	6	1		129	N	
8	4/8/93	7	1		125	N	
8	4/8/93	8	1		121	N	
8	4/15/93	1	1		143	Y	J 910126143-66
8	4/15/93	2	1		142	N	
8	4/15/93	3	1		139	N	
8	4/15/93	4	1		135	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	4/15/93	5	1		132	N	
8	4/15/93	6	1		129	N	
8	4/15/93	7	1		125	N	
8	4/15/93	8	1		120	N	
8	4/22/93	1	1		146	Y	TYPE J 817-13-20-019
8	4/22/93	2	1		145	N	
8	4/22/93	3	1		142	N	
8	4/22/93	4	1		138	N	
8	4/22/93	5	1		135	N	
8	4/22/93	6	1		131	N	
8	4/22/93	7	1		128	N	
8	4/22/93	8	1		123	N	
8	4/29/93	1	1		144	Y	
8	4/29/93	2	1		143	N	
8	4/29/93	3	1		140	N	
8	4/29/93	4	1		136	N	
8	4/29/93	5	1		132	N	
8	4/29/93	6	1		129	N	
8	4/29/93	7	1		125	N	
8	4/29/93	8	1		121	N	
8	5/6/93	1	1		136	N	I 817132019
8	5/6/93	2	1		135	N	
8	5/6/93	3	1		137	Y	
8	5/6/93	4	1		130	N	
8	5/6/93	5	1		131	N	
8	5/6/93	6	1		128	N	
8	5/6/93	7	1		124	N	
8	5/6/93	8	1		120	N	
8	5/13/93	1	1		143	Y	OMEGA 817-13-20-019
8	5/13/93	2	1		142	N	
8	5/13/93	3	1		139	N	
8	5/13/93	4	1		135	N	
8	5/13/93	5	1		133	N	
8	5/13/93	6	1		130	N	
8	5/13/93	7	1		126	N	
8	5/13/93	8	1		122	N	
8	5/20/93	1	1		140	N	J 910126143-66
8	5/20/93	2	1		141	Y	
8	5/20/93	3	1		138	N	
8	5/20/93	4	1		135	N	
8	5/20/93	5	1		131	N	
8	5/20/93	6	1		115	N	
8	5/20/93	7	1		123	N	
8	5/20/93	8	1		121	N	
8	5/27/93	1	1		142	Y	817-13-20-019
8	5/27/93	2	1		141	N	
8	5/27/93	3	1		139	N	
8	5/27/93	4	1		135	N	
8	5/27/93	5	1		133	N	
8	5/27/93	6	1		128	N	
8	5/27/93	7	1		125	N	
8	5/27/93	8	1		120	N	
8	6/3/93	1	1		143	Y	817-13-20-019
8	6/3/93	2	1		142	N	
8	6/3/93	3	1		139	N	
8	6/3/93	4	1		135	N	
8	6/3/93	5	1		132	N	
8	6/3/93	6	1		129	N	
8	6/3/93	7	1		125	N	
8	6/3/93	8	1		121	N	
8	6/10/93	1	1		142	Y	910126143-32
8	6/10/93	2	1		141	N	
8	6/10/93	3	1		139	N	
8	6/10/93	4	1		135	N	
8	6/10/93	5	1		131	N	
8	6/10/93	6	1		128	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	6/10/93	7	1		124	N	
8	6/10/93	8	1		118	N	
8	6/18/93	1	1		147.6	Y	910126143-32 TC 24 O/S
8	6/18/93	3	1		143.3	N	
8	6/18/93	5	1		135.8	N	
8	6/18/93	6	1		132.4	N	
8	6/18/93	7	1		128.6	N	
8	6/18/93	8	1		124.7	N	
8	6/24/93	1	1		143	Y	J 817-13-20-019
8	6/24/93	2	1		143	N	
8	6/24/93	3	1		142	N	
8	6/24/93	4	1		140	N	
8	6/24/93	5	1		137	N	
8	6/24/93	6	1		133	N	
8	6/24/93	7	1		129	N	
8	6/24/93	8	1		124	N	
8	7/1/93	1	1		145.5	Y	890423320-42 TC 24 O/S
8	7/1/93	3	1		141.5	N	
8	7/1/93	5	1		134.5	N	
8	7/1/93	6	1		130.8	N	
8	7/1/93	7	1		127.2	N	
8	7/1/93	8	1		122.9	N	
8	7/9/93	1	1		144.5	Y	TC 24 O/S
8	7/9/93	3	1		140.7	N	
8	7/9/93	5	1		134.1	N	
8	7/9/93	6	1		130.6	N	
8	7/9/93	7	1		126.8	N	
8	7/9/93	8	1		122.8	N	
8	7/16/93	1	1		145.4	Y	TYPE J 890423320-42
8	7/16/93	3	1		141.7	N	
8	7/16/93	5	1		134.8	N	
8	7/16/93	6	1		131.5	N	
8	7/16/93	7	1		127.8	N	
8	7/16/93	8	1		124.5	N	
8	7/22/93	1	1		146.8	Y	J 817-13-55-009
8	7/22/93	1	2		145.9	Y	J 0126143-14 TC-24 O/S
8	7/22/93	2	1		141.8	N	
8	7/22/93	3	1		143.4	N	
8	7/22/93	3	2		142.1	N	
8	7/22/93	4	1		135.9	N	
8	7/22/93	5	1		136.5	N	
8	7/22/93	5	2		135.1	N	
8	7/22/93	6	1		132.9	N	
8	7/22/93	6	2		131.5	N	
8	7/22/93	7	1		129	N	
8	7/22/93	7	2		127.7	N	
8	7/22/93	8	1		125.1	N	
8	7/22/93	8	2		123.8	N	
8	7/29/93	1	1		146.7	Y	J 910126143-14 TC# 2 & 4
8	7/29/93	2	1			N	
8	7/29/93	3	1		142.7	N	
8	7/29/93	4	1			N	
8	7/29/93	5	1		136	N	
8	7/29/93	6	1		132.8	N	
8	7/29/93	7	1		129.4	N	
8	7/29/93	8	1		125.8	N	
8	8/5/93	1	1		146	Y	890423320-42 TC# 2 & 4 O/S
8	8/5/93	1	2		147	Y	817-13-20-019
8	8/5/93	2	1			N	
8	8/5/93	2	2		143	N	
8	8/5/93	3	1		142.5	N	
8	8/5/93	3	2		143	N	
8	8/5/93	4	1			N	
8	8/5/93	4	2		137	N	
8	8/5/93	5	1		135.9	N	
8	8/5/93	5	2		136	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	8/5/93	6	1		132.4	N	
8	8/5/93	6	2		133	N	
8	8/5/93	7	1		128.8	N	
8	8/5/93	7	2		129	N	
8	8/5/93	8	1		125	N	
8	8/5/93	8	2		125	N	
8	8/14/93	1	1		146.5	Y	J910126143-14 TC 2&4 O/S
8	8/14/93	3	1		142.6	N	
8	8/14/93	5	1		136	N	
8	8/14/93	6	1		132.8	N	
8	8/14/93	7	1		129	N	
8	8/14/93	8	1		125.3	N	
8	8/19/93	1	1		145.7	Y	J89062330-42 TC 2&4 O/S
8	8/19/93	3	1		142.5	N	
8	8/19/93	5	1		136.2	N	
8	8/19/93	6	1		132.9	N	
8	8/19/93	7	1		129.2	N	
8	8/19/93	8	1		125.6	N	
8	8/27/93	1	1		152.3	Y	J 910126143-66 TC 2&4 O/S
8	8/27/93	3	1		148.1	N	
8	8/27/93	5	1		141.4	N	
8	8/27/93	6	1		138.1	N	
8	8/27/93	7	1		134.7	N	
8	8/27/93	8	1		130.8	N	
8	9/3/93	3	1		147.6	N	
8	9/3/93	5	1		140.2	N	
8	9/3/93	6	1		136.6	N	
8	9/3/93	7	1		132.6	N	
8	9/3/93	8	1		128.5	N	
8	9/4/93	1	1		146.3	Y	TI-045 TC 24 O/S
8	9/4/93	3	1		143	N	
8	9/4/93	5	1		136.1	N	
8	9/4/93	6	1		132.9	N	
8	9/4/93	7	1		129.3	N	
8	9/4/93	8	1		125.6	N	
8	9/12/93	1	1		152.5	Y	OMEGA TI-042 TC 24 O/S
8	9/12/93	3	1		148.5	N	
8	9/12/93	5	1		141.5	N	
8	9/12/93	6	1		138.3	N	
8	9/12/93	7	1		135	N	
8	9/12/93	8	1		131.3	N	
8	9/20/93	1	1		147.8	Y	HDAT TC 24 O/S
8	9/20/93	3	1		144	N	
8	9/20/93	5	1		137.3	N	
8	9/20/93	6	1		134.1	N	
8	9/20/93	7	1		130.6	N	
8	9/20/93	8	1		126.9	N	
8	9/27/93	1	1		148.7	Y	J 890423320-42 TC 24O/S
8	9/27/93	1	2		148.2	Y	HDAT TC 24 O/S
8	9/27/93	3	1		144.7	N	
8	9/27/93	3	2		144.3	N	
8	9/27/93	5	1		137.8	N	
8	9/27/93	5	2		137.4	N	
8	9/27/93	6	1		134.7	N	
8	9/27/93	6	2		134.4	N	
8	9/27/93	7	1		131.2	N	
8	9/27/93	7	2		130.9	N	
8	9/27/93	8	1		127.6	N	
8	9/27/93	8	2		127.3	N	
8	10/5/93	1	1		149.7	Y	J 910126143-48 TC 24 O/S
8	10/5/93	3	1		146	N	
8	10/5/93	5	1		139.1	N	
8	10/5/93	6	1		136	N	
8	10/5/93	7	1		132.6	N	
8	10/5/93	8	1		128.8	N	
8	10/11/93	1	1		150.6	Y	J 910126143-48 TC 24 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	10/11/93	3	1		146.4	N	
8	10/11/93	5	1		139.6	N	
8	10/11/93	6	1		136.5	N	
8	10/11/93	7	1		133.1	N	
8	10/11/93	8	1		129.4	N	
8	10/18/93	1	1		143.3	Y	910126143-14
8	10/18/93	2	1		142.6	N	
8	10/18/93	3	1		142.1	N	
8	10/18/93	4	1		141.3	N	
8	10/18/93	5	1		139.1	N	
8	10/18/93	6	1		135.8	N	
8	10/18/93	7	1		132.1	N	
8	10/18/93	8	1		127.6	N	
8	10/27/93	1	1		151.2	Y	91012614348 TC 24 O/S
8	10/27/93	3	1		146.8	N	
8	10/27/93	5	1		140.1	N	
8	10/27/93	6	1		137.2	N	
8	10/27/93	7	1		133.7	N	
8	10/27/93	8	1		130	N	
8	11/1/93	1	1		150.3	Y	910126143-29 TC 24 O/S
8	11/1/93	3	1		146.2	N	
8	11/1/93	5	1		139.4	N	
8	11/1/93	6	1		136.3	N	
8	11/1/93	7	1		132.8	N	
8	11/1/93	8	1		129.1	N	
8	11/8/93	1	1		151.6	Y	J 910126143-29 TC 24 O/S
8	11/8/93	3	1		147.7	N	
8	11/8/93	5	1		140.6	N	
8	11/8/93	6	1		137.6	N	
8	11/8/93	7	1		134	N	
8	11/8/93	8	1		130.1	N	
8	11/17/93	1	1		151.6	Y	J TI-041 TC 24 O/S
8	11/17/93	3	1		147.4	N	
8	11/17/93	5	1		140.4	N	
8	11/17/93	6	1		137.2	N	
8	11/17/93	7	1		133.4	N	
8	11/17/93	8	1		129.2	N	
8	11/23/93	1	1		151.9	Y	J 910126143-29 TC 24 O/S
8	11/23/93	3	1		147.8	N	
8	11/23/93	5	1		140.6	N	
8	11/23/93	6	1		136.7	N	
8	11/23/93	7	1		134	N	
8	11/23/93	8	1		30	N	
8	11/29/93	1	1		152.2	Y	91012614329 TC 24 O/S
8	11/29/93	1	2		151.9	Y	910226246-45 TC 24 O/S
8	11/29/93	3	1		147.7	N	
8	11/29/93	3	2		147.5	N	
8	11/29/93	5	1		140.7	N	
8	11/29/93	5	2		140.6	N	
8	11/29/93	6	1		137.8	N	
8	11/29/93	6	2		137.6	N	
8	11/29/93	7	1		134.3	N	
8	11/29/93	7	2		134.1	N	
8	11/29/93	8	1		130.5	N	
8	11/29/93	8	2		130.2	N	
8	12/7/93	1	1		152	Y	J 910126143-29 TC 24 O/S
8	12/7/93	3	1		147.8	N	
8	12/7/93	5	1		140.8	N	
8	12/7/93	6	1		137.9	N	
8	12/7/93	7	1		137.4	N	
8	12/7/93	8	1		134.4	N	
8	12/14/93	1	1		152.6	Y	J 910126143-20 TC 24 O/S
8	12/14/93	3	1		148.4	N	
8	12/14/93	5	1		141.5	N	
8	12/14/93	6	1		138.2	N	
8	12/14/93	7	1		134.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/14/93	8	1		131.2	N	
8	12/20/93	1	1		152	Y	TC 2 4 O/S
8	12/20/93	3	1		147.9	N	
8	12/20/93	5	1		140.9	N	
8	12/20/93	6	1		138	N	
8	12/20/93	7	1		134.5	N	
8	12/20/93	8	1		130.8	N	
8	12/21/93	1	1		152.3	Y	910126143-29 TC 24 O/S
8	12/21/93	1	2		152	Y	J 910126143-29 TC 24 O/S
8	12/21/93	3	1		148.1	N	
8	12/21/93	3	2		148	N	
8	12/21/93	5	1		141.4	N	
8	12/21/93	5	2		141.4	N	
8	12/21/93	6	1		138.1	N	
8	12/21/93	6	2		137.9	N	
8	12/21/93	7	1		134.7	N	
8	12/21/93	7	2		134.5	N	
8	12/21/93	8	1		130.8	N	
8	12/21/93	8	2		130.5	N	
8	12/22/93	1	1		152.7	Y	910126143-29 TC 24 O/S
8	12/22/93	3	1		148.5	N	
8	12/22/93	5	1		141.6	N	
8	12/22/93	6	1		138.6	N	
8	12/22/93	7	1		135.2	N	
8	12/22/93	8	1		131.6	N	
8	12/23/93	1	1		152	Y	910126143-29 TC 24 O/S
8	12/23/93	3	1		148.1	N	
8	12/23/93	5	1		140.9	N	
8	12/23/93	6	1		138	N	
8	12/23/93	7	1		134.5	N	
8	12/23/93	8	1		130.7	N	
8	12/24/93	1	2		152.8	Y	910126143-29 TC 24 O/S
8	12/24/93	3	2		148.5	N	
8	12/24/93	5	2		139.9	N	
8	12/24/93	6	2		138.5	N	
8	12/24/93	7	2		135	N	
8	12/24/93	8	2		131.3	N	
8	12/25/93	1	1		152.1	Y	910126143-29 TC 24 O/S
8	12/25/93	3	1		148	N	
8	12/25/93	5	1		141.3	N	
8	12/25/93	6	1		138	N	
8	12/25/93	7	1		134.5	N	
8	12/25/93	8	1		130.6	N	
8	12/26/93	1	1		152.2	Y	910126143-29 TC 24 O/S
8	12/26/93	3	1		148	N	
8	12/26/93	5	1		141.2	N	
8	12/26/93	6	1		138	N	
8	12/26/93	7	1		134.5	N	
8	12/26/93	8	1		130.7	N	
8	12/27/93	1	1		152.6	Y	910126143-29 TC 24 O/S
8	12/27/93	3	1		148.2	N	
8	12/27/93	5	1		141.4	N	
8	12/27/93	6	1		138.1	N	
8	12/27/93	7	1		134.6	N	
8	12/27/93	8	1		130.7	N	
8	12/28/93	1	1		152.3	Y	910126143-29 TC 24 O/S
8	12/28/93	3	1		148	N	
8	12/28/93	5	1		141.2	N	
8	12/28/93	6	1		138	N	
8	12/28/93	7	1		134.5	N	
8	12/28/93	8	1		130.7	N	
8	12/29/93	1	1		152.2	Y	910126143-29 TC 24 O/S
8	12/29/93	1	2		151.9	Y	910126143-29 TC 24 O/S
8	12/29/93	1	3		153	Y	J 910126143-32 TC 24 O/S
8	12/29/93	1	4		152.8	Y	J 91012614332 TC 24 O/S
8	12/29/93	3	1		147.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK 241-SX-109							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	12/29/93	3	2		147.8	N	
8	12/29/93	3	3		148.9	N	
8	12/29/93	3	4		148.8	N	
8	12/29/93	5	1		141.4	N	
8	12/29/93	5	2		140.8	N	
8	12/29/93	5	3		142	N	
8	12/29/93	5	4		142	N	
8	12/29/93	6	1		138.2	N	
8	12/29/93	6	2		137.8	N	
8	12/29/93	6	3		138.9	N	
8	12/29/93	6	4		138.6	N	
8	12/29/93	7	1		134.7	N	
8	12/29/93	7	2		134.4	N	
8	12/29/93	7	3		135.3	N	
8	12/29/93	7	4		135.1	N	
8	12/29/93	8	1		130.9	N	
8	12/29/93	8	2		130.5	N	
8	12/29/93	8	3		131.6	N	
8	12/29/93	8	4		131.4	N	
8	12/30/93	1	1		153.6	Y	910126143-32 TC 24 O/S
8	12/30/93	1	2		153.2	N	J 910126143-32 TC 4 O/S
8	12/30/93	2	2		155.4	Y	
8	12/30/93	3	1		149.4	N	
8	12/30/93	3	2		148.7	N	
8	12/30/93	5	1		142.4	N	
8	12/30/93	5	2		141.9	N	
8	12/30/93	6	1		139.3	N	
8	12/30/93	6	2		138.7	N	
8	12/30/93	7	1		135.7	N	
8	12/30/93	7	2		135.2	N	
8	12/30/93	8	1		131.8	N	
8	12/30/93	8	2		131.3	N	
8	12/31/93	1	1		153.2	Y	910126143-32 TC 24 O/S
8	12/31/93	3	1		149.3	N	
8	12/31/93	5	1		142.2	N	
8	12/31/93	6	1		139.2	N	
8	12/31/93	7	1		135.6	N	
8	12/31/93	8	1		131.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-109-SX data sheets.

TANK-SX-110						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP
1	12/1/75	1			84	
1	12/1/75	2			84	
1	12/1/75	3			84	
1	12/1/75	4			84	
1	2/2/76	1			102	
1	2/2/76	2			99	
1	2/2/76	3			98	
1	2/2/76	4			97	
1	3/26/76	1			83	
1	3/26/76	2			83	
1	3/26/76	3			83	
1	3/26/76	4			83	
1	3/26/76	5			83	
1	3/26/76	6			85	
1	3/26/76	7			86	
1	3/26/76	8			87	
1	3/26/76	9			87	
1	3/26/76	10			88	
1	3/26/76	11			88	
1	3/26/76	12			89	
1	4/3/76	1			85	
1	4/3/76	2			85	
1	4/3/76	3			86	
1	4/3/76	4			86	
1	4/3/76	5			87	
1	5/2/76	1			63	
1	5/2/76	2			64	
1	5/2/76	3			64	
1	5/2/76	4			64	
1	5/2/76	5			64	
1	5/2/76	6			64	
1	5/2/76	7			64	
1	5/2/76	8			64	
1	5/2/76	9			64	
1	5/2/76	10			64	
1	5/2/76	11			64	
1	5/2/76	12			65	
1	6/2/76	1			94	
1	6/2/76	2			92	
1	6/2/76	3			92	
1	6/2/76	4			87	
1	6/2/76	5			87	
1	6/2/76	6			87	
1	6/2/76	7			87	
1	6/2/76	8			87	
1	6/2/76	9			87	
1	6/2/76	10			87	
1	6/2/76	11			87	
1	6/2/76	12			87	
1	6/2/76	13			87	
1	6/2/76	14			87	
1	7/1/76	1			82	
1	7/1/76	2			82	
1	7/1/76	3			83	
1	7/1/76	4			81	
1	7/1/76	5			81	
1	7/1/76	6			81	
1	7/1/76	7			81	
1	7/1/76	8			81	
1	7/1/76	9			82	
1	7/1/76	10			81	
1	7/1/76	11			80	
1	7/1/76	12			70	
1	7/17/76	1			81	
1	7/17/76	2			81	
1	7/17/76	3			81	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	7/17/76	4			79		
1	7/17/76	5			80		
1	7/17/76	6			79		
1	7/17/76	7			79		
1	7/17/76	8			79		
1	7/17/76	9			79		
1	7/17/76	10			79		
1	7/17/76	11			79		
1	7/17/76	12			79		
1	7/17/76	13			79		
1	7/17/76	14			79		
1	7/21/76	1			87		
1	7/21/76	2			87		
1	7/21/76	3			87		
1	7/21/76	4			85		
1	7/21/76	5			85		
1	7/21/76	6			85		
1	7/21/76	7			85		
1	7/21/76	8			85		
1	7/21/76	9			85		
1	7/21/76	10			85		
1	7/21/76	11			85		
1	7/21/76	12			85		
1	7/21/76	13			85		
1	7/21/76	14			84		
1	8/3/76	1			81		
1	8/3/76	2			81		
1	8/3/76	3			81		
1	8/3/76	4			81		
1	8/3/76	5			82		
1	8/3/76	6			82		
1	8/3/76	7			82		
1	8/3/76	8			82		
1	8/3/76	9			82		
1	8/3/76	10			82		
1	8/3/76	11			82		
1	8/3/76	12			82		
1	8/3/76	13			81		
1	8/3/76	14			81		
1	9/2/76	1			84		
1	9/2/76	2			84		
1	9/2/76	3			84		
1	9/2/76	4			84		
1	9/2/76	5			84		
1	9/2/76	6			84		
1	9/2/76	7			84		
1	9/2/76	8			84		
1	9/2/76	9			84		
1	9/2/76	10			84		
1	9/2/76	11			84		
1	9/2/76	12			83		
1	12/4/76	1			100		
1	12/4/76	2			100		
1	12/4/76	3			100		
1	12/4/76	4			100		
1	12/4/76	5			100		
1	12/4/76	6			100		
1	12/4/76	7			100		
1	12/4/76	8			100		
1	12/4/76	9			100		
1	12/4/76	10			100		
1	12/4/76	11			100		
1	12/4/76	12			100		
1	1/1/77	1			112		
1	1/1/77	2			112		
1	1/1/77	3			112		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	1/1/77	4			112		
1	1/1/77	5			112		
1	1/1/77	6			112		
1	1/1/77	7			112		
1	1/1/77	8			111		
1	1/1/77	9			111		
1	1/1/77	10			111		
1	1/1/77	11			111		
1	2/1/77	1			89		
1	2/1/77	2			99		
1	2/1/77	3			99		
1	2/1/77	4			89		
1	2/1/77	5			89		
1	2/1/77	6			89		
1	2/1/77	7			89		
1	2/1/77	8			89		
1	2/1/77	9			89		
1	2/1/77	10			89		
1	2/1/77	11			89		
1	2/1/77	12			89		
1	2/1/77	13			88		
1	2/1/77	14			88		
1	2/26/77	1			96		
1	2/26/77	2			96		
1	2/26/77	3			96		
1	2/26/77	4			95		
1	2/26/77	5			95		
1	2/26/77	6			95		
1	2/26/77	7			95		
1	2/26/77	8			95		
1	2/26/77	9			95		
1	2/26/77	10			95		
1	2/26/77	11			95		
1	2/26/77	12			95		
1	2/26/77	13			95		
1	2/26/77	14			95		
1	2/26/77	15			95		
1	3/29/77	1			96		
1	3/29/77	2			96		
1	3/29/77	3			95		
1	3/29/77	4			95		
1	3/29/77	5			95		
1	3/29/77	6			95		
1	3/29/77	7			95		
1	3/29/77	8			95		
1	3/29/77	9			95		
1	3/29/77	10			95		
1	3/29/77	11			95		
1	3/29/77	12			95		
1	3/29/77	13			95		
1	3/29/77	14			95		
1	9/5/77	1			113		
1	9/5/77	2			113		
1	9/5/77	3			113		
1	9/5/77	4			113		
1	9/5/77	5			112		
1	9/5/77	6			112		
1	9/5/77	7			112		
1	9/5/77	8			112		
1	9/5/77	9			111		
1	9/5/77	10			111		
1	9/5/77	11			111		
1	9/5/77	12			111		
1	9/5/77	13			111		
1	9/5/77	14			111		
1	10/3/77	1			106		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	10/3/77	2			107		
1	10/3/77	3			107		
1	10/3/77	4			107		
1	10/3/77	5			107		
1	10/3/77	6			107		
1	10/3/77	7			107		
1	10/3/77	8			107		
1	10/3/77	9			107		
1	10/3/77	10			107		
1	10/3/77	11			108		
1	10/3/77	12			108		
1	10/3/77	13			108		
1	10/3/77	14			108		
1	10/3/77	15			108		
1	10/3/77	16			100		
1	11/3/77	1			109		
1	11/3/77	2			109		
1	11/3/77	3			109		
1	11/3/77	4			109		
1	11/3/77	5			109		
1	11/3/77	6			109		
1	11/3/77	7			109		
1	11/3/77	8			109		
1	11/3/77	9			109		
1	11/3/77	10			109		
1	11/3/77	11			109		
1	11/3/77	12			109		
1	11/3/77	13			109		
1	11/3/77	14			109		
1	12/4/77	1			113		
1	12/4/77	2			113		
1	12/4/77	3			114		
1	12/4/77	4			114		
1	12/4/77	5			114		
1	12/4/77	6			114		
1	12/4/77	7			114		
1	12/4/77	8			114		
1	12/4/77	9			114		
1	12/4/77	10			114		
1	12/4/77	11			114		
1	12/4/77	12			114		
1	12/15/77	1			104		
1	12/15/77	2			104		
1	12/15/77	3			105		
1	12/15/77	4			105		
1	12/15/77	5			105		
1	12/15/77	6			105		
1	12/15/77	7			105		
1	12/15/77	8			105		
1	12/15/77	9			105		
1	12/15/77	10			105		
1	12/15/77	11			105		
1	12/15/77	12			104		
1	1/12/78	1			95		
1	1/12/78	2			97		
1	1/12/78	3			98		
1	1/12/78	4			98		
1	1/12/78	5			99		
1	1/12/78	6			99		
1	1/12/78	7			99		
1	1/12/78	8			100		
1	1/12/78	9			100		
1	1/12/78	10			101		
1	1/12/78	11			102		
1	3/9/78	1			94		
1	3/9/78	2			94		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	3/9/78	3			94		
1	3/9/78	4			95		
1	3/9/78	5			94		
1	3/9/78	6			95		
1	3/9/78	7			94		
1	3/9/78	8			94		
1	3/9/78	9			95		
1	3/9/78	10			95		
1	3/9/78	11			95		
1	5/3/80	1			92		
1	5/3/80	2			84		
1	5/3/80	3			83		
1	5/3/80	4			83		
1	5/3/80	5			83		
1	5/3/80	6			83		
1	5/3/80	7			83		
1	5/3/80	8			83		
1	5/3/80	9			83		
1	5/3/80	10			83		
1	5/3/80	11			83		
1	5/3/80	12			83		
1	5/3/80	13			83		
1	5/3/80	14			83		
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
2	12/1/75	1			165		
2	12/1/75	2			158		
2	12/1/75	3			142		
2	12/1/75	4			124		
2	2/2/76	1			158		
2	2/2/76	2			153		
2	2/2/76	3			141		
2	2/2/76	4			128		
2	8/14/89	1	1		183.9	Y	
2	8/14/89	2	1		181.5	N	
2	8/14/89	3	1		174	N	
2	8/14/89	4	1		161.9	N	
2	8/14/89	5	1		146.4	N	
2	8/14/89	6	1		135.4	N	
2	8/14/89	7	1		132.5	N	
2	8/14/89	8	1		131.9	N	
2	9/6/89	1	1		182.3	Y	
2	9/6/89	2	1		181.2	N	
2	9/6/89	3	1		174	N	
2	9/6/89	4	1		162.1	N	
2	9/6/89	5	1		144.7	N	
2	9/6/89	6	1		129.3	N	
2	9/6/89	7	1		125.2	N	
2	9/6/89	8	1		128.3	N	
2	10/16/89	1	1		188.1	Y	Currently taken by Maint. Eng. Services
2	10/16/89	2	1		184.9	N	
2	10/16/89	3	1		178.5	N	
2	10/16/89	4	1		166.3	N	
2	10/16/89	5	1		148.6	N	
2	10/16/89	6	1		136.2	N	
2	10/16/89	7	1		133.1	N	
2	10/16/89	8	1		132.9	N	
2	11/6/89	1	1		186.4	Y	Currently taken by Maint. Eng. Services
2	11/6/89	2	1		184.2	N	
2	11/6/89	3	1		175.4	N	
2	11/6/89	4	1		163.2	N	
2	11/6/89	5	1		145.3	N	
2	11/6/89	6	1		133	N	
2	11/6/89	7	1		130.8	N	
2	11/6/89	8	1		129.7	N	
2	12/5/89	1	1		176	Y	Currently taken by Maint. Eng. Services

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	12/5/89	2	1		173	N	
2	12/5/89	3	1		165	N	
2	12/5/89	4	1		153	N	
2	12/5/89	5	1		136	N	
2	12/5/89	6	1		125	N	
2	12/5/89	7	1		122	N	
2	12/5/89	8	1		121	N	
2	1/3/90	1	1		178	Y	
2	1/3/90	2	1		175	N	
2	1/3/90	3	1		167	N	
2	1/3/90	4	1		155	N	
2	1/3/90	5	1		138	N	
2	1/3/90	6	1		126	N	
2	1/3/90	7	1		124	N	
2	1/3/90	8	1		124	N	
2	2/1/90	1	1		172	Y	
2	2/1/90	2	1		171	N	
2	2/1/90	3	1		163	N	
2	2/1/90	4	1		150	N	
2	2/1/90	5	1		133	N	
2	2/1/90	6	1		121	N	
2	2/1/90	7	1		119	N	
2	2/1/90	8	1		118	N	
2	3/8/90	1	1		174	Y	
2	3/8/90	2	1		171	N	
2	3/8/90	3	1		163	N	
2	3/8/90	4	1		150	N	
2	3/8/90	5	1		132	N	
2	3/8/90	6	1		120	N	
2	3/8/90	7	1		117	N	
2	3/8/90	8	1		116	N	
2	4/3/90	1	1		172	Y	
2	4/3/90	2	1		170	N	
2	4/3/90	3	1		161	N	
2	4/3/90	4	1		149	N	
2	4/3/90	5	1		131	N	
2	4/3/90	6	1		120	N	
2	4/3/90	7	1		116	N	
2	4/3/90	8	1		116	N	
2	5/3/90	1	1		173	Y	
2	5/3/90	2	1		170	N	
2	5/3/90	3	1		161	N	
2	5/3/90	4	1		149	N	
2	5/3/90	5	1		132	N	
2	5/3/90	6	1		120	N	
2	5/3/90	7	1		117	N	
2	5/3/90	8	1		117	N	
2	6/7/90	1	1		172	Y	
2	6/7/90	2	1		170	N	
2	6/7/90	3	1		162	N	
2	6/7/90	4	1		150	N	
2	6/7/90	5	1		133	N	
2	6/7/90	6	1		122	N	
2	6/7/90	7	1		119	N	
2	6/7/90	8	1		118	N	
2	7/3/90	1	1		171	Y	
2	7/3/90	2	1		170	N	
2	7/3/90	3	1		162	N	
2	7/3/90	4	1		150	N	
2	7/3/90	5	1		134	N	
2	7/3/90	6	1		122	N	
2	7/3/90	7	1		120	N	
2	7/3/90	8	1		119	N	
2	8/2/90	1	1		172	Y	
2	8/2/90	2	1		170	N	
2	8/2/90	3	1		163	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	8/2/90	4	1		152	N	
2	8/2/90	5	1		135	N	
2	8/2/90	6	1		124	N	
2	8/2/90	7	1		122	N	
2	8/2/90	8	1		121	N	
2	9/6/90	1	1		173	Y	
2	9/6/90	2	1		171	N	
2	9/6/90	3	1		163	N	
2	9/6/90	4	1		152	N	
2	9/6/90	5	1		136	N	
2	9/6/90	6	1		126	N	
2	9/6/90	7	1		123	N	
2	9/6/90	8	1		122	N	
2	10/2/90	1	1		177	Y	
2	10/2/90	2	1		175	N	
2	10/2/90	3	1		167	N	
2	10/2/90	4	1		156	N	
2	10/2/90	5	1		139	N	
2	10/2/90	6	1		128	N	
2	10/2/90	7	1		126	N	
2	10/2/90	8	1		125	N	
2	11/13/90	1	1		176	Y	
2	11/13/90	2	1		174	N	
2	11/13/90	3	1		165	N	
2	11/13/90	4	1		153	N	
2	11/13/90	5	1		136	N	
2	11/13/90	6	1		125	N	
2	11/13/90	7	1		122	N	
2	11/13/90	8	1		121	N	
2	12/5/90	1	1		174.4	Y	
2	12/5/90	2	1		170.2	N	
2	12/5/90	3	1		161.5	N	
2	12/5/90	4	1		148.6	N	
2	12/5/90	5	1		130.9	N	
2	12/5/90	6	1		118.9	N	
2	12/5/90	7	1		116	N	
2	12/5/90	8	1		115.1	N	
2	1/3/91	1	1		178.1	Y	
2	1/3/91	2	1		176.5	N	
2	1/3/91	3	1		168.1	N	
2	1/3/91	4	1		155.8	N	
2	1/3/91	5	1		138	N	
2	1/3/91	6	1		127.1	N	
2	1/3/91	7	1		126.9	N	
2	1/3/91	8	1		130.5	N	
2	2/20/91	1	1		173.5	N	
2	2/20/91	2	1		179.7	Y	
2	2/20/91	3	1		160.1	N	
2	2/20/91	4	1		147.2	N	
2	2/20/91	5	1		128.2	N	
2	2/20/91	6	1		116	N	
2	2/20/91	7	1		113.5	N	
2	2/20/91	8	1		112.4	N	
2	3/14/91	1	1		169.5	Y	
2	3/14/91	2	1		166.3	N	
2	3/14/91	3	1		157.4	N	
2	3/14/91	4	1		144.3	N	
2	3/14/91	5	1		137.1	N	
2	3/14/91	6	1		124.9	N	
2	3/14/91	7	1		110.6	N	
2	3/14/91	8	1		110	N	
2	4/17/91	1	1		168.6	Y	
2	4/17/91	2	1		165.2	N	
2	4/17/91	3	1		156.3	N	
2	4/17/91	4	1		143.2	N	
2	4/17/91	5	1		125.3	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	4/17/91	6	1		113.2	N	
2	4/17/91	7	1		110.5	N	
2	4/17/91	8	1		109.8	N	
2	5/2/91	1	1		167.9	Y	
2	5/2/91	2	1		164.9	N	
2	5/2/91	3	1		156.2	N	
2	5/2/91	4	1		152.1	N	
2	5/2/91	5	1		125.4	N	
2	5/2/91	6	1		113.8	N	
2	5/2/91	7	1		111.1	N	
2	5/2/91	8	1		110.6	N	
2	6/14/91	1	1		170.9	Y	
2	6/14/91	2	1		167.5	N	
2	6/14/91	3	1		159.8	N	
2	6/14/91	4	1		147.8	N	
2	6/14/91	5	1		131.2	N	
2	6/14/91	6	1		119.3	N	
2	6/14/91	7	1		116.8	N	
2	6/14/91	8	1		116.2	N	
2	7/19/91	1	1		171	Y	
2	7/19/91	2	1		168.9	N	
2	7/19/91	3	1		161.1	N	
2	7/19/91	4	1		149.4	N	
2	7/19/91	5	1		132.7	N	
2	7/19/91	6	1		121.7	N	
2	7/19/91	7	1		127.1	N	
2	7/19/91	8	1		126.7	N	
2	8/15/91	1	1		169.9	Y	
2	8/15/91	2	1		168.6	N	
2	8/15/91	3	1		161.3	N	
2	8/15/91	4	1		149.9	N	
2	8/15/91	5	1		133.7	N	
2	8/15/91	6	1		123.1	N	
2	8/15/91	7	1		120.9	N	
2	8/15/91	8	1		120.4	N	
2	9/5/91	1	1		177.5	Y	817-13-55-008 Omega
2	9/5/91	2	1		171.5	N	
2	9/5/91	3	1		164	N	
2	9/5/91	4	1		152.3	N	
2	9/5/91	5	1		136.1	N	
2	9/5/91	6	1		124.9	N	
2	9/5/91	7	1		122.1	N	
2	9/5/91	8	1		121.5	N	
2	9/12/91	1	1		175	N	817-13-55-008 Omega
2	9/12/91	2	1		175.7	Y	
2	9/12/91	3	1		168.1	N	
2	9/12/91	4	1		153.4	N	
2	9/12/91	5	1		136.6	N	
2	9/12/91	6	1		125.4	N	
2	9/12/91	7	1		123.4	N	
2	9/12/91	8	1		122.6	N	
2	10/7/91	1	1		176.6	Y	J-817-13-35-008
2	10/7/91	2	1		172.8	N	
2	10/7/91	3	1		165	N	
2	10/7/91	4	1		153.6	N	
2	10/7/91	5	1		140.7	N	
2	10/7/91	6	1		129.5	N	
2	10/7/91	7	1		123.4	N	
2	10/7/91	8	1		122.8	N	
2	11/10/91	1	1		176.8	Y	J-817-13-55-008
2	11/10/91	2	1		173.8	N	
2	11/10/91	3	1		165.5	N	
2	11/10/91	4	1		153.5	N	
2	11/10/91	5	1		135.8	N	
2	11/10/91	6	1		124.2	N	
2	11/10/91	7	1		121.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	11/10/91	8	1		121	N	
2	12/6/91	1	1		175	Y	J-817-13-55-008
2	12/6/91	2	1		172	N	
2	12/6/91	3	1		163	N	
2	12/6/91	4	1		151	N	
2	12/6/91	5	1		134	N	
2	12/6/91	6	1		122	N	
2	12/6/91	7	1		119	N	
2	12/6/91	8	1		118	N	
2	1/17/92	1	1		175.7	Y	J-817-13-55-008
2	1/17/92	2	1		172.1	N	
2	1/17/92	3	1		163.2	N	
2	1/17/92	4	1		150.4	N	
2	1/17/92	5	1		132.4	N	
2	1/17/92	6	1		120.6	N	
2	1/17/92	7	1		117.5	N	
2	1/17/92	8	1		121.1	N	
2	2/21/92	1	1		173	Y	J-817-13-20-019
2	2/21/92	2	1		170	N	
2	2/21/92	3	1		162	N	
2	2/21/92	4	1		149	N	
2	2/21/92	5	1		131	N	
2	2/21/92	6	1		119	N	
2	2/21/92	7	1		117	N	
2	2/21/92	8	1		116	N	
2	3/5/92	1	1		178	Y	
2	3/5/92	2	1		175	N	
2	3/5/92	3	1		166	N	
2	3/5/92	4	1		154	N	
2	3/5/92	5	1		136	N	
2	3/5/92	6	1		124	N	
2	3/5/92	7	1		120	N	
2	3/5/92	8	1		120	N	
2	4/2/92	1	1		177	Y	J 8171355010
2	4/2/92	2	1		175	N	
2	4/2/92	3	1		166	N	
2	4/2/92	4	1		154	N	
2	4/2/92	5	1		137	N	
2	4/2/92	6	1		126	N	
2	4/2/92	7	1		123	N	
2	4/2/92	8	1		121	N	
2	5/14/92	1	1		168	Y	J 8171355010
2	5/14/92	2	1		166	N	
2	5/14/92	3	1		159	N	
2	5/14/92	4	1		146	N	
2	5/14/92	5	1		140	N	
2	5/14/92	6	1		118	N	
2	5/14/92	7	1		116	N	
2	5/14/92	8	1		115	N	
2	6/4/92	1	1		173	Y	J 8171320019
2	6/4/92	2	1		171	N	
2	6/4/92	3	1		163	N	
2	6/4/92	4	1		151	N	
2	6/4/92	5	1		135	N	
2	6/4/92	6	1		125	N	
2	6/4/92	7	1		122	N	
2	6/4/92	8	1		121	N	
2	7/1/92	1	1		173	Y	C19950
2	7/1/92	2	1		170	N	
2	7/1/92	3	1		163	N	
2	7/1/92	4	1		151	N	
2	7/1/92	5	1		134	N	
2	7/1/92	6	1		124	N	
2	7/1/92	7	1		121	N	
2	7/1/92	8	1		121	N	
2	8/7/92	1	1		173.5	Y	J 817-13-55-008

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	8/7/92	3	1		164.4	N	
2	8/7/92	4	1		153.2	N	
2	8/7/92	5	1		136.9	N	
2	8/7/92	6	1		136.6	N	
2	8/7/92	7	1		126	N	
2	8/7/92	8	1		123.7	N	
2	9/3/92	1	1		173.8	Y	J 128-9042212
2	9/3/92	2	1		171.9	N	
2	9/3/92	3	1		164.6	N	
2	9/3/92	4	1		153.4	N	
2	9/3/92	5	1		137.6	N	
2	9/3/92	6	1		126.6	N	
2	9/3/92	7	1		124.2	N	
2	9/3/92	8	1		123.5	N	
2	10/8/92	1	1		174	Y	
2	10/8/92	2	1		172	N	
2	10/8/92	3	1		165	N	
2	10/8/92	4	1		153	N	
2	10/8/92	5	1		137	N	
2	10/8/92	6	1		126	N	
2	10/8/92	7	1		124	N	
2	10/8/92	8	1		123	N	
2	11/5/92	1	1		169	Y	J 817-13-20-019
2	11/5/92	2	1		167	N	
2	11/5/92	3	1		159	N	
2	11/5/92	4	1		148	N	
2	11/5/92	5	1		133	N	
2	11/5/92	6	1		122	N	
2	11/5/92	7	1		120	N	
2	11/5/92	8	1		119	N	
2	12/4/92	1	1		169	Y	J 817-13-20-019
2	12/4/92	2	1		166	N	
2	12/4/92	3	1		159	N	
2	12/4/92	4	1		147	N	
2	12/4/92	5	1		130	N	
2	12/4/92	6	1		120	N	
2	12/4/92	7	1		117	N	
2	12/4/92	8	1		117	N	
2	1/5/93	1	1		167	Y	817-13-20-019
2	1/5/93	2	1		164	N	
2	1/5/93	3	1		156	N	
2	1/5/93	4	1		145	N	
2	1/5/93	5	1		128	N	
2	1/5/93	6	1		117	N	
2	1/5/93	7	1		115	N	
2	1/5/93	8	1		114	N	
2	2/2/93	1	1		165	Y	817-13-20-019
2	2/2/93	2	1		163	N	
2	2/2/93	3	1		155	N	
2	2/2/93	4	1		143	N	
2	2/2/93	5	1		129	N	
2	2/2/93	6	1		115	N	
2	2/2/93	7	1		113	N	
2	2/2/93	8	1		112	N	
2	3/3/93	1	1		172	Y	817-13-20-019
2	3/3/93	2	1		170	N	
2	3/3/93	3	1		161	N	
2	3/3/93	4	1		148	N	
2	3/3/93	5	1		130	N	
2	3/3/93	6	1		118	N	
2	3/3/93	7	1		116	N	
2	3/3/93	8	1		115	N	
2	4/8/93	1	1		164	Y	J 817-13-20-019
2	4/8/93	2	1		161	N	
2	4/8/93	3	1		153	N	
2	4/8/93	4	1		141	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	4/8/93	5	1		124	N	
2	4/8/93	6	1		113	N	
2	4/8/93	7	1		111	N	
2	4/8/93	8	1		111	N	
2	5/6/93	1	1		164	Y	I 817132019
2	5/6/93	2	1		162	N	
2	5/6/93	3	1		154	N	
2	5/6/93	4	1		142	N	
2	5/6/93	5	1		125	N	
2	5/6/93	6	1		115	N	
2	5/6/93	7	1		113	N	
2	5/6/93	8	1		112	N	
2	6/3/93	1	1		163	Y	817-13-20-019
2	6/3/93	2	1		160	N	
2	6/3/93	3	1		153	N	
2	6/3/93	4	1		142	N	
2	6/3/93	5	1		127	N	
2	6/3/93	6	1		117	N	
2	6/3/93	7	1		114	N	
2	6/3/93	8	1		114	N	
2	6/18/93	1	1		170	Y	910126143-32
2	6/18/93	2	1		168	N	
2	6/18/93	3	1		160	N	
2	6/18/93	4	1		148.5	N	
2	6/18/93	5	1		131.7	N	
2	6/18/93	6	1		120.8	N	
2	6/18/93	7	1		118	N	
2	6/18/93	8	1		117.2	N	
2	7/1/93	1	1		167.6	Y	890423320-42
2	7/1/93	2	1		165	N	
2	7/1/93	3	1		157.2	N	
2	7/1/93	4	1		145.8	N	
2	7/1/93	5	1		129.4	N	
2	7/1/93	6	1		118.6	N	
2	7/1/93	7	1		116	N	
2	7/1/93	8	1		115.4	N	
2	8/5/93	1	1		169.4	Y	890423320-42
2	8/5/93	1	2		164	Y	817-13-20-019
2	8/5/93	2	1		166.8	N	
2	8/5/93	2	2		162	N	
2	8/5/93	3	1		159.5	N	
2	8/5/93	3	2		155	N	
2	8/5/93	4	1		148.6	N	
2	8/5/93	4	2		145	N	
2	8/5/93	5	1		132.9	N	
2	8/5/93	5	2		130	N	
2	8/5/93	6	1		122.6	N	
2	8/5/93	6	2		121	N	
2	8/5/93	7	1		120	N	
2	8/5/93	7	2		118	N	
2	8/5/93	8	1		119.4	N	
2	8/5/93	8	2		118	N	
2	9/3/93	2	1		171.4	N	
2	9/3/93	3	1		163.7	N	
2	9/3/93	4	1		153	N	
2	9/3/93	5	1		137.2	N	
2	9/3/93	6	1		126.8	N	
2	9/3/93	7	1		124.3	N	
2	9/3/93	8	1		123.5	N	
2	9/4/93	1	1		170.2	Y	TI-045
2	9/4/93	2	1		168.6	N	
2	9/4/93	3	1		161.5	N	
2	9/4/93	4	1		150.5	N	
2	9/4/93	5	1		134.6	N	
2	9/4/93	6	1		124.3	N	
2	9/4/93	7	1		121.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	9/4/93	8	1		120.9	N	
2	10/5/93	1	1		173.6	Y	J 910126143-48
2	10/5/93	2	1		171.7	N	
2	10/5/93	3	1		164.1	N	
2	10/5/93	4	1		152.6	N	
2	10/5/93	5	1		136.2	N	
2	10/5/93	6	1		125.5	N	
2	10/5/93	7	1		122.9	N	
2	10/5/93	8	1		122.3	N	
2	10/11/93	2	1		172	N	
2	10/11/93	3	1		164.4	N	
2	10/11/93	4	1		152.7	N	
2	10/11/93	5	1		135.9	N	
2	10/11/93	6	1		124.9	N	
2	10/11/93	7	1		122.4	N	
2	10/11/93	8	1		121.9	N	
2	10/18/93	1	1		170.6	Y	910126143-14
2	10/18/93	2	1		167.9	N	
2	10/18/93	3	1		160.3	N	
2	10/18/93	4	1		150.8	N	
2	10/18/93	5	1		136	N	
2	10/18/93	6	1		126.1	N	
2	10/18/93	7	1		123.8	N	
2	10/18/93	8	1		122.7	N	
2	11/1/93	1	1		174.4	Y	910126143-29
2	11/1/93	2	1		172.2	N	
2	11/1/93	3	1		164.4	N	
2	11/1/93	4	1		152.5	N	
2	11/1/93	5	1		135.5	N	
2	11/1/93	6	1		124.4	N	
2	11/1/93	7	1		121.9	N	
2	11/1/93	8	1		121.2	N	
2	11/29/93	1	1		175.8	Y	91012614329
2	11/29/93	2	1		173.7	N	
2	11/29/93	3	1		165.9	N	
2	11/29/93	4	1		154.5	N	
2	11/29/93	5	1		138	N	
2	11/29/93	6	1		127.5	N	
2	11/29/93	7	1		124.9	N	
2	11/29/93	8	1		124.2	N	
2	12/2/93	1	1		175.5	Y	J 910126143-29
2	12/2/93	2	1		173.6	N	
2	12/2/93	3	1		165.9	N	
2	12/2/93	4	1		154.6	N	
2	12/2/93	5	1		138.1	N	
2	12/2/93	6	1		127.5	N	
2	12/2/93	7	1		124.9	N	
2	12/2/93	8	1		124.2	N	
2	12/21/93	1	1		176.4	Y	910126143-29
2	12/21/93	1	2		176.1	Y	J 910126143-29
2	12/21/93	2	1		174.2	N	
2	12/21/93	2	2		174	N	
2	12/21/93	3	1		166.3	N	
2	12/21/93	3	2		166.2	N	
2	12/21/93	4	1		154.7	N	
2	12/21/93	4	2		154.8	N	
2	12/21/93	5	1		137.7	N	
2	12/21/93	5	2		137.8	N	
2	12/21/93	6	1		126	N	
2	12/21/93	6	2		126.1	N	
2	12/21/93	7	1		123.6	N	
2	12/21/93	7	2		123.5	N	
2	12/21/93	8	1		122.8	N	
2	12/21/93	8	2		122.7	N	
2	12/22/93	1	1		176.2	Y	910126143-29
2	12/22/93	2	1		174.3	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	12/22/93	3	1		166.6	N	
2	12/22/93	4	1		155	N	
2	12/22/93	5	1		138.3	N	
2	12/22/93	6	1		127.7	N	
2	12/22/93	7	1		125	N	
2	12/22/93	8	1		124.2	N	
2	12/28/93	1	1		176.4	Y	910126143-29
2	12/28/93	2	1		174.3	N	
2	12/28/93	3	1		166.4	N	
2	12/28/93	4	1		154.8	N	
2	12/28/93	5	1		137.8	N	
2	12/28/93	6	1		126.1	N	
2	12/28/93	7	1		123.6	N	
2	12/28/93	8	1		122.8	N	
2	12/29/93	1	1		176.9	Y	910126143-29
2	12/29/93	1	2		176.4	Y	910126143-29
2	12/29/93	1	3		176.9	Y	J 910126143-32
2	12/29/93	1	4		177.2	Y	J 91012614332
2	12/29/93	2	1		174.7	N	
2	12/29/93	2	2		174.4	N	
2	12/29/93	2	3		174.8	N	
2	12/29/93	2	4		174.8	N	
2	12/29/93	3	1		166.8	N	
2	12/29/93	3	2		166.5	N	
2	12/29/93	3	3		167.2	N	
2	12/29/93	3	4		166.9	N	
2	12/29/93	4	1		155	N	
2	12/29/93	4	2		154.7	N	
2	12/29/93	4	3		155.2	N	
2	12/29/93	4	4		155	N	
2	12/29/93	5	1		138	N	
2	12/29/93	5	2		137.6	N	
2	12/29/93	5	3		137.8	N	
2	12/29/93	5	4		137.6	N	
2	12/29/93	6	1		126.2	N	
2	12/29/93	6	2		125.8	N	
2	12/29/93	6	3		126	N	
2	12/29/93	6	4		125.8	N	
2	12/29/93	7	1		123.7	N	
2	12/29/93	7	2		123.1	N	
2	12/29/93	7	3		123.4	N	
2	12/29/93	7	4		123.2	N	
2	12/29/93	8	1		123	N	
2	12/29/93	8	2		122.4	N	
2	12/29/93	8	3		122.7	N	
2	12/29/93	8	4		122.4	N	
2	12/30/93	1	1		177.3	Y	910126143-32
2	12/30/93	2	1		174.9	N	
2	12/30/93	3	1		167.2	N	
2	12/30/93	4	1		155.1	N	
2	12/30/93	5	1		137.6	N	
2	12/30/93	6	1		125.8	N	
2	12/30/93	7	1		123.2	N	
2	12/30/93	8	1		122.5	N	
2	12/31/93	1	1		176.6	Y	9101226143-32
2	12/31/93	2	1		174.5	N	
2	12/31/93	3	1		166.5	N	
2	12/31/93	4	1		154.3	N	
2	12/31/93	5	1		137	N	
2	12/31/93	6	1		125.1	N	
2	12/31/93	7	1		122.4	N	
2	12/31/93	8	1		121.8	N	
3	12/1/75	1			183		
3	12/1/75	2			176		
3	12/1/75	3			161		
3	12/1/75	4			144		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
3	2/2/76	1			173		
3	2/2/76	2			168		
3	2/2/76	3			157		
3	2/2/76	4			144		
4	12/1/75	1			156		
4	12/1/75	2					raw data unreadable
4	12/1/75	3			132		
4	12/1/75	4			114		
4	2/2/76	1			154		
4	2/2/76	2			147		
4	2/2/76	3			135		
4	2/2/76	4			121		
4	1/1/89	4	1		161	N	
4	3/1/89	3	1		168	Y	
4	3/1/89	4	1		152	Y	
4	4/21/89	3	1		168	Y	
4	4/21/89	4	1		153	N	
4	5/13/89	3	1		153	N	
4	5/22/89	4	1		150	N	
4	5/28/89	4	1		124	N	
4	6/4/89	3	1		165	Y	
4	6/4/89	4	1		151	N	
4	6/12/89	4	1		154	N	
4	6/13/89	1	1		181.6	N	
4	6/13/89	2	1		188.5	Y	
4	6/13/89	3	1		165.1	N	
4	6/13/89	4	1		150.9	N	
4	6/13/89	6	1		125.6	N	
4	6/13/89	7	1		123.9	N	
4	6/13/89	8	1		123.7	N	
4	7/20/89	1	1		181.6	N	
4	7/20/89	2	1		188.5	Y	
4	7/20/89	3	1		165.1	N	
4	7/20/89	4	1		150.9	N	
4	7/20/89	6	1		125.6	N	
4	7/20/89	7	1		123.9	N	
4	7/20/89	8	1		123.7	N	
5	12/1/75	1			175		
5	12/1/75	2			167		
5	12/1/75	3			150		
5	12/1/75	4			134		
5	2/2/76	1			162		
5	2/2/76	2			156		
5	2/2/76	3			142		
5	2/2/76	4			129		
5	1/1/89	4	1		168	N	
5	3/1/89	1	1		165	Y	
5	4/21/89	1	1		170	Y	
5	4/21/89	2	1		151	N	
5	5/6/89	1	1		166	N	
5	5/13/89	1	1		155	Y	
5	5/13/89	3	1		153	N	
5	5/22/89	1	1			N	98 - suspect data (low)
5	5/22/89	4	1		149	Y	
5	6/4/89	1	1		150	N	
5	6/4/89	4	1		150	N	
5	6/12/89	1	1		189	N	
5	6/12/89	4	1		154	N	
6	12/1/75	1			167		
6	12/1/75	2			160		
6	12/1/75	3			145		
6	12/1/75	4			128		
6	2/2/76	1			156		
6	2/2/76	2			152		
6	2/2/76	3			141		
6	2/2/76	4			127		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
6	1/1/89	1	1			N	56 - suspect data (low)
6	3/1/89	1	1		99	Y	
6	4/21/89	1	1			N	52 - suspect data (low)
6	5/6/89	1	1			N	47 - suspect data (low)
6	5/13/89	1	1		14	N	
6	6/12/89	1	1		110	N	
6	6/13/89	1	1		178.6	Y	
6	6/13/89	2	1		174.2	N	
6	6/13/89	4	1		150.1	N	
6	6/13/89	5	1		133.5	N	
6	6/13/89	6	1		124.3	N	
6	6/13/89	7	1		122.6	N	
6	6/13/89	8	1		102.3	N	
6	7/20/89	1	1		178.6	Y	
6	7/20/89	2	1		174.2	N	
6	7/20/89	4	1		150.1	N	
6	7/20/89	5	1		133.5	N	
6	7/20/89	6	1		124.3	N	
6	7/20/89	7	1		122.6	N	
6	7/20/89	8	1		102.3	N	
7	12/1/75	1			157		
7	12/1/75	2			150		
7	12/1/75	3			135		
7	12/1/75	4			120		
7	2/2/76	1			153		
7	2/2/76	2			148		
7	2/2/76	3			138		
7	2/2/76	4			126		
7	5/6/89	2	1		154	N	
8	12/1/75	1			140		
8	12/1/75	2			128		
8	12/1/75	4			89		
8	2/2/76	1			140		
8	2/2/76	2			131		
8	2/2/76	4			101		
8	8/14/89	1	1		174.1	Y	
8	8/14/89	2	1		165.7	N	
8	8/14/89	3	1		150.8	N	
8	8/14/89	4	1		135.7	N	
8	8/14/89	5	1		131.2	N	
8	8/14/89	6	1		130.2	N	
8	8/14/89	7	1		129.8	N	
8	8/14/89	8	1		129.3	N	
8	9/6/89	1	1		178.5	Y	
8	9/6/89	2	1		170.3	N	
8	9/6/89	3	1		154	N	
8	9/6/89	4	1		136.7	N	
8	9/6/89	5	1		130.8	N	
8	9/6/89	6	1		130.1	N	
8	9/6/89	7	1		129.8	N	
8	9/6/89	8	1		129.9	N	
8	10/16/89	1	1		174.7	Y	
8	10/16/89	2	1		165.2	N	
8	10/16/89	3	1		148.1	N	
8	10/16/89	4	1		133	N	
8	10/16/89	5	1		127	N	
8	10/16/89	6	1		125.1	N	
8	10/16/89	7	1		127.1	N	
8	10/16/89	8	1		126.7	N	
8	11/6/89	1	1		180.5	Y	
8	11/6/89	2	1		180.3	N	
8	11/6/89	3	1		172	N	
8	11/6/89	4	1		154.5	N	
8	11/6/89	5	1		139.6	N	
8	11/6/89	6	1		132.7	N	
8	11/6/89	7	1		128.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	11/6/89	8	1		127.4	N	
8	12/5/89	1	1		168	Y	
8	12/5/89	2	1		152	N	
8	12/5/89	3	1		143	N	
8	12/5/89	4	1		129	N	
8	12/5/89	5	1		123	N	
8	12/5/89	6	1		122	N	
8	12/5/89	7	1		121	N	
8	12/5/89	8	1		120	N	
8	1/3/90	1	1		172	Y	
8	1/3/90	2	1		163	N	
8	1/3/90	3	1		146	N	
8	1/3/90	4	1		132	N	
8	1/3/90	5	1		125	N	
8	1/3/90	6	1		125	N	
8	1/3/90	7	1		125	N	
8	1/3/90	8	1		124	N	
8	2/1/90	1	1		166	Y	
8	2/1/90	2	1		158	N	
8	2/1/90	3	1		141	N	
8	2/1/90	4	1		125	N	
8	2/1/90	5	1		119	N	
8	2/1/90	6	1		118	N	
8	2/1/90	7	1		118	N	
8	2/1/90	8	1		118	N	
8	3/8/90	1	1		164	Y	
8	3/8/90	2	1		155	N	
8	3/8/90	3	1		137	N	
8	3/8/90	4	1		121	N	
8	3/8/90	5	1		115	N	
8	3/8/90	6	1		114	N	
8	3/8/90	7	1		114	N	
8	3/8/90	8	1		113	N	
8	4/3/90	1	1		163	Y	
8	4/3/90	2	1		154	N	
8	4/3/90	3	1		137	N	
8	4/3/90	4	1		122	N	
8	4/3/90	5	1		116	N	
8	4/3/90	6	1		115	N	
8	4/3/90	7	1		114	N	
8	4/3/90	8	1		114	N	
8	5/3/90	1	1		164	Y	
8	5/3/90	2	1		155	N	
8	5/3/90	3	1		139	N	
8	5/3/90	4	1		124	N	
8	5/3/90	5	1		117	N	
8	5/3/90	6	1		116	N	
8	5/3/90	7	1		116	N	
8	5/3/90	8	1		116	N	
8	6/7/90	1	1		166	Y	
8	6/7/90	2	1		158	N	
8	6/7/90	3	1		141	N	
8	6/7/90	4	1		126	N	
8	6/7/90	5	1		120	N	
8	6/7/90	6	1		119	N	
8	6/7/90	7	1		119	N	
8	6/7/90	8	1		118	N	
8	7/3/90	1	1		167	Y	
8	7/3/90	2	1		159	N	
8	7/3/90	3	1		142	N	
8	7/3/90	4	1		128	N	
8	7/3/90	5	1		121	N	
8	7/3/90	6	1		120	N	
8	7/3/90	7	1		119	N	
8	7/3/90	8	1		119	N	
8	8/2/90	1	1		167	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	8/2/90	2	1		160	N	
8	8/2/90	3	1		144	N	
8	8/2/90	4	1		130	N	
8	8/2/90	5	1		124	N	
8	8/2/90	6	1		123	N	
8	8/2/90	7	1		122	N	
8	8/2/90	8	1		123	N	
8	9/6/90	1	1		168	Y	
8	9/6/90	2	1		160	N	
8	9/6/90	3	1		144	N	
8	9/6/90	4	1		130	N	
8	9/6/90	5	1		124	N	
8	9/6/90	6	1		123	N	
8	9/6/90	7	1		123	N	
8	9/6/90	8	1		122	N	
8	10/2/90	1	1		171	Y	
8	10/2/90	2	1		163	N	
8	10/2/90	3	1		147	N	
8	10/2/90	4	1		132	N	
8	10/2/90	5	1		126	N	
8	10/2/90	6	1		124	N	
8	10/2/90	7	1		124	N	
8	10/2/90	8	1		124	N	
8	11/13/90	1	1		170	Y	
8	11/13/90	2	1		162	N	
8	11/13/90	3	1		145	N	
8	11/13/90	4	1		130	N	
8	11/13/90	5	1		122	N	
8	11/13/90	6	1		122	N	
8	11/13/90	7	1		121	N	
8	11/13/90	8	1		121	N	
8	12/5/90	1	1		168	Y	
8	12/5/90	2	1		158.4	N	
8	12/5/90	3	1		140	N	
8	12/5/90	4	1		123.5	N	
8	12/5/90	5	1		130.5	N	
8	12/5/90	6	1		116.3	N	
8	12/5/90	7	1		115.7	N	
8	12/5/90	8	1		115.4	N	
8	1/3/91	1	1		162.8	Y	
8	1/3/91	2	1		153.6	N	
8	1/3/91	3	1		135.5	N	
8	1/3/91	4	1		119.4	N	
8	1/3/91	5	1		114.5	N	
8	1/3/91	6	1		114.4	N	
8	1/3/91	7	1		114.4	N	
8	1/3/91	8	1		114.4	N	
8	2/20/91	1	1		164.7	Y	
8	2/20/91	2	1		155	N	
8	2/20/91	3	1		136.4	N	
8	2/20/91	4	1		119.8	N	
8	2/20/91	5	1		113	N	
8	2/20/91	6	1		111.9	N	
8	2/20/91	7	1		111.6	N	
8	2/20/91	8	1		122.5	N	
8	3/14/91	1	1		163.1	Y	
8	3/14/91	2	1		153.4	N	
8	3/14/91	3	1		152.2	N	
8	3/14/91	4	1		118.4	N	
8	3/14/91	5	1		111.4	N	
8	3/14/91	6	1		110.4	N	
8	3/14/91	7	1		109.9	N	
8	3/14/91	8	1		110	N	
8	4/17/91	1	1		163.8	Y	
8	4/17/91	2	1		154.1	N	
8	4/17/91	3	1		135.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
8	4/17/91	4	1		119.5	N
8	4/17/91	5	1		112.6	N
8	4/17/91	6	1		111.5	N
8	4/17/91	7	1		111.2	N
8	4/17/91	8	1		111	N
8	5/2/91	1	1		162	Y
8	5/2/91	2	1		152.9	N
8	5/2/91	3	1		134.9	N
8	5/2/91	4	1		119.3	N
8	5/2/91	5	1		112.4	N
8	5/2/91	6	1		111.4	N
8	5/2/91	7	1		111.1	N
8	5/2/91	8	1		111.4	N
8	6/14/91	1	1		163.9	Y
8	6/14/91	2	1		155.4	N
8	6/14/91	3	1		138.4	N
8	6/14/91	4	1		123	N
8	6/14/91	5	1		116.4	N
8	6/14/91	6	1		115.5	N
8	6/14/91	7	1		115.1	N
8	6/14/91	8	1		115	N
8	7/19/91	1	1		164.6	Y
8	7/19/91	2	1		156.4	N
8	7/19/91	3	1		139.9	N
8	7/19/91	4	1		124.8	N
8	7/19/91	5	1		118.9	N
8	7/19/91	6	1		117.9	N
8	7/19/91	7	1		117.6	N
8	7/19/91	8	1		117.8	N
8	8/15/91	1	1		166.3	Y
8	8/15/91	2	1		158.1	N
8	8/15/91	3	1		141.9	N
8	8/15/91	4	1		127.1	N
8	8/15/91	5	1		121	N
8	8/15/91	6	1		120.1	N
8	8/15/91	7	1		119.7	N
8	8/15/91	8	1		119.6	N
8	9/12/91	1	1		168.6	Y
8	9/12/91	2	1		159.9	N
8	9/12/91	3	1		143.6	N
8	9/12/91	4	1		128.7	N
8	9/12/91	5	1		122.5	N
8	9/12/91	6	1		121.6	N
8	9/12/91	7	1		121.2	N
8	9/12/91	8	1		121.2	N
8	10/7/91	1	1		169.4	Y
8	10/7/91	2	1		161	N
8	10/7/91	3	1		144.5	N
8	10/7/91	4	1		129.6	N
8	10/7/91	5	1		123.5	N
8	10/7/91	6	1		122.5	N
8	10/7/91	7	1		122.1	N
8	10/7/91	8	1		122.1	N
8	11/10/91	1	1		174.1	Y
8	11/10/91	2	1		162.1	N
8	11/10/91	3	1		144.9	N
8	11/10/91	4	1		128.9	N
8	11/10/91	5	1		122.6	N
8	11/10/91	6	1		121.5	N
8	11/10/91	7	1		120.8	N
8	11/10/91	8	1		120.8	N
8	12/6/91	1	1		169	Y
8	12/6/91	2	1		159	N
8	12/6/91	3	1		141	N
8	12/6/91	4	1		125	N
8	12/6/91	5	1		119	N

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/6/91	6	1		118	N	
8	12/6/91	7	1		117	N	
8	12/6/91	8	1		117	N	
8	1/17/92	1	1		168.4	Y	J-817-13-55-008
8	1/17/92	2	1		159.8	N	
8	1/17/92	3	1		140.4	N	
8	1/17/92	4	1		123.9	N	
8	1/17/92	5	1		117	N	
8	1/17/92	6	1		116.2	N	
8	1/17/92	7	1		115.7	N	
8	1/17/92	8	1		115.6	N	
8	2/21/92	1	1		171	Y	J-817-13-20-019
8	2/21/92	2	1		161	N	
8	2/21/92	3	1		143	N	
8	2/21/92	4	1		126	N	
8	2/21/92	5	1		121	N	
8	2/21/92	6	1		120	N	
8	2/21/92	7	1		119	N	
8	2/21/92	8	1		118	N	
8	3/5/92	1	1		168	Y	
8	3/5/92	2	1		159	N	
8	3/5/92	3	1		141	N	
8	3/5/92	4	1		124	N	
8	3/5/92	5	1		118	N	
8	3/5/92	6	1		117	N	
8	3/5/92	7	1		117	N	
8	3/5/92	8	1		116	N	
8	3/14/92	1	1		150	Y	J 8171315010
8	3/14/92	2	1		147	N	
8	3/14/92	3	1		145	N	
8	3/14/92	4	1		138	N	
8	3/14/92	5	1		133	N	
8	3/14/92	6	1		128	N	
8	3/14/92	7	1		124	N	
8	3/14/92	8	1		119	N	
8	4/2/92	1	1		166	Y	J 8171355010
8	4/2/92	2	1		156	N	
8	4/2/92	3	1		138	N	
8	4/2/92	4	1		122	N	
8	4/2/92	5	1		117	N	
8	4/2/92	6	1		116	N	
8	4/2/92	7	1		115	N	
8	4/2/92	8	1		113	N	
8	5/14/92	1	1		164	Y	J 8171355010
8	5/14/92	2	1		156	N	
8	5/14/92	3	1		138	N	
8	5/14/92	4	1		123	N	
8	5/14/92	5	1		114	N	
8	5/14/92	6	1		116	N	
8	5/14/92	7	1		116	N	
8	5/14/92	8	1		115	N	
8	6/4/92	1	1		168	Y	J 8171320019
8	6/4/92	2	1		159	N	
8	6/4/92	3	1		142	N	
8	6/4/92	4	1		127	N	
8	6/4/92	5	1		121	N	
8	6/4/92	6	1		120	N	
8	6/4/92	7	1		120	N	
8	6/4/92	8	1		119	N	
8	7/1/92	1	1		167	Y	817-13-20-019
8	7/1/92	2	1		159	N	
8	7/1/92	3	1		142	N	
8	7/1/92	4	1		127	N	
8	7/1/92	5	1		121	N	
8	7/1/92	6	1		120	N	
8	7/1/92	7	1		119	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	7/1/92	8	1		120	N	
8	8/7/92	1	1		169.7	Y	J 817-13-55-008
8	8/7/92	2	1		161.5	N	
8	8/7/92	3	1		145.4	N	
8	8/7/92	4	1		130.7	N	
8	8/7/92	5	1		124.3	N	
8	8/7/92	6	1		123.4	N	
8	8/7/92	7	1		130	N	
8	8/7/92	8	1		129	N	
8	9/3/92	1	1		169.2	Y	J 128-9042212
8	9/3/92	2	1		161.2	N	
8	9/3/92	3	1		145	N	
8	9/3/92	4	1		130.4	N	
8	9/3/92	5	1		124.4	N	
8	9/3/92	6	1		123.4	N	
8	9/3/92	7	1		123.1	N	
8	9/3/92	8	1		122.9	N	
8	10/8/92	1	1		171	Y	
8	10/8/92	2	1		162	N	
8	10/8/92	3	1		146	N	
8	10/8/92	4	1		131	N	
8	10/8/92	5	1		125	N	
8	10/8/92	6	1		124	N	
8	10/8/92	7	1		123	N	
8	10/8/92	8	1		123	N	
8	11/5/92	1	1		164	Y	J 817-13-20-019
8	11/5/92	2	1		156	N	
8	11/5/92	3	1		141	N	
8	11/5/92	4	1		126	N	
8	11/5/92	5	1		120	N	
8	11/5/92	6	1		119	N	
8	11/5/92	7	1		119	N	
8	11/5/92	8	1		118	N	
8	12/4/92	1	1		162	Y	J 817-13-20-019
8	12/4/92	2	1		155	N	
8	12/4/92	3	1		138	N	
8	12/4/92	4	1		124	N	
8	12/4/92	5	1		117	N	
8	12/4/92	6	1		116	N	
8	12/4/92	7	1		116	N	
8	12/4/92	8	1		116	N	
8	1/5/93	1	1		170	Y	817-13-20-019
8	1/5/93	2	1		161	N	
8	1/5/93	3	1		143	N	
8	1/5/93	4	1		127	N	
8	1/5/93	5	1		120	N	
8	1/5/93	6	1		119	N	
8	1/5/93	7	1		118	N	
8	1/5/93	8	1		114	N	
8	2/2/93	1	1		160	Y	817-13-20-019
8	2/2/93	2	1		151	N	
8	2/2/93	3	1		134	N	
8	2/2/93	4	1		119	N	
8	2/2/93	5	1		113	N	
8	2/2/93	6	1		111	N	
8	2/2/93	7	1		111	N	
8	2/2/93	8	1		111	N	
8	3/3/93	1	1		166	Y	817-13-20-019
8	3/3/93	2	1		157	N	
8	3/3/93	3	1		139	N	
8	3/3/93	4	1		123	N	
8	3/3/93	5	1		116	N	
8	3/3/93	6	1		115	N	
8	3/3/93	7	1		114	N	
8	3/3/93	8	1		114	N	
8	4/8/93	1	1		159	Y	J 817-13-20-019

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	4/8/93	2	1		150	N	
8	4/8/93	3	1		133	N	
8	4/8/93	4	1		118	N	
8	4/8/93	5	1		112	N	
8	4/8/93	6	1		111	N	
8	4/8/93	7	1		111	N	
8	4/8/93	8	1		111	N	
8	5/6/93	1	1		158	Y	1817132019
8	5/6/93	2	1		150	N	
8	5/6/93	3	1		134	N	
8	5/6/93	4	1		119	N	
8	5/6/93	5	1		112	N	
8	5/6/93	6	1		112	N	
8	5/6/93	7	1		111	N	
8	5/6/93	8	1		111	N	
8	6/3/93	1	1		159	Y	817-13-20-019
8	6/3/93	2	1		151	N	
8	6/3/93	3	1		135	N	
8	6/3/93	4	1		121	N	
8	6/3/93	5	1		115	N	
8	6/3/93	6	1		114	N	
8	6/3/93	7	1		113	N	
8	6/3/93	8	1		113	N	
8	6/18/93	1	1		165.7	Y	910126143-32
8	6/18/93	2	1		157.2	N	
8	6/18/93	3	1		140.2	N	
8	6/18/93	4	1		125.2	N	
8	6/18/93	5	1		118.6	N	
8	6/18/93	6	1		117.8	N	
8	6/18/93	7	1		117.4	N	
8	6/18/93	8	1		117.3	N	
8	7/1/93	1	1		163.4	Y	890423320-42 TC 3,5,7,8 O/S
8	7/1/93	2	1		155	N	
8	7/1/93	4	1		123.7	N	
8	7/1/93	6	1		116.3	N	
8	8/5/93	1	1		166.2	Y	890423320-42
8	8/5/93	1	2		162	Y	817-13-20-019
8	8/5/93	2	1		158.2	N	
8	8/5/93	2	2		155	N	
8	8/5/93	3	1		142.1	N	
8	8/5/93	3	2		139	N	
8	8/5/93	4	1		127.8	N	
8	8/5/93	4	2		126	N	
8	8/5/93	5	1		121.3	N	
8	8/5/93	5	2		120	N	
8	8/5/93	6	1		120.2	N	
8	8/5/93	6	2		119	N	
8	8/5/93	7	1		119.7	N	
8	8/5/93	7	2		118	N	
8	8/5/93	8	1		119.2	N	
8	8/5/93	8	2		118	N	
8	9/3/93	2	1		162.8	N	
8	9/3/93	3	1		146.6	N	
8	9/3/93	4	1		131.7	N	
8	9/3/93	5	1		124.9	N	
8	9/3/93	6	1		123.3	N	
8	9/3/93	7	1		122.4	N	
8	9/3/93	8	1		121.8	N	
8	9/4/93	1	1		166.4	Y	TI-045
8	9/4/93	2	1		158.5	N	
8	9/4/93	3	1		142.5	N	
8	9/4/93	4	1		128.1	N	
8	9/4/93	5	1		121.7	N	
8	9/4/93	6	1		120.4	N	
8	9/4/93	7	1		119.9	N	
8	9/4/93	8	1		119.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	10/5/93	1	1		169.7	Y	J 910126143-48
8	10/5/93	2	1		161.6	N	
8	10/5/93	3	1		145.1	N	
8	10/5/93	4	1		130.1	N	
8	10/5/93	5	1		123.7	N	
8	10/5/93	6	1		122.7	N	
8	10/5/93	7	1		122.3	N	
8	10/5/93	8	1		122.2	N	
8	10/11/93	1	1		170.3	Y	J 910126143-48
8	10/11/93	2	1		161.9	N	
8	10/11/93	3	1		145.2	N	
8	10/11/93	4	1		130	N	
8	10/11/93	5	1		123.5	N	
8	10/11/93	6	1		122.6	N	
8	10/11/93	7	1		122	N	
8	10/11/93	8	1		122	N	
8	10/18/93	1	1		168.3	Y	910126143-14
8	10/18/93	2	1		160.8	N	
8	10/18/93	3	1		145.6	N	
8	10/18/93	4	1		131.8	N	
8	10/18/93	5	1		125.1	N	
8	10/18/93	6	1		123.4	N	
8	10/18/93	7	1		122.3	N	
8	10/18/93	8	1		121.6	N	
8	11/1/93	1	1		170.2	Y	910126143-29
8	11/1/93	2	1		161.7	N	
8	11/1/93	3	1		144.7	N	
8	11/1/93	4	1		129.3	N	
8	11/1/93	5	1		122.6	N	
8	11/1/93	6	1		121.9	N	
8	11/1/93	7	1		121.4	N	
8	11/1/93	8	1		121.4	N	
8	11/29/93	1	1		171.5	Y	91012614329
8	11/29/93	2	1		163.5	N	
8	11/29/93	3	1		147.1	N	
8	11/29/93	4	1		132.1	N	
8	11/29/93	5	1		125.7	N	
8	11/29/93	6	1		130	N	
8	11/29/93	7	1		124.3	N	
8	11/29/93	8	1		124.1	N	
8	12/2/93	1	1		171.9	Y	J 910126143-29
8	12/2/93	2	1		163.5	N	
8	12/2/93	3	1		147.2	N	
8	12/2/93	4	1		132.2	N	
8	12/2/93	5	1		125.5	N	
8	12/2/93	6	1		124.5	N	
8	12/2/93	7	1		124.2	N	
8	12/2/93	8	1		124	N	
8	12/21/93	1	1		172.6	Y	910126143-29
8	12/21/93	1	2		172	Y	J 910126143-29
8	12/21/93	2	1		163.9	N	
8	12/21/93	2	2		163.6	N	
8	12/21/93	3	1		146.9	N	
8	12/21/93	3	2		146.8	N	
8	12/21/93	4	1		131.2	N	
8	12/21/93	4	2		131.2	N	
8	12/21/93	5	1		124.5	N	
8	12/21/93	5	2		124.5	N	
8	12/21/93	6	1		123.5	N	
8	12/21/93	6	2		123.5	N	
8	12/21/93	7	1		122.8	N	
8	12/21/93	7	2		122.9	N	
8	12/21/93	8	1		122.7	N	
8	12/21/93	8	2		122.8	N	
8	12/22/93	1	1		172.5	N	910126143-29
8	12/22/93	2	1		164.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK-SX-110							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	12/22/93	3	1		147.5	N	
8	12/22/93	4	1		132.2	N	
8	12/22/93	5	1		125.7	N	
8	12/22/93	6	1		124.9	N	
8	12/22/93	7	1		124.3	N	
8	12/22/93	8	1		124.2	N	
8	12/28/93	1	1		172.5	Y	910126143-29
8	12/28/93	2	1		163.9	N	
8	12/28/93	3	1		146.9	N	
8	12/28/93	4	1		131.2	N	
8	12/28/93	5	1		124.3	N	
8	12/28/93	6	1		123.4	N	
8	12/28/93	7	1		122.8	N	
8	12/28/93	8	1		122.7	N	
8	12/29/93	1	1		173.1	Y	910126143-29
8	12/29/93	1	2		172.5	Y	910126143-29
8	12/29/93	1	4		173	Y	J 91012614332
8	12/29/93	2	1		164.3	N	
8	12/29/93	2	2		163.8	N	
8	12/29/93	2	3		164.4	N	
8	12/29/93	2	4		164.3	N	
8	12/29/93	3	1		147.3	N	
8	12/29/93	3	2		146.6	N	
8	12/29/93	3	3		146.9	N	
8	12/29/93	3	4		146.8	N	
8	12/29/93	4	1		131.2	N	
8	12/29/93	4	2		130.7	N	
8	12/29/93	4	3		131.1	N	
8	12/29/93	4	4		130.9	N	
8	12/29/93	5	1		124.4	N	
8	12/29/93	5	2		124.1	N	
8	12/29/93	5	3		124.3	N	
8	12/29/93	5	4		124.2	N	
8	12/29/93	6	1		123.6	N	
8	12/29/93	6	2		123.1	N	
8	12/29/93	6	3		123.5	N	
8	12/29/93	6	4		123.2	N	
8	12/29/93	7	1		123.1	N	
8	12/29/93	7	2		122.4	N	
8	12/29/93	7	3		122.8	N	
8	12/29/93	7	4		122.5	N	
8	12/29/93	8	1		122.9	N	
8	12/29/93	8	2		122.4	N	
8	12/29/93	8	3		122.6	N	
8	12/29/93	8	4		122.6	N	
8	12/30/93	1	1		172.9	Y	910126143-32
8	12/30/93	2	1		164.2	N	
8	12/30/93	3	1		146.6	N	
8	12/30/93	4	1		130.6	N	
8	12/30/93	5	1		123.8	N	
8	12/30/93	6	1		122.9	N	
8	12/30/93	7	1		122.4	N	
8	12/30/93	8	1		122.4	N	
8	12/31/93	1	1		172.6	Y	
8	12/31/93	2	1		163.4	N	
8	12/31/93	3	1		146	N	
8	12/31/93	4	1		130.2	N	
8	12/31/93	5	1		123.4	N	
8	12/31/93	6	1		122.4	N	
8	12/31/93	7	1		121.9	N	
8	12/31/93	8	1		121.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-110-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/1/75	1			89		
1	12/1/75	2			87		
1	12/1/75	3			87		
1	12/1/75	4			87		
1	2/2/76	1			80		
1	2/2/76	2			79		
1	2/2/76	3			78		
1	2/2/76	4			78		
1	7/1/77	1			230		
1	7/1/77	2			111		
1	7/1/77	3			117		
1	7/1/77	4			117		
1	8/1/77	1			230		
1	8/1/77	2			114		
1	8/1/77	3			120		
1	8/1/77	4			120		
1	9/1/77	3			120		
1	9/1/77	4			120		
1	9/22/77	3			122		
1	9/22/77	4			121		
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
2	12/1/75	1			186		
2	12/1/75	2			183		
2	12/1/75	3			169		
2	12/1/75	4			150		
2	2/2/76	1			173		
2	2/2/76	2			169		
2	2/2/76	3			156		
2	2/2/76	4			137		
2	7/1/77	1			190		
2	7/1/77	2			188		
2	7/1/77	3			180		
2	7/1/77	4			165		
2	8/1/77	1			191		
2	8/1/77	2			190		
2	8/1/77	3			182		
2	8/1/77	4			167		
2	9/1/77	1			195		
2	9/1/77	2			194		
2	9/1/77	3			185		
2	9/1/77	4			170		
2	9/22/77	1			193		
2	9/22/77	2			192		
2	9/22/77	3			184		
2	9/22/77	4			169		
2	8/14/89	1	1		188.5	Y	Currently taken by Maint Eng Services
2	8/14/89	2	1		184.7	N	
2	8/14/89	3	1		183.9	N	
2	8/14/89	4	1		172.2	N	
2	8/14/89	5	1		153.5	N	
2	8/14/89	6	1		135.1	N	
2	8/14/89	7	1		127	N	
2	8/14/89	8	1		128.1	N	
2	9/6/89	1	1		195.5	N	Currently taken by Maint Eng Services
2	9/6/89	2	1		195.8	Y	
2	9/6/89	3	1		190.3	N	
2	9/6/89	4	1		180.7	N	
2	9/6/89	5	1		161.6	N	
2	9/6/89	6	1		143.5	N	
2	9/6/89	7	1		138.3	N	
2	9/6/89	8	1		138	N	
2	10/16/89	1	1		203.5	Y	Currently taken by Maint. Eng. Services
2	10/16/89	2	1		202.9	N	
2	10/16/89	3	1		198	N	
2	10/16/89	4	1		186.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	10/16/89	5	1		166	N	
2	10/16/89	6	1		146.4	N	
2	10/16/89	7	1		141.6	N	
2	10/16/89	8	1		141.8	N	
2	11/5/89	1	1		199	Y	Currently taken by Maint. Eng. Services
2	11/5/89	2	1		198	N	
2	11/5/89	3	1		191	N	
2	11/5/89	4	1		178	N	
2	11/5/89	5	1		162	N	
2	11/5/89	6	1		141	N	
2	11/5/89	7	1		135	N	
2	11/5/89	8	1		134	N	
2	11/6/89	1	1		199	Y	Currently taken by Maint. Eng. Services
2	11/6/89	2	1		198.3	N	
2	11/6/89	3	1		191.1	N	
2	11/6/89	4	1		178.2	N	
2	11/6/89	5	1		161.6	N	
2	11/6/89	6	1		141.2	N	
2	11/6/89	7	1		134.9	N	
2	11/6/89	8	1		133.8	N	
2	12/5/89	1	1		195	Y	Currently taken by Maint. Eng. Services
2	12/5/89	2	1		195	Y	
2	12/5/89	3	1		189	N	
2	12/5/89	4	1		177	N	
2	12/5/89	5	1		159	N	
2	12/5/89	6	1		139	N	
2	12/5/89	7	1		133	N	
2	12/5/89	8	1		132	N	
2	1/3/90	1	1		196	Y	
2	1/3/90	2	1		196	Y	
2	1/3/90	3	1		190	N	
2	1/3/90	4	1		178	N	
2	1/3/90	5	1		160	N	
2	1/3/90	6	1		140	N	
2	1/3/90	7	1		134	N	
2	1/3/90	8	1		133	N	
2	2/1/90	1	1		195	Y	
2	2/1/90	2	1		195	N	
2	2/1/90	3	1		188	N	
2	2/1/90	4	1		175	N	
2	2/1/90	5	1		156	N	
2	2/1/90	6	1		135	N	
2	2/1/90	7	1		129	N	
2	2/1/90	8	1		128	N	
2	3/8/90	1	1		190	N	
2	3/8/90	2	1		191	Y	
2	3/8/90	3	1		184	N	
2	3/8/90	4	1		171	N	
2	3/8/90	5	1		152	N	
2	3/8/90	6	1		131	N	
2	3/8/90	7	1		125	N	
2	3/8/90	8	1		124	N	
2	4/3/90	1	1		191	Y	
2	4/3/90	2	1		191	N	
2	4/3/90	3	1		184	N	
2	4/3/90	4	1		171	N	
2	4/3/90	5	1		152	N	
2	4/3/90	6	1		132	N	
2	4/3/90	7	1		126	N	
2	4/3/90	8	1		125	N	
2	5/3/90	1	1		189	Y	
2	5/3/90	2	1		189	N	
2	5/3/90	3	1		182	N	
2	5/3/90	4	1		170	N	
2	5/3/90	5	1		151	N	
2	5/3/90	6	1		131	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	5/3/90	7	1		125	N	
2	5/3/90	8	1		124	N	
2	6/7/90	1	1		190	Y	
2	6/7/90	2	1		190	N	
2	6/7/90	3	1		184	N	
2	6/7/90	4	1		172	N	
2	6/7/90	5	1		154	N	
2	6/7/90	6	1		135	N	
2	6/7/90	7	1		129	N	
2	6/7/90	8	1		127	N	
2	7/3/90	1	1		189	Y	
2	7/3/90	2	1		189	N	
2	7/3/90	3	1		184	N	
2	7/3/90	4	1		172	N	
2	7/3/90	5	1		154	N	
2	7/3/90	6	1		135	N	
2	7/3/90	7	1		129	N	
2	7/3/90	8	1		128	N	
2	8/2/90	1	1		189	N	
2	8/2/90	2	1		190	Y	
2	8/2/90	3	1		184	N	
2	8/2/90	4	1		172	N	
2	8/2/90	5	1		155	N	
2	8/2/90	6	1		136	N	
2	8/2/90	7	1		131	N	
2	8/2/90	8	1		130	N	
2	9/6/90	1	1		191	Y	
2	9/6/90	2	1		191	N	
2	9/6/90	3	1		185	N	
2	9/6/90	4	1		174	N	
2	9/6/90	5	1		157	N	
2	9/6/90	6	1		138	N	
2	9/6/90	7	1		133	N	
2	9/6/90	8	1		132	N	
2	10/2/90	1	1		194	Y	
2	10/2/90	2	1		195	N	
2	10/2/90	3	1		189	N	
2	10/2/90	4	1		178	N	
2	10/2/90	5	1		159	N	
2	10/2/90	6	1		140	N	
2	10/2/90	7	1		134	N	
2	10/2/90	8	1		133	N	
2	11/13/90	1	1		194	Y	
2	11/13/90	2	1		194	N	
2	11/13/90	3	1		188	N	
2	11/13/90	4	1		176	N	
2	11/13/90	5	1		157	N	
2	11/13/90	6	1		137	N	
2	11/13/90	7	1		131	N	
2	11/13/90	8	1		130	N	
2	12/5/90	1	1		191.7	Y	
2	12/5/90	2	1		191	N	
2	12/5/90	3	1		184.1	N	
2	12/5/90	4	1		171.4	N	
2	12/5/90	5	1		165.3	N	
2	12/5/90	6	1		130.9	N	
2	12/5/90	7	1		124.9	N	
2	12/5/90	8	1		123.6	N	
2	1/3/91	1	1		185.1	N	
2	1/3/91	2	1		187.1	Y	
2	1/3/91	3	1		182.2	N	
2	1/3/91	4	1		169.5	N	
2	1/3/91	5	1		150	N	
2	1/3/91	6	1		128.8	N	
2	1/3/91	7	1		124.9	N	
2	1/3/91	8	1		125.5	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	2/20/91	1	1		188.2	Y	
2	2/20/91	2	1		187.5	N	
2	2/20/91	3	1		180.8	N	
2	2/20/91	4	1		167.9	N	
2	2/20/91	5	1		157.5	N	
2	2/20/91	6	1		137.2	N	
2	2/20/91	7	1		131.7	N	
2	2/20/91	8	1		130.4	N	
2	3/14/91	1	1		188.2	Y	
2	3/14/91	2	1		187.4	N	
2	3/14/91	3	1		189.9	N	
2	3/14/91	4	1		177.1	N	
2	3/14/91	5	1		149.2	N	
2	3/14/91	6	1		137	N	
2	3/14/91	7	1		122	N	
2	3/14/91	8	1		121.2	N	
2	4/17/91	1	1		186.6	Y	
2	4/17/91	2	1		186	N	
2	4/17/91	3	1		179.3	N	
2	4/17/91	4	1		166.8	N	
2	4/17/91	5	1		148	N	
2	4/17/91	6	1		127.4	N	
2	4/17/91	7	1		121.4	N	
2	4/17/91	8	1		120.4	N	
2	5/2/91	1	1		186.2	Y	
2	5/2/91	2	1		185.7	N	
2	5/2/91	3	1		174.1	N	
2	5/2/91	4	1		166.7	N	
2	5/2/91	5	1		148.9	N	
2	5/2/91	6	1		128.7	N	
2	5/2/91	7	1		132.6	N	
2	5/2/91	8	1		131.4	N	
2	6/14/91	1	1		188.9	Y	
2	6/14/91	2	1		188.7	N	
2	6/14/91	3	1		182.5	N	
2	6/14/91	4	1		170.9	N	
2	6/14/91	5	1		155.4	N	
2	6/14/91	6	1		133.8	N	
2	6/14/91	7	1		128.9	N	
2	6/14/91	8	1		127	N	
2	7/19/91	1	1		189.5	N	
2	7/19/91	2	1		189.6	Y	
2	7/19/91	3	1		183.9	N	
2	7/19/91	4	1		172.5	N	
2	7/19/91	5	1		154.7	N	
2	7/19/91	6	1		135.8	N	
2	7/19/91	7	1		130.3	N	
2	7/19/91	8	1		129.5	N	
2	8/15/91	1	1		190.6	Y	
2	8/15/91	2	1		190.6	N	
2	8/15/91	3	1		184.8	N	
2	8/15/91	4	1		173.2	N	
2	8/15/91	5	1		156	N	
2	8/15/91	6	1		137	N	
2	8/15/91	7	1		131.5	N	
2	8/15/91	8	1		130.4	N	
2	9/5/91	1	1		191.8	N	817-13-55-008 Omega
2	9/5/91	2	1		192.1	Y	
2	9/5/91	3	1		186.6	N	
2	9/5/91	4	1		175.1	N	
2	9/5/91	5	1		157.3	N	
2	9/5/91	6	1		138.1	N	
2	9/5/91	7	1		132.7	N	
2	9/5/91	8	1		132	N	
2	10/7/91	1	1		193.3	Y	J-817-13-35-008
2	10/7/91	2	1		193.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	10/7/91	3	1		187.6	N	
2	10/7/91	4	1		176	N	
2	10/7/91	5	1		158	N	
2	10/7/91	6	1		142.4	N	
2	10/7/91	7	1		132.9	N	
2	10/7/91	8	1		132	N	
2	11/10/91	1	1		194	Y	
2	11/10/91	2	1		194	N	
2	11/10/91	3	1		187.4	N	
2	11/10/91	4	1		175.2	N	
2	12/6/91	1	1		193	Y	J-817-13-55-008
2	12/6/91	2	1		192	N	
2	12/6/91	3	1		186	N	
2	12/6/91	4	1		173	N	
2	12/6/91	5	1		155	N	
2	12/6/91	6	1		134	N	
2	12/6/91	7	1		127	N	
2	12/6/91	8	1		126	N	
2	1/17/92	1	1		198.3	Y	J-817-13-55-008
2	1/17/92	2	1		191.9	N	
2	1/17/92	3	1		184.8	N	
2	1/17/92	4	1		172.4	N	
2	1/17/92	5	1		153.3	N	
2	1/17/92	6	1		131.6	N	
2	1/17/92	7	1		129.7	N	
2	1/17/92	8	1		128.6	N	
2	2/21/92	1	1		182	Y	
2	2/21/92	2	1		181	N	
2	2/21/92	3	1		174	N	
2	2/21/92	4	1		162	N	
2	2/21/92	5	1		143	N	
2	2/21/92	6	1		122	N	
2	2/21/92	7	1		116	N	
2	2/21/92	8	1		115	N	
2	3/5/92	1	1		190	Y	
2	3/5/92	2	1		190	N	
2	3/5/92	3	1		184	N	
2	3/5/92	4	1		171	N	
2	3/5/92	5	1		151	N	
2	3/5/92	6	1		131	N	
2	3/5/92	7	1		125	N	
2	3/5/92	8	1		124	N	
2	4/2/92	1	1		185	Y	J 8171355010
2	4/2/92	2	1		185	N	
2	4/2/92	3	1		180	N	
2	4/2/92	4	1		168	N	
2	4/2/92	5	1		148	N	
2	4/2/92	6	1		129	N	
2	4/2/92	7	1		123	N	
2	4/2/92	8	1		122	N	
2	5/14/92	1	1		184	Y	J 871355010
2	5/14/92	2	1		184	N	
2	5/14/92	3	1		178	N	
2	5/14/92	4	1		168	N	
2	5/14/92	5	1		148	N	
2	5/14/92	6	1		129	N	
2	5/14/92	7	1		123	N	
2	5/14/92	8	1		122	N	
2	6/4/92	1	1		185	Y	J 8171320019
2	6/4/92	2	1		184	N	
2	6/4/92	3	1		178	N	
2	6/4/92	4	1		166	N	
2	6/4/92	5	1		149	N	
2	6/4/92	6	1		129	N	
2	6/4/92	7	1		124	N	
2	6/4/92	8	1		123	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	7/1/92	1	1		191	Y	C19950
2	7/1/92	2	1		190	N	
2	7/1/92	3	1		184	N	
2	7/1/92	4	1		173	N	
2	7/1/92	5	1		156	N	
2	7/1/92	6	1		136	N	
2	7/1/92	7	1		130	N	
2	7/1/92	8	1		129	N	
2	8/7/92	1	1		191	N	J 817-13-55-008
2	8/7/92	2	1		191.1	Y	
2	8/7/92	3	1		185.5	N	
2	8/7/92	4	1		174.1	N	
2	8/7/92	5	1		156.8	N	
2	8/7/92	6	1		137.4	N	
2	8/7/92	7	1		131.5	N	
2	8/7/92	8	1		134.4	N	
2	9/3/92	1	1		190.9	N	J 128-9042212
2	9/3/92	2	1		191.1	Y	
2	9/3/92	3	1		185.3	N	
2	9/3/92	4	1		174.1	N	
2	9/3/92	5	1		156.9	N	
2	9/3/92	6	1		137.2	N	
2	9/3/92	7	1		131.5	N	
2	9/3/92	8	1		130.5	N	
2	11/5/92	1	1		185	Y	J 817-13-20-019
2	11/5/92	2	1		185	N	
2	11/5/92	3	1		179	N	
2	11/5/92	4	1		168	N	
2	11/5/92	5	1		150	N	
2	11/5/92	6	1		130	N	
2	11/5/92	7	1		124	N	
2	11/5/92	8	1		124	N	
2	12/4/92	1	1		185	Y	J 817-13-20-019
2	12/4/92	2	1		184	N	
2	12/4/92	3	1		178	N	
2	12/4/92	4	1		165	N	
2	12/4/92	5	1		147	N	
2	12/4/92	6	1		127	N	
2	12/4/92	7	1		120	N	
2	12/4/92	8	1		119	N	
2	1/5/93	1	1		189	Y	817-13-20-019
2	1/5/93	2	1		189	N	
2	1/5/93	3	1		183	N	
2	1/5/93	4	1		170	N	
2	1/5/93	5	1		151	N	
2	1/5/93	6	1		130	N	
2	1/5/93	7	1		123	N	
2	1/5/93	8	1		122	N	
2	2/2/93	1	1		180	Y	817-13-20-019
2	2/2/93	2	1		180	N	
2	2/2/93	3	1		173	N	
2	2/2/93	4	1		161	N	
2	2/2/93	5	1		143	N	
2	2/2/93	6	1		122	N	
2	2/2/93	7	1		116	N	
2	2/2/93	8	1		115	N	
2	3/3/93	1	1		186	Y	817-13-20-019
2	3/3/93	2	1		186	N	
2	3/3/93	3	1		179	N	
2	3/3/93	4	1		166	N	
2	3/3/93	5	1		147	N	
2	3/3/93	6	1		126	N	
2	3/3/93	7	1		119	N	
2	3/3/93	8	1		118	N	
2	4/8/93	1	1		179	Y	J 817-13-20-019
2	4/8/93	2	1		178	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	4/8/93	3	1		172	N	
2	4/8/93	4	1		160	N	
2	4/8/93	5	1		141	N	
2	4/8/93	6	1		117	N	
2	4/8/93	7	1		109	N	
2	4/8/93	8	1		109	N	
2	5/6/93	1	1		173	N	I 817132019
2	5/6/93	2	1		178	Y	
2	5/6/93	3	1		173	N	
2	5/6/93	4	1		161	N	
2	5/6/93	5	1		143	N	
2	5/6/93	6	1		124	N	
2	5/6/93	7	1		118	N	
2	5/6/93	8	1		117	N	
2	6/3/93	1	1		178	Y	817-13-20-019
2	6/3/93	2	1		178	N	
2	6/3/93	3	1		172	N	
2	6/3/93	4	1		161	N	
2	6/3/93	5	1		145	N	
2	6/3/93	6	1		126	N	
2	6/3/93	7	1		120	N	
2	6/3/93	8	1		119	N	
2	6/18/93	1	1		185.8	Y	910126143-32
2	6/18/93	2	1		186.1	N	
2	6/18/93	3	1		180	N	
2	6/18/93	4	1		168.4	N	
2	6/18/93	5	1		150.8	N	
2	6/18/93	6	1		130.9	N	
2	6/18/93	7	1		124.8	N	
2	6/18/93	8	1		123.5	N	
2	7/1/93	1	1		182.7	Y	890423320-42
2	7/1/93	2	1		182.2	N	
2	7/1/93	3	1		176.5	N	
2	7/1/93	4	1		165.4	N	
2	7/1/93	5	1		148.4	N	
2	7/1/93	6	1		128.8	N	
2	7/1/93	7	1		122.8	N	
2	7/1/93	8	1		121.6	N	
2	8/5/93	1	1		184.6	Y	890423320-42
2	8/5/93	1	2		179	Y	817-13-20-019
2	8/5/93	2	1		184.2	N	
2	8/5/93	2	2		179	N	
2	8/5/93	3	1		178.5	N	
2	8/5/93	3	2		174	N	
2	8/5/93	4	1		167.9	N	
2	8/5/93	4	2		164	N	
2	8/5/93	5	1		151.2	N	
2	8/5/93	5	2		148	N	
2	8/5/93	6	1		132.6	N	
2	8/5/93	6	2		130	N	
2	8/5/93	7	1		126.9	N	
2	8/5/93	7	2		124	N	
2	8/5/93	8	1		125.8	N	
2	8/5/93	8	2		123	N	
2	9/3/93	1	1		191	N	J 910126143-66 suspect data RECHK REQUESTED
2	9/3/93	3	1		185.4	N	
2	9/3/93	4	1		174.2	N	
2	9/3/93	5	1		156.7	N	
2	9/3/93	6	1		136.9	N	
2	9/3/93	7	1		131	N	
2	9/3/93	8	1		129.8	N	
2	9/4/93	1	1		186.2	Y	TI-045
2	9/4/93	2	1		187	N	
2	9/4/93	3	1		181.4	N	
2	9/4/93	4	1		169.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	9/4/93	5	1		152.3	N	
2	9/4/93	6	1		132.7	N	
2	9/4/93	7	1		126.5	N	
2	9/4/93	8	1		125.2	N	
2	10/5/93	1	1		189.6	N	J 910126143-48
2	10/5/93	2	1		189.8	Y	
2	10/5/93	3	1		184.1	N	
2	10/5/93	4	1		172.4	N	
2	10/5/93	5	1		154.8	N	
2	10/5/93	6	1		134.8	N	
2	10/5/93	7	1		128.7	N	
2	10/5/93	8	1		127.6	N	
2	10/11/93	1	1		190.2	Y	J 910126143-48
2	10/11/93	2	1		190.1	N	
2	10/11/93	3	1		184.2	N	
2	10/11/93	4	1		172.4	N	
2	10/11/93	5	1		154.4	N	
2	10/11/93	6	1		133.7	N	
2	10/11/93	7	1		127.7	N	
2	10/11/93	8	1		126.5	N	
2	10/18/93	1	1		186	Y	910126143-14
2	10/18/93	2	1		185.8	N	
2	10/18/93	3	1		180.7	N	
2	10/18/93	4	1		171.3	N	
2	10/18/93	5	1		155.6	N	
2	10/18/93	6	1		137.4	N	
2	10/18/93	7	1		131.9	N	
2	10/18/93	8	1		130.2	N	
2	11/1/93	1	1		191	Y	910126143-29
2	11/1/93	2	1		190.3	N	
2	11/1/93	3	1		184.7	N	
2	11/1/93	4	1		172.8	N	
2	11/1/93	5	1		154.4	N	
2	11/1/93	6	1		133.2	N	
2	11/1/93	7	1		126.9	N	
2	11/1/93	8	1		125.9	N	
2	11/29/93	1	1		194.2	Y	91012614329
2	11/29/93	2	1		192.7	N	
2	11/29/93	3	1		187.2	N	
2	11/29/93	4	1		176	N	
2	11/29/93	5	1		158.9	N	
2	11/29/93	6	1		134.4	N	
2	11/29/93	7	1		133.5	N	
2	11/29/93	8	1		132.4	N	
2	12/2/93	2	1		162.2	N	
2	12/2/93	3	1		155.1	N	
2	12/2/93	4	1		143.4	N	
2	12/2/93	5	1		132.5	N	
2	12/2/93	6	1		132.9	N	
2	12/2/93	7	1		132.5	N	
2	12/2/93	8	1		134.4	N	
2	12/21/93	1	1			N	910126143-29 TC 1,3 O/S
2	12/21/93	1	2			N	J 910126143-29 TC 1,3 O/S
2	12/21/93	2	1		193.8	Y	
2	12/21/93	2	2		194.2	Y	
2	12/21/93	4	1		177.7	N	
2	12/21/93	4	2		178	N	
2	12/21/93	5	1		159.9	N	
2	12/21/93	5	2		160.4	N	
2	12/21/93	6	1		138.7	N	
2	12/21/93	6	2		139.4	N	
2	12/21/93	7	1		132.4	N	
2	12/21/93	7	2		133	N	
2	12/21/93	8	1		131.4	N	
2	12/21/93	8	2		132	N	
2	12/22/93	1	1			N	910126143-29 TC 13 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	12/22/93	2	1		194.7	Y	
2	12/22/93	4	1		178.3	N	
2	12/22/93	5	1		161.2	N	
2	12/22/93	6	1		141.6	N	
2	12/22/93	7	1		135.6	N	
2	12/22/93	8	1		134.5	N	
2	12/28/93	1	1		194	N	910126143-29 TC 3 O/S
2	12/28/93	2	1		194.5	Y	
2	12/28/93	4	1		178.1	N	
2	12/28/93	5	1		160.4	N	
2	12/28/93	6	1		139.7	N	
2	12/28/93	7	1		133.4	N	
2	12/28/93	8	1		132.3	N	
2	12/29/93	1	1		194.6	N	910126143-29
2	12/29/93	1	2		195	Y	910126143-29
2	12/29/93	1	3			N	J 910126143-32 TC 1 O/S
2	12/29/93	1	4			N	J 91012614332 TC 1 O/S
2	12/29/93	2	1		195.1	Y	
2	12/29/93	2	2		194.8	N	
2	12/29/93	2	3		195	Y	
2	12/29/93	2	4		195.4	Y	
2	12/29/93	3	1		190.1	N	
2	12/29/93	3	2		189.5	N	
2	12/29/93	3	3		189.7	N	
2	12/29/93	3	4		190	N	
2	12/29/93	4	1		178.1	N	
2	12/29/93	4	2		178.2	N	
2	12/29/93	4	3		178.7	N	
2	12/29/93	4	4		178.7	N	
2	12/29/93	5	1		160.4	N	
2	12/29/93	5	2		160.1	N	
2	12/29/93	5	3		160.2	N	
2	12/29/93	5	4		160.3	N	
2	12/29/93	6	1		139.5	N	
2	12/29/93	6	2		138.9	N	
2	12/29/93	6	3		138.6	N	
2	12/29/93	6	4		138.8	N	
2	12/29/93	7	1		133.1	N	
2	12/29/93	7	2		132.6	N	
2	12/29/93	7	3		132.3	N	
2	12/29/93	7	4		132.3	N	
2	12/29/93	8	1		132	N	
2	12/29/93	8	2		131.5	N	
2	12/29/93	8	3		131.4	N	
2	12/29/93	8	4		131.2	N	
2	12/30/93	1	1			N	910126143-32 TC 1 O/S
2	12/30/93	2	1		195.6	Y	
2	12/30/93	3	1		190.7	N	
2	12/30/93	4	1		178.7	N	
2	12/30/93	5	1		160.1	N	
2	12/30/93	6	1		138.6	N	
2	12/30/93	7	1		132.1	N	
2	12/30/93	8	1		130.9	N	
2	12/31/93	1	1		196	Y	910126143-32
2	12/31/93	2	1		195.3	N	
2	12/31/93	3	1		189.9	N	
2	12/31/93	4	1		177.1	N	
2	12/31/93	5	1		159.5	N	
2	12/31/93	6	1		137.6	N	
2	12/31/93	7	1		130.9	N	
2	12/31/93	8	1		130	N	
3	12/1/75	1			87		
3	12/1/75	2			87		
3	12/1/75	3			88		
3	12/1/75	4			88		
3	2/2/76	1			79		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
3	2/2/76	2			79		
3	2/2/76	3			79		
3	2/2/76	4			79		
3	7/1/77	1			117		
3	7/1/77	2			117		
3	7/1/77	3			117		
3	7/1/77	4			117		
3	8/1/77	1			120		
3	8/1/77	2			120		
3	8/1/77	3			121		
3	8/1/77	4			120		
3	9/1/77	1			120		
3	9/1/77	2			120		
3	9/1/77	3			120		
3	9/1/77	4			120		
3	9/22/77	1			122		
3	9/22/77	2			122		
3	9/22/77	3			122		
3	9/22/77	4			122		
4	12/1/75	1			181		
4	12/1/75	2			180		
4	12/1/75	3			165		
4	12/1/75	4			162		
4	2/2/76	1			169		
4	2/2/76	2			168		
4	2/2/76	3			163		
4	2/2/76	4			151		
4	7/1/77	1			184		
4	7/1/77	2			185		
4	7/1/77	3			183		
4	7/1/77	4			174		
4	8/1/77	1			185		
4	8/1/77	2			186		
4	8/1/77	3			185		
4	8/1/77	4			176		
4	9/1/77	1			185		
4	9/1/77	2			186		
4	9/1/77	3			184		
4	9/1/77	4			175		
4	9/22/77	1			186		
4	9/22/77	2			187		
4	9/22/77	3			185		
4	9/22/77	4			176		
4	1/1/89	3	1		184	N	
4	3/1/89	2	1		191	N	
4	3/1/89	3	1		188	N	
4	3/1/89	4	1		215	Y	
4	5/12/89	3	1		240	N	
4	5/12/89	4	1			Y	477 - suspect data (high)
4	6/4/89	2	1		253	N	
4	6/4/89	3	1		254	Y	
4	6/4/89	4	1		236	N	
4	6/12/89	3	1		167	N	
4	6/12/89	4	1			Y	592 - suspect data (high)
5	12/1/75	1			148		
5	12/1/75	2			129		
5	12/1/75	3			71		
5	12/1/75	4			87		
5	2/2/76	1			138		
5	2/2/76	2			117		
5	2/2/76	3			80		
5	2/2/76	4			81		
5	7/1/77	1			157		
5	7/1/77	2			148		
5	7/1/77	3			75		
5	7/1/77	4			110		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
5	8/1/77	1			159		
5	8/1/77	2			150		
5	8/1/77	3			77		
5	8/1/77	4			113		
5	9/1/77	1			161		
5	9/1/77	2			152		
5	9/1/77	3			73		
5	9/1/77	4			112		
5	9/22/77	1			160		
5	9/22/77	2			152		
5	9/22/77	3			76		
5	9/22/77	4			114		
5	1/1/89	1	1		119	N	
5	3/1/89	1	1		122	N	
5	3/1/89	2	1		183	Y	
5	3/1/89	3	1		70	N	
5	3/1/89	4	1		118	N	
5	5/12/89	1	1		127	N	
5	5/12/89	2	1		169	Y	
5	5/12/89	3	1		75	N	
5	5/12/89	4	1		122	N	
5	6/4/89	1	1		120	N	
5	6/4/89	2	1		148	Y	
5	6/4/89	3	1		75	N	
5	6/4/89	4	1		122	N	
5	6/12/89	1	1		132	N	
5	6/12/89	2	1		184	Y	
5	6/12/89	3	1		80	N	
5	6/12/89	4	1		125	N	
6	12/1/75	1			109		
6	12/1/75	2			105		
6	12/1/75	3			101		
6	12/1/75	4			94		
6	2/2/76	1			103		
6	2/2/76	2			97		
6	2/2/76	3			85		
6	2/2/76	4			80		
6	7/1/77	1			135		
6	7/1/77	2			132		
6	7/1/77	3			122		
6	7/1/77	4			119		
6	8/1/77	1			136		
6	8/1/77	2			133		
6	8/1/77	3			125		
6	8/1/77	4			122		
6	9/1/77	1			133		
6	9/1/77	2			131		
6	9/1/77	3			126		
6	9/1/77	4			122		
6	9/22/77	1			133		
6	9/22/77	2			130		
6	9/22/77	3			126		
6	9/22/77	4			123		
6	3/1/89	1	1		136	N	
6	3/1/89	2	1		148	Y	
6	3/1/89	3	1		143	N	
6	3/1/89	4	1		124	N	
6	5/12/89	1	1		184	N	
6	5/12/89	2	1			Y	391 - suspect data (high)
6	5/12/89	3	1		140	N	
6	5/12/89	4	1		128	N	
6	5/28/89	4	1		99	N	
6	6/4/89	1	1		197	N	
6	6/4/89	2	1			Y	448 - suspect data (high)
6	6/4/89	3	1		124	N	
6	6/4/89	4	1		132	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
6	6/12/89	1	1		209	N	
6	6/12/89	2	1			Y	498 - suspect data (high)
6	6/12/89	3	1		155	N	
6	6/12/89	4	1		137	N	
6	6/13/89	1	1		136	Y	
6	6/13/89	2	1		131.4	N	
6	6/13/89	3	1		128.3	N	
6	6/13/89	4	1		127.7	N	
6	6/13/89	5	1		127.4	N	
6	6/13/89	6	1		126.8	N	
6	6/13/89	7	1		126.6	N	
6	6/13/89	8	1		122.7	N	
6	7/20/89	1	1		136	Y	Currently taken by Maint Eng. Services
6	7/20/89	2	1		131.4	N	
6	7/20/89	3	1		128.3	N	
6	7/20/89	4	1		127.7	N	
6	7/20/89	5	1		127.4	N	
6	7/20/89	6	1		126.8	N	
6	7/20/89	7	1		126.6	N	
6	7/20/89	8	1		122.7	N	
7	12/1/75	2			135		
7	12/1/75	3			122		
7	12/1/75	4			107		
7	2/2/76	1			126		
7	2/2/76	2			120		
7	2/2/76	3			109		
7	2/2/76	4			95		
7	7/1/77	1			151		
7	7/1/77	2			148		
7	7/1/77	3			140		
7	7/1/77	4			130		
7	8/1/77	1			153		
7	8/1/77	2			156		
7	8/1/77	3			142		
7	8/1/77	4			132		
7	9/1/77	1			156		
7	9/1/77	2			153		
7	9/1/77	3			145		
7	9/1/77	4			133		
7	9/22/77	1			154		
7	9/22/77	2			151		
7	9/22/77	3			144		
7	9/22/77	4			133		
7	1/1/89	1	1		166	N	
7	3/1/89	1	1		164	N	
7	4/21/89	1	1		166	Y	
7	4/21/89	4	1		141	N	
7	5/12/89	1	1		165	N	
7	5/28/89	1	1		142	Y	
7	5/28/89	4	1		119	N	
7	6/4/89	1	1		166	N	
7	6/12/89	1	1		166	N	
8	12/1/75	1			161		
8	12/1/75	2			137		
8	12/1/75	3			107		
8	2/2/76	1			147		
8	2/2/76	2			123		
8	2/2/76	3			96		
8	2/2/76	4			83		
8	12/1/76	4			92		
8	7/1/77	1			175		
8	7/1/77	2			156		
8	7/1/77	3			132		
8	7/1/77	4			121		
8	8/1/77	1			117		
8	8/1/77	2			158		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	8/1/77	3			135		
8	8/1/77	4			124		
8	9/1/77	1			180		
8	9/1/77	2			160		
8	9/1/77	3			136		
8	9/1/77	4			123		
8	9/22/77	1			179		
8	9/22/77	2			160		
8	9/22/77	3			137		
8	9/22/77	4			125		
8	1/1/89	3	1		143	Y	
8	1/1/89	4	1		131	N	
8	4/21/89	1	1		186	Y	
8	4/21/89	2	1		166	N	
8	4/21/89	3	1		142	N	
8	4/21/89	4	1		131	N	
8	5/12/89	2	1		167	Y	
8	5/12/89	3	1		145	N	
8	5/12/89	4	1		132	N	
8	5/28/89	1	1		120	N	
8	5/28/89	3	1		124	Y	
8	6/4/89	2	1		167	Y	
8	6/4/89	3	1		145	N	
8	6/4/89	4	1		133	N	
8	6/12/89	1	1		186	Y	
8	6/12/89	2	1		168	N	
8	6/12/89	3	1		147	N	
8	6/12/89	4	1		135	N	
8	6/13/89	1	1		163.9	Y	
8	6/13/89	2	1		160.5	N	
8	6/13/89	3	1		153.1	N	
8	6/13/89	4	1		141.2	N	
8	6/13/89	5	1		132.5	N	
8	6/13/89	6	1		131.2	N	
8	6/13/89	7	1		131.3	N	
8	6/13/89	8	1		131.1	N	
8	7/20/89	1	1		163.9	Y	Currently taken by Maint Eng Services
8	7/20/89	2	1		160.5	N	
8	7/20/89	3	1		153.1	N	
8	7/20/89	4	1		141.2	N	
8	7/20/89	5	1		132.5	N	
8	7/20/89	6	1		131.2	N	
8	7/20/89	7	1		131.3	N	
8	7/20/89	8	1		131.1	N	
8	8/14/89	1	1		188.5	Y	Currently taken by MAInt Eng Services
8	8/14/89	2	1		184.7	N	
8	8/14/89	3	1		183.9	N	
8	8/14/89	4	1		135.3	N	
8	8/14/89	5	1		129.5	N	
8	8/14/89	6	1		127.5	N	
8	8/14/89	7	1		126.5	N	
8	8/14/89	8	1		125.8	N	
8	9/6/89	1	1		166.8	Y	Currently taken by MAInt Eng Services
8	9/6/89	2	1		160.3	N	
8	9/6/89	3	1		153.4	N	
8	9/6/89	4	1		142.1	N	
8	9/6/89	5	1		133.8	N	
8	9/6/89	6	1		132.1	N	
8	9/6/89	7	1		131	N	
8	9/6/89	8	1		131.5	N	
8	10/16/89	1	1		181.3	Y	
8	10/16/89	2	1		177.9	N	
8	10/16/89	3	1		169.5	N	
8	10/16/89	4	1		157.1	N	
8	10/16/89	5	1		150.7	N	
8	10/16/89	6	1		147.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	10/16/89	7	1		144.2	N	
8	10/16/89	8	1		145.2	N	
8	11/5/89	1	1		171	Y	
8	11/5/89	2	1		168	N	
8	11/5/89	3	1		160	N	
8	11/5/89	4	1		148	N	
8	11/5/89	5	1		138	N	
8	11/5/89	6	1		136	N	
8	11/5/89	7	1		136	N	
8	11/5/89	8	1		136	N	
8	11/6/89	1	1		171	Y	
8	11/6/89	2	1		167.7	N	
8	11/6/89	3	1		160.1	N	
8	11/6/89	4	1		147.7	N	
8	11/6/89	5	1		137.9	N	
8	11/6/89	6	1		136.2	N	
8	11/6/89	7	1		135.8	N	
8	11/6/89	8	1		135.5	N	
8	12/5/89	1	1		164	Y	Currently taken by Maint. Eng. Services
8	12/5/89	2	1		162	N	
8	12/5/89	3	1		155	N	
8	12/5/89	4	1		143	N	
8	12/5/89	5	1		130	N	
8	12/5/89	6	1		132	N	
8	12/5/89	7	1		132	N	
8	12/5/89	8	1		132	N	
8	1/3/90	1	1		166	Y	
8	1/3/90	2	1		163	N	
8	1/3/90	3	1		156	N	
8	1/3/90	4	1		144	N	
8	1/3/90	5	1		135	N	
8	1/3/90	6	1		133	N	
8	1/3/90	7	1		133	N	
8	1/3/90	8	1		133	N	
8	2/1/90	1	1		164	Y	
8	2/1/90	2	1		162	N	
8	2/1/90	3	1		154	N	
8	2/1/90	4	1		141	N	
8	2/1/90	5	1		131	N	
8	2/1/90	6	1		129	N	
8	2/1/90	7	1		128	N	
8	2/1/90	8	1		129	N	
8	3/8/90	1	1		160	Y	
8	3/8/90	2	1		157	N	
8	3/8/90	3	1		149	N	
8	3/8/90	4	1		136	N	
8	3/8/90	5	1		127	N	
8	3/8/90	6	1		124	N	
8	3/8/90	7	1		124	N	
8	3/8/90	8	1		124	N	
8	4/3/90	1	1		158	Y	
8	4/3/90	2	1		156	N	
8	4/3/90	3	1		147	N	
8	4/3/90	4	1		135	N	
8	4/3/90	5	1		125	N	
8	4/3/90	6	1		123	N	
8	4/3/90	7	1		123	N	
8	4/3/90	8	1		122	N	
8	5/3/90	1	1		156	Y	
8	5/3/90	2	1		154	N	
8	5/3/90	3	1		146	N	
8	5/3/90	4	1		135	N	
8	5/3/90	5	1		125	N	
8	5/3/90	6	1		123	N	
8	5/3/90	7	1		123	N	
8	5/3/90	8	1		122	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	6/7/90	1	1		161	Y	
8	6/7/90	2	1		158	N	
8	6/7/90	3	1		151	N	
8	6/7/90	4	1		139	N	
8	6/7/90	5	1		130	N	
8	6/7/90	6	1		128	N	
8	6/7/90	7	1		127	N	
8	6/7/90	8	1		127	N	
8	7/3/90	1	1		161	Y	
8	7/3/90	2	1		159	N	
8	7/3/90	3	1		152	N	
8	7/3/90	4	1		140	N	
8	7/3/90	5	1		131	N	
8	7/3/90	6	1		129	N	
8	7/3/90	7	1		129	N	
8	7/3/90	8	1		129	N	
8	8/2/90	1	1		161	Y	
8	8/2/90	2	1		159	N	
8	8/2/90	3	1		153	N	
8	8/2/90	4	1		142	N	
8	8/2/90	5	1		133	N	
8	8/2/90	6	1		132	N	
8	8/2/90	7	1		131	N	
8	8/2/90	8	1		131	N	
8	9/6/90	1	1		163	Y	
8	9/6/90	2	1		161	N	
8	9/6/90	3	1		154	N	
8	9/6/90	4	1		143	N	
8	9/6/90	5	1		134	N	
8	9/6/90	6	1		132	N	
8	9/6/90	7	1		132	N	
8	9/6/90	8	1		132	N	
8	10/2/90	1	1		166	Y	
8	10/2/90	2	1		164	N	
8	10/2/90	3	1		157	N	
8	10/2/90	4	1		145	N	
8	10/2/90	5	1		136	N	
8	10/2/90	6	1		134	N	
8	10/2/90	7	1		133	N	
8	10/2/90	8	1		133	N	
8	11/13/90	1	1		165	Y	
8	11/13/90	2	1		162	N	
8	11/13/90	3	1		155	N	
8	11/13/90	4	1		142	N	
8	11/13/90	5	1		133	N	
8	11/13/90	6	1		130	N	
8	11/13/90	7	1		131	N	
8	11/13/90	8	1		130	N	
8	12/5/90	1	1		161.3	Y	
8	12/5/90	2	1		158	N	
8	12/5/90	3	1		149.6	N	
8	12/5/90	4	1		136.4	N	
8	12/5/90	5	1		126.7	N	
8	12/5/90	6	1		125.1	N	
8	12/5/90	7	1		124.6	N	
8	12/5/90	8	1		124.5	N	
8	1/3/91	1	1		167.6	Y	
8	1/3/91	2	1		165.6	N	
8	1/3/91	3	1		157.6	N	
8	1/3/91	4	1		143.6	N	
8	1/3/91	5	1		134.6	N	
8	1/3/91	6	1		135.6	N	
8	1/3/91	7	1		135.2	N	
8	1/3/91	8	1		132.1	N	
8	2/20/91	1	1		159.7	Y	
8	2/20/91	2	1		156	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	2/20/91	3	1		147.7	N	
8	2/20/91	4	1		134.4	N	
8	2/20/91	5	1		124.3	N	
8	2/20/91	6	1		122.4	N	
8	2/20/91	7	1		121.7	N	
8	2/20/91	8	1		121.9	N	
8	3/14/91	1	1		158.5	Y	
8	3/14/91	2	1		154.9	N	
8	3/14/91	3	1		146.9	N	
8	3/14/91	4	1		133.5	N	
8	3/14/91	5	1		124	N	
8	3/14/91	6	1		122.2	N	
8	3/14/91	7	1		121.6	N	
8	3/14/91	8	1		121.4	N	
8	4/17/91	1	1		156.7	Y	
8	4/17/91	2	1		153.1	N	
8	4/17/91	3	1		144.9	N	
8	4/17/91	4	1		132.2	N	
8	4/17/91	5	1		122.7	N	
8	4/17/91	6	1		120.7	N	
8	4/17/91	7	1		120.1	N	
8	4/17/91	8	1		120	N	
8	5/2/91	1	1		157.6	Y	
8	5/2/91	2	1		154.4	N	
8	5/2/91	3	1		154.8	N	
8	5/2/91	4	1		142.2	N	
8	5/2/91	5	1		124.4	N	
8	5/2/91	6	1		123	N	
8	5/2/91	7	1		122.4	N	
8	5/2/91	8	1		122.1	N	
8	6/14/91	1	1		157.1	Y	
8	6/14/91	2	1		154.9	N	
8	6/14/91	3	1		147.5	N	
8	6/14/91	4	1		135.4	N	
8	6/14/91	5	1		126.6	N	
8	6/14/91	6	1		124.8	N	
8	6/14/91	7	1		124.2	N	
8	6/14/91	8	1		123.8	N	
8	7/19/91	1	1		160.1	Y	J 128-9042405
8	7/19/91	2	1		157.1	N	
8	7/19/91	3	1		150.5	N	
8	7/19/91	4	1		138.6	N	
8	7/19/91	5	1		130.3	N	
8	7/19/91	6	1		128.4	N	
8	7/19/91	7	1		127.9	N	
8	7/19/91	8	1		127.6	N	
8	8/15/91	1	1		162.4	Y	
8	8/15/91	2	1		160.5	N	
8	8/15/91	3	1		153.4	N	
8	8/15/91	4	1		141.6	N	
8	8/15/91	5	1		133.5	N	
8	8/15/91	6	1		131.8	N	
8	8/15/91	7	1		131.1	N	
8	8/15/91	8	1		130.9	N	
8	9/5/91	1	1		166.1	Y	817-13-55-008 Omega
8	9/5/91	2	1		159.3	N	
8	9/5/91	3	1		152.4	N	
8	9/5/91	4	1		140.5	N	
8	9/5/91	5	1		132.7	N	
8	9/5/91	6	1		131	N	
8	9/5/91	7	1		130.4	N	
8	9/5/91	8	1		129.9	N	
8	10/7/91	1	1		166	Y	J-817-13-35-008
8	10/7/91	2	1		163	N	
8	10/7/91	3	1		155.7	N	
8	10/7/91	4	1		143.5	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
8	10/7/91	5	1		135	N
8	10/7/91	6	1		133.2	N
8	10/7/91	7	1		132.6	N
8	10/7/91	8	1		132.2	N
8	11/10/91	1	1		165.9	Y
8	11/10/91	2	1		162.4	N
8	11/10/91	3	1		154.3	N
8	11/10/91	4	1		141.2	N
8	11/10/91	5	1		131.4	N
8	11/10/91	6	1		129.6	N
8	11/10/91	7	1		129.1	N
8	11/10/91	8	1		128.9	N
8	12/6/91	1	1		163	Y
8	12/6/91	2	1		160	N
8	12/6/91	3	1		156	N
8	12/6/91	4	1		138	N
8	12/6/91	5	1		128	N
8	12/6/91	6	1		127	N
8	12/6/91	7	1		126	N
8	12/6/91	8	1		126	N
8	1/17/92	1	1		168.1	Y
8	1/17/92	2	1		164.5	N
8	1/17/92	3	1		154.6	N
8	1/17/92	4	1		136.6	N
8	1/17/92	5	1		126.4	N
8	1/17/92	6	1		124.5	N
8	1/17/92	7	1		124	N
8	1/17/92	8	1		124	N
8	2/21/92	1	1		160	Y
8	2/21/92	2	1		156	N
8	2/21/92	3	1		147	N
8	2/21/92	4	1		133	N
8	2/21/92	5	1		126	N
8	2/21/92	6	1		123	N
8	2/21/92	7	1		122	N
8	2/21/92	8	1		121	N
8	3/5/92	1	1		168	Y
8	3/5/92	2	1		165	N
8	3/5/92	3	1		157	N
8	3/5/92	4	1		143	N
8	3/5/92	5	1		133	N
8	3/5/92	6	1		131	N
8	3/5/92	7	1		131	N
8	3/5/92	8	1		131	N
8	4/2/92	1	1		152	Y
8	4/2/92	2	1		148	N
8	4/2/92	3	1		140	N
8	4/2/92	4	1		127	N
8	4/2/92	5	1		120	N
8	4/2/92	6	1		118	N
8	4/2/92	7	1		116	N
8	4/2/92	8	1		116	N
8	5/14/92	1	1		157	Y
8	5/14/92	2	1		154	N
8	5/14/92	3	1		146	N
8	5/14/92	4	1		134	N
8	5/14/92	5	1		126	N
8	5/14/92	6	1		123	N
8	5/14/92	7	1		122	N
8	5/14/92	8	1		122	N
8	6/4/92	1	1		159	Y
8	6/4/92	2	1		156	N
8	6/4/92	3	1		148	N
8	6/4/92	4	1		136	N
8	6/4/92	5	1		129	N
8	6/4/92	6	1		127	N

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	6/4/92	7	1		126	N	
8	6/4/92	8	1		125	N	
8	7/1/92	1	1		161	Y	817-13-20-019
8	7/1/92	2	1		158	N	
8	7/1/92	3	1		150	N	
8	7/1/92	4	1		138	N	
8	7/1/92	5	1		129	N	
8	7/1/92	6	1		127	N	
8	7/1/92	7	1		127	N	
8	7/1/92	8	1		127	N	
8	8/7/92	1	1		162.7	Y	J 817-13-55-008
8	8/7/92	2	1		160.4	N	
8	8/7/92	3	1		156.3	N	
8	8/7/92	4	1		144.4	N	
8	8/7/92	5	1		136.1	N	
8	8/7/92	6	1		134.4	N	
8	8/7/92	7	1		130.1	N	
8	8/7/92	8	1		130.1	N	
8	9/3/92	1	1		162	Y	J 128-9042212
8	9/3/92	2	1		159.6	N	
8	9/3/92	3	1		152.4	N	
8	9/3/92	4	1		140.4	N	
8	9/3/92	5	1		131.6	N	
8	9/3/92	6	1		136.9	N	
8	9/3/92	7	1		129.6	N	
8	9/3/92	8	1		129.4	N	
8	10/8/92	1	1		163	Y	
8	10/8/92	2	1		160	N	
8	10/8/92	3	1		152	N	
8	10/8/92	4	1		140	N	
8	10/8/92	5	1		131	N	
8	10/8/92	6	1		129	N	
8	10/8/92	7	1		128	N	
8	10/8/92	8	1		128	N	
8	11/5/92	1	1		158	Y	J 817-13-20-019
8	11/5/92	2	1		156	N	
8	11/5/92	3	1		149	N	
8	11/5/92	4	1		135	N	
8	11/5/92	5	1		126	N	
8	11/5/92	6	1		124	N	
8	11/5/92	7	1		124	N	
8	11/5/92	8	1		124	N	
8	12/4/92	1	1		155	Y	J 817-13-20-019
8	12/4/92	2	1		153	N	
8	12/4/92	3	1		144	N	
8	12/4/92	4	1		131	N	
8	12/4/92	5	1		121	N	
8	12/4/92	6	1		119	N	
8	12/4/92	7	1		119	N	
8	12/4/92	8	1		119	N	
8	1/5/93	1	1		160	Y	817-13-20-019
8	1/5/93	2	1		158	N	
8	1/5/93	3	1		149	N	
8	1/5/93	4	1		134	N	
8	1/5/93	5	1		124	N	
8	1/5/93	6	1		122	N	
8	1/5/93	7	1		122	N	
8	1/5/93	8	1		122	N	
8	2/2/93	1	1		151	Y	817-13-20-019
8	2/2/93	2	1		148	N	
8	2/2/93	3	1		140	N	
8	2/2/93	4	1		127	N	
8	2/2/93	5	1		117	N	
8	2/2/93	6	1		115	N	
8	2/2/93	7	1		115	N	
8	2/2/93	8	1		115	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	3/3/93	1	1		157	Y	817-13-20-019
8	3/3/93	2	1		153	N	
8	3/3/93	3	1		144	N	
8	3/3/93	4	1		131	N	
8	3/3/93	5	1		120	N	
8	3/3/93	6	1		118	N	
8	3/3/93	7	1		118	N	
8	3/3/93	8	1		118	N	
8	4/8/93	1	1		151	Y	J 817-13-20-019
8	4/8/93	2	1		147	N	
8	4/8/93	3	1		140	N	
8	4/8/93	4	1		127	N	
8	4/8/93	5	1		117	N	
8	4/8/93	6	1		116	N	
8	4/8/93	7	1		115	N	
8	4/8/93	8	1		115	N	
8	5/6/93	1	1		150	Y	I 817132019
8	5/6/93	2	1		148	N	
8	5/6/93	3	1		141	N	
8	5/6/93	4	1		129	N	
8	5/6/93	5	1		119	N	
8	5/6/93	6	1		118	N	
8	5/6/93	7	1		117	N	
8	5/6/93	8	1		117	N	
8	6/3/93	1	1		152	Y	817-13-20-019
8	6/3/93	2	1		149	N	
8	6/3/93	3	1		142	N	
8	6/3/93	4	1		130	N	
8	6/3/93	5	1		119	N	
8	6/3/93	6	1		120	N	
8	6/3/93	7	1		119	N	
8	6/3/93	8	1		121	N	
8	6/18/93	1	1		158	Y	910126143-32
8	6/18/93	2	1		155.2	N	
8	6/18/93	3	1		147.5	N	
8	6/18/93	4	1		135.1	N	
8	6/18/93	5	1		123.5	N	
8	6/18/93	6	1		124.2	N	
8	6/18/93	7	1		123.7	N	
8	6/18/93	8	1		125.8	N	
8	7/1/93	2	1		152.9	Y	890423320-42 TC 4 O/S
8	7/1/93	3	1		145.6	N	
8	7/1/93	4	1			N	
8	7/1/93	5	1		122	N	
8	7/1/93	6	1		122.3	N	
8	7/1/93	7	1		121.9	N	
8	7/1/93	8	1		123.5	N	
8	8/5/93	1	1		159.1	Y	890423320-42
8	8/5/93	1	2		155	Y	817-13-20-019
8	8/5/93	2	1		156.2	N	
8	8/5/93	2	2		153	N	
8	8/5/93	3	1		149.1	N	
8	8/5/93	3	2		146	N	
8	8/5/93	4	1		137.3	N	
8	8/5/93	4	2		135	N	
8	8/5/93	5	1		126	N	
8	8/5/93	5	2		124	N	
8	8/5/93	6	1		126	N	
8	8/5/93	6	2		124	N	
8	8/5/93	7	1		125.3	N	
8	8/5/93	7	2		124	N	
8	8/5/93	8	1		126.9	N	
8	8/5/93	8	2		125	N	
8	9/3/93	2	1		160.5	N	
8	9/3/93	3	1		153.3	N	
8	9/3/93	4	1		141.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	9/3/93	5	1		129.2	N	
8	9/3/93	6	1		129.3	N	
8	9/3/93	7	1		128.3	N	
8	9/3/93	8	1		129.9	N	
8	9/4/93	1	1		158.6	Y	TI-045
8	9/4/93	2	1		156.1	N	
8	9/4/93	3	1		149.1	N	
8	9/4/93	4	1		137.3	N	
8	9/4/93	5	1		126	N	
8	9/4/93	6	1		126.3	N	
8	9/4/93	7	1		125.8	N	
8	9/4/93	8	1		127.6	N	
8	10/5/93	1	1		161.9	Y	J 910126143-48
8	10/5/93	2	1		159	N	
8	10/5/93	3	1		151.5	N	
8	10/5/93	4	1		138.9	N	
8	10/5/93	5	1		127.6	N	
8	10/5/93	6	1		128	N	
8	10/5/93	7	1		127.6	N	
8	10/5/93	8	1		129.7	N	
8	10/11/93	1	1		162.4	Y	J 910126143-48
8	10/11/93	2	1		159.4	N	
8	10/11/93	3	1		151.5	N	
8	10/11/93	4	1		138.5	N	
8	10/11/93	5	1		126.4	N	
8	10/11/93	6	1		127	N	
8	10/11/93	7	1		126.5	N	
8	10/11/93	8	1		128.7	N	
8	10/18/93	1	1		161.2	Y	910126143-14
8	10/18/93	2	1		158.4	N	
8	10/18/93	3	1		151.8	N	
8	10/18/93	4	1		140.9	N	
8	10/18/93	5	1		130.5	N	
8	10/18/93	6	1		130.7	N	
8	10/18/93	7	1		130.2	N	
8	10/18/93	8	1		131.8	N	
8	11/1/93	1	1		162.6	Y	910126143-29
8	11/1/93	2	1		159.7	N	
8	11/1/93	3	1		151.5	N	
8	11/1/93	4	1		138.1	N	
8	11/1/93	5	1		125.8	N	
8	11/1/93	6	1		126.3	N	
8	11/1/93	7	1		125.9	N	
8	11/1/93	8	1		128.1	N	
8	11/29/93	1	1		164.8	Y	91012614329
8	11/29/93	2	1		162	N	
8	11/29/93	3	1		154.9	N	
8	11/29/93	4	1		143	N	
8	11/29/93	5	1		132.1	N	
8	11/29/93	6	1		132.6	N	
8	11/29/93	7	1		132.2	N	
8	11/29/93	8	1		134.2	N	
8	12/2/93	1	1			N	J 910126143-29 TC 1 O/S Bad Data Inconsistent Readings
8	12/2/93	3	1		187.3	N	
8	12/2/93	4	1		176.2	N	
8	12/2/93	5	1		159.2	N	
8	12/2/93	6	1		139.8	N	
8	12/2/93	7	1		133.8	N	
8	12/2/93	8	1		132.7	N	
8	12/21/93	1	1		166.4	Y	910126143-29
8	12/21/93	1	2		166.4	Y	J 910126143-29
8	12/21/93	2	1		163.8	N	
8	12/21/93	2	2		163.8	N	
8	12/21/93	3	1		156.4	N	
8	12/21/93	3	2		156.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	12/21/93	4	1		143.6	N	
8	12/21/93	4	2		144.2	N	
8	12/21/93	5	1		131.4	N	
8	12/21/93	5	2		131.9	N	
8	12/21/93	6	1		131.9	N	
8	12/21/93	6	2		132.4	N	
8	12/21/93	7	1		131.6	N	
8	12/21/93	7	2		132	N	
8	12/21/93	8	1		133.7	N	
8	12/21/93	8	2		134.3	N	
8	12/22/93	1	1		166.9	Y	910126143-29
8	12/22/93	2	1		164.5	N	
8	12/22/93	3	1		167.3	N	
8	12/22/93	4	1		145.2	N	
8	12/22/93	5	1		134.2	N	
8	12/22/93	6	1		134.7	N	
8	12/22/93	7	1		134.4	N	
8	12/22/93	8	1		136.3	N	
8	12/28/93	1	1		166.9	Y	910126143-29
8	12/28/93	2	1		164.4	N	
8	12/28/93	3	1		157.2	N	
8	12/28/93	4	1		144.6	N	
8	12/28/93	5	1		132.2	N	
8	12/28/93	6	1		132.8	N	
8	12/28/93	7	1		132.4	N	
8	12/28/93	8	1		134.7	N	
8	12/29/93	1	1		167.3	Y	910126143-29
8	12/29/93	1	2		167.2	Y	910126143-29
8	12/29/93	1	3		167.8	Y	J 910126143-32
8	12/29/93	1	4		167.7	Y	J 91012614332
8	12/29/93	2	1		164.8	N	
8	12/29/93	2	2		164.5	N	
8	12/29/93	2	3		164.9	N	
8	12/29/93	2	4		165	N	
8	12/29/93	3	1		157.3	N	
8	12/29/93	3	2		156.9	N	
8	12/29/93	3	3		157.3	N	
8	12/29/93	3	4		157.3	N	
8	12/29/93	4	1		144.4	N	
8	12/29/93	4	2		144	N	
8	12/29/93	4	3		144.1	N	
8	12/29/93	4	4		143.8	N	
8	12/29/93	5	1		132	N	
8	12/29/93	5	2		131.3	N	
8	12/29/93	5	3		131.5	N	
8	12/29/93	5	4		131.2	N	
8	12/29/93	6	1		132.4	N	
8	12/29/93	6	2		131.9	N	
8	12/29/93	6	3		132	N	
8	12/29/93	6	4		131.8	N	
8	12/29/93	7	1		132	N	
8	12/29/93	7	2		131.5	N	
8	12/29/93	7	3		131.6	N	
8	12/29/93	7	4		131.3	N	
8	12/29/93	8	1		134.4	N	
8	12/29/93	8	2		133.7	N	
8	12/29/93	8	3		133.8	N	
8	12/29/93	8	4		133.6	N	
8	12/30/93	1	1		167.9	Y	910126143-32
8	12/30/93	2	1		165	N	
8	12/30/93	3	1		157.2	N	
8	12/30/93	4	1		143.5	N	
8	12/30/93	5	1		130.9	N	
8	12/30/93	6	1		131.5	N	
8	12/30/93	7	1		131.1	N	
8	12/30/93	8	1		133.3	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-111							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/31/93	1	1		166.8	Y	910126143-32
8	12/31/93	2	1		164.3	N	
8	12/31/93	3	1		166	N	
8	12/31/93	4	1		142.5	N	
8	12/31/93	5	1		129.6	N	
8	12/31/93	6	1		130.2	N	
8	12/31/93	7	1		129.8	N	
8	12/31/93	8	1		132.1	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-111-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/1/75	1			162		
1	12/1/75	2			150		
1	12/1/75	3			134		
1	12/1/75	4			116		
1	2/2/76	1			145		
1	2/2/76	2			134		
1	2/2/76	3			121		
1	2/2/76	4			105		
1	7/1/77	1			166		
1	7/1/77	2			156		
1	7/1/77	3			149		
1	7/1/77	4			144		
1	8/1/77	1			167		
1	8/1/77	2			158		
1	8/1/77	3			151		
1	8/1/77	4			146		
1	9/1/77	1			170		
1	9/1/77	2			162		
1	9/1/77	3			154		
1	9/1/77	4			148		
1	9/16/77	1			170		
1	9/16/77	2			168		
1	9/16/77	3			153		
1	9/16/77	4			150		
1	9/22/77	1			168		
1	9/22/77	2			160		
1	9/22/77	3			153		
1	9/22/77	4			149		
1	10/3/77	1			169		
1	10/3/77	2			161		
1	10/3/77	3			151		
1	10/3/77	4			149		
1	4/21/89	1	1		129	Y	
1	4/21/89	2	1		128	N	
1	5/6/89	1	1		226	Y	
1	5/6/89	2	1		129	N	
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
2	12/1/75	1			141		
2	12/1/75	2			135		
2	12/1/75	3			123		
2	12/1/75	4			109		
2	2/2/76	1			127		
2	2/2/76	2			121		
2	2/2/76	3			110		
2	2/2/76	4			97		
2	7/1/77	1			142		
2	7/1/77	2			137		
2	7/1/77	3			126		
2	7/1/77	4			116		
2	8/1/77	1			144		
2	8/1/77	2			139		
2	8/1/77	3			129		
2	8/1/77	4			119		
2	9/1/77	1			148		
2	9/1/77	2			142		
2	9/1/77	3			131		
2	9/1/77	4			119		
2	9/16/77	1			147		
2	9/16/77	2			142		
2	9/16/77	3			131		
2	9/16/77	4			119		
2	9/22/77	1			146		
2	9/22/77	2			141		
2	9/22/77	3			131		
2	9/22/77	4			120		
2	10/3/77	1			148		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
2	10/3/77	2			142	
2	10/3/77	3			130	
2	10/3/77	4			117	
2	1/1/89	2	1		172	N
2	4/21/89	4	1		165	N
2	5/6/89	2	1		142	N
2	6/13/89	1	1		156.9	Y
2	6/13/89	2	1		152.9	N
2	6/13/89	3	1		145.5	N
2	6/13/89	4	1		137	N
2	6/13/89	5	1		130.8	N
2	6/13/89	6	1		128.3	N
2	6/13/89	7	1		127.8	N
2	6/13/89	8	1		127.7	N
2	7/20/89	1	1		156.9	Y
2	7/20/89	2	1		152.9	N
2	7/20/89	3	1		145.5	N
2	7/20/89	4	1		137	N
2	7/20/89	5	1		130.8	N
2	7/20/89	6	1		128.3	N
2	7/20/89	7	1		127.8	N
2	7/20/89	8	1		127.7	N
2	8/14/89	1	1		157.5	Y
2	8/14/89	2	1		153.3	N
2	8/14/89	3	1		145.5	N
2	8/14/89	4	1		136.9	N
2	8/14/89	5	1		132.1	N
2	8/14/89	6	1		126.2	N
2	8/14/89	7	1		125.2	N
2	8/14/89	8	1		126.4	N
2	9/6/89	1	1		156.5	Y
2	9/6/89	2	1		152.6	N
2	9/6/89	3	1		144.9	N
2	9/6/89	4	1		136.2	N
2	9/6/89	5	1		130.8	N
2	9/6/89	6	1		128.4	N
2	9/6/89	7	1		127.4	N
2	9/6/89	8	1		127	N
2	10/16/89	1	1		163.2	Y
2	10/16/89	2	1		159.2	N
2	10/16/89	3	1		151.5	N
2	10/16/89	4	1		142.8	N
2	10/16/89	5	1		135.3	N
2	10/16/89	6	1		135.3	N
2	10/16/89	7	1		134.7	N
2	10/16/89	8	1		134.4	N
2	11/6/89	1	1		155	Y
2	11/6/89	2	1		152	N
2	11/6/89	3	1		145	N
2	11/6/89	4	1		137	N
2	11/6/89	5	1		129	N
2	11/6/89	6	1		127	N
2	11/6/89	7	1		126	N
2	11/6/89	8	1		126	N
2	12/5/89	1	1		155	Y
2	12/5/89	2	1		152	N
2	12/5/89	3	1		145	N
2	12/5/89	4	1		137	N
2	12/5/89	5	1		129	N
2	12/5/89	6	1		127	N
2	12/5/89	7	1		127	N
2	12/5/89	8	1		126	N
2	1/3/90	1	1		156	Y
2	1/3/90	2	1		154	N
2	1/3/90	3	1		147	N
2	1/3/90	4	1		138	N

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	1/3/90	5	1		123	N	
2	1/3/90	6	1		121	N	
2	1/3/90	7	1		117	N	
2	1/3/90	8	1		113	N	
2	2/1/90	1	1		155	Y	
2	2/1/90	2	1		152	N	
2	2/1/90	3	1		144	N	
2	2/1/90	4	1		136	N	
2	2/1/90	5	1		128	N	
2	2/1/90	6	1		125	N	
2	2/1/90	7	1		125	N	
2	2/1/90	8	1		125	N	
2	3/8/90	1	1		152	Y	
2	3/8/90	2	1		148	N	
2	3/8/90	3	1		140	N	
2	3/8/90	4	1		132	N	
2	3/8/90	5	1		124	N	
2	3/8/90	6	1		121	N	
2	3/8/90	7	1		120	N	
2	3/8/90	8	1		120	N	
2	4/3/90	1	1		148	Y	
2	4/3/90	2	1		145	N	
2	4/3/90	3	1		138	N	
2	4/3/90	4	1		130	N	
2	4/3/90	5	1		123	N	
2	4/3/90	6	1		120	N	
2	4/3/90	7	1		120	N	
2	4/3/90	8	1		119	N	
2	5/3/90	1	1		150	Y	
2	5/3/90	2	1		146	N	
2	5/3/90	3	1		139	N	
2	5/3/90	4	1		132	N	
2	5/3/90	5	1		124	N	
2	5/3/90	6	1		122	N	
2	5/3/90	7	1		121	N	
2	5/3/90	8	1		121	N	
2	6/7/90	1	1		152	Y	
2	6/7/90	2	1		149	N	
2	6/7/90	3	1		142	N	
2	6/7/90	4	1		134	N	
2	6/7/90	5	1		127	N	
2	6/7/90	6	1		125	N	
2	6/7/90	7	1		124	N	
2	6/7/90	8	1		124	N	
2	7/3/90	1	1		151	Y	
2	7/3/90	2	1		149	N	
2	7/3/90	3	1		142	N	
2	7/3/90	4	1		134	N	
2	7/3/90	5	1		128	N	
2	7/3/90	6	1		125	N	
2	7/3/90	7	1		125	N	
2	7/3/90	8	1		125	N	
2	8/2/90	1	1		152	Y	
2	8/2/90	2	1		149	N	
2	8/2/90	3	1		143	N	
2	8/2/90	4	1		136	N	
2	8/2/90	5	1		129	N	
2	8/2/90	6	1		127	N	
2	8/2/90	7	1		126	N	
2	8/2/90	8	1		126	N	
2	9/6/90	1	1		152	Y	
2	9/6/90	2	1		150	N	
2	9/6/90	3	1		143	N	
2	9/6/90	4	1		136	N	
2	9/6/90	5	1		129	N	
2	9/6/90	6	1		127	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	9/6/90	7	1		127	N	
2	9/6/90	8	1		127	N	
2	10/2/90	1	1		155	Y	
2	10/2/90	2	1		153	N	
2	10/2/90	3	1		146	N	
2	10/2/90	4	1		138	N	
2	10/2/90	5	1		132	N	
2	10/2/90	6	1		130	N	
2	10/2/90	7	1		129	N	
2	10/2/90	8	1		128	N	
2	11/13/90	1	1		155	Y	
2	11/13/90	2	1		153	N	
2	11/13/90	3	1		146	N	
2	11/13/90	4	1		138	N	
2	11/13/90	5	1		130	N	
2	11/13/90	6	1		128	N	
2	11/13/90	7	1		127	N	
2	11/13/90	8	1		127	N	
2	12/5/90	1	1		153	Y	
2	12/5/90	2	1		149.6	N	
2	12/5/90	3	1		142.9	N	
2	12/5/90	4	1		134	N	
2	12/5/90	5	1		126	N	
2	12/5/90	6	1		123.9	N	
2	12/5/90	7	1		123.7	N	
2	12/5/90	8	1		123.5	N	
2	1/3/91	1	1		152.6	Y	
2	1/3/91	2	1		148.6	N	
2	1/3/91	3	1		141	N	
2	1/3/91	4	1		134.4	N	
2	1/3/91	5	1		128.5	N	
2	1/3/91	6	1		125.6	N	
2	1/3/91	7	1		124.5	N	
2	1/3/91	8	1		122.8	N	
2	2/20/91	1	1		148.9	N	
2	2/20/91	2	1		153.6	Y	
2	2/20/91	3	1		146	N	
2	2/20/91	4	1		128.8	N	
2	2/20/91	5	1		121.1	N	
2	2/20/91	6	1		118.6	N	
2	2/20/91	7	1		118	N	
2	2/20/91	8	1		117.9	N	
2	3/14/91	1	1		160	Y	
2	3/14/91	2	1		146.1	N	
2	3/14/91	3	1		138.5	N	
2	3/14/91	4	1		129.8	N	
2	3/14/91	5	1		121.8	N	
2	3/14/91	6	1		119.4	N	
2	3/14/91	7	1		118.9	N	
2	3/14/91	8	1		118.7	N	
2	4/17/91	1	1		148.2	Y	
2	4/17/91	2	1		144.6	N	
2	4/17/91	3	1		137.2	N	
2	4/17/91	4	1		128.5	N	
2	4/17/91	5	1		128.6	N	
2	4/17/91	6	1		118.7	N	
2	4/17/91	7	1		118.2	N	
2	4/17/91	8	1		117.7	N	
2	5/2/91	1	1		147.1	Y	
2	5/2/91	2	1		143.5	N	
2	5/2/91	3	1		136.5	N	
2	5/2/91	4	1		128.3	N	
2	5/2/91	5	1		120.4	N	
2	5/2/91	6	1		118.4	N	
2	5/2/91	7	1		118	N	

Date obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	5/2/91	8	1		127.5	N	
2	6/14/91	1	1		148.4	N	
2	6/14/91	2	1		154.4	Y	
2	6/14/91	3	1		139.5	N	
2	6/14/91	4	1		131.8	N	
2	6/14/91	5	1		124.4	N	
2	6/14/91	6	1		122.6	N	
2	6/14/91	7	1		122.3	N	
2	6/14/91	8	1		122.3	N	
2	7/19/91	1	1		150.1	Y	
2	7/19/91	2	1		146.9	N	
2	7/19/91	3	1		139	N	
2	7/19/91	4	1		133	N	
2	7/19/91	5	1		126.1	N	
2	7/19/91	6	1		124.2	N	
2	7/19/91	7	1		123.6	N	
2	7/19/91	8	1		123.4	N	
2	8/15/91	1	1		152.4	Y	
2	8/15/91	2	1		149.3	N	
2	8/15/91	3	1		142.9	N	
2	8/15/91	4	1		135.4	N	
2	8/15/91	5	1		128.6	N	
2	8/15/91	6	1		126.7	N	
2	8/15/91	7	1		126.2	N	
2	8/15/91	8	1		125.9	N	
2	9/5/91	1	1		152	Y	817-13-55-008 Omega
2	9/5/91	2	1		149.1	N	
2	9/5/91	3	1		142.6	N	
2	9/5/91	4	1		135.4	N	
2	9/5/91	5	1		128.8	N	
2	9/5/91	6	1		126.9	N	
2	9/5/91	7	1		131.4	N	
2	9/5/91	8	1		130.5	N	
2	10/7/91	1	1		155	N	J-817-13-55-008
2	10/7/91	2	1		155.5	Y	
2	10/7/91	3	1		145.1	N	
2	10/7/91	4	1		137.4	N	
2	10/7/91	5	1		130.8	N	
2	10/7/91	6	1		128.7	N	
2	10/7/91	7	1		128.1	N	
2	10/7/91	8	1		132.4	N	
2	11/10/91	1	1		156.7	Y	J-817-13-55-008
2	11/10/91	2	1		153.4	N	
2	11/10/91	3	1		146.4	N	
2	11/10/91	4	1		138.1	N	
2	11/10/91	5	1		130.5	N	
2	11/10/91	6	1		128.2	N	
2	11/10/91	7	1		131.5	N	
2	11/10/91	8	1		127.9	N	
2	12/6/91	1	1		154	Y	J-817-13-55-008
2	12/6/91	2	1		150	N	
2	12/6/91	3	1		143	N	
2	12/6/91	4	1		135	N	
2	12/6/91	5	1		127	N	
2	12/6/91	6	1		125	N	
2	12/6/91	7	1		128	N	
2	12/6/91	8	1		124	N	
2	1/17/92	1	1		152.7	Y	J-81713555008
2	1/17/92	2	1		149.1	N	
2	1/17/92	3	1		141.7	N	
2	1/17/92	4	1		132.8	N	
2	1/17/92	5	1		125.2	N	
2	1/17/92	6	1		122.6	N	
2	1/17/92	7	1		122.1	N	
2	1/17/92	8	1		122	N	
2	2/21/92	1	1		149	Y	J-817-13-20-019

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	2/21/92	2	1		145	N	
2	2/21/92	3	1		137	N	
2	2/21/92	4	1		128	N	
2	2/21/92	5	1		120	N	
2	2/21/92	6	1		118	N	
2	2/21/92	7	1		117	N	
2	2/21/92	8	1		117	N	
2	3/5/92	1	1		149	Y	
2	3/5/92	2	1		146	N	
2	3/5/92	3	1		138	N	
2	3/5/92	4	1		129	N	
2	3/5/92	5	1		123	N	
2	3/5/92	6	1		120	N	
2	3/5/92	7	1		120	N	
2	3/5/92	8	1		119	N	
2	4/2/92	1	1		142	Y	J 8171355010
2	4/2/92	2	1		139	N	
2	4/2/92	3	1		131	N	
2	4/2/92	4	1		122	N	
2	4/2/92	5	1		116	N	
2	4/2/92	6	1		114	N	
2	4/2/92	7	1		113	N	
2	4/2/92	8	1		112	N	
2	5/14/92	1	1		148	Y	J 8171355010
2	5/14/92	2	1		146	N	
2	5/14/92	3	1		139	N	
2	5/14/92	4	1		131	N	
2	5/14/92	5	1		124	N	
2	5/14/92	6	1		122	N	
2	5/14/92	7	1		122	N	
2	5/14/92	8	1		121	N	
2	6/4/92	1	1		150	Y	J 8171320019
2	6/4/92	2	1		147	N	
2	6/4/92	3	1		140	N	
2	6/4/92	4	1		132	N	
2	6/4/92	5	1		127	N	
2	6/4/92	6	1		125	N	
2	6/4/92	7	1		124	N	
2	6/4/92	8	1		124	N	
2	7/1/92	1	1		152	Y	C19950
2	7/1/92	2	1		149	N	
2	7/1/92	3	1		142	N	
2	7/1/92	4	1		132	N	
2	7/1/92	5	1		127	N	
2	7/1/92	6	1		126	N	
2	7/1/92	7	1		125	N	
2	7/1/92	8	1		125	N	
2	8/7/92	1	1		153.9	Y	J 817-13-55-008
2	8/7/92	2	1		150.7	N	
2	8/7/92	3	1		144.6	N	
2	8/7/92	4	1		137.1	N	
2	8/7/92	5	1		130.4	N	
2	8/7/92	6	1		128.6	N	
2	8/7/92	7	1		128.1	N	
2	8/7/92	8	1		128	N	
2	9/3/92	1	1		154.1	Y	J 128-9042212
2	9/3/92	2	1		151.4	N	
2	9/3/92	3	1		145.3	N	
2	9/3/92	4	1		137.5	N	
2	9/3/92	5	1		130.6	N	
2	9/3/92	6	1		129	N	
2	9/3/92	7	1		128.6	N	
2	9/3/92	8	1		128	N	
2	11/5/92	1	1		150	Y	J 817-13-20-019
2	11/5/92	2	1		147	N	
2	11/5/92	3	1		140	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	11/5/92	4	1		133	N	
2	11/5/92	5	1		126	N	
2	11/5/92	6	1		124	N	
2	11/5/92	7	1		123	N	
2	11/5/92	8	1		123	N	
2	12/4/92	1	1		150	Y	J 817-13-20-019
2	12/4/92	2	1		147	N	
2	12/4/92	3	1		140	N	
2	12/4/92	4	1		132	N	
2	12/4/92	5	1		125	N	
2	12/4/92	6	1		123	N	
2	12/4/92	7	1		122	N	
2	12/4/92	8	1		122	N	
2	1/5/93	1	1		154	Y	817-13-20-019
2	1/5/93	2	1		151	N	
2	1/5/93	3	1		144	N	
2	1/5/93	4	1		135	N	
2	1/5/93	5	1		128	N	
2	1/5/93	6	1		126	N	
2	1/5/93	7	1		125	N	
2	1/5/93	8	1		124	N	
2	2/2/93	1	1		145	Y	817-13-20-019
2	2/2/93	2	1		142	N	
2	2/2/93	3	1		136	N	
2	2/2/93	4	1		127	N	
2	2/2/93	5	1		120	N	
2	2/2/93	6	1		118	N	
2	2/2/93	7	1		117	N	
2	2/2/93	8	1		116	N	
2	3/3/93	1	1		152	Y	817-13-20-019
2	3/3/93	2	1		148	N	
2	3/3/93	3	1		141	N	
2	3/3/93	4	1		132	N	
2	3/3/93	5	1		125	N	
2	3/3/93	6	1		122	N	
2	3/3/93	7	1		122	N	
2	3/3/93	8	1		122	N	
2	4/8/93	1	1		142	Y	J 817-13-20-019
2	4/8/93	2	1		141	N	
2	4/8/93	3	1		134	N	
2	4/8/93	4	1		127	N	
2	4/8/93	5	1		120	N	
2	4/8/93	6	1		117	N	
2	4/8/93	7	1		117	N	
2	4/8/93	8	1		117	N	
2	5/6/93	1	1		144	Y	I 817132019
2	5/6/93	2	1		141	N	
2	5/6/93	3	1		135	N	
2	5/6/93	4	1		127	N	
2	5/6/93	5	1		120	N	
2	5/6/93	6	1		118	N	
2	5/6/93	7	1		117	N	
2	5/6/93	8	1		117	N	
2	6/3/93	1	1		145	Y	817-13-20-019
2	6/3/93	2	1		142	N	
2	6/3/93	3	1		136	N	
2	6/3/93	4	1		129	N	
2	6/3/93	5	1		122	N	
2	6/3/93	6	1		120	N	
2	6/3/93	7	1		119	N	
2	6/3/93	8	1		119	N	
2	6/18/93	1	1		148.9	Y	910126143-32
2	6/18/93	2	1		148.5	N	
2	6/18/93	3	1		138	N	
2	6/18/93	4	1		127.2	N	
2	6/18/93	5	1		123.6	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	6/18/93	6	1		123.2	N	
2	6/18/93	7	1		123	N	
2	6/18/93	8	1		122.9	N	
2	7/1/93	2	1		144	Y	890423320-42 ALL OTHER TC'S O/S
2	8/5/93	1	1		149.8	Y	890423320-42
2	8/5/93	1	2		147	Y	817-13-20-019
2	8/5/93	2	1		148	N	
2	8/5/93	2	2		144	N	
2	8/5/93	3	1		141.7	N	
2	8/5/93	3	2		139	N	
2	8/5/93	4	1		134.4	N	
2	8/5/93	4	2		132	N	
2	8/5/93	5	1		127.9	N	
2	8/5/93	5	2		125	N	
2	8/5/93	6	1		125.8	N	
2	8/5/93	6	2		123	N	
2	8/5/93	7	1		125.3	N	
2	8/5/93	7	2		122	N	
2	8/5/93	8	1		125	N	
2	8/5/93	8	2		122	N	
2	9/3/93	2	1		151.3	N	
2	9/3/93	3	1		145.2	N	
2	9/3/93	4	1		137.7	N	
2	9/3/93	5	1		130.3	N	
2	9/3/93	6	1		128	N	
2	9/3/93	7	1		126.9	N	
2	9/3/93	8	1		126.3	N	
2	9/4/93	1	1		149.6	Y	TI-045
2	9/4/93	2	1		146.8	N	
2	9/4/93	3	1		140.7	N	
2	9/4/93	4	1		133.4	N	
2	9/4/93	5	1		126.6	N	
2	9/4/93	6	1		124.9	N	
2	9/4/93	7	1		124.5	N	
2	9/4/93	8	1		124.2	N	
2	10/5/93	1	1		152.6	Y	J 910126143-48
2	10/5/93	2	1		150	N	
2	10/5/93	3	1		143.7	N	
2	10/5/93	4	1		136	N	
2	10/5/93	5	1		129.1	N	
2	10/5/93	6	1		127.2	N	
2	10/5/93	7	1		126.7	N	
2	10/5/93	8	1		126.5	N	
2	10/11/93	1	1		153.4	Y	J 910126143-48
2	10/11/93	2	1		150.4	N	
2	10/11/93	3	1		144.1	N	
2	10/11/93	4	1		136.2	N	
2	10/11/93	5	1		129.2	N	
2	10/11/93	6	1		127.3	N	
2	10/11/93	7	1		126.7	N	
2	10/11/93	8	1		126.6	N	
2	10/18/93	1	1		151.4	Y	910126143-14
2	10/18/93	2	1		149	N	
2	10/18/93	3	1		143.3	N	
2	10/18/93	4	1		136	N	
2	10/18/93	5	1		129.2	N	
2	10/18/93	6	1		126.9	N	
2	10/18/93	7	1		125.9	N	
2	10/18/93	8	1		125.4	N	
2	11/1/93	1	1		153.5	Y	910126143-29
2	11/1/93	2	1		150.5	N	
2	11/1/93	3	1		144.1	N	
2	11/1/93	4	1		136	N	
2	11/1/93	5	1		128.8	N	
2	11/1/93	6	1		126.7	N	
2	11/1/93	7	1		126.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	11/1/93	8	1		126.1	N	
2	11/29/93	1	1		154.4	Y	91012614329
2	11/29/93	2	1		151.5	N	
2	11/29/93	3	1		144.9	N	
2	11/29/93	4	1		137.2	N	
2	11/29/93	5	1		130.2	N	
2	11/29/93	6	1		128.6	N	
2	11/29/93	7	1		128.3	N	
2	11/29/93	8	1		128.2	N	
2	12/2/93	1	1		153.9	Y	J 910126143-29
2	12/2/93	2	1		151.5	N	
2	12/2/93	3	1		145.1	N	
2	12/2/93	4	1		137.3	N	
2	12/2/93	5	1		130.4	N	
2	12/2/93	6	1		128.6	N	
2	12/2/93	7	1		128.3	N	
2	12/2/93	8	1		128.2	N	
2	12/21/93	1	1		154.9	Y	910126143-29
2	12/21/93	2	1		152	N	
2	12/21/93	2	2		161.9	N	
2	12/21/93	3	1		145.4	N	
2	12/21/93	3	2		145.2	N	
2	12/21/93	4	1		137.5	N	
2	12/21/93	4	2		137.6	N	
2	12/21/93	5	1		130.3	N	
2	12/21/93	5	2		130.3	N	
2	12/21/93	6	1		128.4	N	
2	12/21/93	6	2		128.4	N	
2	12/21/93	7	1		122.9	N	
2	12/21/93	7	2		128	N	
2	12/21/93	8	1		127.9	N	
2	12/21/93	8	2		127.9	N	
2	12/22/93	1	1		154.7	Y	910126143-29
2	12/22/93	2	1		151.9	N	
2	12/22/93	3	1		145.6	N	
2	12/22/93	4	1		137.5	N	
2	12/22/93	5	1		130.6	N	
2	12/22/93	6	1		128.8	N	
2	12/22/93	7	1		128.6	N	
2	12/22/93	8	1		128.6	N	
2	12/28/93	1	1		154.8	Y	910126143-29
2	12/28/93	2	1		151.8	N	
2	12/28/93	3	1		145.3	N	
2	12/28/93	4	1		137.4	N	
2	12/28/93	5	1		130.2	N	
2	12/28/93	6	1		128.3	N	
2	12/28/93	7	1		128	N	
2	12/28/93	8	1		127.9	N	
2	12/29/93	1	1		155	Y	910126143-29
2	12/29/93	1	2		155	Y	910126143-29
2	12/29/93	1	3		155.7	Y	J 910126143-32
2	12/29/93	1	4		155.6	Y	J 91012614332
2	12/29/93	2	1		152	N	
2	12/29/93	2	2		152.1	N	
2	12/29/93	2	3		152.7	N	
2	12/29/93	2	4		152.6	N	
2	12/29/93	3	1		145.6	N	
2	12/29/93	3	2		145.5	N	
2	12/29/93	3	3		146	N	
2	12/29/93	3	4		146	N	
2	12/29/93	4	1		137.6	N	
2	12/29/93	4	2		137.4	N	
2	12/29/93	4	3		138	N	
2	12/29/93	4	4		138	N	
2	12/29/93	5	1		130.4	N	
2	12/29/93	5	2		130.3	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
2	12/29/93	5	3		130.7	N
2	12/29/93	5	4		130.8	N
2	12/29/93	6	1		128.6	N
2	12/29/93	6	2		128.4	N
2	12/29/93	6	3		128.9	N
2	12/29/93	6	4		128.8	N
2	12/29/93	7	1		128.2	N
2	12/29/93	7	2		128	N
2	12/29/93	7	3		128.4	N
2	12/29/93	7	4		128.4	N
2	12/29/93	8	1		128	N
2	12/29/93	8	2		127.9	N
2	12/29/93	8	3		128.3	N
2	12/29/93	8	4		128.2	N
2	12/30/93	1	1		155.6	Y
2	12/30/93	2	1		152.6	N
2	12/30/93	3	1		145.9	N
2	12/30/93	4	1		137.9	N
2	12/30/93	5	1		130.6	N
2	12/30/93	6	1		128.7	N
2	12/30/93	7	1		128.3	N
2	12/30/93	8	1		128.2	N
2	12/31/93	1	1		154.9	Y
2	12/31/93	2	1		152	N
2	12/31/93	3	1		145.4	N
2	12/31/93	4	1		137.6	N
2	12/31/93	5	1		130.4	N
2	12/31/93	6	1		128.4	N
2	12/31/93	7	1		128	N
2	12/31/93	8	1		127.9	N
3	12/1/75	1			129	
3	12/1/75	2			116	
3	12/1/75	3			92	
3	12/1/75	4			84	
3	2/2/76	1			117	
3	2/2/76	2			105	
3	2/2/76	3			83	
3	2/2/76	4			76	
3	7/1/77	1			144	
3	7/1/77	2			134	
3	7/1/77	3			115	
3	7/1/77	4			110	
3	8/1/77	1			146	
3	8/1/77	2			136	
3	8/1/77	3			118	
3	8/1/77	4			113	
3	9/1/77	1			149	
3	9/1/77	2			138	
3	9/1/77	3			119	
3	9/1/77	4			113	
3	9/16/77	1			149	
3	9/16/77	2			138	
3	9/16/77	3			119	
3	9/16/77	4			113	
3	9/22/77	1			148	
3	9/22/77	2			138	
3	9/22/77	3			120	
3	9/22/77	4			114	
3	10/3/77	1			148	
3	10/3/77	2			137	
3	10/3/77	3			116	
3	10/3/77	4			110	
3	4/21/89	1	1		126	N
3	4/21/89	2	1		101	N
3	4/21/89	3	1		133	N
3	4/21/89	4	1		145	Y

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
3	5/6/89	1	1		133	Y	
3	5/6/89	2	1		131	N	
3	5/6/89	3	1		127	N	
3	6/4/89	4	1		126	N	
4	12/1/75	1			134		
4	12/1/75	2			124		
4	12/1/75	4			87		
4	2/2/76	1			120		
4	2/2/76	2			109		
4	2/2/76	3			89		
4	2/2/76	4			78		
4	7/1/77	1			146		
4	7/1/77	2			136		
4	7/1/77	3			120		
4	7/1/77	4			111		
4	8/1/77	1			148		
4	8/1/77	2			139		
4	8/1/77	3			122		
4	8/1/77	4			114		
4	9/1/77	1			151		
4	9/1/77	2			141		
4	9/1/77	3			123		
4	9/1/77	4			114		
4	9/16/77	1			150		
4	9/16/77	2			141		
4	9/16/77	3			123		
4	9/16/77	4			114		
4	9/22/77	1			150		
4	9/22/77	2			140		
4	9/22/77	3			124		
4	9/22/77	4			115		
4	10/3/77	1			150		
4	10/3/77	2			140		
4	10/3/77	3			121		
4	10/3/77	4			111		
4	3/1/89	3	1		133	Y	
4	3/1/89	4	1		125	N	
4	4/21/89	3	1		133	Y	
4	4/21/89	4	1		125	N	
4	5/6/89	2	1		133	Y	
4	5/6/89	3	1		127	N	
4	5/13/89	4	1		126	N	
4	5/22/89	4	1		126	N	
4	6/4/89	3	1		133	Y	
4	6/4/89	4	1		126	N	
5	12/1/75	1			125		
5	12/1/75	2			115		
5	12/1/75	3			94		
5	12/1/75	4			86		
5	2/2/76	1			114		
5	2/2/76	2			102		
5	2/2/76	3			84		
5	2/2/76	4			78		
5	7/1/77	1			140		
5	7/1/77	2			129		
5	7/1/77	3			114		
5	7/1/77	4			110		
5	8/1/77	1			143		
5	8/1/77	2			132		
5	8/1/77	3			117		
5	8/1/77	4			113		
5	9/1/77	1			145		
5	9/1/77	2			133		
5	9/1/77	3			119		
5	9/1/77	4			114		
5	9/16/77	1			145		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
5	9/16/77	2			133		
5	9/16/77	3			118		
5	9/16/77	4			114		
5	9/22/77	1			144		
5	9/22/77	2			133		
5	9/22/77	3			119		
5	9/22/77	4			114		
5	10/3/77	1			144		
5	10/3/77	2			132		
5	10/3/77	3			115		
5	10/3/77	4			111		
6	12/1/75	1			163		
6	12/1/75	2			151		
6	12/1/75	3			137		
6	12/1/75	4			122		
6	2/2/76	1			147		
6	2/2/76	2			136		
6	2/2/76	3			123		
6	2/2/76	4			110		
6	7/1/77	1			162		
6	7/1/77	2			156		
6	7/1/77	3			147		
6	7/1/77	4			137		
6	8/1/77	1			163		
6	8/1/77	2			158		
6	8/1/77	3			149		
6	8/1/77	4			139		
6	9/1/77	1			167		
6	9/1/77	2			161		
6	9/1/77	3			152		
6	9/1/77	4			141		
6	9/16/77	1			165		
6	9/16/77	2			160		
6	9/16/77	3			152		
6	9/16/77	4			141		
6	9/22/77	1			164		
6	9/22/77	2			159		
6	9/22/77	3			151		
6	9/22/77	4			140		
6	10/3/77	1			165		
6	10/3/77	2			160		
6	10/3/77	3			152		
6	10/3/77	4			140		
6	3/1/89	3	1		178	N	
6	6/4/89	3	1		128	N	
7	12/1/75	1			136		
7	12/1/75	2			122		
7	12/1/75	3			97		
7	12/1/75	4			87		
7	2/2/76	1			121		
7	2/2/76	2			109		
7	2/2/76	3			87		
7	2/2/76	4			79		
7	7/1/77	1			149		
7	7/1/77	2			136		
7	7/1/77	3			117		
7	7/1/77	4			111		
7	8/1/77	1			151		
7	8/1/77	2			138		
7	8/1/77	3			120		
7	8/1/77	4			114		
7	9/1/77	1			155		
7	9/1/77	2			141		
7	9/1/77	3			121		
7	9/1/77	4			114		
7	9/16/77	1			153		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
7	9/16/77	2			141		
7	9/16/77	3			121		
7	9/16/77	4			114		
7	9/22/77	1			153		
7	9/22/77	2			140		
7	9/22/77	3			121		
7	9/22/77	4			115		
7	10/3/77	1			153		
7	10/3/77	2			140		
7	10/3/77	3			118		
7	10/3/77	4			111		
7	1/1/89	2	1		153	N	
7	3/1/89	1	1		158	Y	
7	3/1/89	2	1		147	N	
7	5/6/89	2	1		127	N	
7	5/13/89	2	1		137	N	
7	5/22/89	2	1		146	N	
7	6/4/89	2	1		146	N	
7	6/12/89	1	1		157	Y	
7	6/12/89	2	1		147	N	
7	6/13/89	1	1		159.6	Y	
7	6/13/89	2	1		149	N	
7	6/13/89	3	1		134.5	N	
7	6/13/89	4	1		129.8	N	
7	6/13/89	5	1		129	N	
7	6/13/89	6	1		128.1	N	
7	6/13/89	7	1		128.2	N	
7	6/13/89	8	1		127.8	N	
7	7/20/89	1	1		160	Y	Currently taken by Maint Eng Services
7	7/20/89	2	1		149	N	
7	7/20/89	3	1		134.5	N	
7	7/20/89	4	1		129.8	N	
7	7/20/89	5	1		129	N	
7	7/20/89	6	1		128.1	N	
7	7/20/89	7	1		128.2	N	
7	7/20/89	8	1		127.8	N	
8	12/1/75	1			146		
8	12/1/75	2			133		
8	12/1/75	3			119		
8	12/1/75	4			94		
8	2/2/76	1			130		
8	2/2/76	2			119		
8	2/2/76	3			110		
8	2/2/76	4			86		
8	7/1/77	1			155		
8	7/1/77	2			147		
8	7/1/77	3			137		
8	7/1/77	4			118		
8	8/1/77	1			157		
8	8/1/77	2			149		
8	8/1/77	3			136		
8	8/1/77	4			140		
8	9/1/77	1			160		
8	9/1/77	2			152		
8	9/16/77	1			159		
8	9/16/77	2			132		
8	9/16/77	3			141		
8	9/16/77	4			121		
8	9/22/77	1			158		
8	9/22/77	2			151		
8	9/22/77	3			141		
8	9/22/77	4			121		
8	10/3/77	1			159		
8	10/3/77	2			152		
8	10/3/77	3			144		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	8/14/89	1	1		162.3	Y	Currently taken by Maint. Eng. Services
8	8/14/89	2	1		154	N	
8	8/14/89	3	1		142.2	N	
8	8/14/89	4	1		129.9	N	
8	8/14/89	5	1		128.3	N	
8	8/14/89	6	1		127.6	N	
8	8/14/89	7	1		129.7	N	
8	8/14/89	8	1		131.3	N	
8	9/6/89	1	1		167.5	Y	Currently taken by Maint Eng. Services
8	9/6/89	2	1		160	N	
8	9/6/89	3	1		148.9	N	
8	9/6/89	4	1		136.4	N	
8	9/6/89	5	1		134	N	
8	9/6/89	6	1		133.1	N	
8	9/6/89	7	1		132.4	N	
8	9/6/89	8	1		132	N	
8	10/16/89	1	1		170.1	Y	
8	10/16/89	2	1		161.3	N	
8	10/16/89	3	1		149.1	N	
8	10/16/89	4	1		136.5	N	
8	10/16/89	5	1		134.2	N	
8	10/16/89	6	1		133.4	N	
8	10/16/89	7	1		132.6	N	
8	10/16/89	8	1		132	N	
8	11/6/89	1	1		162	Y	
8	11/6/89	2	1		155	N	
8	11/6/89	3	1		144	N	
8	11/6/89	4	1		132	N	
8	11/6/89	5	1		127	N	
8	11/6/89	6	1		127	N	
8	11/6/89	7	1		127	N	
8	11/6/89	8	1		127	N	
8	12/5/89	1	1		162	Y	
8	12/5/89	2	1		155	N	
8	12/5/89	3	1		144	N	
8	12/5/89	4	1		132	N	
8	12/5/89	5	1		129	N	
8	12/5/89	6	1		127	N	
8	12/5/89	7	1		127	N	
8	12/5/89	8	1		127	N	
8	1/3/90	1	1		158	Y	
8	2/1/90	1	1		162	Y	
8	2/1/90	2	1		155	N	
8	2/1/90	3	1		143	N	
8	2/1/90	4	1		131	N	
8	2/1/90	5	1		126	N	
8	2/1/90	6	1		126	N	
8	2/1/90	7	1		126	N	
8	2/1/90	8	1		126	N	
8	3/8/90	1	1		157	Y	
8	3/8/90	2	1		150	N	
8	3/8/90	3	1		138	N	
8	3/8/90	4	1		126	N	
8	3/8/90	5	1		122	N	
8	3/8/90	6	1		121	N	
8	3/8/90	7	1		121	N	
8	3/8/90	8	1		120	N	
8	4/3/90	1	1		155	Y	
8	4/3/90	2	1		148	N	
8	4/3/90	3	1		137	N	
8	4/3/90	4	1		125	N	
8	4/3/90	5	1		121	N	
8	4/3/90	6	1		121	N	
8	4/3/90	7	1		121	N	
8	4/3/90	8	1		121	N	
8	5/3/90	1	1		155	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	5/3/90	2	1		148	N	
8	5/3/90	3	1		137	N	
8	5/3/90	4	1		125	N	
8	5/3/90	5	1		121	N	
8	5/3/90	6	1		121	N	
8	5/3/90	7	1		120	N	
8	5/3/90	8	1		121	N	
8	6/7/90	1	1		158	Y	
8	6/7/90	2	1		151	N	
8	6/7/90	3	1		140	N	
8	6/7/90	4	1		129	N	
8	6/7/90	5	1		125	N	
8	6/7/90	6	1		125	N	
8	6/7/90	7	1		124	N	
8	6/7/90	8	1		124	N	
8	7/3/90	1	1		159	Y	
8	7/3/90	2	1		152	N	
8	7/3/90	3	1		141	N	
8	7/3/90	4	1		130	N	
8	7/3/90	5	1		125	N	
8	7/3/90	6	1		125	N	
8	7/3/90	7	1		125	N	
8	7/3/90	8	1		125	N	
8	8/2/90	1	1		160	Y	
8	8/2/90	2	1		153	N	
8	8/2/90	3	1		143	N	
8	8/2/90	4	1		132	N	
8	8/2/90	5	1		128	N	
8	8/2/90	6	1		128	N	
8	8/2/90	7	1		128	N	
8	8/2/90	8	1		127	N	
8	9/6/90	1	1		160	Y	
8	9/6/90	2	1		153	N	
8	9/6/90	3	1		143	N	
8	9/6/90	4	1		132	N	
8	9/6/90	5	1		128	N	
8	9/6/90	6	1		128	N	
8	9/6/90	7	1		128	N	
8	9/6/90	8	1		128	N	
8	10/2/90	1	1		163	Y	
8	10/2/90	2	1		156	N	
8	10/2/90	3	1		145	N	
8	10/2/90	4	1		134	N	
8	10/2/90	5	1		130	N	
8	10/2/90	6	1		129	N	
8	10/2/90	7	1		129	N	
8	10/2/90	8	1		129	N	
8	11/13/90	1	1		162	Y	
8	11/13/90	2	1		156	N	
8	11/13/90	3	1		144	N	
8	11/13/90	4	1		133	N	
8	11/13/90	5	1		129	N	
8	11/13/90	6	1		128	N	
8	11/13/90	7	1		128	N	
8	11/13/90	8	1		128	N	
8	12/5/90	1	1		161.4	Y	
8	12/5/90	2	1		154	N	
8	12/5/90	3	1		141.5	N	
8	12/5/90	4	1		139	N	
8	12/5/90	5	1		125.1	N	
8	12/5/90	6	1		124.7	N	
8	12/5/90	7	1		124.6	N	
8	12/5/90	8	1		124.6	N	
8	1/3/91	1	1		156.7	Y	
8	1/3/91	2	1		149.5	N	
8	1/3/91	3	1		138.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	1/3/91	4	1		126.4	N	
8	1/3/91	5	1		124.5	N	
8	1/3/91	6	1		123.1	N	
8	1/3/91	7	1		122.4	N	
8	1/3/91	8	1		122.6	N	
8	2/20/91	1	1		154.7	Y	
8	2/20/91	2	1		146.6	N	
8	2/20/91	3	1		134.9	N	
8	2/20/91	4	1		122.4	N	
8	2/20/91	5	1		118.6	N	
8	2/20/91	6	1		118.2	N	
8	2/20/91	7	1		117.9	N	
8	2/20/91	8	1		118.1	N	
8	3/14/91	1	1		155.4	Y	
8	3/14/91	2	1		147.4	N	
8	3/14/91	3	1		135.5	N	
8	3/14/91	4	1		122.9	N	
8	3/14/91	5	1		119.4	N	
8	3/14/91	6	1		118.7	N	
8	3/14/91	7	1		118.5	N	
8	3/14/91	8	1		118.4	N	
8	4/17/91	1	1		154.5	Y	
8	4/17/91	2	1		146.7	N	
8	4/17/91	3	1		135	N	
8	4/17/91	4	1		123.1	N	
8	4/17/91	5	1		119.5	N	
8	4/17/91	6	1		118.8	N	
8	4/17/91	7	1		118.5	N	
8	4/17/91	8	1		118.8	N	
8	5/2/91	1	1		159.8	Y	
8	5/2/91	2	1		147	N	
8	5/2/91	3	1		135.8	N	
8	5/2/91	4	1		124.1	N	
8	5/2/91	5	1		119.6	N	
8	5/2/91	6	1		119.5	N	
8	5/2/91	7	1		119.3	N	
8	5/2/91	8	1		119.2	N	
8	6/14/91	1	1		154.4	N	
8	6/14/91	2	1		157.2	Y	
8	6/14/91	3	1		136.4	N	
8	6/14/91	4	1		125	N	
8	6/14/91	5	1		121.4	N	
8	6/14/91	6	1		120.4	N	
8	6/14/91	7	1		120.6	N	
8	6/14/91	8	1		121	N	
8	7/19/91	1	1		156.5	Y	
8	7/19/91	2	1		149.7	N	
8	7/19/91	3	1		139.2	N	
8	7/19/91	4	1		128.3	N	
8	7/19/91	5	1		125.1	N	
8	7/19/91	6	1		124.8	N	
8	7/19/91	7	1		124.4	N	
8	7/19/91	8	1		124.6	N	
8	8/15/91	1	1		160.1	Y	
8	8/15/91	2	1		152.8	N	
8	8/15/91	3	1		141.9	N	
8	8/15/91	4	1		130.9	N	
8	8/15/91	5	1		127.8	N	
8	8/15/91	6	1		127.1	N	
8	8/15/91	7	1		126.8	N	
8	8/15/91	8	1		126.7	N	
8	9/5/91	1	1		160.4	Y	817-13-55-008 Omega
8	9/5/91	2	1		153.9	N	
8	9/5/91	3	1		143.4	N	
8	9/5/91	4	1		131	N	
8	9/5/91	5	1		127.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	9/5/91	6	1		127.3	N	
8	9/5/91	7	1		127.1	N	
8	9/5/91	8	1		127.1	N	
8	10/7/91	1	1		161.6	Y	J-817-13-35-008
8	10/7/91	2	1		154.4	N	
8	10/7/91	3	1		143.4	N	
8	10/7/91	4	1		132.1	N	
8	10/7/91	5	1		128.9	N	
8	10/7/91	6	1		128.4	N	
8	10/7/91	7	1		128	N	
8	10/7/91	8	1		128	N	
8	11/10/91	1	1		165.5	Y	J-817-13-55-008
8	11/10/91	2	1		156.1	N	
8	11/10/91	3	1		145.6	N	
8	11/10/91	4	1		132.8	N	
8	11/10/91	5	1		129	N	
8	11/10/91	6	1		128.5	N	
8	11/10/91	7	1		128.5	N	
8	11/10/91	8	1		128.4	N	
8	12/6/91	1	1		161	Y	J-817-13-55-008
8	12/6/91	2	1		153	N	
8	12/6/91	3	1		142	N	
8	12/6/91	4	1		130	N	
8	12/6/91	5	1		126	N	
8	12/6/91	6	1		125	N	
8	12/6/91	7	1		125	N	
8	12/6/91	8	1		125	N	
8	1/17/92	1	1		159.8	Y	J-8171355008
8	1/17/92	2	1		151.5	N	
8	1/17/92	3	1		139.8	N	
8	1/17/92	4	1		127.7	N	
8	1/17/92	5	1		123.6	N	
8	1/17/92	6	1		123.1	N	
8	1/17/92	7	1		123	N	
8	2/21/92	1	1		156	Y	J-817-13-20-019
8	2/21/92	2	1		148	N	
8	2/21/92	3	1		136	N	
8	2/21/92	4	1		123	N	
8	2/21/92	5	1		120	N	
8	2/21/92	6	1		120	N	
8	2/21/92	7	1		119	N	
8	2/21/92	8	1		119	N	
8	3/5/92	1	1		153	Y	
8	3/5/92	2	1		146	N	
8	3/5/92	3	1		134	N	
8	3/5/92	4	1		122	N	
8	3/5/92	5	1		119	N	
8	3/5/92	6	1		118	N	
8	3/5/92	7	1		118	N	
8	3/5/92	8	1		117	N	
8	4/2/92	1	1		146	Y	J 8171355010
8	4/2/92	2	1		138	N	
8	4/2/92	3	1		127	N	
8	4/2/92	4	1		115	N	
8	4/2/92	5	1		113	N	
8	4/2/92	6	1		113	N	
8	4/2/92	7	1		112	N	
8	4/2/92	8	1		111	N	
8	5/14/92	1	1		155	Y	J 8171355010
8	5/14/92	2	1		148	N	
8	5/14/92	3	1		137	N	
8	5/14/92	4	1		126	N	
8	5/14/92	5	1		122	N	
8	5/14/92	6	1		122	N	
8	5/14/92	7	1		122	N	
8	5/14/92	8	1		122	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	6/4/92	1	1		153	Y	J 8171320019
8	6/4/92	2	1		147	N	
8	6/4/92	3	1		136	N	
8	6/4/92	4	1		125	N	
8	6/4/92	5	1		123	N	
8	6/4/92	6	1		122	N	
8	6/4/92	7	1		122	N	
8	6/4/92	8	1		123	N	
8	7/1/92	1	1		156	Y	817-13-20-019
8	7/1/92	2	1		149	N	
8	7/1/92	3	1		138	N	
8	7/1/92	4	1		127	N	
8	7/1/92	5	1		123	N	
8	7/1/92	6	1		123	N	
8	7/1/92	7	1		123	N	
8	7/1/92	8	1		122	N	
8	8/7/92	2	1		153.5	N	
8	8/7/92	3	1		142.9	N	
8	8/7/92	4	1		132.3	N	
8	8/7/92	5	1		128.6	N	
8	8/7/92	6	1		128.1	N	
8	8/7/92	7	1		130.9	N	
8	8/7/92	8	1		128	N	
8	9/3/92	1	1		159.2	Y	J 128-9042212
8	9/3/92	2	1		152.1	N	
8	9/3/92	3	1		141.5	N	
8	9/3/92	4	1		131.1	N	
8	9/3/92	5	1		127.6	N	
8	9/3/92	6	1		127.1	N	
8	9/3/92	7	1		126.9	N	
8	9/3/92	8	1		126.6	N	
8	10/8/92	1	1		162	Y	
8	10/8/92	2	1		155	N	
8	10/8/92	3	1		144	N	
8	10/8/92	4	1		133	N	
8	10/8/92	5	1		129	N	
8	10/8/92	6	1		128	N	
8	10/8/92	7	1		128	N	
8	10/8/92	8	1		128	N	
8	11/5/92	1	1		156	Y	J 817-13-20-019
8	11/5/92	2	1		149	N	
8	11/5/92	3	1		139	N	
8	11/5/92	4	1		130	N	
8	11/5/92	5	1		124	N	
8	11/5/92	6	1		124	N	
8	11/5/92	7	1		124	N	
8	11/5/92	8	1		123	N	
8	12/4/92	1	1		156	Y	J 817-13-20-019
8	12/4/92	2	1		148	N	
8	12/4/92	3	1		137	N	
8	12/4/92	4	1		126	N	
8	12/4/92	5	1		122	N	
8	12/4/92	6	1		122	N	
8	12/4/92	7	1		122	N	
8	12/4/92	8	1		121	N	
8	1/5/93	1	1		158	Y	817-13-20-019
8	1/5/93	2	1		153	N	
8	1/5/93	3	1		141	N	
8	1/5/93	4	1		129	N	
8	1/5/93	5	1		125	N	
8	1/5/93	6	1		125	N	
8	1/5/93	7	1		125	N	
8	1/5/93	8	1		125	N	
8	2/2/93	1	1		150	Y	817-13-20-019
8	2/2/93	2	1		143	N	
8	2/2/93	3	1		132	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	2/2/93	4	1		121	N	
8	2/2/93	5	1		118	N	
8	2/2/93	6	1		117	N	
8	2/2/93	7	1		117	N	
8	2/2/93	8	1		116	N	
8	3/3/93	1	1		157	Y	817-13-20-019
8	3/3/93	2	1		149	N	
8	3/3/93	3	1		138	N	
8	3/3/93	4	1		126	N	
8	3/3/93	5	1		122	N	
8	3/3/93	6	1		121	N	
8	3/3/93	7	1		121	N	
8	3/3/93	8	1		122	N	
8	4/8/93	1	1		150	Y	J 817-13-20-019
8	4/8/93	2	1		143	N	
8	4/8/93	3	1		132	N	
8	4/8/93	4	1		121	N	
8	4/8/93	5	1		118	N	
8	4/8/93	6	1		117	N	
8	4/8/93	7	1		117	N	
8	4/8/93	8	1		117	N	
8	5/6/93	1	1		148	Y	I 817132019
8	5/6/93	2	1		136	N	
8	5/6/93	3	1		127	N	
8	5/6/93	4	1		117	N	
8	5/6/93	5	1		117	N	
8	5/6/93	6	1		117	N	
8	5/6/93	7	1		117	N	
8	5/6/93	8	1		117	N	
8	6/3/93	1	1		150	Y	817-13-20-019
8	6/3/93	2	1		143	N	
8	6/3/93	3	1		133	N	
8	6/3/93	4	1		123	N	
8	6/3/93	5	1		120	N	
8	6/3/93	6	1		119	N	
8	6/3/93	7	1		119	N	
8	6/3/93	8	1		119	N	
8	6/18/93	1	1		155.7	Y	910126143-32
8	6/18/93	2	1		148.5	N	
8	6/18/93	3	1		138	N	
8	6/18/93	4	1		127.2	N	
8	6/18/93	5	1		123.6	N	
8	6/18/93	6	1		123.2	N	
8	6/18/93	7	1		123	N	
8	6/18/93	8	1		122.9	N	
8	7/1/93	1	1		154.7	Y	890423320-42
8	7/1/93	2	1		147.7	N	
8	7/1/93	3	1		137.4	N	
8	7/1/93	4	1		126.8	N	
8	7/1/93	5	1		123.3	N	
8	7/1/93	6	1		122.8	N	
8	7/1/93	7	1		122.5	N	
8	7/1/93	8	1		122.3	N	
8	8/5/93	1	1		156.3	Y	890423320-42
8	8/5/93	1	2		153	Y	817-13-20-019
8	8/5/93	2	1		149.6	N	
8	8/5/93	2	2		147	N	
8	8/5/93	3	1		139.6	N	
8	8/5/93	3	2		137	N	
8	8/5/93	4	1		129.3	N	
8	8/5/93	4	2		127	N	
8	8/5/93	5	1		125.5	N	
8	8/5/93	5	2		123	N	
8	8/5/93	6	1		124.7	N	
8	8/5/93	6	2		123	N	
8	8/5/93	7	1		124.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	8/5/93	7	2		122	N	
8	8/5/93	8	1		123.7	N	
8	8/5/93	8	2		122	N	
8	9/3/93	2	1		154.1	N	
8	9/3/93	3	1		143.7	N	
8	9/3/93	4	1		133.4	N	
8	9/3/93	5	1		129.5	N	
8	9/3/93	6	1		128.8	N	
8	9/3/93	7	1		128	N	
8	9/3/93	8	1		127.7	N	
8	9/4/93	1	1		156.3	Y	TI-045
8	9/4/93	2	1		149.7	N	
8	9/4/93	3	1		139.4	N	
8	9/4/93	4	1		129.1	N	
8	9/4/93	5	1		125.5	N	
8	9/4/93	6	1		124.9	N	
8	9/4/93	7	1		124.7	N	
8	9/4/93	8	1		124.6	N	
8	10/5/93	1	1		159.5	Y	J 910126143-48
8	10/5/93	2	1		152.6	N	
8	10/5/93	3	1		142.2	N	
8	10/5/93	4	1		131.6	N	
8	10/5/93	5	1		127.9	N	
8	10/5/93	6	1		127.5	N	
8	10/5/93	7	1		127.3	N	
8	10/5/93	8	1		127.4	N	
8	10/11/93	1	1		160.3	Y	J 910126143-48
8	10/11/93	2	1		153.2	N	
8	10/11/93	3	1		142.4	N	
8	10/11/93	4	1		131.4	N	
8	10/11/93	5	1		127.8	N	
8	10/11/93	6	1		127.4	N	
8	10/11/93	7	1		127.2	N	
8	10/11/93	8	1		127.3	N	
8	10/18/93	1	1		148.3	Y	910126143-14 TC 2,4 O/S
8	10/18/93	3	1		145.5	N	
8	10/18/93	5	1		138.7	N	
8	10/18/93	6	1		134.8	N	
8	10/18/93	7	1		130.7	N	
8	10/18/93	8	1		126.6	N	
8	11/1/93	1	1		160.2	Y	910126143-29
8	11/1/93	2	1		153.1	N	
8	11/1/93	3	1		142.2	N	
8	11/1/93	4	1		130.9	N	
8	11/1/93	5	1		127.2	N	
8	11/1/93	6	1		126.7	N	
8	11/1/93	7	1		126.6	N	
8	11/1/93	8	1		126.7	N	
8	11/29/93	1	1		161.5	Y	91012614329
8	11/29/93	2	1		154.5	N	
8	11/29/93	3	1		143.8	N	
8	11/29/93	4	1		132.9	N	
8	11/29/93	5	1		129.6	N	
8	11/29/93	6	1		129.3	N	
8	11/29/93	7	1		129	N	
8	11/29/93	8	1		129.2	N	
8	12/2/93	1	1		161.3	Y	J 910126143-29
8	12/2/93	2	1		154.3	N	
8	12/2/93	3	1		143.7	N	
8	12/2/93	4	1		132.9	N	
8	12/2/93	5	1		129.4	N	
8	12/2/93	6	1		129.2	N	
8	12/2/93	7	1		129	N	
8	12/2/93	8	1		128.8	N	
8	12/21/93	1	1		162	Y	910126143-29
8	12/21/93	2	1		154.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	12/21/93	2	2		164.7	N	
8	12/21/93	3	1		144.2	N	
8	12/21/93	3	2		143.9	N	
8	12/21/93	4	1		133	N	
8	12/21/93	4	2		132.8	N	
8	12/21/93	5	1		129.4	N	
8	12/21/93	5	2		120.2	N	
8	12/21/93	6	1		129	N	
8	12/21/93	6	2		128.9	N	
8	12/21/93	7	1		128.7	N	
8	12/21/93	7	2		128.6	N	
8	12/21/93	8	1		128.8	N	
8	12/21/93	8	2		128.7	N	
8	12/22/93	1	1		161.7	Y	910126143-29
8	12/22/93	2	1		154.9	N	
8	12/22/93	3	1		144.3	N	
8	12/22/93	4	1		133.3	N	
8	12/22/93	5	1		129.8	N	
8	12/22/93	6	1		129.5	N	
8	12/22/93	7	1		129.3	N	
8	12/22/93	8	1		129.9	N	
8	12/28/93	1	1		161.8	Y	910126143-29
8	12/28/93	2	1		154.8	N	
8	12/28/93	3	1		143.8	N	
8	12/28/93	4	1		132.8	N	
8	12/28/93	5	1		129.2	N	
8	12/28/93	6	1		128.8	N	
8	12/28/93	7	1		128.7	N	
8	12/28/93	8	1		128.6	N	
8	12/29/93	1	1		162	Y	910126143-29
8	12/29/93	1	2		161.7	Y	910126143-29
8	12/29/93	1	3		162.6	Y	J 910126143-32
8	12/29/93	1	4		162.5	Y	J 91012614332
8	12/29/93	2	1		154.9	N	
8	12/29/93	2	2		154.9	N	
8	12/29/93	2	3		155.5	N	
8	12/29/93	2	4		155.5	N	
8	12/29/93	3	1		144.1	N	
8	12/29/93	3	2		144.2	N	
8	12/29/93	3	3		144.6	N	
8	12/29/93	3	4		144.6	N	
8	12/29/93	4	1		133.1	N	
8	12/29/93	4	2		132.9	N	
8	12/29/93	4	3		133.3	N	
8	12/29/93	4	4		133.4	N	
8	12/29/93	5	1		129.5	N	
8	12/29/93	5	2		129.2	N	
8	12/29/93	5	3		129.8	N	
8	12/29/93	5	4		129.7	N	
8	12/29/93	6	1		129	N	
8	12/29/93	6	2		128.9	N	
8	12/29/93	6	3		129.3	N	
8	12/29/93	6	4		129.3	N	
8	12/29/93	7	1		128.8	N	
8	12/29/93	7	2		128.8	N	
8	12/29/93	7	3		129.2	N	
8	12/29/93	7	4		129.1	N	
8	12/29/93	8	1		128.8	N	
8	12/29/93	8	2		128.9	N	
8	12/29/93	8	3		129.1	N	
8	12/29/93	8	4		129.2	N	
8	12/30/93	1	1		162.8	Y	910126143-32
8	12/30/93	2	1		155.7	N	
8	12/30/93	3	1		144.8	N	
8	12/30/93	4	1		133.4	N	
8	12/30/93	5	1		129.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-112							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/30/93	6	1		129.4	N	
8	12/30/93	7	1		129.2	N	
8	12/30/93	8	1		129.3	N	
8	12/31/93	1	1		161.6	Y	910126143-32
8	12/31/93	2	1		154.6	N	
8	12/31/93	3	1		143.8	N	
8	12/31/93	4	1		132.6	N	
8	12/31/93	5	1		128.8	N	
8	12/31/93	6	1		128.4	N	
8	12/31/93	7	1		128.4	N	
8	12/31/93	8	1		128.2	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994 and TK-112-SX data sheets.

TANK 241-SX-113							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	12/13/77	1			78		
1	12/13/77	2			78		
1	12/13/77	3			79		
1	12/13/77	4			79		
1	12/13/77	5			79		
1	12/13/77	6			79		
1	12/13/77	7			79		
1	12/13/77	8			79		
1	12/13/77	9			79		
1	12/13/77	10			79		
1	12/13/77	11			79		
1	12/13/77	12			79		
1	12/15/77	1			88		
1	12/15/77	2			88		
1	12/15/77	3			88		
1	12/15/77	4			88		
1	12/15/77	5			88		
1	12/15/77	6			88		
1	12/15/77	8			88		
1	12/15/77	9			88		
1	12/15/77	10			88		
1	12/15/77	11			88		
1	12/15/77	12			88		
1	1/8/78	1			94		
1	1/8/78	2			93		
1	1/8/78	3			92		
1	1/8/78	4			92		
1	1/8/78	5			92		
1	1/8/78	6			92		
1	1/8/78	8			92		
1	1/8/78	9			92		
1	1/8/78	10			92		
1	1/8/78	11			92		
1	2/2/78	1			83		
1	2/2/78	2			82		
1	2/2/78	3			82		
1	2/2/78	4			82		
1	2/2/78	5			82		
1	2/2/78	6			82		
1	2/2/78	7			83		
1	2/2/78	8			81		
1	2/2/78	9			81		
1	2/2/78	10			82		
1	2/2/78	11			82		
1	3/9/78	1			80		
1	3/9/78	2			80		
1	3/9/78	3			80		
1	3/9/78	4			80		
1	3/9/78	5			80		
1	3/9/78	6			80		
1	3/9/78	9			81		
1	3/9/78	10			82		
1	3/9/78	11			80		
1	5/3/80	1			66		
1	5/3/80	2			66		
1	5/3/80	3			66		
1	5/3/80	4			61		
1	5/3/80	7			88		
1	5/3/80	8			67		
1	5/3/80	9			66		
1	2/14/84	1			81		
1	2/14/84	2			81		
1	2/14/84	3			81		
1	2/14/84	4			81		
1	2/14/84	5			80		
1	2/14/84	6			81		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-113							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	2/14/84	7			81		
1	2/14/84	8			81		
1	2/14/84	9			80		
1	2/14/84	10			80		
1	2/14/84	11			80		
1	2/14/84	12			80		
1	2/14/84	13			80		
1	2/14/84	14			80		
1	2/14/84	15			80		
1	2/14/84	16			80		
1	1/6/89	1	1		80.6	N	
1	1/6/89	2	1		80.7	N	
1	1/6/89	3	1		80.8	N	
1	1/6/89	4	1		80.8	N	
1	1/6/89	5	1		80.8	N	
1	1/6/89	6	1		80.9	N	
1	1/6/89	8	1		80.9	N	
1	1/6/89	9	1		81	Y	
1	1/6/89	10	1		80.9	N	
1	1/6/89	11	1		80.9	N	
1	1/6/89	12	1		80.9	N	
1	1/6/89	13	1		80.9	N	
1	1/6/89	14	1		80.8	N	
1	1/6/89	15	1		80.8	N	
1	1/6/89	16	1		80.7	N	
1	1/6/89	17	1		80.5	N	
1	1/6/89	18	1		80	N	
1	7/3/89	1	1		80.2	N	
1	7/3/89	2	1		80	N	
1	7/3/89	3	1		80.3	N	
1	7/3/89	4	1		80.4	N	
1	7/3/89	5	1		80.4	N	
1	7/3/89	6	1		80	N	
1	7/3/89	8	1		79.9	Y	
1	7/3/89	9	1		79.8	N	
1	7/3/89	10	1		79.4	N	
1	7/3/89	11	1		79.4	N	
1	7/3/89	12	1		79.2	N	
1	7/3/89	13	1		79.2	N	
1	7/3/89	14	1		79	N	
1	7/3/89	15	1		78.9	N	
1	7/3/89	16	1		78.7	N	
1	11/14/91	1	1		78.6	N	J-890423320-42 TC #7 O/S
1	11/14/91	2	1		79	N	
1	11/14/91	3	1		79.1	Y	
1	11/14/91	4	1		78.9	N	
1	11/14/91	5	1		78.9	N	
1	11/14/91	6	1		78.9	N	
1	11/14/91	8	1		79	N	
1	11/14/91	9	1		79	N	
1	11/14/91	10	1		79	N	
1	11/14/91	11	1		79	N	
1	11/14/91	12	1		78.9	N	
1	11/14/91	13	1		78.9	N	
1	11/14/91	14	1		78.9	N	
1	11/14/91	15	1		78.8	N	
1	11/14/91	16	1		78.8	N	
1	11/14/91	17	1		78.7	N	
1	11/14/91	18	1		78.6	N	
1	1/1/92	1	1		80.1	N	J-890523512-20 TC #7 O/S
1	1/1/92	2	1		80	N	
1	1/1/92	3	1		80.1	N	
1	1/1/92	4	1		80.1	N	
1	1/1/92	5	1		80.1	N	
1	1/1/92	6	1		80.1	N	
1	1/1/92	8	1		80.4	Y	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-113							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	1/1/92	9	1		80.3	N	
1	1/1/92	10	1		80.3	N	
1	1/1/92	11	1		80.2	N	
1	1/1/92	12	1		80.2	N	
1	1/1/92	13	1		80.2	N	
1	1/1/92	14	1		80.2	N	
1	1/1/92	15	1		80.1	N	
1	1/1/92	16	1		80.1	N	
1	1/1/92	17	1		79.7	N	
1	1/1/92	18	1		79.7	N	
1	7/4/92	1	1		74.4	N	J 890523512-47
1	7/4/92	2	1		74.4	N	
1	7/4/92	3	1		74.4	N	
1	7/4/92	4	1		74.2	N	
1	7/4/92	5	1		74.1	N	
1	7/4/92	6	1		74.1	N	
1	7/4/92	8	1		74.1	N	
1	7/4/92	9	1		74.2	N	
1	7/4/92	10	1		74.3	N	
1	7/4/92	11	1		74.4	N	TC#7 BAD
1	7/4/92	12	1		74.4	N	
1	7/4/92	13	1		74.5	Y	
1	7/4/92	14	1		74.5	N	
1	7/4/92	15	1		74.5	N	
1	7/4/92	16	1		74.5	N	
1	2/13/93	1	1		75	Y	J 910126143-42
1	2/13/93	2	1		75	N	
1	2/13/93	3	1		75	N	
1	2/13/93	4	1		75	N	
1	2/13/93	5	1		75	N	
1	2/13/93	6	1		75	N	
1	2/13/93	8	1		74.9	N	
1	2/13/93	9	1		74.9	N	
1	2/13/93	10	1		74.9	N	
1	2/13/93	11	1		74.8	N	
1	2/13/93	12	1		74.8	N	
1	2/13/93	13	1		74.8	N	
1	2/13/93	14	1		74.7	N	
1	2/13/93	15	1		74.6	N	
1	2/13/93	16	1		74.5	N	
1	7/2/93	1	1		73.7	Y	J 890423320-42
1	7/2/93	2	1		73.5	N	
1	7/2/93	3	1		73.4	N	
1	7/2/93	4	1		73.3	N	
1	7/2/93	5	1		73.2	N	
1	7/2/93	6	1		73.2	N	
1	7/2/93	7	1		76.4	N	
1	7/2/93	8	1		73.4	N	
1	7/2/93	9	1		73.7	N	
1	7/2/93	10	1		74	N	
1	7/2/93	11	1		74.2	N	
1	7/2/93	12	1		74.3	N	
1	7/2/93	13	1		74.4	N	
1	7/2/93	14	1		74.4	N	
1	7/2/93	15	1		74.3	N	
1	7/2/93	16	1		74.2	N	
1	12/21/93	1	1		N	J 9	10126143-29 TC 1 THRU 6 O/S

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP
1	12/1/75	1			243	
1	12/1/75	2			217	
1	12/1/75	3			178	
1	12/1/75	4			151	
1	2/1/76	1			231	
1	2/1/76	2			204	
1	2/1/76	3			166	
1	2/1/76	4			123	
1	7/1/77	1			234	
1	7/1/77	2			213	
1	7/1/77	3			182	
1	7/1/77	4			146	
1	8/1/77	1			235	
1	8/1/77	2			214	
1	8/1/77	3			183	
1	8/1/77	4			149	
1	9/9/77	1			228	
1	9/9/77	2			217	
1	9/9/77	3			186	
1	9/9/77	4			150	
1	9/16/77	1			238	
1	9/16/77	2			217	
1	9/16/77	3			186	
1	9/16/77	4			150	
1	9/19/77	1			238	
1	9/19/77	2			217	
1	9/19/77	3			186	
1	9/19/77	4			156	
1	9/22/77	1			237	
1	9/22/77	2			216	
1	9/22/77	3			185	
1	9/22/77	4			150	
1	9/24/77	1			238	
1	9/24/77	2			217	
1	9/24/77	3			186	
1	9/24/77	4			151	
1	10/3/77	1			237	
1	10/3/77	2			218	
1	10/3/77	3			187	
1	10/3/77	4			147	
1	1/1/89	3	1		167	N
1	3/1/89	2	1		188	Y
1	3/1/89	3	1		162	N
1	4/21/89	3	1		161	N
1	5/6/89	3	1		173	N
1	5/13/89	2	1		187	Y
1	5/13/89	3	1		173	N
1	6/4/89	2	1		185	Y
1	6/4/89	3	1		157	N
1	6/12/89	3	1		182	N
1	6/13/89	1	1		199.3	Y
1	6/13/89	2	1		193.4	N
1	6/13/89	3	1		183.9	N
1	6/13/89	4	1		178.1	N
1	6/13/89	5	1		160.4	N
1	6/13/89	6	1		148.8	N
1	6/13/89	7	1		138.7	N
1	6/13/89	8	1		126.6	N
1	7/20/89	1	1		199.3	Y
1	7/20/89	2	1		193.4	N
1	7/20/89	3	1		183.9	N
1	7/20/89	4	1		178.1	N
1	7/20/89	5	1		160.4	N
1	7/20/89	6	1		148.8	N
1	7/20/89	7	1		138.7	N
1	7/20/89	8	1		126.6	N

Currently taken by Maint. Eng. Services

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/5/89	1	1		200	Y	Special Request - Work Order
1	12/5/89	2	1		195	N	
1	12/5/89	3	1		186	N	
1	12/5/89	4	1		176	N	
1	12/5/89	5	1		162	N	
1	12/5/89	6	1		138	N	
1	12/5/89	7	1		138	N	
1	12/5/89	8	1		126	N	
1	1/28/92	1	1			N	ACCESS RESTRICTED 1/28 - 2/22 DUE TO BATTERY FUME INCIDENT
2	12/1/75	1			235		
2	12/1/75	2			216		
2	12/1/75	3			180		
2	12/1/75	4			138		
2	2/1/76	1			224		
2	2/1/76	2			204		
2	2/1/76	3			170		
2	2/1/76	4			130		
2	7/1/77	1			225		
2	7/1/77	2			210		
2	7/1/77	3			182		
2	7/1/77	4			151		
2	8/1/77	1			226		
2	8/1/77	2			211		
2	8/1/77	3			184		
2	8/1/77	4			153		
2	9/9/77	1			229		
2	9/9/77	2			214		
2	9/9/77	3			186		
2	9/9/77	4			154		
2	9/16/77	1			229		
2	9/16/77	2			214		
2	9/16/77	3			186		
2	9/16/77	4			154		
2	9/19/77	1			229		
2	9/19/77	2			214		
2	9/19/77	3			186		
2	9/19/77	4			153		
2	9/22/77	1			228		
2	9/22/77	2			219		
2	9/22/77	3			185		
2	9/22/77	4			153		
2	9/24/77	1			229		
2	9/24/77	2			214		
2	9/24/77	3			186		
2	9/24/77	4			154		
2	10/3/77	1			230		
2	10/3/77	2			215		
2	10/3/77	3			187		
2	10/3/77	4			153		
2	8/14/89	1	1		195.5	Y	Currently taken by Maint. Eng. Services
2	8/14/89	2	1		192.7	N	
2	8/14/89	3	1		186.6	N	
2	8/14/89	4	1		179	N	
2	8/14/89	5	1		166.5	N	
2	8/14/89	6	1		158.1	N	
2	8/14/89	7	1		147.2	N	
2	8/14/89	8	1		135.1	N	
2	9/6/89	1	1		199.7	Y	
2	9/6/89	2	1		197	N	
2	9/6/89	3	1		190.3	N	
2	9/6/89	4	1		182.3	N	
2	9/6/89	5	1		170.9	N	
2	9/6/89	6	1		160	N	
2	9/6/89	7	1		148	N	
2	9/6/89	8	1		136	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	10/16/89	1	1		201.9	Y	Currently taken by Maint. Eng. Services
2	10/16/89	2	1		199.4	N	
2	10/16/89	3	1		192.8	N	
2	10/16/89	4	1		184.7	N	
2	10/16/89	5	1		172	N	
2	10/16/89	6	1		162.3	N	
2	10/16/89	7	1		150.1	N	
2	10/16/89	8	1		135.5	N	
2	11/6/89	1	1		198.6	Y	Currently taken by Maint. Eng. Services
2	11/6/89	2	1		195.5	N	
2	11/6/89	3	1		188.1	N	
2	11/6/89	4	1		179.6	N	
2	11/6/89	5	1		167.5	N	
2	11/6/89	6	1		156.3	N	
2	11/6/89	7	1		143.6	N	
2	11/6/89	8	1		130.1	N	
2	12/5/89	1	1		192	Y	
2	12/5/89	1	2		192	N	
2	12/5/89	2	1		189	N	
2	12/5/89	2	2		189	N	
2	12/5/89	3	1		182	N	
2	12/5/89	3	2		182	N	
2	12/5/89	4	1		174	N	
2	12/5/89	4	2		174	N	
2	12/5/89	5	1		163	N	
2	12/5/89	5	2		163	N	
2	12/5/89	6	1		152	N	
2	12/5/89	6	2		152	N	
2	12/5/89	7	1		140	N	
2	12/5/89	7	2		140	N	
2	12/5/89	8	1		127	N	
2	12/5/89	8	2		127	N	
2	1/3/90	1	1		193	Y	
2	1/3/90	2	1		190	N	
2	1/3/90	3	1		183	N	
2	1/3/90	4	1		175	N	
2	1/3/90	5	1		163	N	
2	1/3/90	6	1		153	N	
2	1/3/90	7	1		140	N	
2	1/3/90	8	1		128	N	
2	2/1/90	1	1		192	Y	
2	2/1/90	2	1		189	N	
2	2/1/90	3	1		182	N	
2	2/1/90	4	1		173	N	
2	2/1/90	5	1		161	N	
2	2/1/90	6	1		150	N	
2	2/1/90	7	1		136	N	
2	2/1/90	8	1		123	N	
2	3/8/90	1	1		189	Y	
2	3/8/90	2	1		186	N	
2	3/8/90	3	1		179	N	
2	3/8/90	4	1		169	N	
2	3/8/90	5	1		157	N	
2	3/8/90	6	1		145	N	
2	3/8/90	7	1		133	N	
2	3/8/90	8	1		119	N	
2	4/3/90	1	1		185	Y	
2	4/3/90	2	1		182	N	
2	4/3/90	3	1		174	N	
2	4/3/90	4	1		166	N	
2	4/3/90	5	1		154	N	
2	4/3/90	6	1		143	N	
2	4/3/90	7	1		131	N	
2	4/3/90	8	1		118	N	
2	5/3/90	1	1		185	Y	
2	5/3/90	2	1		182	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	5/3/90	3	1		175	N	
2	5/3/90	4	1		166	N	
2	5/3/90	5	1		154	N	
2	5/3/90	6	1		144	N	
2	5/3/90	7	1		132	N	
2	5/3/90	8	1		119	N	
2	6/7/90	1	1		186	Y	
2	6/7/90	2	1		183	N	
2	6/7/90	3	1		176	N	
2	6/7/90	4	1		168	N	
2	6/7/90	5	1		156	N	
2	6/7/90	6	1		146	N	
2	6/7/90	7	1		134	N	
2	6/7/90	8	1		122	N	
2	7/3/90	1	1		185	Y	
2	7/3/90	2	1		182	N	
2	7/3/90	3	1		175	N	
2	7/3/90	4	1		167	N	
2	7/3/90	5	1		156	N	
2	7/3/90	6	1		146	N	
2	7/3/90	7	1		134	N	
2	7/3/90	8	1		123	N	
2	8/2/90	1	1		183	Y	
2	8/2/90	2	1		180	N	
2	8/2/90	3	1		174	N	
2	8/2/90	4	1		167	N	
2	8/2/90	5	1		156	N	
2	8/2/90	6	1		147	N	
2	8/2/90	7	1		136	N	
2	8/2/90	8	1		125	N	
2	9/6/90	1	1		185	Y	
2	9/6/90	2	1		183	N	
2	9/6/90	3	1		176	N	
2	9/6/90	4	1		169	N	
2	9/6/90	5	1		158	N	
2	9/6/90	6	1		148	N	
2	9/6/90	7	1		137	N	
2	9/6/90	8	1		126	N	
2	10/2/90	1	1		190	Y	
2	10/2/90	2	1		187	N	
2	10/2/90	3	1		181	N	
2	10/2/90	4	1		173	N	
2	10/2/90	5	1		162	N	
2	10/2/90	6	1		153	N	
2	10/2/90	7	1		141	N	
2	10/2/90	8	1		129	N	
2	11/13/90	1	1		189	Y	
2	11/13/90	2	1		186	N	
2	11/13/90	3	1		180	N	
2	11/13/90	4	1		171	N	
2	11/13/90	5	1		159	N	
2	11/13/90	6	1		149	N	
2	11/13/90	7	1		137	N	
2	11/13/90	8	1		124	N	
2	12/5/90	1	1		200	Y	
2	12/5/90	2	1		183.7	N	
2	12/5/90	3	1		176.6	N	
2	12/5/90	4	1		167.7	N	
2	12/5/90	5	1		155.5	N	
2	12/5/90	6	1		144.2	N	
2	12/5/90	7	1		131.4	N	
2	12/5/90	8	1		118	N	
2	1/3/91	1	1		183.2	Y	
2	1/3/91	2	1		180.9	N	
2	1/3/91	3	1		175.4	N	
2	1/3/91	4	1		168.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	1/3/91	5	1		157.5	N	
2	1/3/91	6	1		146.4	N	
2	1/3/91	7	1		133.2	N	
2	1/3/91	8	1		119.4	N	
2	2/20/91	1	1		193.9	Y	
2	2/20/91	2	1		180.8	N	
2	2/20/91	3	1		173.4	N	
2	2/20/91	4	1		164	N	
2	2/20/91	5	1		152	N	
2	2/20/91	6	1		140.6	N	
2	2/20/91	7	1		127.5	N	
2	2/20/91	8	1		114.9	N	
2	3/14/91	1	1		182.9	Y	
2	3/14/91	2	1		179.4	N	
2	3/14/91	3	1		171.9	N	
2	3/14/91	4	1		163.1	N	
2	3/14/91	5	1		151.4	N	
2	3/14/91	6	1		140.4	N	
2	3/14/91	7	1		128.2	N	
2	3/14/91	8	1		115	N	
2	4/17/91	1	1		181.3	Y	
2	4/17/91	2	1		177.9	N	
2	4/17/91	3	1		170.6	N	
2	4/17/91	4	1		162.1	N	
2	4/17/91	5	1		150.4	N	
2	4/17/91	6	1		139.9	N	
2	4/17/91	7	1		127.7	N	
2	4/17/91	8	1		115.4	N	
2	5/2/91	1	1		179.6	Y	
2	5/2/91	2	1		179.6	N	
2	5/2/91	3	1		169.6	N	
2	5/2/91	4	1		168.8	N	
2	5/2/91	5	1		149.9	N	
2	5/2/91	6	1		139.4	N	
2	5/2/91	7	1		128	N	
2	5/2/91	8	1		115.6	N	
2	6/14/91	1	1		182.8	Y	
2	6/14/91	2	1		179.8	N	
2	6/14/91	3	1		173.7	N	
2	6/14/91	4	1		166	N	
2	6/14/91	5	1		155.2	N	
2	6/14/91	6	1		145.8	N	
2	6/14/91	7	1		135.4	N	
2	6/14/91	8	1		124.2	N	
2	7/19/91	1	1		193	Y	
2	7/19/91	2	1		181.4	N	
2	7/19/91	3	1		175.3	N	
2	7/19/91	4	1		167.8	N	
2	7/19/91	5	1		157.9	N	
2	7/19/91	6	1		148.5	N	
2	7/19/91	7	1		138	N	
2	7/19/91	8	1		127.1	N	
2	8/15/91	1	1		185.2	Y	
2	8/15/91	2	1		182.6	N	
2	8/15/91	3	1		176.6	N	
2	8/15/91	4	1		169.5	N	
2	8/15/91	5	1		159.9	N	
2	8/15/91	6	1		150.8	N	
2	8/15/91	7	1		140.4	N	
2	8/15/91	8	1		129.5	N	
2	9/5/91	1	1		187.5	Y	817-13-55-008 Omega
2	9/5/91	2	1		184.8	N	
2	9/5/91	3	1		178.9	N	
2	9/5/91	4	1		171.7	N	
2	9/5/91	5	1		162	N	
2	9/5/91	6	1		152.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	9/5/91	7	1		142.3	N	
2	9/5/91	8	1		131.2	N	
2	10/7/91	1	1		189.5	Y	J-817-13-35-008
2	10/7/91	2	1		186.5	N	
2	10/7/91	3	1		181	N	
2	10/7/91	4	1		173.6	N	
2	10/7/91	5	1		163.9	N	
2	10/7/91	6	1		154.4	N	
2	10/7/91	7	1		143.9	N	
2	10/7/91	8	1		132.9	N	
2	11/10/91	1	1		192.4	Y	J-817-13-55-008
2	11/10/91	2	1		189.5	N	
2	11/10/91	3	1		183.4	N	
2	11/10/91	4	1		175.6	N	
2	11/10/91	5	1		165.4	N	
2	11/10/91	6	1		155.3	N	
2	11/10/91	7	1		143.5	N	
2	11/10/91	8	1		131.6	N	
2	12/6/91	1	1		191	Y	J-817-13-55-008
2	12/6/91	2	1		188	N	
2	12/6/91	3	1		181	N	
2	12/6/91	4	1		173	N	
2	12/6/91	5	1		162	N	
2	12/6/91	6	1		152	N	
2	12/6/91	7	1		140	N	
2	12/6/91	8	1		128	N	
2	1/17/92	1	1		191.5	Y	J-817-13-55-008
2	1/17/92	2	1		188	N	
2	1/17/92	3	1		181.4	N	
2	1/17/92	4	1		172.9	N	
2	1/17/92	5	1		161.6	N	
2	1/17/92	6	1		151.1	N	
2	1/17/92	7	1		139.1	N	
2	1/17/92	8	1		126.2	N	
2	2/21/92	1	1		187	Y	J-817-13-20-019
2	2/21/92	2	1		185	N	
2	2/21/92	4	1		171	N	
2	2/21/92	5	1		158	N	
2	2/21/92	6	1		148	N	
2	2/21/92	7	1		137	N	
2	2/21/92	8	1		125	N	
2	3/5/92	1	1		187	Y	
2	3/5/92	2	1		184	N	
2	3/5/92	3	1		177	N	
2	3/5/92	4	1		170	N	
2	3/5/92	5	1		158	N	
2	3/5/92	6	1		148	N	
2	3/5/92	7	1		136	N	
2	3/5/92	8	1		124	N	
2	4/2/92	1	1		184	Y	J 8171355010
2	4/2/92	2	1		181	N	
2	4/2/92	3	1		174	N	
2	4/2/92	4	1		167	N	
2	4/2/92	5	1		156	N	
2	4/2/92	6	1		144	N	
2	4/2/92	7	1		135	N	
2	4/2/92	8	1		120	N	
2	4/5/92	1	1		187	Y	
2	4/5/92	2	1		184	N	
2	4/5/92	3	1		177	N	
2	4/5/92	4	1		170	N	
2	4/5/92	5	1		158	N	
2	4/5/92	6	1		148	N	
2	4/5/92	7	1		136	N	
2	4/5/92	8	1		124	N	
2	5/14/92	1	1		186	Y	J 8171355010

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	5/14/92	2	1		182	N	
2	5/14/92	3	1		176	N	
2	5/14/92	4	1		169	N	
2	5/14/92	5	1		158	N	
2	5/14/92	6	1		148	N	
2	5/14/92	7	1		137	N	
2	5/14/92	8	1		126	N	
2	6/4/92	1	1		185	Y	J 8171320019
2	6/4/92	2	1		182	N	
2	6/4/92	3	1		176	N	
2	6/4/92	4	1		169	N	
2	6/4/92	5	1		159	N	
2	6/4/92	6	1		149	N	
2	6/4/92	7	1		139	N	
2	6/4/92	8	1		128	N	
2	7/1/92	1	1		186	Y	C19950
2	7/1/92	2	1		183	N	
2	7/1/92	3	1		177	N	
2	7/1/92	4	1		169	N	
2	7/1/92	5	1		159	N	
2	7/1/92	6	1		150	N	
2	7/1/92	7	1		139	N	
2	7/1/92	8	1		129	N	
2	8/7/92	1	1		192.5	Y	J 817-13-55-008
2	8/7/92	2	1		186.8	N	
2	8/7/92	3	1		180.9	N	
2	8/7/92	4	1		173.6	N	
2	8/7/92	5	1		163.9	N	
2	8/7/92	6	1		158.7	N	
2	8/7/92	7	1		144.4	N	
2	8/7/92	8	1		133.4	N	
2	9/3/92	1	1		189	Y	J 128-9042212
2	9/3/92	2	1		186.7	N	
2	9/3/92	3	1		180.8	N	
2	9/3/92	4	1		173.5	N	
2	9/3/92	5	1		163.9	N	
2	9/3/92	6	1		154.6	N	
2	9/3/92	7	1		144.1	N	
2	9/3/92	8	1		133	N	
2	10/8/92	1	1		190	Y	
2	10/8/92	2	1		188	N	
2	10/8/92	3	1		182	N	
2	10/8/92	4	1		175	N	
2	10/8/92	5	1		164	N	
2	10/8/92	6	1		155	N	
2	10/8/92	7	1		144	N	
2	10/8/92	8	1		132	N	
2	11/5/92	1	1		183	Y	J 817-13-20-019
2	11/5/92	2	1		181	N	
2	11/5/92	3	1		175	N	
2	11/5/92	4	1		168	N	
2	11/5/92	5	1		158	N	
2	11/5/92	6	1		148	N	
2	11/5/92	7	1		127	N	
2	11/5/92	8	1		126	N	
2	12/4/92	1	1		184	Y	J 817-13-20-019
2	12/4/92	2	1		181	N	
2	12/4/92	3	1		175	N	
2	12/4/92	4	1		167	N	
2	12/4/92	5	1		157	N	
2	12/4/92	6	1		147	N	
2	12/4/92	7	1		135	N	
2	12/4/92	8	1		123	N	
2	1/5/93	1	1		190	Y	817-13-20-019
2	1/5/93	2	1		188	N	
2	1/5/93	3	1		181	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	1/5/93	4	1		173	N	
2	1/5/93	5	1		162	N	
2	1/5/93	6	1		151	N	
2	1/5/93	7	1		139	N	
2	1/5/93	8	1		125	N	
2	2/2/93	1	1		178	Y	817-13-20-019
2	2/2/93	2	1		177	N	
2	2/2/93	3	1		170	N	
2	2/2/93	4	1		162	N	
2	2/2/93	5	1		152	N	
2	2/2/93	6	1		142	N	
2	2/2/93	7	1		130	N	
2	2/2/93	8	1		118	N	
2	3/3/93	1	1		187	Y	817-13-20-019
2	3/3/93	2	1		184	N	
2	3/3/93	3	1		178	N	
2	3/3/93	4	1		169	N	
2	3/3/93	5	1		158	N	
2	3/3/93	6	1		147	N	
2	3/3/93	7	1		135	N	
2	3/3/93	8	1		122	N	
2	4/8/93	1	1		178	Y	J 817-13-20-019
2	4/8/93	2	1		175	N	
2	4/8/93	3	1		168	N	
2	4/8/93	4	1		161	N	
2	4/8/93	5	1		150	N	
2	4/8/93	6	1		141	N	
2	4/8/93	7	1		130	N	
2	4/8/93	8	1		118	N	
2	5/6/93	1	1		177	Y	I 817132019
2	5/6/93	2	1		175	N	
2	5/6/93	3	1		168	N	
2	5/6/93	4	1		161	N	
2	5/6/93	5	1		151	N	
2	5/6/93	6	1		141	N	
2	5/6/93	7	1		131	N	
2	5/6/93	8	1		120	N	
2	6/3/93	1	1		177	Y	817-13-20-019
2	6/3/93	2	1		175	N	
2	6/3/93	3	1		169	N	
2	6/3/93	4	1		161	N	
2	6/3/93	5	1		152	N	
2	6/3/93	6	1		122	N	
2	6/3/93	7	1		132	N	
2	6/3/93	8	1		142	N	
2	6/18/93	1	1		184.7	Y	910126143-32
2	6/18/93	2	1		182.3	N	
2	6/18/93	3	1		176.2	N	
2	6/18/93	4	1		168.8	N	
2	6/18/93	5	1		158.6	N	
2	6/18/93	6	1		126.6	N	
2	6/18/93	7	1		137.7	N	
2	6/18/93	8	1		148.2	N	
2	7/1/93	1	1		181.9	Y	890423320-42
2	7/1/93	2	1		178.7	N	
2	7/1/93	3	1		172.6	N	
2	7/1/93	4	1		165.3	N	
2	7/1/93	5	1		155.3	N	
2	7/1/93	6	1		123.9	N	
2	7/1/93	7	1		135	N	
2	7/1/93	8	1		145.5	N	
2	8/5/93	1	1		183.1	Y	890423320-42
2	8/5/93	1	2		178	Y	817-13-20-019
2	8/5/93	2	1		180.2	N	
2	8/5/93	2	2		175	N	
2	8/5/93	3	1		174.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
2	8/5/93	3	2		170	N	
2	8/5/93	4	1		167.9	N	
2	8/5/93	4	2		163	N	
2	8/5/93	5	1		158.3	N	
2	8/5/93	5	2		155	N	
2	8/5/93	6	1		128.1	N	
2	8/5/93	6	2		126	N	
2	8/5/93	7	1		138.9	N	
2	8/5/93	7	2		136	N	
2	8/5/93	8	1		149.4	N	
2	8/5/93	8	2		146	N	
2	9/3/93	2	1		185.3	N	
2	9/3/93	3	1		179.6	N	
2	9/3/93	4	1		172.8	N	
2	9/3/93	5	1		163.5	N	
2	9/3/93	6	1		132.3	N	
2	9/3/93	7	1		143.6	N	
2	9/3/93	8	1		154.2	N	
2	9/4/93	1	1		183.8	Y	TI-045
2	9/4/93	2	1		181.5	N	
2	9/4/93	3	1		175.9	N	
2	9/4/93	4	1		169.2	N	
2	9/4/93	5	1		159.9	N	
2	9/4/93	6	1		129.7	N	
2	9/4/93	7	1		140.5	N	
2	9/4/93	8	1		151.9	N	
2	10/5/93	1	1		188	Y	J 910126143-48
2	10/5/93	2	1		185.7	N	
2	10/5/93	3	1		179.8	N	
2	10/5/93	4	1		172.4	N	
2	10/5/93	5	1		162.2	N	
2	10/5/93	6	1		130.7	N	
2	10/5/93	7	1		142	N	
2	10/5/93	8	1		152.6	N	
2	10/11/93	1	1		189	Y	J 910126143-48
2	10/11/93	2	1		185.9	N	
2	10/11/93	3	1		180	N	
2	10/11/93	4	1		172.5	N	
2	10/11/93	5	1		162.2	N	
2	10/11/93	6	1		130.1	N	
2	10/11/93	7	1		142	N	
2	10/11/93	8	1		152.8	N	
2	10/18/93	1	1		185	Y	910126143-14
2	10/18/93	2	1		182	N	
2	10/18/93	3	1		176.4	N	
2	10/18/93	4	1		169.9	N	
2	10/18/93	5	1		160.7	N	
2	10/18/93	6	1		132	N	
2	10/18/93	7	1		142	N	
2	10/18/93	8	1		151.8	N	
2	11/1/93	1	1		189	Y	910126143-29
2	11/1/93	2	1		186.4	N	
2	11/1/93	3	1		180.4	N	
2	11/1/93	4	1		173.2	N	
2	11/1/93	5	1		162.7	N	
2	11/1/93	6	1		129.8	N	
2	11/1/93	7	1		142	N	
2	11/1/93	8	1		153.2	N	
2	11/29/93	1	1		190.5	Y	91012614329
2	11/29/93	2	1		187.8	N	
2	11/29/93	3	1		181.5	N	
2	11/29/93	4	1		173.9	N	
2	11/29/93	5	1		163.7	N	
2	11/29/93	6	1		133.6	N	
2	11/29/93	7	1		144.3	N	
2	11/29/93	8	1		154.7	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	12/2/93	1	1		187.9	Y	J 910126143-29
2	12/2/93	2	1		181.1	N	
2	12/2/93	3	1		171.4	N	
2	12/2/93	4	1		161.7	N	
2	12/2/93	5	1		151.6	N	
2	12/2/93	6	1		142	N	
2	12/2/93	7	1		133.2	N	
2	12/2/93	8	1		129.3	N	
2	12/21/93	1	1			N	910126143-29 TC 13 O/S
2	12/21/93	1	2		190.7	Y	J 910126143-29 TC 8 BAD DATA
2	12/21/93	2	1		188.3	Y	
2	12/21/93	2	2		188.2	N	
2	12/21/93	3	2		182.4	N	
2	12/21/93	4	1		182.5	N	
2	12/21/93	4	2		175.3	N	
2	12/21/93	5	1		175.4	N	
2	12/21/93	5	2		165.5	N	
2	12/21/93	6	1		165.6	N	
2	12/21/93	6	2		134.3	N	
2	12/21/93	7	1		134.5	N	
2	12/21/93	7	2		145.9	N	
2	12/21/93	8	1		146	N	
2	12/22/93	1	1		191.2	Y	910126143-29 (Double Checked)
2	12/22/93	2	1		188.3	N	
2	12/22/93	3	1		182.6	N	
2	12/22/93	4	1		175.6	N	
2	12/22/93	5	1		165.8	N	
2	12/22/93	6	1		135.6	N	
2	12/22/93	7	1		146.3	N	
2	12/22/93	8	1		156.7	N	
2	12/28/93	1	1		191	Y	910126143-29
2	12/28/93	2	1		188.5	N	
2	12/28/93	3	1		182.7	N	
2	12/28/93	4	1		175.5	N	
2	12/28/93	5	1		165.6	N	
2	12/28/93	6	1		135	N	
2	12/28/93	7	1		146.2	N	
2	12/28/93	8	1		156.6	N	
2	12/29/93	1	1		190	N	
2	12/29/93	1	2		192	Y	910126143-29
2	12/29/93	1	3		191.8	Y	J 910126143-32
2	12/29/93	1	4			N	J 91012614332 TC 1 O/S
2	12/29/93	2	1		183.6	N	
2	12/29/93	2	2		188.3	N	
2	12/29/93	2	3		189.3	N	
2	12/29/93	2	4		189.2	Y	
2	12/29/93	3	1		183.1	N	
2	12/29/93	3	2		182.7	N	
2	12/29/93	3	3		183.6	N	
2	12/29/93	3	4		183.5	N	
2	12/29/93	4	1		175.9	N	
2	12/29/93	4	2		175.6	N	
2	12/29/93	4	3		176.3	N	
2	12/29/93	4	4		176.3	N	
2	12/29/93	5	1		166	N	
2	12/29/93	5	2		166	N	
2	12/29/93	5	3		166.5	N	
2	12/29/93	5	4		166.4	N	
2	12/29/93	6	1		135	N	
2	12/29/93	6	2		134.5	N	
2	12/29/93	6	3		134.8	N	
2	12/29/93	6	4		134.5	N	
2	12/29/93	7	1		146.6	N	
2	12/29/93	7	2		146.3	N	
2	12/29/93	7	3		146.7	N	
2	12/29/93	7	4		146.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
2	12/29/93	8	1		157.3	N	
2	12/29/93	8	2		156.7	N	
2	12/29/93	8	3		157.5	N	
2	12/29/93	8	4		157.4	N	
2	12/30/93	1	1			N	910126143-32 TC 1 O/S
2	12/30/93	2	1		189.5	Y	
2	12/30/93	3	1		183.7	N	
2	12/30/93	4	1		176.5	N	
2	12/30/93	5	1		166.6	N	
2	12/30/93	6	1		134.4	N	
2	12/30/93	7	1		146.5	N	
2	12/30/93	8	1		157.6	N	
2	12/31/93	1	1		192	Y	910126143-32
2	12/31/93	2	1		188.6	N	
2	12/31/93	3	1		182.9	N	
2	12/31/93	4	1		176.1	N	
2	12/31/93	5	1		165.9	N	
2	12/31/93	6	1		133.2	N	
2	12/31/93	7	1		145.5	N	
2	12/31/93	8	1		156.7	N	
3	12/1/75	1			230		
3	12/1/75	2			210		
3	12/1/75	3			174		
3	12/1/75	4			128		
3	2/1/76	1			230		
3	2/1/76	2			198		
3	2/1/76	3			163		
3	2/1/76	4			121		
3	7/1/77	1			222		
3	7/1/77	2			206		
3	7/1/77	3			177		
3	7/1/77	4			144		
3	8/1/77	1			223		
3	8/1/77	2			207		
3	8/1/77	3			179		
3	8/1/77	4			146		
3	9/9/77	1			225		
3	9/9/77	2			210		
3	9/9/77	3			182		
3	9/9/77	4			147		
3	9/16/77	1			226		
3	9/16/77	2			210		
3	9/16/77	3			181		
3	9/16/77	4			147		
3	9/19/77	1			225		
3	9/19/77	2			209		
3	9/19/77	3			181		
3	9/19/77	4			147		
3	9/22/77	1			224		
3	9/22/77	2			209		
3	9/22/77	3			180		
3	9/22/77	4			147		
3	9/24/77	1			225		
3	9/24/77	2			209		
3	9/24/77	3			181		
3	9/24/77	4			148		
3	10/3/77	1			227		
3	10/3/77	2			211		
3	10/3/77	3			182		
3	10/3/77	4			146		
3	1/1/89	3	1		175	Y	
3	1/1/89	4	1		136	N	
3	3/1/89	2	1		176	Y	
3	3/1/89	3	1		159	N	
3	5/13/89	2	1		168	Y	
3	5/13/89	3	1		160	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114						
THERMOCOUPLE DATA						
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP
3	5/13/89	4	1		134	N
3	5/22/89	3	1		156	Y
3	5/22/89	4	1		131	N
3	6/4/89	2	1		174	Y
3	6/4/89	3	1		158	N
3	6/4/89	4	1		134	N
3	6/12/89	3	1		161	Y
3	6/12/89	4	1		137	N
3	12/5/89	1	1		189	Y
3	12/5/89	2	1		186	N
3	12/5/89	3	1		179	N
3	12/5/89	4	1		169	N
3	12/5/89	5	1		157	N
3	12/5/89	6	1		145	N
3	12/5/89	7	1		133	N
3	12/5/89	8	1		123	N
4	12/1/75	1			209	
4	12/1/75	2			211	
4	12/1/75	3			174	
4	2/1/76	1			197	
4	2/1/76	2			199	
4	2/1/76	3			163	
4	2/1/76	4			123	
4	7/1/77	1			204	
4	7/1/77	2			206	
4	7/1/77	3			177	
4	7/1/77	4			145	
4	8/1/77	1			206	
4	8/1/77	2			207	
4	8/1/77	3			179	
4	8/1/77	4			147	
4	9/9/77	1			208	
4	9/9/77	2			209	
4	9/9/77	3			181	
4	9/9/77	4			148	
4	9/16/77	1			208	
4	9/16/77	2			210	
4	9/16/77	3			181	
4	9/16/77	4			148	
4	9/19/77	1			208	
4	9/19/77	2			209	
4	9/19/77	3			180	
4	9/19/77	4			148	
4	9/22/77	1			207	
4	9/22/77	2			208	
4	9/22/77	3			180	
4	9/22/77	4			148	
4	9/24/77	1			208	
4	9/24/77	2			209	
4	9/24/77	3			181	
4	9/24/77	4			149	
4	10/3/77	1			209	
4	10/3/77	2			210	
4	10/3/77	3			181	
4	10/3/77	4			147	
4	1/1/89	1	1		188	N
4	3/1/89	1	1		184	N
4	4/21/89	4	1		163	N
4	5/6/89	1	1		174	N
4	5/13/89	1	1		182	N
4	5/22/89	1	1		179	N
4	5/28/89	1	1		158	N
4	6/4/89	1	1		180	N
4	6/12/89	1	1		182	N
4	6/13/89	1	1		220.3	Y
4	6/13/89	2	1		186.5	Y

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
4	6/13/89	3	1		178.8	N	
4	6/13/89	4	1		169.8	N	
4	6/13/89	5	1		158.8	N	
4	6/13/89	6	1		147.9	N	
4	6/13/89	7	1		136.2	N	
4	6/13/89	8	1		125.6	N	
4	7/20/89	1	1		220.23	Y	Currently taken by Maint. Eng. Services
4	7/20/89	2	1		186.53	N	
4	7/20/89	3	1		178.83	N	
4	7/20/89	4	1		169.83	N	
4	7/20/89	5	1		158.83	N	
4	7/20/89	6	1		147.93	N	
4	7/20/89	7	1		136.23	N	
4	7/20/89	8	1		125.63	N	
4	12/5/89	1	1		191	Y	
4	12/5/89	2	1		188	N	
4	12/5/89	3	1		180	N	
4	12/5/89	4	1		172	N	
4	12/5/89	5	1		161	N	
4	12/5/89	6	1		149	N	
4	12/5/89	7	1		138	N	
4	12/5/89	8	1		127	N	
5	12/1/75	1			229		
5	12/1/75	2			231		
5	12/1/75	3			176		
5	12/1/75	4			132		
5	2/1/76	1			218		
5	2/1/76	2			219		
5	2/1/76	3			165		
5	2/1/76	4			124		
5	7/1/77	1			220		
5	7/1/77	2			221		
5	7/1/77	3			179		
5	7/1/77	4			146		
5	8/1/77	1			221		
5	8/1/77	2			222		
5	8/1/77	3			180		
5	8/1/77	4			148		
5	9/9/77	1			223		
5	9/9/77	2			225		
5	9/9/77	3			183		
5	9/9/77	4			149		
5	9/16/77	1			224		
5	9/16/77	2			225		
5	9/16/77	3			183		
5	9/16/77	4			149		
5	9/19/77	1			223		
5	9/19/77	2			224		
5	9/19/77	3			182		
5	9/19/77	4			149		
5	9/22/77	1			222		
5	9/22/77	2			224		
5	9/22/77	3			181		
5	9/22/77	4			149		
5	9/24/77	1			223		
5	9/24/77	2			224		
5	9/24/77	3			182		
5	9/24/77	4			150		
5	10/3/77	1			225		
5	10/3/77	2			226		
5	10/3/77	3			183		
5	10/3/77	4			148		
5	1/1/89	3	1		201	N	
5	12/5/89	1	1		189	Y	
5	12/5/89	2	1		187	N	
5	12/5/89	3	1		180	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
5	12/5/89	4	1		171	N	
5	12/5/89	5	1		160	N	
5	12/5/89	6	1		149	N	
5	12/5/89	7	1		136	N	
5	12/5/89	8	1		126	N	
6	12/1/75	1			246		
6	12/1/75	2			223		
6	12/1/75	3			183		
6	12/1/75	4			137		
6	2/1/76	1			235		
6	2/1/76	2			211		
6	2/1/76	3			172		
6	2/1/76	4			128		
6	7/1/77	1			241		
6	7/1/77	2			220		
6	7/1/77	3			187		
6	7/1/77	4			151		
6	8/1/77	1			242		
6	8/1/77	2			221		
6	8/1/77	3			189		
6	8/1/77	4			153		
6	9/9/77	1			245		
6	9/9/77	2			224		
6	9/9/77	3			192		
6	9/9/77	4			155		
6	9/16/77	1			245		
6	9/16/77	2			224		
6	9/16/77	3			192		
6	9/16/77	4			155		
6	9/19/77	1			244		
6	9/19/77	2			223		
6	9/19/77	3			196		
6	9/19/77	4			154		
6	9/22/77	1			243		
6	9/22/77	2			222		
6	9/22/77	3			190		
6	9/22/77	4			154		
6	9/24/77	1			244		
6	9/24/77	2			223		
6	9/24/77	3			191		
6	9/24/77	4			155		
6	10/3/77	1			245		
6	10/3/77	2			225		
6	10/3/77	3			192		
6	10/3/77	4			154		
6	12/5/89	1	1		203	Y	
6	12/5/89	2	1		199	N	
6	12/5/89	3	1		189	N	
6	12/5/89	4	1		178	N	
6	12/5/89	5	1		164	N	
6	12/5/89	6	1		152	N	
6	12/5/89	7	1		139	N	
6	12/5/89	8	1		111	N	
7	12/1/75	1			195		
7	12/1/75	2			150		
7	12/1/75	3			97		
7	12/1/75	4			87		
7	2/1/76	1			184		
7	2/1/76	2			141		
7	2/1/76	3			95		
7	2/1/76	4			86		
7	7/1/77	1			196		
7	7/1/77	2			160		
7	7/1/77	3			123		
7	7/1/77	4			117		
7	8/1/77	1			197		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
7	8/1/77	2			162		
7	8/1/77	3			126		
7	8/1/77	4			120		
7	9/9/77	1			200		
7	9/9/77	2			164		
7	9/9/77	3			125		
7	9/9/77	4			118		
7	9/16/77	1			200		
7	9/16/77	2			163		
7	9/16/77	3			125		
7	9/16/77	4			119		
7	9/19/77	1			199		
7	9/19/77	2			163		
7	9/19/77	3			126		
7	9/19/77	4			120		
7	9/22/77	1			198		
7	9/22/77	2			163		
7	9/22/77	3			127		
7	9/22/77	4			120		
7	9/24/77	1			199		
7	9/24/77	2			164		
7	9/24/77	3			128		
7	9/24/77	4			122		
7	10/3/77	1			200		
7	10/3/77	2			162		
7	10/3/77	3			122		
7	10/3/77	4			115		
7	12/5/89	1	1		170	Y	
7	12/5/89	2	1		160	N	
7	12/5/89	3	1		144	N	
7	12/5/89	4	1		132	N	
7	12/5/89	5	1		123	N	
7	12/5/89	6	1		122	N	
7	12/5/89	7	1		121	N	
7	12/5/89	8	1		121	N	
8	12/1/75	1			224		
8	12/1/75	2			191		
8	12/1/75	3			149		
8	2/1/76	1			213		
8	2/1/76	2			180		
8	2/1/76	3			140		
8	7/1/77	1			221		
8	7/1/77	2			194		
8	7/1/77	3			160		
8	8/1/77	1			222		
8	8/1/77	2			196		
8	8/1/77	3			162		
8	9/9/77	1			225		
8	9/9/77	2			198		
8	9/9/77	3			164		
8	9/16/77	1			225		
8	9/16/77	2			198		
8	9/16/77	3			164		
8	9/19/77	1			224		
8	9/19/77	2			197		
8	9/19/77	3			160		
8	9/22/77	1			223		
8	9/22/77	2			197		
8	9/22/77	3			163		
8	9/24/77	1			228		
8	9/24/77	2			198		
8	9/24/77	3			164		
8	10/3/77	1			236		
8	10/3/77	2			197		
8	10/3/77	3			163		
8	8/14/89	1	1		189.1	Y	Currently taken by Maint. Eng. Services

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	8/14/89	2	1		182.5	N	
8	8/14/89	3	1		172.8	N	
8	8/14/89	4	1		163.1	N	
8	8/14/89	5	1		151.5	N	
8	8/14/89	6	1		141.4	N	
8	8/14/89	7	1		133.8	N	
8	8/14/89	8	1		129	N	
8	9/6/89	1	1		196.8	Y	
8	9/6/89	2	1		190.6	N	
8	9/6/89	3	1		180.1	N	
8	9/6/89	4	1		169.5	N	
8	9/6/89	5	1		156.7	N	
8	9/6/89	6	1		143.8	N	
8	9/6/89	7	1		132.8	N	
8	9/6/89	8	1		128.1	N	
8	10/16/89	1	1		202.6	Y	
8	10/16/89	2	1		195.8	N	
8	10/16/89	3	1		185.3	N	
8	10/16/89	4	1		174.4	N	
8	10/16/89	5	1		160.4	N	
8	10/16/89	6	1		149	N	
8	10/16/89	7	1		137.4	N	
8	10/16/89	8	1		134.8	N	
8	11/6/89	1	1		188.3	N	
8	11/6/89	2	1		190.3	Y	
8	11/6/89	3	1		178.1	N	
8	11/6/89	4	1		165.9	N	
8	11/6/89	5	1		154	N	
8	11/6/89	6	1		142.2	N	
8	11/6/89	7	1		131.1	N	
8	11/6/89	8	1		125.4	N	
8	12/5/89	1	1		189	Y	
8	12/5/89	1	2		189	N	Special Request - Work Order
8	12/5/89	2	1		182	N	
8	12/5/89	2	2		182	N	
8	12/5/89	3	1		171	N	
8	12/5/89	3	2		171	N	
8	12/5/89	4	1		160	N	
8	12/5/89	4	2		160	N	
8	12/5/89	5	1		148	N	
8	12/5/89	5	2		148	N	
8	12/5/89	6	1		137	N	
8	12/5/89	6	2		137	N	
8	12/5/89	7	1		127	N	
8	12/5/89	7	2		127	N	
8	12/5/89	8	1		121	N	
8	12/5/89	8	2		127	N	
8	1/3/90	1	1		191	Y	
8	1/3/90	2	1		184	N	
8	1/3/90	3	1		172	N	
8	1/3/90	4	1		161	N	
8	1/3/90	5	1		144	N	
8	1/3/90	6	1		138	N	
8	1/3/90	7	1		127	N	
8	1/3/90	8	1		122	N	
8	2/1/90	1	1		187	Y	
8	2/1/90	2	1		180	N	
8	2/1/90	3	1		168	N	
8	2/1/90	4	1		157	N	
8	2/1/90	5	1		143	N	
8	2/1/90	6	1		130	N	
8	2/1/90	7	1		119	N	
8	2/1/90	8	1		114	N	
8	3/8/90	1	1		183	Y	
8	3/8/90	2	1		176	N	
8	3/8/90	3	1		164	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	3/8/90	4	1		153	N	
8	3/8/90	5	1		140	N	
8	3/8/90	6	1		129	N	
8	3/8/90	7	1		117	N	
8	3/8/90	8	1		111	N	
8	4/3/90	1	1		181	Y	
8	4/3/90	2	1		174	N	
8	4/3/90	3	1		163	N	
8	4/3/90	4	1		151	N	
8	4/3/90	5	1		139	N	
8	4/3/90	6	1		128	N	
8	4/3/90	7	1		117	N	
8	4/3/90	8	1		112	N	
8	5/3/90	1	1		182	Y	
8	5/3/90	2	1		175	N	
8	5/3/90	3	1		168	N	
8	5/3/90	4	1		153	N	
8	5/3/90	5	1		140	N	
8	5/3/90	6	1		129	N	
8	5/3/90	7	1		119	N	
8	5/3/90	8	1		114	N	
8	6/7/90	1	1		183	Y	
8	6/7/90	2	1		175	N	
8	6/7/90	3	1		165	N	
8	6/7/90	4	1		154	N	
8	6/7/90	5	1		142	N	
8	6/7/90	6	1		132	N	
8	6/7/90	7	1		121	N	
8	6/7/90	8	1		116	N	
8	7/3/90	2	1		171	Y	
8	7/3/90	3	1		165	N	
8	7/3/90	4	1		155	N	
8	7/3/90	5	1		143	N	
8	7/3/90	6	1		133	N	
8	7/3/90	7	1		123	N	
8	7/3/90	8	1		118	N	
8	8/2/90	1	1		181	Y	
8	8/2/90	2	1		174	N	
8	8/2/90	3	1		164	N	
8	8/2/90	4	1		154	N	
8	8/2/90	5	1		143	N	
8	8/2/90	6	1		133	N	
8	8/2/90	7	1		124	N	
8	8/2/90	8	1		120	N	
8	9/6/90	1	1		183	Y	
8	9/6/90	2	1		177	N	
8	9/6/90	3	1		166	N	
8	9/6/90	4	1		156	N	
8	9/6/90	5	1		145	N	
8	9/6/90	6	1		135	N	
8	9/6/90	7	1		126	N	
8	9/6/90	8	1		121	N	
8	10/2/90	1	1		186	Y	
8	10/2/90	2	1		180	N	
8	10/2/90	3	1		170	N	
8	10/2/90	4	1		160	N	
8	10/2/90	5	1		148	N	
8	10/2/90	6	1		137	N	
8	10/2/90	7	1		126	N	
8	10/2/90	8	1		121	N	
8	11/13/90	1	1		186	Y	
8	11/13/90	2	1		179	N	
8	11/13/90	3	1		168	N	
8	11/13/90	4	1		157	N	
8	11/13/90	5	1		145	N	
8	11/13/90	6	1		133	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	11/13/90	7	1		122	N	
8	11/13/90	8	1		117	N	
8	12/5/90	1	1		193.5	Y	
8	12/5/90	2	1		175.6	N	
8	12/5/90	3	1		164.1	N	
8	12/5/90	4	1		152.8	N	
8	12/5/90	5	1		139.7	N	
8	12/5/90	6	1		127.8	N	
8	12/5/90	7	1		116.8	N	
8	12/5/90	8	1		111.6	N	
8	1/3/91	1	1		178.8	Y	
8	1/3/91	2	1		174	N	
8	1/3/91	3	1		162.7	N	
8	1/3/91	4	1		152.5	N	
8	1/3/91	5	1		139.6	N	
8	1/3/91	6	1		127.6	N	
8	1/3/91	7	1		117.6	N	
8	1/3/91	8	1		121	N	
8	2/20/91	1	1		179.4	Y	
8	2/20/91	2	1		171.4	N	
8	2/20/91	3	1		159.6	N	
8	2/20/91	4	1		148.3	N	
8	2/20/91	5	1		135.4	N	
8	2/20/91	6	1		124.6	N	
8	2/20/91	7	1		113.4	N	
8	2/20/91	8	1		108	N	
8	3/14/91	1	1		178.2	Y	
8	3/14/91	2	1		170.6	N	
8	3/14/91	3	1		159.4	N	
8	3/14/91	4	1		148.4	N	
8	3/14/91	5	1		135.8	N	
8	3/14/91	6	1		136.1	N	
8	3/14/91	7	1		113.5	N	
8	3/14/91	8	1		108.3	N	
8	4/17/91	1	1		178	Y	
8	4/17/91	2	1		170.5	N	
8	4/17/91	3	1		159.9	N	
8	4/17/91	4	1		149.2	N	
8	4/17/91	5	1		145.5	N	
8	4/17/91	6	1		134.5	N	
8	4/17/91	7	1		115.5	N	
8	4/17/91	8	1		110.7	N	
8	5/2/91	1	1		177.3	Y	
8	5/2/91	2	1		169.6	N	
8	5/2/91	3	1		159	N	
8	5/2/91	4	1		159.5	N	
8	5/2/91	5	1		136.8	N	
8	5/2/91	6	1		126	N	
8	5/2/91	7	1		116.1	N	
8	5/2/91	8	1		111.5	N	
8	6/14/91	1	1		178.5	Y	
8	6/14/91	2	1		171.5	N	
8	6/14/91	3	1		161.6	N	
8	6/14/91	4	1		161	N	
8	6/14/91	5	1		141.4	N	
8	6/14/91	6	1		131.3	N	
8	6/14/91	7	1		121.9	N	
8	6/14/91	8	1		117.3	N	
8	7/19/91	1	1		182.3	Y	
8	7/19/91	2	1		176.4	N	
8	7/19/91	3	1		165.6	N	
8	7/19/91	4	1		156.3	N	
8	7/19/91	5	1		145.6	N	
8	7/19/91	6	1		135.7	N	
8	7/19/91	7	1		126.5	N	
8	7/19/91	8	1		122.4	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	8/15/91	1	1		182.6	Y	
8	8/15/91	2	1		176	N	
8	8/15/91	3	1		166.4	N	
8	8/15/91	4	1		157.1	N	
8	8/15/91	5	1		146.7	N	
8	8/15/91	6	1		136.9	N	
8	8/15/91	7	1		127.6	N	
8	8/15/91	8	1		123.1	N	
8	9/5/91	1	1		184.8	Y	817-13-55-008 Omega
8	9/5/91	2	1		178.1	N	
8	9/5/91	3	1		168.7	N	
8	9/5/91	4	1		159.5	N	
8	9/5/91	5	1		149	N	
8	9/5/91	6	1		139.3	N	
8	9/5/91	7	1		129.9	N	
8	9/5/91	8	1		125.9	N	
8	10/7/91	1	1		187.6	Y	J-817-13-35-008
8	10/7/91	2	1		181	N	
8	10/7/91	3	1		171.4	N	
8	10/7/91	4	1		161.9	N	
8	10/7/91	5	1		151.1	N	
8	10/7/91	6	1		141.2	N	
8	10/7/91	7	1		131.6	N	
8	10/7/91	8	1		127.1	N	
8	11/10/91	1	1		191.4	Y	J-817-13-55-008
8	11/10/91	2	1		184	N	
8	11/10/91	3	1		173.5	N	
8	11/10/91	4	1		163.6	N	
8	11/10/91	5	1		152.1	N	
8	11/10/91	6	1		141.3	N	
8	11/10/91	7	1		131	N	
8	11/10/91	8	1		126.1	N	
8	12/6/91	1	1		189	Y	J-817-13-55-008
8	12/6/91	2	1		181	N	
8	12/6/91	3	1		171	N	
8	12/6/91	4	1		160	N	
8	12/6/91	5	1		148	N	
8	12/6/91	6	1		138	N	
8	12/6/91	7	1		127	N	
8	12/6/91	8	1		122	N	
8	1/17/92	1	1		188.6	Y	J-817-13-55-008
8	1/17/92	2	1		180.6	N	
8	1/17/92	3	1		169.7	N	
8	1/17/92	4	1		159	N	
8	1/17/92	5	1		147.2	N	
8	1/17/92	6	1		136.9	N	
8	1/17/92	7	1		125.1	N	
8	1/17/92	8	1		120.4	N	
8	2/21/92	1	1		185	Y	J-817-13-20-019
8	2/21/92	2	1		179	N	
8	2/21/92	3	1		168	N	
8	2/21/92	4	1		158	N	
8	2/21/92	5	1		145	N	
8	2/21/92	6	1		134	N	
8	2/21/92	7	1		124	N	
8	2/21/92	8	1		120	N	
8	3/5/92	1	1		182	Y	
8	3/5/92	2	1		175	N	
8	3/5/92	3	1		164	N	
8	3/5/92	4	1		154	N	
8	3/5/92	5	1		141	N	
8	3/5/92	6	1		131	N	
8	3/5/92	7	1		121	N	
8	3/5/92	8	1		116	N	
8	4/2/92	1	1		182	Y	J 8171355010
8	4/2/92	2	1		175	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	4/2/92	3	1		165	N	
8	4/2/92	4	1		155	N	
8	4/2/92	6	1		132	N	
8	4/2/92	7	1		117	N	
8	4/2/92	8	1		112	N	
8	4/5/92	1	1		182	Y	
8	4/5/92	2	1		175	N	
8	4/5/92	3	1		164	N	
8	4/5/92	4	1		154	N	
8	4/5/92	5	1		141	N	
8	4/5/92	6	1		131	N	
8	4/5/92	7	1		121	N	
8	4/5/92	8	1		116	N	
8	5/14/92	1	1		181	Y	J 8171355010
8	5/14/92	2	1		178	N	
8	5/14/92	3	1		164	N	
8	5/14/92	4	1		155	N	
8	5/14/92	5	1		143	N	
8	5/14/92	6	1		133	N	
8	5/14/92	7	1		124	N	
8	5/14/92	8	1		119	N	
8	6/4/92	1	1		185	Y	J 8171320019
8	6/4/92	2	1		178	N	
8	6/4/92	3	1		168	N	
8	6/4/92	4	1		159	N	
8	6/4/92	5	1		148	N	
8	6/4/92	6	1		138	N	
8	6/4/92	7	1		129	N	
8	6/4/92	8	1		125	N	
8	7/1/92	1	1		183	Y	817-13-20-019
8	7/1/92	2	1		176	N	
8	7/1/92	3	1		166	N	
8	7/1/92	4	1		156	N	
8	7/1/92	5	1		146	N	
8	7/1/92	6	1		136	N	
8	7/1/92	7	1		127	N	
8	7/1/92	8	1		122	N	
8	8/7/92	1	1		187	N	J 817-13-55-008
8	8/7/92	2	1		180.3	N	
8	8/7/92	3	1		170.6	N	
8	8/7/92	4	1		161.1	N	
8	8/7/92	5	1		150.8	N	
8	8/7/92	6	1		144	N	
8	8/7/92	7	1		131.6	N	
8	8/7/92	8	1		127.4	N	
8	9/3/92	1	1		186.7	Y	J 128-9042212
8	9/3/92	2	1		180.1	N	
8	9/3/92	3	1		170.5	N	
8	9/3/92	4	1		160.9	N	
8	9/3/92	5	1		150.4	N	
8	9/3/92	6	1		140.6	N	
8	9/3/92	7	1		131.1	N	
8	9/3/92	8	1		126.8	N	
8	10/8/92	1	1		188	Y	
8	10/8/92	2	1		182	N	
8	10/8/92	3	1		172	N	
8	10/8/92	4	1		162	N	
8	10/8/92	5	1		151	N	
8	10/8/92	6	1		141	N	
8	10/8/92	7	1		131	N	
8	10/8/92	8	1		126	N	
8	11/5/92	1	1		181	Y	J 817-13-20-019
8	11/5/92	2	1		175	N	
8	11/5/92	3	1		165	N	
8	11/5/92	4	1		156	N	
8	11/5/92	5	1		145	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	11/5/92	6	1		135	N	
8	11/5/92	7	1		125	N	
8	11/5/92	8	1		121	N	
8	12/4/92	1	1		181	Y	J 817-13-20-019
8	12/4/92	2	1		175	N	
8	12/4/92	3	1		164	N	
8	12/4/92	4	1		154	N	
8	12/4/92	5	1		143	N	
8	12/4/92	6	1		132	N	
8	12/4/92	7	1		122	N	
8	12/4/92	8	1		117	N	
8	1/5/93	1	1		188	Y	817-13-20-019
8	1/5/93	2	1		181	N	
8	1/5/93	3	1		170	N	
8	1/5/93	4	1		159	N	
8	1/5/93	5	1		147	N	
8	1/5/93	6	1		135	N	
8	1/5/93	7	1		124	N	
8	1/5/93	8	1		119	N	
8	2/2/93	1	1		176	Y	817-13-20-019
8	2/2/93	2	1		169	N	
8	2/2/93	3	1		159	N	
8	2/2/93	4	1		149	N	
8	2/2/93	5	1		138	N	
8	2/2/93	6	1		127	N	
8	2/2/93	7	1		117	N	
8	2/2/93	8	1		113	N	
8	3/3/93	1	1		184	Y	817-13-20-019
8	3/3/93	2	1		176	N	
8	3/3/93	3	1		166	N	
8	3/3/93	4	1		155	N	
8	3/3/93	5	1		143	N	
8	3/3/93	6	1		131	N	
8	3/3/93	7	1		120	N	
8	3/3/93	8	1		116	N	
8	4/8/93	1	1		174	Y	J 817-13-20-019
8	4/8/93	2	1		167	N	
8	4/8/93	3	1		158	N	
8	4/8/93	4	1		148	N	
8	4/8/93	5	1		137	N	
8	4/8/93	6	1		127	N	
8	4/8/93	7	1		117	N	
8	4/8/93	8	1		113	N	
8	5/6/93	1	1		174	Y	I 817132019
8	5/6/93	2	1		168	N	
8	5/6/93	3	1		158	N	
8	5/6/93	4	1		148	N	
8	5/6/93	5	1		138	N	
8	5/6/93	6	1		128	N	
8	5/6/93	7	1		119	N	
8	5/6/93	8	1		115	N	
8	6/3/93	1	1		174	Y	817-13-20-019
8	6/3/93	2	1		167	N	
8	6/3/93	3	1		158	N	
8	6/3/93	4	1		149	N	
8	6/3/93	5	1		139	N	
8	6/3/93	6	1		129	N	
8	6/3/93	7	1		120	N	
8	6/3/93	8	1		116	N	
8	6/18/93	1	1		181.9	Y	910126143-32
8	6/18/93	2	1		175	N	
8	6/18/93	3	1		165	N	
8	6/18/93	4	1		155.2	N	
8	6/18/93	5	1		144.4	N	
8	6/18/93	6	1		134.4	N	
8	6/18/93	7	1		124.9	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	6/18/93	8	1		120.8	N	
8	7/1/93	1	1		179.1	Y	890423320-42
8	7/1/93	2	1		172	N	
8	7/1/93	3	1		162.3	N	
8	7/1/93	4	1		152.8	N	
8	7/1/93	5	1		142.2	N	
8	7/1/93	6	1		132.3	N	
8	7/1/93	7	1		122.9	N	
8	7/1/93	8	1		118.6	N	
8	8/5/93	1	1		180.6	Y	890423320-42
8	8/5/93	1	2		176	Y	817-13-20-019
8	8/5/93	2	1		173.9	N	
8	8/5/93	2	2		169	N	
8	8/5/93	3	1		164.8	N	
8	8/5/93	3	2		161	N	
8	8/5/93	4	1		155.9	N	
8	8/5/93	4	2		152	N	
8	8/5/93	5	1		146.3	N	
8	8/5/93	5	2		143	N	
8	8/5/93	6	1		136.6	N	
8	8/5/93	6	2		134	N	
8	8/5/93	7	1		127.6	N	
8	8/5/93	7	2		125	N	
8	8/5/93	8	1		122.3	N	
8	8/5/93	8	2		121	N	
8	9/3/93	2	1		179.1	N	
8	9/3/93	3	1		169.6	N	
8	9/3/93	4	1		160.6	N	
8	9/3/93	5	1		150.7	N	
8	9/3/93	6	1		141.2	N	
8	9/3/93	7	1		131.8	N	
8	9/3/93	8	1		127.4	N	
8	9/4/93	1	1		182.3	Y	TI-045
8	9/4/93	2	1		176	N	
8	9/4/93	3	1		166.7	N	
8	9/4/93	4	1		157.7	N	
8	9/4/93	5	1		147.5	N	
8	9/4/93	6	1		137.9	N	
8	9/4/93	7	1		128.7	N	
8	9/4/93	8	1		124.6	N	
8	10/5/93	1	1		185.9	Y	J 910126143-48
8	10/5/93	2	1		179.4	N	
8	10/5/93	3	1		169.6	N	
8	10/5/93	4	1		159.9	N	
8	10/5/93	5	1		149.2	N	
8	10/5/93	6	1		139.1	N	
8	10/5/93	7	1		129.6	N	
8	10/5/93	8	1		125.4	N	
8	10/11/93	1	1		186.4	Y	J 910126143-48
8	10/11/93	2	1		179.7	N	
8	10/11/93	3	1		169.7	N	
8	10/11/93	4	1		159.9	N	
8	10/11/93	5	1		149.1	N	
8	10/11/93	6	1		138.7	N	
8	10/11/93	7	1		128.9	N	
8	10/11/93	8	1		124.5	N	
8	10/18/93	1	1		180.2	Y	910126143-14
8	10/18/93	2	1		172.9	N	
8	10/18/93	3	1		163.8	N	
8	10/18/93	4	1		155.2	N	
8	10/18/93	5	1		146.8	N	
8	10/18/93	6	1		138.5	N	
8	10/18/93	7	1		130.5	N	
8	10/18/93	8	1		125.1	N	
8	11/1/93	1	1		186.7	Y	910126143-29
8	11/1/93	2	1		180.1	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
8	11/1/93	3	1		170.3	N	
8	11/1/93	4	1		160.2	N	
8	11/1/93	5	1		149.3	N	
8	11/1/93	6	1		138.7	N	
8	11/1/93	7	1		128.6	N	
8	11/1/93	8	1		124.1	N	
8	11/29/93	1	1			N	108 - Suspect Data (low), 91012614329
8	11/29/93	2	1		181.1	Y	
8	11/29/93	3	1		171.2	N	
8	11/29/93	4	1		161.6	N	
8	11/29/93	5	1		151.2	N	
8	11/29/93	6	1		141.6	N	
8	11/29/93	7	1		132.7	N	
8	11/29/93	8	1		128.8	N	
8	12/2/93	1	1			N	J 910126143-29 TC 1 O/S
8	12/2/93	2	1		187.3	Y	
8	12/2/93	3	1		181.5	N	
8	12/2/93	4	1		174.3	N	
8	12/2/93	5	1		164.2	N	
8	12/2/93	6	1		133.9	N	
8	12/2/93	7	1		144.6	N	
8	12/2/93	8	1		155	N	
8	12/21/93	1	1		189.2	Y	910126143-29
8	12/21/93	1	2		188.8	Y	J 910126143-29
8	12/21/93	2	1		182.3	N	
8	12/21/93	2	2		182.2	N	
8	12/21/93	3	1		172.8	N	
8	12/21/93	3	2		176.8	N	
8	12/21/93	4	1		163.4	N	
8	12/21/93	4	2		163.4	N	
8	12/21/93	5	1		153.2	N	
8	12/21/93	5	2		153.2	N	
8	12/21/93	6	1		143.1	N	
8	12/21/93	6	2		143.3	N	
8	12/21/93	7	1		133.2	N	
8	12/21/93	7	2		133.1	N	
8	12/21/93	8	1		128.4	N	
8	12/21/93	8	2		128.3	N	
8	12/22/93	1	1		189	Y	910126143-29
8	12/22/93	2	1		182.2	N	
8	12/22/93	3	1		172.9	N	
8	12/22/93	4	1		163.4	N	
8	12/22/93	5	1		153.4	N	
8	12/22/93	6	1		143.7	N	
8	12/22/93	7	1		134.7	N	
8	12/22/93	8	1		130.8	N	
8	12/28/93	1	1		189	Y	910126143-29
8	12/28/93	2	1		182.5	N	
8	12/28/93	3	1		173.2	N	
8	12/28/93	4	1		163.6	N	
8	12/28/93	5	1		153.4	N	
8	12/28/93	6	1		143.6	N	
8	12/28/93	7	1		133.9	N	
8	12/28/93	8	1		129.4	N	
8	12/29/93	1	1		190	Y	910126143-29
8	12/29/93	1	2		189.6	Y	910126143-29
8	12/29/93	1	3		190.1	Y	J 910126143-32
8	12/29/93	1	4		189.9	Y	J 91012614332
8	12/29/93	2	1		182.5	N	
8	12/29/93	2	2		182.8	N	
8	12/29/93	2	3		183.5	N	
8	12/29/93	2	4		183.3	N	
8	12/29/93	3	1		173.3	N	
8	12/29/93	3	2		173.3	N	
8	12/29/93	3	3		173.9	N	
8	12/29/93	3	4		173.8	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-114							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
8	12/29/93	4	1		163.9	N	
8	12/29/93	4	2		163.9	N	
8	12/29/93	4	3		164.5	N	
8	12/29/93	4	4		164.4	N	
8	12/29/93	5	1		153.7	N	
8	12/29/93	5	2		153.6	N	
8	12/29/93	5	3		154.1	N	
8	12/29/93	5	4		154	N	
8	12/29/93	6	1		143.8	N	
8	12/29/93	6	2		143.6	N	
8	12/29/93	6	3		143.8	N	
8	12/29/93	6	4		143.7	N	
8	12/29/93	7	1		133.8	N	
8	12/29/93	7	2		133.4	N	
8	12/29/93	7	3		133.7	N	
8	12/29/93	7	4		133.3	N	
8	12/29/93	8	1		129.3	N	
8	12/29/93	8	2		128.6	N	
8	12/29/93	8	3		128.8	N	
8	12/29/93	8	4		128.5	N	
8	12/30/93	1	1		190.5	Y	910126143-32
8	12/30/93	2	1		183.8	N	
8	12/30/93	3	1		174.3	N	
8	12/30/93	4	1		164.8	N	
8	12/30/93	5	1		154.2	N	
8	12/30/93	6	1		143.7	N	
8	12/30/93	7	1		133.3	N	
8	12/30/93	8	1		128.4	N	
8	12/31/93	1	1		188.9	Y	910126143-32
8	12/31/93	2	1		182.8	N	
8	12/31/93	3	1		173.4	N	
8	12/31/93	4	1		163.8	N	
8	12/31/93	5	1		152.9	N	
8	12/31/93	6	1		142.3	N	
8	12/31/93	7	1		132.1	N	
8	12/31/93	8	1		127.5	N	

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-115							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	12/13/77	1			108		
1	12/13/77	2			109		
1	12/13/77	3			109		
1	12/13/77	4			109		
1	12/13/77	5			109		
1	12/13/77	6			109		
1	12/13/77	7			109		
1	12/13/77	8			109		
1	12/13/77	9			109		
1	12/13/77	10			109		
1	12/13/77	11			109		
1	12/13/77	12			109		
1	12/15/77	1			119		
1	12/15/77	2			118		
1	12/15/77	3			118		
1	12/15/77	4			119		
1	12/15/77	5			118		
1	12/15/77	6			119		
1	12/15/77	7			119		
1	12/15/77	8			118		
1	12/15/77	9			118		
1	12/15/77	10			118		
1	12/15/77	11			119		
1	12/15/77	12			118		
1	1/10/78	1			122		
1	1/10/78	2			121		
1	1/10/78	3			121		
1	1/10/78	4			121		
1	1/10/78	5			121		
1	1/10/78	6			120		
1	1/10/78	7			120		
1	1/10/78	8			119		
1	1/10/78	9			119		
1	1/10/78	10			119		
1	1/10/78	10			119		
1	2/2/78	1			108		
1	2/2/78	2			108		
1	2/2/78	3			108		
1	2/2/78	4			108		
1	2/2/78	5			108		
1	2/2/78	6			107		
1	2/2/78	7			107		
1	2/2/78	8			107		
1	2/2/78	9			107		
1	2/2/78	10			107		
1	2/2/78	11			107		
1	3/9/78	1			112		
1	3/9/78	2			112		
1	3/9/78	3			112		
1	3/9/78	4			112		
1	3/9/78	5			112		
1	3/9/78	6			112		
1	3/9/78	7			111		
1	3/9/78	8			111		
1	3/9/78	9			111		
1	3/9/78	10			111		
1	3/9/78	11			111		
1	4/17/78	1			102		
1	4/17/78	2			102		
1	4/17/78	3			107		
1	4/17/78	4			107		
1	4/17/78	5			107		
1	4/17/78	6			107		
1	4/17/78	7			107		
1	4/17/78	8			107		
1	4/17/78	9			107		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-115							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y = MAX TEMP	COMMENTS
1	4/17/78	10			107		
1	4/17/78	11			107		
1	5/1/78	1			122		
1	5/1/78	2			122		
1	5/1/78	3			122		
1	5/1/78	4			122		
1	5/1/78	5			123		
1	5/1/78	6			123		
1	5/1/78	7			123		
1	5/1/78	8			123		
1	5/1/78	9			122		
1	5/1/78	10			122		
1	5/1/78	11			122		
1	6/1/78	1			107		
1	6/1/78	2			107		
1	6/1/78	3			107		
1	6/1/78	4			107		
1	6/1/78	5			107		
1	6/1/78	6			107		
1	6/1/78	7			107		
1	6/1/78	8			107		
1	6/1/78	9			107		
1	6/1/78	10			107		
1	6/1/78	11			106		
1	7/20/78	1			106		
1	7/20/78	2			106		
1	7/20/78	3			106		
1	7/20/78	4			106		
1	7/20/78	5			106		
1	7/20/78	6			106		
1	7/20/78	7			106		
1	7/20/78	8			106		
1	7/20/78	9			105		
1	7/20/78	10			105		
1	7/20/78	11			105		
1	8/9/78	1			103		
1	8/9/78	2			103		
1	8/9/78	3			103		
1	8/9/78	4			103		
1	8/9/78	5			103		
1	8/9/78	6			103		
1	8/9/78	7			103		
1	8/9/78	8			102		
1	8/9/78	9			102		
1	8/9/78	10			102		
1	8/9/78	11			102		
1	9/20/78	1			110		
1	9/20/78	2			110		
1	9/20/78	3			110		
1	9/20/78	4			110		
1	9/20/78	5			110		
1	9/20/78	6			110		
1	9/20/78	7			110		
1	9/20/78	8			110		
1	9/20/78	9			110		
1	9/20/78	10			110		
1	9/20/78	11			110		
1	10/19/78	1			116		
1	10/19/78	2			116		
1	10/19/78	3			116		
1	10/19/78	4			116		
1	10/19/78	5			115		
1	10/19/78	6			115		
1	10/19/78	7			115		
1	10/19/78	8			115		
1	10/19/78	9			115		

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

TANK 241-SX-115							
THERMOCOUPLE DATA							
TREE #	DATE	THERMO #	TREE SET #	TEMP C	TEMP F	Y=MAX TEMP	COMMENTS
1	10/19/78	10			115		
1	10/19/78	11			115		
1	6/15/81	1			115		
1	6/15/81	2			115		
1	6/15/81	3			116		
1	6/15/81	4			116		
1	6/15/81	5			117		
1	6/15/81	6			117		
1	6/15/81	7			117		
1	6/15/81	8			117		
1	6/15/81	9			116		
1	6/15/81	10			116		
1	6/15/81	11			115		
1	6/15/81	12			115		
1	6/15/81	13			116		
1	6/15/81	14			116		
1	6/15/81	15			116		
1	6/15/81	16			114		
1	12/13/91	1	1			N	Couldn't find TC junction box. Semi-annual reading
1	1/5/92	1	1			N	NO READINGS OUT OF SERVICE
1	2/13/93	1	1			N	NO TEMP TREE
1	7/2/93	1	1			N	NO TREE

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 24, 1994.

**241-SX-101
Surface Level Data**

FIC
(normally set in the intrusion mode)

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

**241-SX-102
Surface Level Data**

FIC
(normally set in the intrusion mode)

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-103
Surface Level Data

FIC
(set in the intrusion mode)

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-105
Surface Level Data

FIC
(normally set in the intrusion mode)

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-106
Surface Level Data

FIC

241-SX-107
Surface Level Data

Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-108
Surface Level Data
Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-109
Surface Level Data
Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-110
Surface Level Data
Manual Tape

**241-SX-111
Surface Level Data**

Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-112
Surface Level Data

Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-113
Surface Level Data

Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-114
Surface Level Data
Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

241-SX-115
Surface Level Data

Manual Tape

Data obtained from WHC Surveillance Analysis Computer System, February 28, 1994.

Surface Level Data					
FIC					
Year	Month	Day	Hour	Minute	Surface Level
91	1	1	7	3	243
91	1	2	7	2	242.7
91	1	3	7	3	242.7
91	1	4	5	2	242.9
91	1	5	7	2	243
91	1	6	7	2	242.8
91	1	7	7	2	243.1
91	1	8	7	3	243.2
91	1	9	7	2	243.3
91	1	10	7	2	243.3
91	1	11	7	3	243.2
91	1	12	7	2	243.5
91	1	14	10	2	243.3
91	1	21	10	2	242.8
91	1	29	10	2	243.4
91	2	4	10	2	243.2
91	2	11	10	2	243.2
91	2	18	10	2	242.8
91	2	27	7	2	243
91	2	28	7	2	242.8
91	3	1	7	2	242.7
91	3	2	7	2	242.3
91	3	3	7	3	242.2
91	3	4	7	3	242.2
91	3	5	7	3	241.8
91	3	6	7	2	241.6
91	3	7	7	2	241.4
91	3	8	7	2	241.2
91	3	9	7	2	241.6
91	3	10	7	2	242
91	3	11	7	2	241.7
91	3	12	7	3	241.7
91	3	13	7	3	241.6
91	3	14	7	3	241.7
91	3	15	7	3	241.8
91	3	16	7	3	241.8
91	3	17	7	2	241.7
91	3	18	7	3	241.7
91	3	19	7	3	242
91	3	20	7	2	242.1
91	3	21	7	3	242.1
91	3	22	7	2	241.8
91	3	23	7	3	241.9
91	3	24	7	3	242
91	3	25	7	3	242.2
91	3	26	7	3	242.1

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
91	3	27	7	3	241.9
91	3	28	7	3	241.7
91	3	29	7	3	241.5
91	3	30	7	3	241.5
91	3	31	7	3	241.6
91	4	1	7	3	241.8
91	4	2	7	3	241.8
91	4	3	7	3	241.7
91	4	4	7	3	241.8
91	4	5	7	3	242
91	4	6	7	3	241.9
91	4	7	7	3	241.9
91	4	8	7	4	241.7
91	4	9	7	3	241.8
91	4	10	7	3	241.8
91	4	11	7	3	241.7
91	4	12	7	3	241.7
91	4	13	7	4	241.8
91	4	14	7	3	242
91	4	15	7	3	242
91	4	16	7	10	242
91	4	17	7	3	242
91	4	18	7	6	241.9
91	4	19	7	5	241.9
91	4	20	7	6	242
91	4	21	7	5	242
91	4	22	7	6	242
91	4	23	7	6	242.1
91	4	24	7	5	242.1
91	4	25	7	5	242
91	4	26	3	5	242
91	4	27	7	5	241.9
91	4	28	7	6	241.8
91	4	29	7	5	241.8
91	4	30	7	6	241.8
91	5	1	6	6	242
91	5	2	7	5	241.8
91	5	3	7	6	242
91	5	4	7	5	242
91	5	5	7	5	241.9
91	5	6	7	5	242
91	5	7	7	5	242.1
91	5	8	7	5	242.3
91	5	9	7	5	242.1
91	5	10	7	5	242
91	5	11	7	5	242
91	5	12	7	5	242.2
91	5	13	7	5	242.1

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
91	5	14	7	5	242.1
91	5	15	7	5	242
91	5	16	7	6	242
91	5	17	7	6	242.3
91	5	18	7	6	242.2
91	5	19	7	5	242.3
91	5	20	7	6	242.2
91	5	21	7	6	242.2
91	5	22	7	5	242.1
91	5	23	7	5	242
91	5	24	7	5	242.1
91	5	25	7	5	242.1
91	5	26	7	5	242.1
91	5	27	7	5	242.1
91	5	28	7	5	242.2
91	5	29	7	5	242.3
91	5	30	7	5	242.4
91	5	31	7	5	242.1
91	6	1	7	5	242.1
91	6	2	7	5	242.2
91	6	3	7	5	242.2
91	6	4	7	5	241.8
91	6	5	7	5	242
91	6	6	7	6	242
91	6	7	7	5	242.1
91	6	8	7	5	242.1
91	6	9	7	5	242.2
91	6	10	7	6	242.1
91	6	11	7	5	242.4
91	6	12	7	4	242.2
91	6	13	7	5	242.1
91	6	14	7	5	242.2
91	6	15	7	5	242.2
91	6	16	7	5	242.3
91	6	17	7	5	242.1
91	6	18	7	5	242.2
91	6	19	7	5	242.4
91	6	20	7	5	242.5
91	6	21	7	6	242.3
91	6	22	7	5	242.4
91	6	23	7	5	242.4
91	6	24	7	5	242.5
91	6	25	7	6	242.5
91	6	26	7	3	242.6
91	6	27	7	2	242.7
91	6	28	7	3	242.7
91	6	29	7	2	242.7
91	7	2	7	6	242.5

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
91	7	3	7	6	242.5
91	7	4	7	10	242.6
91	7	5	7	6	242.6
91	7	6	7	6	242.6
91	7	7	7	10	242.4
91	7	8	7	6	242.5
91	7	9	7	6	242.6
91	7	10	6	6	242.6
91	7	11	7	6	242.5
91	7	12	7	6	242.5
91	7	13	7	6	242.6
91	7	14	7	6	242.6
91	7	15	7	6	242.7
91	7	16	7	6	242.6
91	7	17	7	5	242.5
91	7	18	7	5	242.5
91	7	19	7	5	242.7
91	7	20	7	5	242.6
91	7	21	7	5	242.6
91	7	22	7	5	242.5
91	7	23	7	5	242.5
91	7	24	7	5	242.7
91	7	25	7	1	242.7
91	7	26	7	2	242.7
91	7	27	7	2	242.6
91	7	28	7	2	242.6
91	7	29	7	2	242.6
91	7	30	7	2	242.6
91	7	31	7	2	242.7
91	8	1	7	2	242.9
91	8	2	7	2	242.7
91	8	3	7	2	242.8
91	8	4	7	2	243
91	8	5	7	2	243
91	8	6	7	2	243.1
91	8	7	7	6	243
91	8	8	6	5	242.4
91	8	9	7	4	242.4
91	8	10	7	4	242.4
91	8	11	3	4	242.3
91	8	12	7	4	242.2
91	8	14	7	4	242.3
91	8	15	7	3	242.4
91	8	17	7	2	242.3
91	8	18	7	3	242.4
91	8	19	4	3	242.4
91	8	20	7	4	242.4
91	8	21	7	3	242.4

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
91	8	24	7	2	242.4
91	8	25	7	2	242.3
91	8	26	7	3	242.3
91	8	27	7	3	242.5
91	8	28	7	3	242.5
91	8	29	7	2	242.3
91	8	30	7	10	242.3
91	8	31	7	2	242.4
91	9	1	5	2	242.3
91	9	2	6	2	242.1
91	9	3	3	2	242.1
91	9	5	6	3	242.2
91	9	7	7	2	242.4
91	9	8	7	2	242.3
91	9	9	7	3	242
91	9	10	7	2	242.1
91	9	11	7	3	242.1
91	9	12	7	2	242.1
91	9	13	7	2	242.3
91	9	14	7	3	242.1
91	9	15	7	2	242
91	9	16	7	3	242.1
91	9	17	7	3	242
91	9	18	7	3	242
91	9	19	7	3	242.1
91	9	20	7	2	242.2
91	9	21	7	2	242.1
91	9	22	7	3	242
91	9	23	7	3	241.9
91	9	24	7	2	241.9
91	9	25	7	3	242
91	9	26	7	3	242.2
91	9	27	7	2	242.3
91	9	28	7	2	242.3
91	9	29	7	3	242.1
91	9	30	7	3	242
91	10	1	7	2	242.1
91	10	2	7	2	242.2
91	10	3	7	2	242.2
91	10	4	7	3	242.1
91	10	6	6	2	242.3
91	10	7	6	2	242.4
91	10	8	7	2	242.3
91	10	9	7	2	242.2
91	10	10	7	2	242.1
91	10	11	7	2	242.2
91	10	12	7	2	242.4
91	10	13	7	3	242.1

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
91	10	14	7	2	242.1
91	10	15	7	2	242.3
91	10	16	7	3	242.7
91	10	17	7	5	242.1
91	10	18	7	6	241.9
91	10	19	7	6	241.9
91	10	20	7	2	242
91	10	21	7	2	242.5
91	10	22	7	3	242.3
91	10	23	7	2	242.3
91	10	24	7	2	242.4
91	10	25	7	3	242.4
91	10	26	7	3	242.6
91	10	27	7	2	242.2
91	10	28	7	2	241.9
91	10	29	7	3	241.9
91	10	30	7	3	241.7
91	10	31	7	3	241.7
91	11	1	7	2	241.7
91	11	2	7	3	241.7
91	11	3	7	3	241.7
91	11	4	7	2	241.8
91	11	5	7	3	242
91	11	6	7	3	242
91	11	7	7	2	242
91	11	8	7	3	242.2
91	11	9	7	2	242.1
91	11	10	7	3	242.1
91	11	11	7	10	242.1
91	11	12	7	3	242.2
91	11	13	7	3	242.3
91	11	14	7	3	242.2
91	11	15	7	3	242.1
91	11	16	7	3	242.2
91	11	17	7	2	242.5
91	11	18	7	3	242.3
91	11	19	7	3	241.9
91	11	20	7	3	242
91	11	21	7	2	241.9
91	11	22	7	3	241.8
91	11	23	7	2	241.7
91	11	24	7	3	241.7
91	11	25	7	3	242.1
91	11	27	7	3	242.3
91	11	28	7	3	242.1
91	11	29	7	3	242.1
91	11	30	7	3	241.8
91	12	1	7	3	241.9

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
91	12	2	7	3	242.1
91	12	3	7	3	242
91	12	4	7	3	242.2
91	12	5	7	3	242.5
91	12	6	7	4	242.5
91	12	7	7	3	242.4
91	12	8	7	3	242.2
91	12	9	7	3	242.2
91	12	10	7	3	242
91	12	11	7	2	242.4
91	12	12	7	3	242.6
91	12	13	6	6	242
91	12	14	7	2	241.8
91	12	15	7	2	241.8
91	12	18	7	3	242.5
91	12	24	7	3	242.1
91	12	25	7	3	242.3
91	12	26	7	3	242.3
91	12	27	7	3	242.4
91	12	28	7	2	242.6
91	12	29	7	3	242.6
91	12	30	7	3	242.5
91	12	31	7	3	242.2
92	1	1	7	3	242
92	1	2	7	2	242.4
92	1	3	7	4	242.5
92	1	4	7	3	242.7
92	1	5	7	3	242.6
92	1	6	7	3	242.6
92	1	7	7	4	242.4
92	1	9	7	3	242
92	1	10	7	4	242.2
92	1	11	7	4	242.3
92	1	17	7	4	241.9
92	1	18	7	4	241.8
92	1	19	7	3	241.8
92	1	20	7	3	242
92	1	21	7	3	242.3
92	1	22	7	6	242.2
92	1	23	7	3	242.4
92	1	24	7	2	242.5
92	1	25	7	3	242.6
92	1	26	7	10	242.4
92	1	27	7	2	242.4
92	1	28	7	3	242.6
92	1	29	7	3	242.4
92	1	30	7	3	242.4
92	1	31	7	3	242.7

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
92	2	1	7	2	242.6
92	2	2	7	3	242.3
92	2	3	7	3	242.1
92	2	4	7	3	242.1
92	2	5	7	2	242.2
92	9	21	10	3	240
92	9	22	7	3	240.8
92	9	23	7	3	240.9
92	9	24	7	3	240.9
92	9	25	7	3	240.8
92	9	28	10	2	240.3
92	10	5	10	0	240.5
92	10	12	10	0	240.7
92	10	19	10	0	238.1
92	10	20	10	0	238.2
92	10	20	10	30	240.8
92	10	21	10	30	240.8
92	10	22	10	30	240.5
92	10	23	10	30	241.1
92	10	24	10	30	240.6
92	10	25	10	30	240.5
92	10	26	10	30	240.7
92	10	27	10	30	240.9
92	10	28	10	30	241.15
92	10	29	7	3	241.4
92	10	30	7	3	241.6
92	10	31	7	3	241.3
92	11	1	7	3	240.9
92	11	2	7	3	240.8
92	11	3	7	3	240.5
92	11	4	7	3	240.5
92	11	5	10	3	240.5
92	11	6	10	3	240.6
92	11	9	10	3	241.1
92	11	10	10	3	240.5
92	11	11	10	3	240.8
92	11	12	10	3	240.7
92	11	13	10	3	240.7
92	11	14	10	3	240.7
92	11	15	10	3	240.7
92	11	16	10	3	240.9
92	11	17	10	3	241
92	11	19	10	3	241.3
92	11	23	10	3	241
92	11	25	10	3	240.2
92	11	27	10	3	239.9
92	11	28	10	3	241
92	12	1	10	3	239.8

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
92	12	2	10	3	241.6
92	12	3	6	3	241.3
92	12	4	7	3	241.2
92	12	5	10	3	241.2
92	12	6	7	2	241.7
92	12	7	7	3	242
92	12	8	7	3	242.2
92	12	9	7	3	242.3
92	12	10	7	3	242.6
92	12	11	7	3	242.1
92	12	12	10	3	241.8
92	12	13	7	4	241.5
92	12	14	7	3	241.6
92	12	15	7	3	241.6
92	12	16	7	4	241.6
92	12	17	7	3	242.1
92	12	18	7	3	241.7
92	12	19	7	3	241.7
92	12	20	7	4	242.1
92	12	21	7	4	241.9
92	12	22	10	4	241.8
92	12	23	7	4	241.6
92	12	24	7	3	241.6
92	12	25	7	3	241.6
92	12	26	7	3	242
92	12	27	7	3	242
92	12	28	10	3	242.2
92	12	30	7	3	241.9
92	12	31	7	3	241.4
93	1	1	7	4	241.5
93	1	2	10	4	241.4
93	1	3	10	4	241.5
93	1	4	10	4	241.5
93	1	5	10	4	241.35
93	1	6	10	4	241.3
93	1	7	10	4	241.5
93	1	8	10	4	241.6
93	1	9	10	4	241.6
93	1	10	10	4	241.5
93	1	11	10	4	241.5
93	1	12	7	6	241.4
93	1	13	7	6	241.6
93	1	14	7	3	241.7
93	1	15	7	3	241.4
93	1	17	7	2	241.5
93	1	18	7	2	241.7
93	1	19	7	2	241.8
93	1	20	7	2	242.1

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	1	21	7	2	241.7
93	1	22	7	4	241.8
93	1	23	7	3	241.3
93	1	24	7	3	241.3
93	1	25	6	3	241.4
93	1	26	10	3	241.4
93	1	27	10	3	242.3
93	1	28	10	3	241.5
93	1	29	10	3	241.3
93	1	30	10	3	241.25
93	1	31	10	3	241.3
93	2	1	10	4	241.3
93	2	2	10	4	240.1
93	2	3	10	4	240.1
93	2	4	10	4	240.3
93	2	5	6	4	240.3
93	2	6	2	3	240.3
93	2	7	7	3	240.4
93	2	8	10	3	240.8
93	2	9	10	3	240.8
93	2	10	10	3	242.2
93	2	11	10	3	240.3
93	2	12	10	3	240.2
93	2	13	10	3	240.2
93	2	14	10	3	240.2
93	2	15	10	3	240.1
93	2	16	6	3	239.9
93	2	16	10	3	240.75
93	2	17	10	3	239.5
93	2	18	7	3	239.8
93	2	18	10	3	240.65
93	2	19	7	2	241.3
93	2	20	7	3	241.1
93	2	21	7	4	240.9
93	2	22	7	4	240
93	2	23	7	3	239.7
93	2	24	7	4	240
93	2	25	7	3	239.5
93	2	26	7	3	239.2
93	2	27	7	4	239.1
93	2	28	7	3	239.1
93	3	1	7	3	239.3
93	3	2	7	4	239.2
93	3	3	7	3	239.7
93	3	4	7	4	239.3
93	3	5	7	4	239.2
93	3	6	7	3	239
93	3	9	7	4	239.1

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
FIC					
Year	Month	Day	Hour	Minute	Surface Level
91	1	1	7	6	203.3
91	1	2	7	6	203.3
91	1	3	7	6	203.3
91	1	4	7	6	203.35
91	1	5	7	6	203.3
91	1	6	7	6	203.3
91	1	7	7	6	203.4
91	1	8	7	6	203.4
91	1	9	7	6	203.3
91	1	14	7	6	204.5
91	1	21	7	6	203.6
91	1	22	7	6	203.55
91	1	23	7	6	203.6
91	1	24	7	6	203.6
91	1	25	7	6	203.5
91	1	26	7	6	203.6
91	1	27	7	6	203.6
91	1	28	7	6	203.6
91	1	29	7	6	203.6
91	1	30	7	6	203.6
91	1	31	7	6	203.6
91	2	1	7	6	203.7
91	2	4	7	6	203.6
91	2	5	7	6	203.6
91	2	6	7	6	203.45
91	2	7	7	6	203.5
91	2	8	7	6	203.5
91	2	11	7	6	203.5
91	2	13	7	6	203.5
91	2	14	7	6	203.5
91	2	15	7	6	203.5
91	2	17	7	6	203.5
91	2	26	7	3	204.6
91	2	27	7	2	204.8
91	2	28	7	2	205
91	3	1	7	2	205
91	3	2	7	2	204.9
91	3	4	7	3	205
91	3	5	7	3	204.9
91	3	9	7	2	207.1
91	3	10	4	2	207.4
91	3	12	7	3	207.7
91	3	13	7	3	207.7
91	3	14	7	3	207.7
91	3	15	7	3	208
91	3	16	7	3	208

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
91	3	17	7	2	208.1
91	3	18	7	3	208.4
91	3	19	7	3	208.6
91	3	20	7	2	208.7
91	3	21	7	3	208.7
91	3	22	7	2	208.6
91	3	23	7	3	208.6
91	3	24	7	3	208.8
91	3	25	7	3	208.8
91	3	26	7	3	208.7
91	3	27	7	3	208.7
91	3	28	7	3	208.6
91	3	29	7	3	208.6
91	3	30	7	3	208.6
91	3	31	7	3	208.7
91	4	1	7	3	208.8
91	4	2	7	3	208.7
91	4	3	7	3	208.7
91	4	4	7	3	208.8
91	4	5	7	3	209
91	4	6	7	3	208.9
91	4	7	7	3	208.8
91	4	8	7	4	208.8
91	4	9	7	3	208.8
91	4	10	7	3	208.8
91	4	11	7	3	208.8
91	4	12	7	3	208.8
91	4	13	7	4	208.9
91	4	14	7	3	209
91	4	15	7	3	209
91	4	16	7	10	209.1
91	4	17	7	3	209
91	4	18	7	6	209
91	4	19	7	5	209
91	4	20	7	6	209
91	4	21	7	5	209.1
91	4	22	7	6	209.1
91	4	23	7	6	209.2
91	4	24	7	5	209.1
91	4	25	7	5	209.2
91	4	26	3	5	209.1
91	4	27	7	5	209.1
91	4	28	7	6	209
91	4	29	7	5	209.1
91	4	30	7	6	209.1
91	5	1	6	6	209.2
91	5	2	7	5	209.2
91	5	3	7	6	209.2

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
91	5	4	7	5	209.1
91	5	5	7	5	209.1
91	5	6	7	5	209.1
91	5	7	7	5	209.2
91	5	8	7	5	209.3
91	5	9	7	5	209.3
91	5	10	7	5	209.3
91	5	11	7	5	209.6
91	5	12	7	5	209.7
91	5	13	7	5	209.8
91	5	14	7	5	209.8
91	5	15	7	5	209.7
91	5	16	7	6	209.8
91	5	17	7	6	209.9
91	5	18	7	6	209.8
91	5	19	7	5	209.8
91	5	20	7	6	209.7
91	5	21	7	6	209.6
91	5	22	7	5	209.5
91	5	23	7	5	209.4
91	5	24	7	5	209.4
91	5	25	7	5	209.4
91	5	26	7	5	209.3
91	5	27	7	5	209.3
91	5	28	7	5	209.4
91	5	29	7	5	209.4
91	5	30	7	5	209.4
91	5	31	7	5	209.3
91	6	1	7	5	209.2
91	6	2	7	5	209.2
91	6	3	7	5	209.2
91	6	4	7	5	209.1
91	6	5	7	5	209.2
91	6	6	7	6	209.2
91	6	7	7	5	209.2
91	6	8	7	5	209.2
91	6	9	7	5	209.2
91	6	10	7	6	209.2
91	6	11	7	5	209.3
91	6	12	7	4	209.2
91	6	13	7	5	209.2
91	6	14	7	5	209.2
91	6	15	7	5	209.2
91	6	16	7	5	209.2
91	6	17	7	5	209.1
91	6	18	7	5	209.2
91	6	19	7	5	209.3
91	6	20	7	5	209.2

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
91	6	21	7	6	209.2
91	6	22	7	5	209.2
91	6	23	7	5	209.2
91	6	24	7	5	209.3
91	6	25	7	6	209.3
91	6	26	7	3	209.3
91	6	27	7	2	209.3
91	6	28	7	3	209.3
91	6	29	7	2	209.3
91	7	2	7	6	209.1
91	7	3	7	6	209.2
91	7	4	7	10	209.2
91	7	5	7	6	209.2
91	7	6	7	6	209.2
91	7	7	7	10	209.1
91	7	8	7	6	209.2
91	7	9	7	6	209.3
91	7	10	6	6	209.2
91	7	11	7	6	209.2
91	7	12	7	6	209.2
91	7	13	7	6	209.2
91	7	14	7	6	209.2
91	7	15	7	6	209.2
91	7	16	7	6	209.2
91	7	17	7	5	209.1
91	7	18	7	5	209.1
91	7	19	7	5	209.2
91	7	20	7	5	209.2
91	7	21	7	5	209.1
91	7	22	7	5	209.1
91	7	23	7	5	209.1
91	7	24	7	5	209.2
91	7	25	7	1	209.2
91	7	26	7	2	209.1
91	7	27	7	2	209.1
91	7	28	7	2	209.1
91	7	29	7	2	209.1
91	7	30	7	2	209.1
91	7	31	7	2	209.1
91	8	1	7	2	209.1
91	8	2	7	2	209.1
91	8	3	7	2	209.1
91	8	4	7	2	209.1
91	8	5	7	2	209.1
91	8	6	7	2	209.1
91	8	7	7	6	209.1
91	8	8	7	6	209
91	8	9	7	4	209

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

* Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
91	8	10	7	4	209
91	8	11	7	4	209
91	8	12	7	4	209
91	8	13	7	4	209
91	8	14	7	4	209
91	8	15	7	3	209
91	8	17	7	2	209.1
91	8	18	7	3	209
91	8	19	7	2	209
91	8	20	7	4	209
91	8	21	7	3	209
91	8	22	7	3	209
91	8	23	7	2	209.4
91	8	24	7	2	209
91	8	25	7	2	209
91	8	26	7	3	209
91	8	27	7	3	209.1
91	8	28	7	3	209
91	8	29	7	2	208.9
91	8	30	7	10	208.9
91	8	31	7	2	209
91	9	1	7	2	208.9
91	9	2	7	2	208.8
91	9	3	7	2	208.8
91	9	4	7	3	208.8
91	9	6	7	2	209
91	9	7	7	2	208.9
91	9	8	7	2	208.9
91	9	9	7	3	209
91	9	10	7	2	208.9
91	9	11	7	3	208.7
91	9	12	7	2	208.8
91	9	13	7	2	208.9
91	9	14	7	3	208.8
91	9	15	7	2	208.7
91	9	16	7	3	208.8
91	9	17	7	3	208.7
91	9	18	7	3	208.8
91	9	19	7	3	208.8
91	9	20	7	2	208.8
91	9	21	7	2	208.6
91	9	22	7	3	208.6
91	9	23	7	3	208.7
91	9	24	7	2	208.6
91	9	25	7	3	208.7
91	9	26	7	3	208.8
91	9	27	7	2	208.9
91	9	28	7	2	208.8

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
91	9	29	6	2	208.7
91	10	1	0	3	208.8
91	10	10	4	2	208.5
91	11	6	6	2	208.3
91	11	10	0	3	208.2
91	11	13	6	3	208.2
91	11	17	4	3	208.4
91	11	21	4	2	208.1
91	12	7	5	3	208.1
91	12	18	4	2	208.1
92	1	3	3	4	207.9
92	1	23	2	3	207.8
92	1	28	7	3	207.9
92	2	10	2	3	207.8
92	3	14	6	2	207.6
92	4	5	6	3	207.5
92	4	16	4	3	207.7
92	4	19	3	2	207.4
92	4	23	5	3	207.4
92	4	27	3	3	207.4
92	6	10	7	3	207.1
92	6	13	7	5	207.1
92	6	15	7	3	207.1
92	6	16	7	3	207.1
92	6	17	7	3	207.1
92	6	18	7	3	207.1
92	6	19	7	2	207.1
92	6	20	7	2	207.1
92	6	21	7	3	207.1
92	6	22	7	3	207.1
92	6	23	7	3	207.2
92	6	24	7	3	207.2
92	6	25	7	3	207.2
92	6	26	7	2	207.1
92	6	27	7	3	207.1
92	6	28	6	6	207.4
92	6	29	5	6	207.4
92	6	30	7	6	207.3
92	7	3	7	6	207.2
92	7	4	7	6	207.3
92	7	5	7	6	207.2
92	7	6	7	6	207.1
92	7	7	7	6	207.1
92	7	8	7	6	207.1
92	7	9	7	6	207
92	7	10	7	6	207.1
92	7	11	7	6	207.2
92	7	12	7	6	207.2

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
92	7	13	7	6	207.2
92	7	14	7	6	207.1
92	7	15	7	6	207
92	7	16	7	6	207.1
92	7	17	7	6	207.1
92	7	18	7	6	207.1
92	7	19	7	6	207.1
92	7	20	7	6	207.1
92	7	21	7	5	207.1
92	7	22	7	6	207.1
92	7	24	7	5	207
92	7	25	7	6	207
92	7	26	7	6	207
92	7	27	7	5	207.1
92	7	28	7	6	207.1
92	7	29	7	6	207.1
92	7	30	7	6	207.1
92	7	31	7	5	207.1
92	8	1	7	6	207.1
92	8	2	6	6	207.1
92	8	3	7	6	207.1
92	8	4	7	6	207.1
92	8	5	7	5	207.1
92	8	6	7	5	207.1
92	8	7	7	5	207.1
92	8	8	7	6	207
92	8	9	7	6	207
92	8	10	7	5	207
92	8	11	7	6	207
92	8	12	7	6	207
92	8	13	7	6	207
92	8	14	7	6	207
92	8	15	7	6	207
92	8	16	7	6	207
92	8	17	7	6	207
92	8	18	7	6	207
92	8	19	7	6	207
92	8	20	7	6	207
92	8	21	7	5	207.1
92	8	22	7	4	207
92	8	23	7	4	206.9
92	8	24	7	4	206.8
92	8	25	7	4	206.8
92	8	26	7	3	206.8
92	8	27	7	4	206.9
92	8	28	7	2	206.9
92	8	29	7	2	206.8
92	8	30	7	2	206.8

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
92	8	31	7	2	206.8
92	9	1	7	2	206.8
92	9	2	7	2	206.9
92	9	3	7	4	206.9
92	9	8	10	2	206.8
92	9	14	10	2	206.8
92	9	21	10	2	206.9
92	9	28	10	2	206.8
92	10	5	10	3	206.55
92	10	9	10	3	206.45
92	10	12	10	3	206.55
92	10	29	7	3	206.6
92	10	30	7	3	206.5
92	10	31	7	3	206.4
92	11	1	7	3	206.3
92	11	2	7	3	206.2
92	11	3	7	3	206
92	11	4	7	3	206.2
92	12	2	6	3	206.1
92	12	3	6	3	206
92	12	4	7	3	206
92	12	6	7	2	206.1
92	12	7	7	3	206.3
92	12	8	7	3	206.3
92	12	9	7	3	206.2
92	12	10	7	3	206.3
92	12	11	7	3	206.2
92	12	14	7	3	206.1
92	12	15	7	3	206.1
92	12	16	7	4	206.1
92	12	17	7	3	206.3
92	12	18	7	3	206.1
92	12	19	7	3	206
92	12	20	7	4	206.2
92	12	21	7	4	206.1
92	12	23	7	4	206
92	12	24	7	3	206
92	12	25	7	3	206
92	12	26	7	3	206.2
92	12	27	7	3	206.2
92	12	28	7	3	206.3
92	12	30	7	3	206.1
92	12	31	7	3	206
93	1	1	7	4	206
93	1	5	10	4	206
93	1	12	10	4	205.5
93	1	14	10	4	206.1
93	1	17	7	2	206

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
93	1	19	10	4	206.1
93	1	25	10	4	205.95
93	2	1	10	3	205.7
93	2	8	10	3	206
93	2	16	6	3	205.7
93	2	18	7	3	205.8
93	2	19	7	2	206
93	2	20	7	3	206
93	2	21	7	4	205.9
93	2	22	7	4	205.7
93	2	23	7	3	205.7
93	2	24	7	4	205.8
93	2	25	7	3	205.6
93	2	26	7	3	205.5
93	2	27	7	4	205.5
93	2	28	7	3	205.6
93	3	1	7	3	205.6
93	3	2	7	4	205.6
93	3	3	7	3	205.7
93	3	4	7	4	205.6
93	3	5	7	4	205.6
93	3	6	7	3	205.6
93	3	8	10	4	205.7
93	3	9	7	4	205.6
93	3	10	7	5	205.6
93	3	11	7	4	205.6
93	3	12	7	4	205.6
93	3	13	7	3	205.7
93	3	14	7	4	205.8
93	3	15	7	3	205.9
93	3	16	7	4	205.6
93	3	17	7	3	205.7
93	3	18	7	4	205.8
93	3	19	7	3	205.6
93	3	20	7	4	205.7
93	3	21	7	4	205.7
93	3	22	7	3	205.8
93	3	23	7	3	205.9
93	3	24	7	4	205.8
93	3	25	7	3	205.7
93	3	26	7	3	205.8
93	3	27	7	3	205.8
93	3	28	7	3	205.8
93	3	29	6	3	205.8
93	3	30	7	3	205.7
93	3	31	7	3	205.7
93	4	1	7	3	205.9
93	4	2	7	6	205.8

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
93	4	3	7	6	205.8
93	4	4	7	5	205.8
93	4	5	7	6	205.8
93	4	6	7	6	205.8
93	4	7	7	6	205.7
93	4	8	7	6	205.8
93	4	9	7	6	205.8
93	4	10	7	5	205.9
93	4	11	7	6	205.8
93	4	12	7	6	205.7
93	4	19	10	3	205.7
93	4	26	10	3	205.7
93	4	28	7	3	205.7
93	4	29	7	3	205.7
93	4	30	7	6	205.8
93	5	1	3	6	205.8
93	5	2	7	6	205.8
93	5	3	7	6	206
93	5	3	10	6	206
93	5	17	10	6	205.9
93	5	24	10	6	205.7
93	6	17	7	5	206.8
93	6	18	7	6	206.8
93	6	25	7	3	201.4
93	6	26	7	3	201.6
93	6	27	7	4	201.5
93	6	28	7	3	201.5
93	6	29	7	4	201.5
93	6	30	6	3	201.5
93	7	1	7	6	201.5
93	7	2	7	6	201.6
93	7	3	7	3	201.6
93	7	4	7	4	201.6
93	7	5	7	3	201.6
93	7	6	7	3	201.5
93	7	7	7	4	201.5
93	7	8	7	4	201.6
93	7	9	7	5	201.6
93	7	10	7	3	201.5
93	7	11	7	3	201.5
93	7	12	7	2	201.5
93	7	13	7	3	201.5
93	7	14	7	6	201.5
93	7	15	7	6	201.5
93	7	16	7	6	201.6
93	7	17	7	7	201.5
93	7	18	7	6	201.6
93	9	9	16	3	201.9

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
93	9	10	7	4	201.8
93	9	10	16	3	201.9
93	9	11	7	4	201.8
93	9	11	16	3	201.9
93	9	12	7	4	201.7
93	9	12	16	3	201.9
93	9	13	7	4	201.7
93	9	13	16	3	201.7
93	9	14	7	4	201.8
93	9	14	16	3	201.8
93	9	15	7	4	201.7
93	9	15	16	3	201.8
93	9	16	7	4	201.7
93	9	16	16	3	201.8
93	9	17	7	4	201.8
93	9	17	16	3	201.7
93	9	18	7	4	201.9
93	9	18	16	3	201.8
93	9	19	7	4	201.8
93	9	19	16	3	201.8
93	9	20	7	4	201.8
93	9	20	16	3	201.8
93	9	21	7	4	201.6
93	9	21	16	3	201.7
93	9	22	7	4	201.6
93	9	22	16	3	201.6
93	9	23	7	4	201.6
93	9	23	16	3	201.6
93	9	24	7	4	201.7
93	9	24	16	3	201.7
93	9	25	7	4	201.6
93	9	25	16	3	201.6
93	9	26	7	4	201.5
93	9	26	16	3	201.5
93	9	27	7	4	201.5
93	9	27	16	3	201.5
93	9	28	7	4	201.5
93	9	28	16	3	201.6
93	9	29	7	4	201.5
93	9	29	16	3	201.5
93	9	30	7	3	201.6
93	10	1	7	6	201.5
93	10	2	7	5	201.4
93	10	3	7	6	201.6
93	10	4	7	6	201.7
93	10	5	7	6	201.7
93	10	6	7	6	201.7
93	10	7	7	5	201.7

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
93	10	8	7	4	201.6
93	10	9	7	3	201.6
93	10	10	7	10	201.6
93	10	11	7	3	201.6
93	10	12	7	4	201.5
93	10	13	7	3	201.5
93	10	14	7	4	201.5
93	10	15	7	4	201.6
93	10	16	7	4	201.6
93	10	17	7	3	201.5
93	10	18	7	4	201.5
93	10	19	7	4	201.5
93	10	20	7	3	201.4
93	10	21	7	4	201.5
93	10	22	7	4	201.6
93	10	23	16	4	201.6
93	10	24	16	4	201.65
93	10	25	16	4	201.55
93	10	26	16	4	201.45
93	10	27	16	4	201.6
93	10	28	16	4	201.7
93	10	29	16	4	201.65
93	10	30	16	4	201.7
93	10	31	16	4	201.8
93	11	1	16	3	201.6
93	11	2	16	3	201.55
93	11	3	16	3	201.75
93	11	4	16	3	201.6
93	11	5	16	3	201.5
93	11	13	16	3	201.5
93	11	14	16	3	201.4
93	11	15	16	3	201.6
93	11	16	16	3	201.7
93	11	17	15	4	201.7
93	11	17	16	3	201.7
93	11	18	7	4	201.6
93	11	19	7	4	201.5
93	11	19	16	3	201.5
93	11	20	7	4	201.6
93	11	20	16	3	201.6
93	11	21	7	4	201.8
93	11	21	16	3	201.7
93	11	22	7	4	201.7
93	11	22	16	3	201.8
93	11	23	7	4	201.4
93	11	23	16	3	201.5
93	11	24	7	4	*198.4
93	11	24	16	3	201.1

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
93	11	25	15	4	201.1
93	11	25	16	3	201.1
93	11	26	7	4	201.1
93	11	26	16	3	201.1
93	11	27	7	4	201.2
93	11	28	7	3	201.3
93	11	29	16	3	201.3
93	12	2	16	5	201.4
93	12	3	16	5	201.3
93	12	4	1	5	201.6
93	12	5	1	4	201.4
93	12	6	16	5	201.5
93	12	7	0	4	201.5
93	12	8	16	5	201.8
93	12	9	16	5	201.5
93	12	10	7	10	201.6
93	12	11	7	6	201.7
93	12	12	7	6	201.5
93	12	13	7	6	201.4
93	12	14	7	6	201.5
93	12	15	7	6	201.4
93	12	16	7	6	201.3
93	12	17	7	5	201.2
93	12	18	7	6	201.2
93	12	19	7	6	201.3
93	12	20	7	6	201.3
93	12	21	7	6	201.2
93	12	22	7	5	201.3
93	12	23	7	10	201.2
93	12	24	7	6	201.2
93	12	25	7	6	201.3
93	12	26	7	6	201.5
93	12	27	7	6	201.3
93	12	28	6	6	201.2
93	12	29	7	6	201.2
93	12	30	0	5	201.3
93	12	31	7	6	201.5
94	1	1	7	6	201.6
94	1	2	7	6	201.4
94	1	3	7	7	201.5
94	1	12	5	6	201.4
94	1	13	4	7	201.4
94	1	14	7	6	201.4
94	1	15	7	10	202
94	1	16	7	7	201.9
94	1	17	7	7	202
94	1	18	7	7	202.1
94	1	19	7	7	202.1

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

[illegible]

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	8	0	41
91	1	4	15	24	41
91	4	1	15	0	41
92	4	6	17	30	40.25
92	7	1	15	19	40.25
92	10	16	8	19	40.5
93	4	8	3	11	40.25
93	7	8	9	17	40.25
93	7	11	7	4	40.25
93	7	12	7	4	40.25
93	7	13	7	4	40.25
93	7	14	7	4	40.25
93	7	15	7	4	40.25
93	7	16	7	4	40.25
93	7	17	7	4	40.25
93	7	18	7	4	40.25
93	7	19	7	4	40.25
93	7	20	7	4	40.25
93	7	21	7	4	40.25
93	7	22	7	4	40.25
93	7	23	7	4	40.25
93	7	24	7	4	40.25
93	7	25	7	4	40.25
93	7	26	7	4	40.25
93	7	27	7	4	40.25
93	7	28	7	4	40.25
93	7	29	7	4	40.25
93	7	30	7	4	40.25
93	7	31	7	4	40.25
93	8	1	7	4	40.25
93	8	2	7	4	40.25
93	8	3	7	4	40.25
93	8	4	7	4	40.25
93	8	5	7	4	40.25
93	8	6	7	4	40.25
93	8	7	7	4	40.25
93	8	8	7	4	40.25
93	8	9	7	4	40.25
93	8	17	7	4	40.25
93	8	18	7	4	40.25
93	8	19	7	4	40.25
93	8	20	7	4	40.25
93	8	21	7	4	40.25
93	8	22	7	4	40.25
93	8	23	7	4	40.25
93	8	24	7	4	40.25

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	8	25	7	4	40.25
93	8	26	7	4	40.25
93	8	27	7	4	40.25
93	8	28	7	4	40.25
93	8	29	7	4	40.25
93	8	30	7	4	40.25
93	8	31	7	4	40.25
93	9	1	7	4	40.25
93	9	2	7	4	40.25
93	9	3	7	4	40.25
93	9	4	7	4	40.25
93	9	5	7	4	40.25
93	9	6	7	4	40.25
93	9	7	7	4	40.25
93	9	8	7	4	40.25
93	9	9	7	4	40.25
93	9	10	7	4	40.25
93	9	11	7	4	40.25
93	9	12	7	4	40.25
93	9	13	7	4	40.25
93	9	14	7	4	40.25
93	9	15	7	4	40.25
93	9	16	7	4	40.25
93	9	17	7	4	40.25
93	9	18	7	4	40.25
93	9	19	7	4	40.25
93	9	20	7	4	40.25
93	9	21	7	4	40.25
93	9	22	7	4	40.25
93	9	23	7	4	40.25
93	9	24	7	4	40.25
93	9	25	7	4	40.25
93	9	26	7	4	40.25
93	9	27	7	4	40.25
93	9	28	7	4	40.25
93	9	29	7	4	40.25
93	9	30	7	4	40.25
93	10	1	7	4	40.25
93	10	2	20	58	40.25
93	10	3	7	4	40.25
93	10	4	7	4	40.25
93	10	5	7	4	40.25
93	10	6	7	4	40.25
93	10	13	7	4	40.25
93	10	14	7	4	40.25
93	10	15	7	4	40.25
93	10	16	7	4	40.25
93	10	17	7	4	40.25

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	18	7	4	40.25
93	10	19	7	4	40.25
93	10	20	7	4	40.25
93	10	21	7	4	40.25
93	10	22	7	4	40.25
93	10	23	7	4	40.25
93	10	24	7	4	40.25
93	10	25	7	4	40.25
93	10	26	7	4	40.25
93	10	27	7	4	40.25
93	10	28	7	4	40.25
93	10	29	7	4	40.25
93	10	30	7	4	40.25
93	10	31	7	4	40.25
93	11	1	7	4	40.25
93	11	2	7	4	40.25
93	11	3	7	4	40.25
93	11	4	7	4	40.25
93	11	5	7	4	40.25
93	11	6	7	4	40.25
93	11	7	7	4	40.25
93	11	8	7	4	40.25
93	11	9	7	4	40.25
93	11	10	7	4	40.25
93	11	11	7	4	40.25
93	11	12	7	4	40.25
93	11	13	7	4	40.25
93	11	14	7	4	40.25
93	11	15	7	4	40.25
93	11	16	7	4	40.25
93	11	17	7	4	40.25
93	11	18	7	4	40.25
93	11	19	7	4	40.25
93	11	20	7	4	40.25
93	11	21	7	4	40.25
93	11	22	7	4	40.25
93	11	23	7	4	40.25
93	11	24	7	4	40.25
93	11	25	7	4	40.25
93	11	26	7	4	40.25
93	11	27	7	4	40.25
93	11	28	7	4	40.25
93	11	29	7	4	40.25
93	11	30	7	4	40.25
93	12	1	7	4	40.25
93	12	2	7	4	40.25
93	12	3	7	4	40.25
93	12	4	7	4	40.25

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	15	24	37
91	4	1	15	0	36.25
92	11	3	12	56	36.5
93	4	8	3	11	37
93	7	8	9	17	37
93	7	11	7	4	37
93	7	12	7	4	37
93	7	13	7	4	37
93	7	14	7	4	37
93	7	15	7	4	37
93	7	16	7	4	37
93	7	17	7	4	37
93	7	18	7	4	37
93	7	19	7	4	37
93	7	20	7	4	37
93	7	21	7	4	37
93	7	22	7	4	37
93	7	23	7	4	37
93	7	24	7	4	37
93	7	25	7	4	37
93	7	26	7	4	37
93	7	27	7	4	37
93	7	28	7	4	37
93	7	29	7	4	37
93	7	30	7	4	37
93	7	31	7	4	37
93	8	1	7	4	37
93	8	2	7	4	37
93	8	3	7	4	37
93	8	4	7	4	37
93	8	5	7	4	37
93	8	6	7	4	37
93	8	7	7	4	37
93	8	8	7	4	37
93	8	9	7	4	37
93	8	17	7	4	37
93	8	18	7	4	37
93	8	19	7	4	37
93	8	20	7	4	37
93	8	21	7	4	37
93	8	22	7	4	37
93	8	23	7	4	37
93	8	24	7	4	37
93	8	25	7	4	37
93	8	26	7	4	37
93	8	27	7	4	37

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	8	28	7	4	37
93	8	29	7	4	37
93	8	30	7	4	37
93	8	31	7	4	37
93	9	1	7	4	37
93	9	2	7	4	37
93	9	3	7	4	37
93	9	4	7	4	37
93	9	5	7	4	37
93	9	6	7	4	37
93	9	7	7	4	37
93	9	8	7	4	37
93	9	9	7	4	37
93	9	10	7	4	37
93	9	11	7	4	37
93	9	12	7	4	37
93	9	13	7	4	37
93	9	14	7	4	37
93	9	15	7	4	37
93	9	16	7	4	37
93	9	17	7	4	37
93	9	18	7	4	37
93	9	19	7	4	37
93	9	20	7	4	37
93	9	21	7	4	37
93	9	22	7	4	37
93	9	23	7	4	37
93	9	24	7	4	37
93	9	25	7	4	37
93	9	26	7	4	37
93	9	27	7	4	37
93	9	28	7	4	37
93	9	29	7	4	37
93	9	30	7	4	37
93	10	1	7	4	37
93	10	2	20	58	37
93	10	3	7	4	37
93	10	4	7	4	37
93	10	5	7	4	37
93	10	6	7	4	37
93	10	13	7	4	37
93	10	14	7	4	37
93	10	15	7	4	37
93	10	16	7	4	37
93	10	17	7	4	37
93	10	18	7	4	37
93	10	19	7	4	37
93	10	20	7	4	37

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	21	7	4	37
93	10	22	7	4	37
93	10	23	7	4	37
93	10	24	7	4	37
93	10	25	7	4	37
93	10	26	7	4	37
93	10	27	7	4	37
93	10	28	7	4	37
93	10	29	7	4	37
93	10	30	7	4	37
93	10	31	7	4	37
93	11	1	7	4	37
93	11	2	7	4	37
93	11	3	7	4	37
93	11	4	7	4	37
93	11	5	7	4	37
93	11	6	7	4	37
93	11	7	7	4	37
93	11	8	7	4	37
93	11	9	7	4	37
93	11	10	7	4	37
93	11	11	7	4	37
93	11	12	7	4	37
93	11	13	7	4	37
93	11	14	7	4	37
93	11	15	7	4	37
93	11	16	7	4	37
93	11	17	7	4	37
93	11	18	7	4	37
93	11	19	7	4	37
93	11	20	7	4	37
93	11	21	7	4	37
93	11	22	7	4	37
93	11	23	7	4	37
93	11	24	7	4	37
93	11	25	7	4	37
93	11	26	7	4	37
93	11	27	7	4	37
93	11	28	7	4	37
93	11	29	7	4	37
93	11	30	7	4	37
93	12	1	7	4	37
93	12	2	7	4	37
93	12	3	7	4	37
93	12	4	7	4	37
93	12	5	7	4	37
93	12	6	7	4	37
93	12	7	7	4	37

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	12	8	7	4	37
93	12	13	7	4	37
93	12	14	7	4	37
93	12	15	7	4	37
93	12	16	7	4	37
93	12	17	7	4	37
93	12	18	7	4	37
93	12	19	7	4	37
93	12	20	7	4	37
93	12	21	7	4	37
93	12	22	7	4	37
93	12	23	7	4	37
93	12	24	7	4	37
93	12	25	7	4	37
93	12	26	7	4	37
93	12	27	7	4	37
93	12	28	7	4	37
93	12	29	7	4	37
93	12	30	7	4	37
93	12	31	7	4	37
94	1	1	7	4	37
94	1	2	7	4	37
94	1	3	15	26	37.75
94	1	4	7	4	37.75
94	1	5	7	4	37.75
94	1	6	7	4	37.75
94	1	7	7	4	37.75
94	1	8	7	4	37.75
94	1	9	7	4	37.75
94	1	10	7	4	37.75
94	1	11	7	4	37.75
94	1	12	7	4	37.75
94	1	13	7	4	37.75
94	1	14	7	4	37.75
94	1	15	7	4	37.75
94	1	16	7	4	37.75
94	1	17	7	4	37.75
94	1	18	7	4	37.75
94	1	19	7	4	37.75
94	1	20	7	4	37.75
94	1	21	7	4	37.75
94	1	22	7	4	37.75
94	1	23	7	4	37.75
94	1	24	7	4	37.75
94	1	25	7	4	37.75
94	1	26	7	4	37.75
94	1	27	7	4	37.75
94	1	28	7	4	37.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	15	24	92
91	4	1	15	0	92
91	7	1	15	24	92
91	10	2	15	24	94.5
92	1	7	15	19	94.5
92	4	8	9	15	95
92	7	1	15	19	95
92	10	2	15	34	95
93	1	5	10	0	95
93	4	8	3	11	95
93	7	8	9	17	95
93	7	11	7	4	95
93	7	12	7	4	95
93	7	13	7	4	95
93	7	14	7	4	95
93	7	15	7	4	95
93	7	16	7	4	95
93	7	17	7	4	95
93	7	18	7	4	95
93	7	19	7	4	95
93	7	20	7	4	95
93	7	21	7	4	95
93	7	22	7	4	95
93	7	23	7	4	95
93	7	24	7	4	95
93	7	25	7	4	95
93	7	26	7	4	95
93	7	27	7	4	95
93	7	28	7	4	95
93	7	29	7	4	95
93	7	30	7	4	95
93	7	31	7	4	95
93	8	1	7	4	95
93	8	2	7	4	95
93	8	3	7	4	95
93	8	4	7	4	95
93	8	5	7	4	95
93	8	6	7	4	95
93	8	7	7	4	95
93	8	8	7	4	95
93	8	9	7	4	95
93	8	17	7	4	95
93	8	18	7	4	95
93	8	19	7	4	95
93	8	20	7	4	95
93	8	21	7	4	95

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	8	22	7	4	95
93	8	23	7	4	95
93	8	24	7	4	95
93	8	25	7	4	95
93	8	26	7	4	95
93	8	27	7	4	95
93	8	28	7	4	95
93	8	29	7	4	95
93	8	30	7	4	95
93	8	31	7	4	95
93	9	1	7	4	95
93	9	2	7	4	95
93	9	3	7	4	95
93	9	4	7	4	95
93	9	5	7	4	95
93	9	6	7	4	95
93	9	7	7	4	95
93	9	8	7	4	95
93	9	9	7	4	95
93	9	10	7	4	95
93	9	11	7	4	95
93	9	12	7	4	95
93	9	13	7	4	95
93	9	14	7	4	95
93	9	15	7	4	95
93	9	16	7	4	95
93	9	17	7	4	95
93	9	18	7	4	95
93	9	19	7	4	95
93	9	20	7	4	95
93	9	21	7	4	95
93	9	22	7	4	95
93	9	23	7	4	95
93	9	24	7	4	95
93	9	25	7	4	95
93	9	26	7	4	95
93	9	27	7	4	95
93	9	28	7	4	95
93	9	29	7	4	95
93	9	30	7	4	95
93	10	1	7	4	95
93	10	2	20	58	96
93	10	3	7	4	96
93	10	4	7	4	96
93	10	5	7	4	96
93	10	6	7	4	96
93	10	13	7	4	96
93	10	14	7	4	96

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	15	7	4	96
93	10	16	7	4	96
93	10	17	7	4	96
93	10	18	7	4	96
93	10	19	7	4	96
93	10	20	7	4	96
93	10	21	7	4	96
93	10	22	7	4	96
93	10	23	7	4	96
93	10	24	7	4	96
93	10	25	7	4	96
93	10	26	7	4	96
93	10	27	7	4	96
93	10	28	7	4	96
93	10	29	7	4	96
93	10	30	7	4	96
93	10	31	7	4	96
93	11	1	7	4	96
93	11	2	7	4	96
93	11	3	7	4	96
93	11	4	7	4	96
93	11	5	7	4	96
93	11	6	7	4	96
93	11	7	7	4	96
93	11	8	7	4	96
93	11	9	7	4	96
93	11	10	7	4	96
93	11	11	7	4	96
93	11	12	7	4	96
93	11	13	7	4	96
93	11	14	7	4	96
93	11	15	7	4	96
93	11	16	7	4	96
93	11	17	7	4	96
93	11	18	7	4	96
93	11	19	7	4	96
93	11	20	7	4	96
93	11	21	7	4	96
93	11	22	7	4	96
93	11	23	7	4	96
93	11	24	7	4	96
93	11	25	7	4	96
93	11	26	7	4	96
93	11	27	7	4	96
93	11	28	7	4	96
93	11	29	7	4	96
93	11	30	7	4	96
93	12	1	7	4	96

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	12	2	7	4	96
93	12	3	7	4	96
93	12	4	7	4	96
93	12	5	7	4	96
93	12	6	7	4	96
93	12	7	7	4	96
93	12	8	7	4	96
93	12	13	7	4	96
93	12	14	7	4	96
93	12	15	7	4	96
93	12	16	7	4	96
93	12	17	7	4	96
93	12	18	7	4	96
93	12	19	7	4	96
93	12	20	7	4	96
93	12	21	7	4	96
93	12	22	7	4	96
93	12	23	7	4	96
93	12	24	7	4	96
93	12	25	7	4	96
93	12	26	7	4	96
93	12	27	7	4	96
93	12	28	7	4	96
93	12	29	7	4	96
93	12	30	7	4	96
93	12	31	7	4	96
94	1	1	7	4	96
94	1	2	7	4	96
94	1	3	15	26	95.75
94	1	4	7	4	95.75
94	1	5	7	4	95.75
94	1	6	7	4	95.75
94	1	7	7	4	95.75
94	1	8	7	4	95.75
94	1	9	7	4	95.75
94	1	10	7	4	95.75
94	1	11	7	4	95.75
94	1	12	7	4	95.75
94	1	13	7	4	95.75
94	1	14	7	4	95.75
94	1	15	7	4	95.75
94	1	16	7	4	95.75
94	1	17	7	4	95.75
94	1	18	7	4	95.75
94	1	19	7	4	95.75
94	1	20	7	4	95.75
94	1	21	7	4	95.75
94	1	22	7	4	95.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	10	0	27.5
91	1	4	15	24	27.5
91	4	1	15	0	27.5
92	4	8	9	15	27.25
92	7	1	15	19	26.75
92	10	2	15	34	26.75
93	4	8	3	11	26.75
93	7	8	9	17	26.75
93	7	11	7	4	26.75
93	7	12	7	4	26.75
93	7	13	7	4	26.75
93	7	14	7	4	26.75
93	7	15	7	4	26.75
93	7	16	7	4	26.75
93	7	17	7	4	26.75
93	7	18	7	4	26.75
93	7	19	7	4	26.75
93	7	20	7	4	26.75
93	7	21	7	4	26.75
93	7	22	7	4	26.75
93	7	23	7	4	26.75
93	7	24	7	4	26.75
93	7	25	7	4	26.75
93	7	26	7	4	26.75
93	7	27	7	4	26.75
93	7	28	7	4	26.75
93	7	29	7	4	26.75
93	7	30	7	4	26.75
93	7	31	7	4	26.75
93	8	1	7	4	26.75
93	8	2	7	4	26.75
93	8	3	7	4	26.75
93	8	4	7	4	26.75
93	8	5	7	4	26.75
93	8	6	7	4	26.75
93	8	7	7	4	26.75
93	8	8	7	4	26.75
93	8	9	7	4	26.75
93	8	17	7	4	26.75
93	8	18	7	4	26.75
93	8	19	7	4	26.75
93	8	20	7	4	26.75
93	8	21	7	4	26.75
93	8	22	7	4	26.75
93	8	23	7	4	26.75
93	8	24	7	4	26.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
93	8	25	7	4	26.75
93	8	26	7	4	26.75
93	8	27	7	4	26.75
93	8	28	7	4	26.75
93	8	29	7	4	26.75
93	8	30	7	4	26.75
93	8	31	7	4	26.75
93	9	1	7	4	26.75
93	9	2	7	4	26.75
93	9	3	7	4	26.75
93	9	4	7	4	26.75
93	9	5	7	4	26.75
93	9	6	7	4	26.75
93	9	7	7	4	26.75
93	9	8	7	4	26.75
93	9	9	7	4	26.75
93	9	10	7	4	26.75
93	9	11	7	4	26.75
93	9	12	7	4	26.75
93	9	13	7	4	26.75
93	9	14	7	4	26.75
93	9	15	7	4	26.75
93	9	16	7	4	26.75
93	9	17	7	4	26.75
93	9	18	7	4	26.75
93	9	19	7	4	26.75
93	9	20	7	4	26.75
93	9	21	7	4	26.75
93	9	22	7	4	26.75
93	9	23	7	4	26.75
93	9	24	7	4	26.75
93	9	25	7	4	26.75
93	9	26	7	4	26.75
93	9	27	7	4	26.75
93	9	28	7	4	26.75
93	9	29	7	4	26.75
93	9	30	7	4	26.75
93	10	1	7	4	26.75
93	10	2	20	58	*148
93	10	3	7	4	28
93	10	4	7	4	28
93	10	5	7	4	28
93	10	6	7	4	28
93	10	13	7	4	28
93	10	14	7	4	28
93	10	15	7	4	28
93	10	16	7	4	28
93	10	17	7	4	28

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	18	7	4	28
93	10	19	7	4	28
93	10	20	7	4	28
93	10	21	7	4	28
93	10	22	7	4	28
93	10	23	7	4	28
93	10	24	7	4	28
93	10	25	7	4	28
93	10	26	7	4	28
93	10	27	7	4	28
93	10	28	7	4	28
93	10	29	7	4	28
93	10	30	7	4	28
93	10	31	7	4	28
93	11	1	7	4	28
93	11	2	7	4	28
93	11	3	7	4	28
93	11	4	7	4	28
93	11	5	7	4	28
93	11	6	7	4	28
93	11	7	7	4	28
93	11	8	7	4	28
93	11	9	7	4	28
93	11	10	7	4	28
93	11	11	7	4	28
93	11	12	7	4	28
93	11	13	7	4	28
93	11	14	7	4	28
93	11	15	7	4	28
93	11	16	7	4	28
93	11	17	7	4	28
93	11	18	7	4	28
93	11	19	7	4	28
93	11	20	7	4	28
93	11	21	7	4	28
93	11	22	7	4	28
93	11	23	7	4	28
93	11	24	7	4	28
93	11	25	7	4	28
93	11	26	7	4	28
93	11	27	7	4	28
93	11	28	7	4	28
93	11	29	7	4	28
93	11	30	7	4	28
93	12	1	7	4	28
93	12	2	7	4	28
93	12	3	7	4	28
93	12	4	7	4	28

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Year	Month	Day	Hour	Minute	Surface Level
93	12	5	7	4	28
93	12	6	7	4	28
93	12	7	7	4	28
93	12	8	7	4	28
93	12	13	7	4	28
93	12	14	7	4	28
93	12	15	7	4	28
93	12	16	7	4	28
93	12	17	7	4	28
93	12	18	7	4	28
93	12	19	7	4	28
93	12	20	7	4	28
93	12	21	7	4	28
93	12	22	7	4	28
93	12	23	7	4	28
93	12	24	7	4	28
93	12	25	7	4	28
93	12	26	7	4	28
93	12	27	7	4	28
93	12	28	7	4	28
93	12	29	7	4	28
93	12	30	7	4	28
93	12	31	7	4	28
94	1	1	7	4	28
94	1	2	7	4	28
94	1	3	15	26	27.5
94	1	4	7	4	27.5
94	1	5	7	4	27.5
94	1	6	7	4	27.5
94	1	7	7	4	27.5
94	1	8	7	4	27.5
94	1	9	7	4	27.5
94	1	10	7	4	27.5
94	1	11	7	4	27.5
94	1	12	7	4	27.5
94	1	13	7	4	27.5
94	1	14	7	4	27.5
94	1	15	7	4	27.5
94	1	16	7	4	27.5
94	1	17	7	4	27.5
94	1	18	7	4	27.5
94	1	19	7	4	27.5
94	1	20	7	4	27.5
94	1	21	7	4	27.5
94	1	22	7	4	27.5
94	1	23	7	4	27.5
94	1	24	7	4	27.5
94	1	25	7	4	27.5

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

*Inaccurate Data

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	10	0	49.5
91	1	4	15	24	49.5
91	4	1	15	0	49.5
92	4	6	17	30	49.75
92	7	1	15	19	49.75
92	10	2	15	34	49.75
93	4	8	3	11	49.72
93	7	8	9	17	49.75
93	7	11	7	4	49.75
93	7	12	7	4	49.75
93	7	13	7	4	49.75
93	7	14	7	4	49.75
93	7	15	7	4	49.75
93	7	16	7	4	49.75
93	7	17	7	4	49.75
93	7	18	7	4	49.75
93	7	19	7	4	49.75
93	7	20	7	4	49.75
93	7	21	7	4	49.75
93	7	22	7	4	49.75
93	7	23	7	4	49.75
93	7	24	7	4	49.75
93	7	25	7	4	49.75
93	7	26	7	4	49.75
93	7	27	7	4	49.75
93	7	28	7	4	49.75
93	7	29	7	4	49.75
93	7	30	7	4	49.75
93	7	31	7	4	49.75
93	8	1	7	4	49.75
93	8	2	7	4	49.75
93	8	3	7	4	49.75
93	8	4	7	4	49.75
93	8	5	7	4	49.75
93	8	6	7	4	49.75
93	8	7	7	4	49.75
93	8	8	7	4	49.75
93	8	9	7	4	49.75
93	8	17	7	4	49.75
93	8	18	7	4	49.75
93	8	19	7	4	49.75
93	8	20	7	4	49.75
93	8	21	7	4	49.75
93	8	22	7	4	49.75
93	8	23	7	4	49.75
93	8	24	7	4	49.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.
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Year	Month	Day	Hour	Minute	Surface Level
93	8	25	7	4	49.75
93	8	26	7	4	49.75
93	8	27	7	4	49.75
93	8	28	7	4	49.75
93	8	29	7	4	49.75
93	8	30	7	4	49.75
93	8	31	7	4	49.75
93	9	1	7	4	49.75
93	9	2	7	4	49.75
93	9	3	7	4	49.75
93	9	4	7	4	49.75
93	9	5	7	4	49.75
93	9	6	7	4	49.75
93	9	7	7	4	49.75
93	9	8	7	4	49.75
93	9	9	7	4	49.75
93	9	10	7	4	49.75
93	9	11	7	4	49.75
93	9	12	7	4	49.75
93	9	13	7	4	49.75
93	9	14	7	4	49.75
93	9	15	7	4	49.75
93	9	16	7	4	49.75
93	9	17	7	4	49.75
93	9	18	7	4	49.75
93	9	19	7	4	49.75
93	9	20	7	4	49.75
93	9	21	7	4	49.75
93	9	22	7	4	49.75
93	9	23	7	4	49.75
93	9	24	7	4	49.75
93	9	25	7	4	49.75
93	9	26	7	4	49.75
93	9	27	7	4	49.75
93	9	28	7	4	49.75
93	9	29	7	4	49.75
93	9	30	7	4	49.75
93	10	1	7	4	49.75
93	10	2	20	58	49.75
93	10	3	7	4	49.75
93	10	4	7	4	49.75
93	10	5	7	4	49.75
93	10	6	7	4	49.75
93	10	13	7	4	49.75
93	10	14	7	4	49.75
93	10	15	7	4	49.75
93	10	16	7	4	49.75
93	10	17	7	4	49.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	18	7	4	49.75
93	10	19	7	4	49.75
93	10	20	7	4	49.75
93	10	21	7	4	49.75
93	10	22	7	4	49.75
93	10	23	7	4	49.75
93	10	24	7	4	49.75
93	10	25	7	4	49.75
93	10	26	7	4	49.75
93	10	27	7	4	49.75
93	10	28	7	4	49.75
93	10	29	7	4	49.75
93	10	30	7	4	49.75
93	10	31	7	4	49.75
93	11	1	7	4	49.75
93	11	2	7	4	49.75
93	11	3	7	4	49.75
93	11	4	7	4	49.75
93	11	5	7	4	49.75
93	11	6	7	4	49.75
93	11	7	7	4	49.75
93	11	8	7	4	49.75
93	11	9	7	4	49.75
93	11	10	7	4	49.75
93	11	11	7	4	49.75
93	11	12	7	4	49.75
93	11	13	7	4	49.75
93	11	14	7	4	49.75
93	11	15	7	4	49.75
93	11	16	7	4	49.75
93	11	17	7	4	49.75
93	11	18	7	4	49.75
93	11	19	7	4	49.75
93	11	20	7	4	49.75
93	11	21	7	4	49.75
93	11	22	7	4	49.75
93	11	23	7	4	49.75
93	11	24	7	4	49.75
93	11	25	7	4	49.75
93	11	26	7	4	49.75
93	11	27	7	4	49.75
93	11	28	7	4	49.75
93	11	29	7	4	49.75
93	11	30	7	4	49.75
93	12	1	7	4	49.75
93	12	2	7	4	49.75
93	12	3	7	4	49.75
93	12	4	7	4	49.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	12	5	7	4	49.75
93	12	6	7	4	49.75
93	12	7	7	4	49.75
93	12	8	7	4	49.75
93	12	13	7	4	49.75
93	12	14	7	4	49.75
93	12	15	7	4	49.75
93	12	16	7	4	49.75
93	12	17	7	4	49.75
93	12	18	7	4	49.75
93	12	19	7	4	49.75
93	12	20	7	4	49.75
93	12	21	7	4	49.75
93	12	22	7	4	49.75
93	12	23	7	4	49.75
93	12	24	7	4	49.75
93	12	25	7	4	49.75
93	12	26	7	4	49.75
93	12	27	7	4	49.75
93	12	28	7	4	49.75
93	12	29	7	4	49.75
93	12	30	7	4	49.75
93	12	31	7	4	49.75
94	1	1	7	4	49.75
94	1	2	7	4	49.75
94	1	3	15	26	49.5
94	1	4	7	4	49.5
94	1	5	7	4	49.5
94	1	6	7	4	49.5
94	1	7	7	4	49.5
94	1	8	7	4	49.5
94	1	9	7	4	49.5
94	1	10	7	4	49.5
94	1	11	7	4	49.5
94	1	12	7	4	49.5
94	1	13	7	4	49.5
94	1	14	7	4	49.5
94	1	15	7	4	49.5
94	1	16	7	4	49.5
94	1	17	7	4	49.5
94	1	18	7	4	49.5
94	1	19	7	4	49.5
94	1	20	7	4	49.5
94	1	21	7	4	49.5
94	1	22	7	4	49.5
94	1	23	7	4	49.5
94	1	24	7	4	49.5
94	1	25	7	4	49.5

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.
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Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	10	0	35
91	1	4	15	24	35
91	4	1	15	0	35
92	4	8	9	15	33.75
92	7	1	15	19	33.75
92	10	2	15	34	33.75
93	4	8	3	11	33.75
93	7	8	9	17	33.75
93	7	11	7	4	33.75
93	7	12	7	4	33.75
93	7	13	7	4	33.75
93	7	14	7	4	33.75
93	7	15	7	4	33.75
93	7	16	7	4	33.75
93	7	17	7	4	33.75
93	7	18	7	4	33.75
93	7	19	7	4	33.75
93	7	20	7	4	33.75
93	7	21	7	4	33.75
93	7	22	7	4	33.75
93	7	23	7	4	33.75
93	7	24	7	4	33.75
93	7	25	7	4	33.75
93	7	26	7	4	33.75
93	7	27	7	4	33.75
93	7	28	7	4	33.75
93	7	29	7	4	33.75
93	7	30	7	4	33.75
93	7	31	7	4	33.75
93	8	1	7	4	33.75
93	8	2	7	4	33.75
93	8	3	7	4	33.75
93	8	4	7	4	33.75
93	8	5	7	4	33.75
93	8	6	7	4	33.75
93	8	7	7	4	33.75
93	8	8	7	4	33.75
93	8	9	7	4	33.75
93	8	17	7	4	33.75
93	8	18	7	4	33.75
93	8	19	7	4	33.75
93	8	20	7	4	33.75
93	8	21	7	4	33.75
93	8	22	7	4	33.75
93	8	23	7	4	33.75
93	8	24	7	4	33.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	8	25	7	4	33.75
93	8	26	7	4	33.75
93	8	27	7	4	33.75
93	8	28	7	4	33.75
93	8	29	7	4	33.75
93	8	30	7	4	33.75
93	8	31	7	4	33.75
93	9	1	7	4	33.75
93	9	2	7	4	33.75
93	9	3	7	4	33.75
93	9	4	7	4	33.75
93	9	5	7	4	33.75
93	9	6	7	4	33.75
93	9	7	7	4	33.75
93	9	8	7	4	33.75
93	9	9	7	4	33.75
93	9	10	7	4	33.75
93	9	11	7	4	33.75
93	9	12	7	4	33.75
93	9	13	7	4	33.75
93	9	14	7	4	33.75
93	9	15	7	4	33.75
93	9	16	7	4	33.75
93	9	17	7	4	33.75
93	9	18	7	4	33.75
93	9	19	7	4	33.75
93	9	20	7	4	33.75
93	9	21	7	4	33.75
93	9	22	7	4	33.75
93	9	23	7	4	33.75
93	9	24	7	4	33.75
93	9	25	7	4	33.75
93	9	26	7	4	33.75
93	9	27	7	4	33.75
93	9	28	7	4	33.75
93	9	29	7	4	33.75
93	9	30	7	4	33.75
93	10	1	7	4	33.75
93	10	2	20	58	34.75
93	10	3	7	4	34.75
93	10	4	7	4	34.75
93	10	5	7	4	34.75
93	10	6	7	4	34.75
93	10	13	7	4	34.75
93	10	14	7	4	34.75
93	10	15	7	4	34.75
93	10	16	7	4	34.75
93	10	17	7	4	34.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	18	7	4	34.75
93	10	19	7	4	34.75
93	10	20	7	4	34.75
93	10	21	7	4	34.75
93	10	22	7	4	34.75
93	10	23	7	4	34.75
93	10	24	7	4	34.75
93	10	25	7	4	34.75
93	10	26	7	4	34.75
93	10	27	7	4	34.75
93	10	28	7	4	34.75
93	10	29	7	4	34.75
93	10	30	7	4	34.75
93	10	31	7	4	34.75
93	11	1	7	4	34.75
93	11	2	7	4	34.75
93	11	3	7	4	34.75
93	11	4	7	4	34.75
93	11	5	7	4	34.75
93	11	6	7	4	34.75
93	11	7	7	4	34.75
93	11	8	7	4	34.75
93	11	9	7	4	34.75
93	11	10	7	4	34.75
93	11	11	7	4	34.75
93	11	12	7	4	34.75
93	11	13	7	4	34.75
93	11	14	7	4	34.75
93	11	15	7	4	34.75
93	11	16	7	4	34.75
93	11	17	7	4	34.75
93	11	18	7	4	34.75
93	11	19	7	4	34.75
93	11	20	7	4	34.75
93	11	21	7	4	34.75
93	11	22	7	4	34.75
93	11	23	7	4	34.75
93	11	24	7	4	34.75
93	11	25	7	4	34.75
93	11	26	7	4	34.75
93	11	27	7	4	34.75
93	11	28	7	4	34.75
93	11	29	7	4	34.75
93	11	30	7	4	34.75
93	12	1	7	4	34.75
93	12	2	7	4	34.75
93	12	3	7	4	34.75
93	12	4	7	4	34.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	12	5	7	4	34.75
93	12	6	7	4	34.75
93	12	7	7	4	34.75
93	12	8	7	4	34.75
93	12	13	7	4	34.75
93	12	14	7	4	34.75
93	12	15	7	4	34.75
93	12	16	7	4	34.75
93	12	17	7	4	34.75
93	12	18	7	4	34.75
93	12	19	7	4	34.75
93	12	20	7	4	34.75
93	12	21	7	4	34.75
93	12	22	7	4	34.75
93	12	23	7	4	34.75
93	12	24	7	4	34.75
93	12	25	7	4	34.75
93	12	26	7	4	34.75
93	12	27	7	4	34.75
93	12	28	7	4	34.75
93	12	29	7	4	34.75
93	12	30	7	4	34.75
93	12	31	7	4	34.75
94	1	1	7	4	34.75
94	1	2	7	4	34.75
94	1	3	15	26	35
94	1	4	7	4	35
94	1	5	7	4	35
94	1	6	7	4	35
94	1	7	7	4	35
94	1	8	7	4	35
94	1	9	7	4	35
94	1	10	7	4	35
94	1	11	7	4	35
94	1	12	7	4	35
94	1	13	7	4	35
94	1	14	7	4	35
94	1	15	7	4	35
94	1	16	7	4	35
94	1	17	7	4	35
94	1	18	7	4	35
94	1	19	7	4	35
94	1	20	7	4	35
94	1	21	7	4	35
94	1	22	7	4	35
94	1	23	7	4	35
94	1	24	7	4	35
94	1	25	7	4	35

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	10	0	14.75
91	1	4	15	24	14.75
91	4	1	15	0	14.75
92	4	8	9	15	15
92	7	1	15	19	15
92	10	16	8	19	15
93	2	2	13	27	15
93	4	8	3	11	15
93	7	8	9	17	15
93	7	11	7	4	15
93	7	12	7	4	15
93	7	13	7	4	15
93	7	14	7	4	15
93	7	15	7	4	15
93	7	16	7	4	15
93	7	17	7	4	15
93	7	18	7	4	15
93	7	19	7	4	15
93	7	20	7	4	15
93	7	21	7	4	15
93	7	22	7	4	15
93	7	23	7	4	15
93	7	24	7	4	15
93	7	25	7	4	15
93	7	26	7	4	15
93	7	27	7	4	15
93	7	28	7	4	15
93	7	29	7	4	15
93	7	30	7	4	15
93	7	31	7	4	15
93	8	1	7	4	15
93	8	2	7	4	15
93	8	3	7	4	15
93	8	4	7	4	15
93	8	5	7	4	15
93	8	6	7	4	15
93	8	7	7	4	15
93	8	8	7	4	15
93	8	9	7	4	15
93	8	17	7	4	15
93	8	18	7	4	15
93	8	19	7	4	15
93	8	20	7	4	15
93	8	21	7	4	15
93	8	22	7	4	15
93	8	23	7	4	15

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	8	24	7	4	15
93	8	25	7	4	15
93	8	26	7	4	15
93	8	27	7	4	15
93	8	28	7	4	15
93	8	29	7	4	15
93	8	30	7	4	15
93	8	31	7	4	15
93	9	1	7	4	15
93	9	2	7	4	15
93	9	3	7	4	15
93	9	4	7	4	15
93	9	5	7	4	15
93	9	6	7	4	15
93	9	7	7	4	15
93	9	8	7	4	15
93	9	9	7	4	15
93	9	10	7	4	15
93	9	11	7	4	15
93	9	12	7	4	15
93	9	13	7	4	15
93	9	14	7	4	15
93	9	15	7	4	15
93	9	16	7	4	15
93	9	17	7	4	15
93	9	18	7	4	15
93	9	19	7	4	15
93	9	20	7	4	15
93	9	21	7	4	15
93	9	22	7	4	15
93	9	23	7	4	15
93	9	24	7	4	15
93	9	25	7	4	15
93	9	26	7	4	15
93	9	27	7	4	15
93	9	28	7	4	15
93	9	29	7	4	15
93	9	30	7	4	15
93	10	1	7	4	15
93	10	2	20	58	14.75
93	10	3	7	4	14.75
93	10	4	7	4	14.75
93	10	5	7	4	14.75
93	10	6	7	4	14.75
93	10	13	7	4	14.75
93	10	14	7	4	14.75
93	10	15	7	4	14.75
93	10	16	7	4	14.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	17	7	4	14.75
93	10	18	7	4	14.75
93	10	19	7	4	14.75
93	10	20	7	4	14.75
93	10	21	7	4	14.75
93	10	22	7	4	14.75
93	10	23	7	4	14.75
93	10	24	7	4	14.75
93	10	25	7	4	14.75
93	10	26	7	4	14.75
93	10	27	7	4	14.75
93	10	28	7	4	14.75
93	10	29	7	4	14.75
93	10	30	7	4	14.75
93	10	31	7	4	14.75
93	11	1	7	4	14.75
93	11	2	7	4	14.75
93	11	3	7	4	14.75
93	11	4	7	4	14.75
93	11	5	7	4	14.75
93	11	6	7	4	14.75
93	11	7	7	4	14.75
93	11	8	7	4	14.75
93	11	9	7	4	14.75
93	11	10	7	4	14.75
93	11	11	7	4	14.75
93	11	12	7	4	14.75
93	11	13	7	4	14.75
93	11	14	7	4	14.75
93	11	15	7	4	14.75
93	11	16	7	4	14.75
93	11	17	7	4	14.75
93	11	18	7	4	14.75
93	11	19	7	4	14.75
93	11	20	7	4	14.75
93	11	21	7	4	14.75
93	11	22	7	4	14.75
93	11	23	7	4	14.75
93	11	24	7	4	14.75
93	11	25	7	4	14.75
93	11	26	7	4	14.75
93	11	27	7	4	14.75
93	11	28	7	4	14.75
93	11	29	7	4	14.75
93	11	30	7	4	14.75
93	12	1	7	4	14.75
93	12	2	7	4	14.75
93	12	3	7	4	14.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	12	4	7	4	14.75
93	12	5	7	4	14.75
93	12	6	7	4	14.75
93	12	7	7	4	14.75
93	12	8	7	4	14.75
93	12	13	7	4	14.75
93	12	14	7	4	14.75
93	12	15	7	4	14.75
93	12	16	7	4	14.75
93	12	17	7	4	14.75
93	12	18	7	4	14.75
93	12	19	7	4	14.75
93	12	20	7	4	14.75
93	12	21	7	4	14.75
93	12	22	7	4	14.75
93	12	23	7	4	14.75
93	12	24	7	4	14.75
93	12	25	7	4	14.75
93	12	26	7	4	14.75
93	12	27	7	4	14.75
93	12	28	7	4	14.75
93	12	29	7	4	14.75
93	12	30	7	4	14.75
93	12	31	7	4	14.75
94	1	1	7	4	14.75
94	1	2	7	4	14.75
94	1	3	15	26	14.75
94	1	4	7	4	14.75
94	1	5	7	4	14.75
94	1	6	7	4	14.75
94	1	7	7	4	14.75
94	1	8	7	4	14.75
94	1	9	7	4	14.75
94	1	10	7	4	14.75
94	1	11	7	4	14.75
94	1	12	7	4	14.75
94	1	13	7	4	14.75
94	1	14	7	4	14.75
94	1	15	7	4	14.75
94	1	16	7	4	14.75
94	1	17	7	4	14.75
94	1	18	7	4	14.75
94	1	19	7	4	14.75
94	1	20	7	4	14.75
94	1	21	7	4	14.75
94	1	22	7	4	14.75
94	1	23	7	4	14.75
94	1	24	7	4	14.75

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

[illegible]

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	10	0	66.5
91	1	4	15	24	67
91	4	1	15	0	66
92	4	8	9	15	66
92	7	1	15	19	66
92	10	2	15	34	66
93	4	8	3	11	66.25
93	7	8	9	17	66
93	7	11	7	4	66
93	7	12	7	4	66
93	7	13	7	4	66
93	7	14	7	4	66
93	7	15	7	4	66
93	7	16	7	4	66
93	7	17	7	4	66
93	7	18	7	4	66
93	7	19	7	4	66
93	7	20	7	4	66
93	7	21	7	4	66
93	7	22	7	4	66
93	7	23	7	4	66
93	7	24	7	4	66
93	7	25	7	4	66
93	7	26	7	4	66
93	7	27	7	4	66
93	7	28	7	4	66
93	7	29	7	4	66
93	7	30	7	4	66
93	7	31	7	4	66
93	8	1	7	4	66
93	8	2	7	4	66
93	8	3	7	4	66
93	8	4	7	4	66
93	8	5	7	4	66
93	8	6	7	4	66
93	8	7	7	4	66
93	8	8	7	4	66
93	8	9	7	4	66
93	8	17	7	4	66
93	8	18	7	4	66
93	8	19	7	4	66
93	8	20	7	4	66
93	8	21	7	4	66
93	8	22	7	4	66
93	8	23	7	4	66
93	8	24	7	4	66

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	8	25	7	4	66
93	8	26	7	4	66
93	8	27	7	4	66
93	8	28	7	4	66
93	8	29	7	4	66
93	8	30	7	4	66
93	8	31	7	4	66
93	9	1	7	4	66
93	9	2	7	4	66
93	9	3	7	4	66
93	9	4	7	4	66
93	9	5	7	4	66
93	9	6	7	4	66
93	9	7	7	4	66
93	9	8	7	4	66
93	9	9	7	4	66
93	9	10	7	4	66
93	9	11	7	4	66
93	9	12	7	4	66
93	9	13	7	4	66
93	9	14	7	4	66
93	9	15	7	4	66
93	9	16	7	4	66
93	9	17	7	4	66
93	9	18	7	4	66
93	9	19	7	4	66
93	9	20	7	4	66
93	9	21	7	4	66
93	9	22	7	4	66
93	9	23	7	4	66
93	9	24	7	4	66
93	9	25	7	4	66
93	9	26	7	4	66
93	9	27	7	4	66
93	9	28	7	4	66
93	9	29	7	4	66
93	9	30	7	4	66
93	10	1	7	4	66
93	10	2	20	58	66
93	10	3	7	4	66
93	10	4	7	4	66
93	10	5	7	4	66
93	10	6	7	4	66
93	10	13	7	4	66
93	10	14	7	4	66
93	10	15	7	4	66
93	10	16	7	4	66
93	10	17	7	4	66

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	18	7	4	66
93	10	19	7	4	66
93	10	20	7	4	66
93	10	21	7	4	66
93	10	22	7	4	66
93	10	23	7	4	66
93	10	24	7	4	66
93	10	25	7	4	66
93	10	26	7	4	66
93	10	27	7	4	66
93	10	28	7	4	66
93	10	29	7	4	66
93	10	30	7	4	66
93	10	31	7	4	66
93	11	1	7	4	66
93	11	2	7	4	66
93	11	3	7	4	66
93	11	4	7	4	66
93	11	5	7	4	66
93	11	6	7	4	66
93	11	7	7	4	66
93	11	8	7	4	66
93	11	9	7	4	66
93	11	10	7	4	66
93	11	11	7	4	66
93	11	12	7	4	66
93	11	13	7	4	66
93	11	14	7	4	66
93	11	15	7	4	66
93	11	16	7	4	66
93	11	17	7	4	66
93	11	18	7	4	66
93	11	19	7	4	66
93	11	20	7	4	66
93	11	21	7	4	66
93	11	22	7	4	66
93	11	23	7	4	66
93	11	24	7	4	66
93	11	25	7	4	66
93	11	26	7	4	66
93	11	27	7	4	66
93	11	28	7	4	66
93	11	29	7	4	66
93	11	30	7	4	66
93	12	1	7	4	66
93	12	2	7	4	66
93	12	3	7	4	66
93	12	4	7	4	66

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	12	5	7	4	66
93	12	6	7	4	66
93	12	7	7	4	66
93	12	8	7	4	66
93	12	13	7	4	66
93	12	14	7	4	66
93	12	15	7	4	66
93	12	16	7	4	66
93	12	17	7	4	66
93	12	18	7	4	66
93	12	19	7	4	66
93	12	20	7	4	66
93	12	21	7	4	66
93	12	22	7	4	66
93	12	23	7	4	66
93	12	24	7	4	66
93	12	25	7	4	66
93	12	26	7	4	66
93	12	27	7	4	66
93	12	28	7	4	66
93	12	29	7	4	66
93	12	30	7	4	66
93	12	31	7	4	66
94	1	1	7	4	66
94	1	2	7	4	66
94	1	3	15	26	66.5
94	1	4	7	4	66.5
94	1	5	7	4	66.5
94	1	6	7	4	66.5
94	1	7	7	4	66.5
94	1	8	7	4	66.5
94	1	9	7	4	66.5
94	1	10	7	4	66.5
94	1	11	7	4	66.5
94	1	12	7	4	66.5
94	1	13	7	4	66.5
94	1	14	7	4	66.5
94	1	15	7	4	66.5
94	1	16	7	4	66.5
94	1	17	7	4	66.5
94	1	18	7	4	66.5
94	1	19	7	4	66.5
94	1	20	7	4	66.5
94	1	21	7	4	66.5
94	1	22	7	4	66.5
94	1	23	7	4	66.5
94	1	24	7	4	66.5
94	1	25	7	4	66.5

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

[illegible]

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Surface Level Data					
Manual Tape					
Year	Month	Day	Hour	Minute	Surface Level
91	1	4	15	24	6
91	4	1	15	0	6
92	4	8	9	15	7
92	7	1	15	19	7
92	10	2	15	34	7
93	2	2	13	27	7
93	4	8	3	11	6.5
93	7	8	9	17	7
93	7	11	7	4	7
93	7	12	7	4	7
93	7	13	7	4	7
93	7	14	7	4	7
93	7	15	7	4	7
93	7	16	7	4	7
93	7	17	7	4	7
93	7	18	7	4	7
93	7	19	7	4	7
93	7	20	7	4	7
93	7	21	7	4	7
93	7	22	7	4	7
93	7	23	7	4	7
93	7	24	7	4	7
93	7	25	7	4	7
93	7	26	7	4	7
93	7	27	7	4	7
93	7	28	7	4	7
93	7	29	7	4	7
93	7	30	7	4	7
93	7	31	7	4	7
93	8	1	7	4	7
93	8	2	7	4	7
93	8	3	7	4	7
93	8	4	7	4	7
93	8	5	7	4	7
93	8	6	7	4	7
93	8	7	7	4	7
93	8	8	7	4	7
93	8	9	7	4	7
93	8	17	7	4	7
93	8	18	7	4	7
93	8	19	7	4	7
93	8	20	7	4	7
93	8	21	7	4	7
93	8	22	7	4	7
93	8	23	7	4	7
93	8	24	7	4	7

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	8	25	7	4	7
93	8	26	7	4	7
93	8	27	7	4	7
93	8	28	7	4	7
93	8	29	7	4	7
93	8	30	7	4	7
93	8	31	7	4	7
93	9	1	7	4	7
93	9	2	7	4	7
93	9	3	7	4	7
93	9	4	7	4	7
93	9	5	7	4	7
93	9	6	7	4	7
93	9	7	7	4	7
93	9	8	7	4	7
93	9	9	7	4	7
93	9	10	7	4	7
93	9	11	7	4	7
93	9	12	7	4	7
93	9	13	7	4	7
93	9	14	7	4	7
93	9	15	7	4	7
93	9	16	7	4	7
93	9	17	7	4	7
93	9	18	7	4	7
93	9	19	7	4	7
93	9	20	7	4	7
93	9	21	7	4	7
93	9	22	7	4	7
93	9	23	7	4	7
93	9	24	7	4	7
93	9	25	7	4	7
93	9	26	7	4	7
93	9	27	7	4	7
93	9	28	7	4	7
93	9	29	7	4	7
93	9	30	7	4	7
93	10	1	7	4	7
93	10	2	20	58	7
93	10	3	7	4	7
93	10	4	7	4	7
93	10	5	7	4	7
93	10	6	7	4	7
93	10	13	7	4	7
93	10	14	7	4	7
93	10	15	7	4	7
93	10	16	7	4	7
93	10	17	7	4	7

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	10	18	7	4	7
93	10	19	7	4	7
93	10	20	7	4	7
93	10	21	7	4	7
93	10	22	7	4	7
93	10	23	7	4	7
93	10	24	7	4	7
93	10	25	7	4	7
93	10	26	7	4	7
93	10	27	7	4	7
93	10	28	7	4	7
93	10	29	7	4	7
93	10	30	7	4	7
93	10	31	7	4	7
93	11	1	7	4	7
93	11	2	7	4	7
93	11	3	7	4	7
93	11	4	7	4	7
93	11	5	7	4	7
93	11	6	7	4	7
93	11	7	7	4	7
93	11	8	7	4	7
93	11	9	7	4	7
93	11	10	7	4	7
93	11	11	7	4	7
93	11	12	7	4	7
93	11	13	7	4	7
93	11	14	7	4	7
93	11	15	7	4	7
93	11	16	7	4	7
93	11	17	7	4	7
93	11	18	7	4	7
93	11	19	7	4	7
93	11	20	7	4	7
93	11	21	7	4	7
93	11	22	7	4	7
93	11	23	7	4	7
93	11	24	7	4	7
93	11	25	7	4	7
93	11	26	7	4	7
93	11	27	7	4	7
93	11	28	7	4	7
93	11	29	7	4	7
93	11	30	7	4	7
93	12	1	7	4	7
93	12	2	7	4	7
93	12	3	7	4	7
93	12	4	7	4	7

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Year	Month	Day	Hour	Minute	Surface Level
93	12	5	7	4	7
93	12	6	7	4	7
93	12	7	7	4	7
93	12	8	7	4	7
93	12	13	7	4	7
93	12	14	7	4	7
93	12	15	7	4	7
93	12	16	7	4	7
93	12	17	7	4	7
93	12	18	7	4	7
93	12	19	7	4	7
93	12	20	7	4	7
93	12	21	7	4	7
93	12	22	7	4	7
93	12	23	7	4	7
93	12	24	7	4	7
93	12	25	7	4	7
93	12	26	7	4	7
93	12	27	7	4	7
93	12	28	7	4	7
93	12	29	7	4	7
93	12	30	7	4	7
93	12	31	7	4	7
94	1	1	7	4	7
94	1	2	7	4	7
94	1	3	15	26	7
94	1	4	7	4	7
94	1	5	7	4	7
94	1	6	7	4	7
94	1	7	7	4	7
94	1	8	7	4	7
94	1	9	7	4	7
94	1	10	7	4	7
94	1	11	7	4	7
94	1	12	7	4	7
94	1	13	7	4	7
94	1	14	7	4	7
94	1	15	7	4	7
94	1	16	7	4	7
94	1	17	7	4	7
94	1	18	7	4	7
94	1	19	7	4	7
94	1	20	7	4	7
94	1	21	7	4	7
94	1	22	7	4	7
94	1	23	7	4	7
94	1	24	7	4	7
94	1	25	7	4	7

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.

Data obtained from WHC Surveillance Analysis Computer System (SACS), February 28, 1994.
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**241-SX-Farm Drywell Activity
Well #41-00-08 Well Depth 125'
Scintillation Probe 1st Peak**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-Farm Drywell Activity
Well #41-00-08 Well Depth 125'
Scintillation Probe 2nd Peak**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-101 Drywell Activity
Well #41-01-06 Well Depth 100'
Scintillation Probe 1st Peak**

— Peak C/S — Depth ft.

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-101 Drywell Activity
Well #41-01-06 Well Depth 100'
Scintillation Probe 2nd Peak**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-102 Drywell Activity
Well #41-02-02 Well Depth 135'
Scintillation Probe 1st Peak

— Peak C/S — Depth ft.

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-102 Drywell Activity
Well #41-02-02 Well Depth 135'
Scintillation Probe 2nd Peak**

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Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-102 Drywell Activity
Well #41-02-02 Well Depth 135'
Scintillation Probe 3rd Peak

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-102 Drywell Activity
Well #41-02-08 Well Depth 100'
Scintillation Probe 1st Peak**

—◇— Peak C/S - - - - - Depth ft.

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-102 Drywell Activity
Well #41-02-08 Well Depth 100'
Scintillation Probe 2nd Peak

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-102 Drywell Activity
Well #41-02-08 Well Depth 100'
Scintillation Probe 3rd Peak**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-102 Drywell Activity
Well #41-02-11 Well Depth 100'
Scintillation Probe 1st Peak**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-102 Drywell Activity
Well #41-02-11 Well Depth 100'
Scintillation Probe 2nd Peak**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-103 Drywell Activity
Well #41-03-02 Well Depth 100'
Scintillation Probe 1st Peak**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-103 Drywell Activity
Well #41-03-02 Well Depth 100'
Scintillation Probe 2nd Peak

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-103 Drywell Activity
Well #41-03-02 Well Depth 100'
Scintillation Probe 3rd Peak

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-104 Drywell Activity
Well #41-04-03 Well Depth 100'
Scintillation Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

Graph not to scale with others.

241-SX-107 Drywell Activity
Well #41-07-05 Well Depth 75'
GM # 2 Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-107 Drywell Activity
Well #41-07-07 Well Depth 75'
GM # 2 Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-107 Drywell Activity
Well #41-07-08 Well Depth 75'
Scintillation Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-108 Drywell Activity
Well #41-08-02 Well Depth 75'
Shielded Scintillation Probe**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-108 Drywell Activity
Well #41-08-04 Well Depth 75'
Scintillation Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-108 Drywell Activity
Well #41-08-07 Well Depth 75'
GM # 2 Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-108 Drywell Activity
Well #41-08-11 Well Depth 75'
GM # 2 Probe 1st Peak

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-108 Drywell Activity
Well #41-08-11 Well Depth 75'
GM # 2 Probe 2nd Peak

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-109 Drywell Activity
Well #41-09-03 Well Depth 75'
GM # 2 Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-109 Drywell Activity
Well #41-09-07 Well Depth 75'
GM # 1 Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-109 Drywell Activity
Well #41-09-07 Well Depth 75'
GM # 2 Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-109 Drywell Activity
Well #41-09-09 Well Depth 126'
Shielded Scintillation Probe**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-109 Drywell Activity
Well #41-09-09 Well Depth 126'
Scintillation Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-110 Drywell Activity
Well #41-10-01 Well Depth 137'
Scintillation Probe

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-112 Drywell Activity
Well #41-12-02 Well Depth 120'
GM #2 Probe

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Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-112 Drywell Activity
Well #41-12-03 Well Depth 75'
Shielded Scintillation Probe**

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Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

Graph not to scale with others.

**241-SX-114 Drywell Activity
Well #41-14-09 Well Depth 75'
Scintillation Probe**

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

**241-SX-115 Drywell Activity
Well #41-15-07 Well Depth 125'
Scintillation Probe**

—◇— Peak C/S — Depth ft.

241-SX-FARM DRYWELL ACTIVITY						
WELL #41-00-08 WELL DEPTH 125'						
SCINTILLATION PROBE 1st Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/17/90	324	78		9/21/92	408	78
2/14/90	415	78		10/20/92	426	78
3/14/90	375	78		11/17/92	336	78
4/9/90	421	78		12/17/92	371	78
*5/9/90	416	78		*1/11/93	396	78
*5/11/90	407	78		1/12/93	385	78
5/11/90	420	78		2/8/93	370	78
5/17/90	387	78		3/8/93	359	78
5/24/90	419	78		4/6/93	296	78
5/30/90	348	78		5/4/93	288	79
6/5/90	479	78		5/31/93	432	78
7/3/90	331	78		6/28/93	366	78
8/1/90	405	78		7/27/93	310	78
8/28/90	365	78		8/23/93	353	78
9/26/90	427	78		9/21/93	370	78
10/23/90	396	78		10/19/93	346	78
*11/19/90	388	78				
*11/21/90	431	78				
*11/21/90	40	78				
11/21/90	406	78				
12/18/90	409	78				
1/15/91	436	78				
2/12/91	395	78				
3/13/91	425	78				
4/9/91	420	78				
*5/9/91	440	78				
5/10/91	401	78				
6/4/91	431	78				
7/2/91	337	78				
*8/2/91	364	79				
8/2/91	414	78				
8/27/91	393	78				
9/23/91	407	78				
10/21/91	406	78				
11/18/91	449	78				
12/16/91	368	78				
1/13/92	428	78				
2/14/92	371	78				
3/12/92	444	78				
4/7/92	417	78				
5/5/92	399	78				
6/1/92	414	78				
6/30/92	341	78				
7/30/92	406	78				
8/24/92	319	79				

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

241-SX-FARM DRYWELL ACTIVITY						
WELL #41-00-08 WELL DEPTH 125'						
SCINTILLATION PROBE 2nd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/17/90	160	68		9/21/92	202	69
2/14/90	170	68		10/20/92	200	69
3/14/90	165	68		11/17/92	190	68
4/9/90	160	68		12/17/92	200	68
*5/9/90	180	68		*1/11/93		
*5/11/90	200	68		1/12/93	225	68
5/11/90	200	68		2/8/93	200	67
5/17/90	180	68		3/8/93	180	69
5/24/90	180	68		4/6/93	200	68
5/30/90	164	68		5/4/93	150	68
6/5/90	188	68		5/31/93	218	69
7/3/90	155	68		6/28/93	165	69
8/1/90	171	68		7/27/93	180	69
8/28/90	165	68		8/23/93	220	69
9/26/90	175	68		9/21/93	190	69
10/23/90	160	68		10/19/93	180	68
*11/19/90	185	68				
*11/21/90	210	68				
*11/21/90	180	68				
11/21/90	185	68				
12/18/90	198	68				
1/15/91	198	68				
2/12/91	195	68				
3/13/91	218	68				
4/9/91	200	68				
*5/9/91	230	68				
5/10/91	180	68				
6/4/91	200	68				
7/2/91	152	68				
*8/2/91						
8/2/91	200	68				
8/27/91	200	68				
9/23/91	180	68				
10/21/91	190	69				
11/18/91	200	68				
12/16/91	170	68				
1/13/92	202	68				
2/14/92	170	68				
3/12/92	200	68				
4/7/92	170	68				
5/5/92	205	68				
6/1/92	190	68				
6/30/92	180	68				
7/30/92	175	68				
8/24/92	160	68				

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-101 DRYWELL ACTIVITY						
WELL #41-01-06 WELL DEPTH 100'						
SCINTILLATION PROBE 1st Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/11/90	58	32		7/10/91	76	32
1/24/90	62	32		7/23/91	62	32
2/6/90	69	33		8/7/91	62	32
2/20/90	56	35		8/20/91	59	32
3/5/90	72	32		9/2/91	58	24
3/19/90	76	32		9/16/91	60	32
4/3/90	64	32		10/1/91	55	33
*4/19/90	104	32		10/14/91	59	33
4/20/90	59	32		10/29/91	66	32
5/1/90	57	32		11/11/91	65	32
*5/17/90	80	32		11/26/91	62	32
5/18/90	61	33		12/9/91	59	32
5/30/90	60	32		*12/26/91	126	24
6/12/90	63	32		12/27/91	66	32
6/26/90	71	32		1/7/92	63	32
*7/12/90	63	24		1/20/92	63	32
7/13/90	56	24		*2/18/92	286	82
7/25/90	55	32		*2/19/92	58	35
8/6/90	63	32		2/19/92	40	68
8/22/90	65	32		3/4/92	60	32
9/5/90	68	32		3/17/92	59	32
9/19/90	53	35		3/31/92	74	32
10/2/90	48	35		4/14/92	52	32
10/18/90	59	32		4/28/92	62	32
11/1/90	61	32		5/12/92	80	32
11/16/90	71	32		*5/27/92	86	32
11/27/90	58	32		5/27/92	64	32
12/13/90	51	32		6/8/92	73	32
12/27/90	62	32		6/22/92	58	32
1/8/91	58	32		7/7/92	79	32
1/23/91	66	32		7/21/92	68	32
2/6/91	57	32		8/3/92	60	32
2/20/91	52	32		8/19/92	66	32
3/6/91	55	32		8/31/92	56	32
3/21/91	61	32		9/16/92	65	32
4/3/91	64	32		9/28/92	58	32
4/18/91	61	32		10/13/92	58	33
*4/30/91	124	93		10/26/92	52	33
5/2/91	53	32		11/11/92	55	32
5/15/91	65	32		11/24/92	66	32
*5/28/91	67	32		12/8/92	82	32
*5/29/91	227	22		12/21/92	65	32
5/29/91	59	32		1/4/93	74	32
6/12/91	56	33		1/20/93	78	32
6/26/91	70	32		2/3/93	60	32

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

• Suspect Data

241-SX-101 DRYWELL ACTIVITY						
WELL #41-01-06 WELL DEPTH 100'						
SCINTILLATION PROBE 2nd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/11/90				7/10/91		
1/24/90				7/23/91		
2/6/90				8/7/91		
2/20/90				8/20/91		
3/5/90				9/2/91		
3/19/90				9/16/91		
4/3/90				10/1/91		
*4/19/90				10/14/91		
4/20/90				10/29/91		
5/1/90				11/11/91		
*5/17/90				11/26/91		
5/18/90				12/9/91		
5/30/90				*12/26/91		
6/12/90				12/27/91	60	35
6/26/90				1/7/92		
*7/12/90				1/20/92		
7/13/90				*2/18/92		
7/25/90				*2/19/92	55	33
8/6/90				2/19/92		
8/22/90				3/4/92		
9/5/90				3/17/92		
9/19/90	52	32		3/31/92		
10/2/90	68	32		4/14/92		
10/18/90	57	35		4/28/92		
11/1/90	48	35		5/12/92		
11/16/90	55	34		*5/27/92		
11/27/90	49	35		5/27/92		
12/13/90	43	35		6/8/92		
12/27/90	52	35		6/22/92		
1/8/91	57	32		7/7/92		
1/23/91	60	24		7/21/92		
2/6/91	48	36		8/3/92	55	35
2/20/91	51	35		8/19/92	55	35
3/6/91	49	35		8/31/92		
3/21/91				9/16/92	56	35
4/3/91	45	35		9/28/92	53	35
4/18/91				10/13/92		
*4/30/91				10/26/92		
5/2/91				11/11/92		
5/15/91				11/24/92		
*5/28/91				12/8/92		
*5/29/91				12/21/92		
5/29/91				1/4/93	57	34
6/12/91				1/20/93		
6/26/91				2/3/93		

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-02 WELL DEPTH 135'						
SCINTILLATION PROBE 1st Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/3/90	167	50		10/19/90	165	50
1/11/90	150	50		10/24/90	141	50
*1/17/90	184	50		10/29/90	170	50
1/19/90	145	49		11/6/90	161	50
1/24/90	175	50		11/7/90	143	50
1/29/90	182	50		11/16/90	160	50
2/5/90	150	50		11/19/90	163	50
2/14/90	160	49		11/27/90	149	50
*2/20/90	174	50		12/3/90	173	50
2/22/90	150	50		*12/13/90	153	50
2/27/90	148	53		12/13/90	148	50
3/5/90	152	50		12/18/90	173	50
3/13/90	150	50		12/27/90	165	50
3/19/90	173	50		1/3/91	150	50
3/28/90	161	50		1/8/91	163	50
4/4/90	152	49		1/15/91	163	50
4/9/90	169	50		1/21/91	155	49
4/18/90	179	50		1/30/91	158	50
4/26/90	169	50		2/6/91	152	50
5/1/90	178	50		2/12/91	162	50
5/9/90	150	50		2/20/91	153	50
5/17/90	181	50		2/27/91	173	50
5/23/90	154	50		3/6/91	150	50
5/30/90	128	50		3/14/91	150	50
6/5/90	146	50		3/21/91	169	50
*6/12/90	179	50		3/25/91	161	50
6/14/90	183	50		4/3/91	165	50
6/19/90	156	50		4/8/91	158	50
6/25/90	150	50		4/18/91	150	50
7/3/90	170	50		4/24/91	167	50
7/12/90	141	49		*4/30/91	416	112
7/19/90	172	50		5/1/91	161	50
7/24/90	184	50		*5/9/91	146	50
8/1/90	170	50		5/10/91	158	50
*8/6/90	155	50		5/15/91	158	52
8/8/90	154	50		5/21/91	160	53
8/15/90	147	49		*5/28/91	160	53
8/22/90	170	50		*5/29/91	-	
8/28/90	142	50		5/30/91	150	53
9/4/90	150	50		6/5/91	138	53
9/11/90	150	50		6/12/91	160	53
9/19/90	140	50		6/19/91	135	53
9/27/90	174	50		6/26/91	150	53
10/2/90	190	49		7/2/91	162	52
10/11/90	148	49		7/10/91	140	52

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
7/17/91	142	53		5/27/92	151	49
*7/23/91	140	52		6/1/92	156	49
7/24/91	142	53		*6/8/92	521	124
8/2/91	140	53		*6/9/92	186	50
8/7/91	167	52		6/10/92	155	50
8/13/91	148	53		*6/16/92	2	27
8/20/91	144	53		6/17/92	162	50
8/27/91	152	53		*6/22/92		
9/2/91	171	53		6/23/92	167	50
9/11/91	165	53		*6/30/92	165	50
9/16/91	160	53		7/1/92	163	50
9/23/91	142	53		7/8/92	130	50
10/1/91	132	53		7/14/92	155	50
10/7/91	140	53		7/21/92	148	50
10/14/91	130	53		7/27/92	162	50
10/21/91	140	54		8/3/92	150	50
10/29/91	132	52		8/14/92	144	50
11/4/91	150	52		8/19/92	157	50
11/11/91	140	53		8/24/92	150	51
11/18/91	155	52		8/31/92	146	50
11/26/91	145	53		9/9/92	157	50
12/3/91	164	50		9/16/92	161	49
12/9/91	142	50		9/21/92	160	50
12/16/91	170	50		9/28/92	167	49
*12/26/91	160	50		*10/7/92	160	51
12/27/91	148	50		10/8/92	167	50
1/1/92	151	50		10/12/92	170	50
1/7/92	211	50		10/20/92	161	50
1/13/92	163	50		10/27/92	156	50
*1/16/92	160	50		11/2/92	156	50
*1/17/92	161	50		11/11/92	160	50
1/17/92	149	50		11/17/92	166	50
1/20/92	168	50		11/24/92	152	50
1/27/92	155	49		12/1/92	150	50
2/19/92	165	50		12/8/92	160	52
2/25/92	145	49		12/17/92	153	50
3/4/92	142	49		12/21/92	169	52
3/12/92	151	50		12/29/92	158	52
3/17/92	149	50		1/4/93	157	52
3/26/92	173	50		*1/11/93	184	77
3/31/92	140	50		*1/12/93	143	52
4/7/92	176	49		1/12/93	143	52
4/15/92	148	50		1/20/93	145	52
4/21/92	176	50		1/26/93	170	53
4/30/92	168	50		2/2/93	150	53
5/5/92	175	50		2/8/93	142	53
5/12/92	157	50		*2/16/93		53
5/20/92	172	50		2/17/93	130	53

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-02 WELL DEPTH 135'						
SCINTILLATION PROBE 2nd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/3/90	150	52		10/19/90	166	53
1/11/90	145	53		10/24/90	140	53
*1/17/90	182	53		10/29/90	140	52
1/19/90	144	53		11/6/90	150	52
1/24/90	160	53		11/7/90	140	52
1/29/90	145	53		11/16/90	140	52
2/5/90	160	52		11/19/90	135	52
2/14/90	140	52		11/27/90	132	52
*2/20/90	150	52		12/3/90	170	52
2/22/90	148	52		*12/13/90	149	52
2/27/90	146	50		12/13/90	128	52
3/5/90	140	52		12/18/90	140	52
3/13/90	140	52		12/27/90	160	52
3/19/90	142	52		1/3/91	154	53
3/28/90	140	52		1/8/91	160	52
4/4/90	136	52		1/15/91	120	52
4/9/90	135	52		1/21/91	146	53
4/18/90	153	53		1/30/91	148	53
4/26/90	145	53		2/6/91	140	53
5/1/90	165	53		2/12/91	140	53
5/9/90	159	53		2/20/91	140	53
5/17/90	138	53		2/27/91	131	53
5/23/90	133	53		3/6/91	152	53
5/30/90	129	53		3/14/91	132	53
6/5/90	125	53		3/21/91	160	53
*6/12/90	135	53		3/25/91	148	53
6/14/90	135	53		4/3/91	145	53
6/19/90	128	53		4/8/91	120	54
6/25/90	164	53		4/18/91	138	53
7/3/90	158	63		4/24/91	160	53
7/12/90	140	53		*4/30/91		
7/19/90	150	53		5/1/91	140	53
7/24/90	141	53		*5/9/91	135	52
8/1/90	135	53		5/10/91	148	53
*8/6/90	168	53		5/15/91	154	50
8/8/90	140	53		5/21/91	165	50
8/15/90	125	22		*5/28/91		
8/22/90	150	23		*5/29/91	148	50
8/28/90	135	53		5/30/91	162	50
9/4/90	140	53		6/5/91	178	50
9/11/90	140	52		6/12/91	173	50
9/19/90	155	53		6/19/91	165	50
9/27/90	160	53		6/26/91	164	50
10/2/90	145	53		7/2/91	151	50
10/11/90	180	52		7/10/91	158	50

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
7/17/91	175	50		5/27/92	148	53
*7/23/91	155	50		6/1/92	140	52
7/24/91	155	50		*6/8/92		
8/2/91	167	50		*6/9/92	130	54
8/7/91	150	50		6/10/92	165	53
8/13/91	158	50		*6/16/92		
8/20/91	146	49		6/17/92	150	53
8/27/91	140	50		*6/22/92	45	53
9/2/91	160	50		6/23/92	148	53
9/11/91	160	50		*6/30/92	150	53
9/16/91	173	50		7/1/92	133	53
9/23/91	155	50		7/8/92	131	52
10/1/91	148	50		7/14/92	156	52
10/7/91	161	50		7/21/92	150	52
10/14/91	151	50		7/27/92	140	52
10/21/91	154	50		8/3/92	156	53
10/29/91	166	50		8/14/92	131	52
11/4/91	173	49		8/19/92	130	53
11/11/91	167	50		8/24/92	153	53
11/18/91	148	50		8/31/92	140	53
11/26/91	183	50		9/9/92	130	53
12/3/91	133	53		9/16/92	131	53
12/9/91	160	52		9/21/92	150	53
12/16/91	143	52		9/28/92	140	53
*12/26/91	171	53		*10/7/92	161	52
12/27/91	153	52		10/8/92	150	53
1/1/92	140	53		10/12/92	166	53
1/7/92	150	53		10/20/92	155	53
1/13/92	150	53		10/27/92	140	53
*1/16/92				11/2/92	150	52
*1/17/92				11/11/92	140	53
1/17/92	149	52		11/17/92	140	53
1/20/92	150	53		11/24/92	154	53
1/27/92	123	51		12/1/92	140	53
2/19/92	150	53		12/8/92	142	49
2/25/92	152	52		12/17/92	140	53
3/4/92	174	52		12/21/92	160	50
3/12/92	140	52		12/29/92	152	50
3/17/92	140	52		1/4/93	156	49
3/26/92	156	53		*1/11/93		
3/31/92	152	52		*1/12/93	143	50
4/7/92	135	52		1/12/93	143	50
4/15/92	157	52		1/20/93	152	49
4/21/92	140	52		1/26/93	178	50
4/30/92	138	53		2/2/93	171	50
5/5/92	129	53		2/8/93	188	50
5/12/92	148	52		*2/16/93	156	50
5/20/92	150	53		2/17/93	144	50

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

1. *What is the purpose of the study?*
 2. *What are the research questions or hypotheses?*
 3. *What is the study design?*
 4. *What is the sample size and how was it selected?*
 5. *What are the independent and dependent variables?*
 6. *What are the data collection methods?*
 7. *What are the data analysis methods?*
 8. *What are the results of the study?*
 9. *What are the conclusions of the study?*
 10. *What are the limitations of the study?*
 11. *What are the implications of the study?*
 12. *What are the future research directions?*

- **Suspect Data**

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-02 WELL DEPTH 135'						
SCINTILLATION PROBE 3rd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/3/90	52	34		10/19/90	49	35
1/11/90	60	34		10/24/90	47	35
*1/17/90	52	37		10/29/90	50	36
1/19/90	55	37		11/6/90	44	36
1/24/90	61	37		11/7/90	46	36
1/29/90	61	35		11/16/90	48	37
2/5/90	60	34		11/19/90	56	37
2/14/90				11/27/90	52	38
*2/20/90				12/3/90	57	37
2/22/90				*12/13/90	42	36
2/27/90	53	34		12/13/90	57	35
3/5/90	48	34		12/18/90	52	33
3/13/90	54	34		12/27/90	45	34
3/19/90				1/3/91	55	35
3/28/90	49	34		1/8/91	57	34
4/4/90	58	34		1/15/91	62	34
4/9/90	46	36		1/21/91	55	34
4/18/90	59	34		1/30/91	48	35
4/26/90	52	34		2/6/91	51	35
5/1/90	52	34		2/12/91	38	35
5/9/90	54	34		2/20/91	50	35
5/17/90	49	34		2/27/91	50	36
5/23/90	44	34		3/6/91	55	37
5/30/90	50	34		3/14/91	58	37
6/5/90	48	35		3/21/91		
*6/12/90	53	35		3/25/91		
6/14/90	49	35		4/3/91	60	34
6/19/90	46	34		4/8/91	50	35
6/25/90	53	35		4/18/91	60	34
7/3/90	58	35		4/24/91		
7/12/90	59	33		*4/30/91		
7/19/90	51	34		5/1/91	54	36
7/24/90	48	34		*5/9/91	52	35
8/1/90	56	34		5/10/91	55	35
*8/6/90	60	34		5/15/91	50	34
8/8/90	51	34		5/21/91	52	34
8/15/90	56	34		*5/28/91		
8/22/90	52	35		*5/29/91		
8/28/90	49	35		5/30/91	60	34
9/4/90	48	35		6/5/91	53	34
9/11/90	46	35		6/12/91		
9/19/90	50	35		6/19/91	57	34
9/27/90				6/26/91		
10/2/90	53	35		7/2/91		
10/11/90				7/10/91	50	34

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
7/17/91				5/27/92		
*7/23/91	55	34		6/1/92	55	36
7/24/91				*6/8/92		
8/2/91	65	34		*6/9/92		
8/7/91	50	34		6/10/92		
8/13/91				*6/16/92		
8/20/91				6/17/92	57	36
8/27/91	50	34		*6/22/92		
9/2/91				6/23/92		
9/11/91				*6/30/92		
9/16/91				7/1/92		
9/23/91				7/8/92		
10/1/91				7/14/92		
10/7/91				7/21/92		
10/14/91				7/27/92		
10/21/91				8/3/92	52	129
10/29/91				8/14/92		
11/4/91				8/19/92		
11/11/91				8/24/92		
11/18/91				8/31/92		
11/26/91				9/9/92		
12/3/91				9/16/92		
12/9/91				9/21/92	51	37
12/16/91				9/28/92	51	37
*12/26/91				*10/7/92	55	36
12/27/91	60	34		10/8/92		
1/1/92				10/12/92	65	37
1/7/92	48	35		10/20/92	50	70
1/13/92	55	35		10/27/92		
*1/16/92	57	34		11/2/92		
*1/17/92	0			11/11/92		
1/17/92				11/17/92		
1/20/92				11/24/92		
1/27/92				12/1/92		
2/19/92				12/8/92		
2/25/92				12/17/92	50	72
3/4/92				12/21/92		
3/12/92	50	34		12/29/92		
3/17/92				1/4/93		
3/26/92				*1/11/93		
3/31/92				*1/12/93		
4/7/92	50	36		1/12/93		
4/15/92				1/20/93		
4/21/92	62	37		1/26/93		
4/30/92	50	36		2/2/93		
5/5/92				2/8/93		
5/12/92				*2/16/93		
5/20/92	55	36		2/17/93		

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-08 WELL DEPTH 100'						
SCINTILLATION PROBE 1st Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/3/90	73	50		10/19/90	43	23
1/11/90	55	50		10/24/90	70	50
1/17/90	59	48		10/29/90	59	47
1/24/90	64	51		*11/6/90	63	50
1/29/90	68	50		11/7/90	58	50
2/5/90	78	50		*11/16/90	76	50
2/14/90	68	47		11/19/90	56	50
2/20/90	62	51		11/27/90	57	47
2/27/90	54	51		12/3/90	58	51
3/5/90	59	49		*12/13/90	53	49
3/13/90	59	50		12/13/90	66	50
3/19/90	62	51		12/18/90	64	50
3/28/90	61	50		12/27/90	63	50
**4/3/90	111	96		1/3/91	76	50
4/9/90	70	50		1/8/91	65	50
4/11/90	66	50		1/15/91	66	50
4/18/90	69	51		1/21/91	63	50
4/25/90	59	50		1/30/91	56	48
5/1/90	56	49		2/6/91	60	50
5/9/90	66	51		2/12/91	59	51
5/17/90	59	50		2/20/91	64	50
*5/23/90	161	50		2/27/91	65	50
5/23/90	70	51		3/6/91	59	50
5/30/90	74	50		3/14/91	70	50
6/5/90	64	51		3/21/91	64	50
6/12/90	56	51		3/25/91	61	50
6/19/90	57	51		4/3/91	64	51
6/26/90	65	50		4/8/91	62	51
7/3/90	62	51		4/18/91	59	51
7/12/90	59	48		4/24/91	68	50
7/19/90	51	50		*4/30/91	464	25
7/24/90	59	50		5/1/91	60	50
8/1/90	63	50		5/8/91	63	47
8/6/90	66	50		5/15/91	60	50
8/17/90	57	47		5/21/91	78	50
8/21/90	77	50		*5/28/91	735	52
8/23/90	63	50		*5/29/91	65	50
8/28/90	61	51		*5/31/91	62	50
9/4/90	59	48		5/31/91	62	48
9/11/90	58	51		*6/3/91	59	50
9/19/90	63	50		6/3/91	74	50
9/27/90	77	50		6/12/91	61	50
10/2/90	55	50		6/19/91	62	48
10/11/90	58	51		6/26/91	62	51
*10/19/90	65	51		7/2/91	64	50

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

**Peak at well bottom.

Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
7/10/91	64	50		*6/16/92	2	48
7/17/91	62	50		6/17/92	63	51
7/23/91	63	50		6/22/92	56	50
8/2/91	59	50		6/30/92	75	51
8/7/91	65	50		7/8/92	60	51
8/13/91	54	50		7/14/92	64	50
8/21/91	60	51		7/21/92	59	51
8/27/91	59	50		7/27/92	65	51
9/2/91	59	51		*8/3/92	60	51
9/11/91	55	50		8/3/92	62	50
9/16/91	60	51		8/14/92	60	51
9/23/91	71	50		8/19/92	57	51
10/1/91				8/24/92	50	50
10/7/91	57	51		8/31/92	58	51
10/14/91	63	50		9/9/92	55	51
10/21/91	63	50		9/16/92	62	50
10/29/91	58	50		9/21/92	71	50
11/4/91	62	51		9/28/92	66	50
11/11/91	60	50		10/7/92	66	50
11/18/91	69	50		10/12/92	63	50
11/26/91	62	50		10/20/92	64	50
12/3/91	58	50		10/26/92	68	50
12/9/91	62	50		11/2/92	57	50
12/16/91	61	50		11/11/92	56	49
12/28/91	62	51		11/17/92	60	51
1/1/92	62	51		11/24/92	66	51
1/7/92	55	50		12/1/92	58	50
1/13/92	68	50		12/8/92	58	50
1/20/92	60	50		12/15/92	62	50
1/27/92	63	51		*12/21/92	60	51
2/18/92	60	50		12/21/92	60	50
2/25/92	51	50		12/29/92	53	51
3/4/92	69	50		1/4/93	60	51
3/12/92	55	51		1/11/93	57	49
3/17/92	57	51		1/20/93	54	49
3/26/92	54	50		1/26/93	55	50
3/31/92	56	50		2/2/93	61	51
4/7/92	61	50		*2/8/93	61	50
4/15/92	54	50		2/8/93	60	50
4/21/92	61	50		2/16/93	64	50
4/30/92	55	50		2/23/93	53	51
5/5/92	61	51		3/2/93	57	50
5/12/92	65	51		3/8/93	67	50
5/20/92	57	51		3/15/93	69	51
5/27/92	55	50		3/25/93	62	51
6/1/92	60	49		3/30/93		
*6/8/92	412	46		4/6/93	61	50
6/9/92	58	50		4/12/93	62	50

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

* Suspect Data

** Peak at well bottom.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

- **Suspect Data**

- • Peak at well bottom.

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-08 WELL DEPTH 100'						
SCINTILLATION PROBE 2nd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/3/90				10/19/90		
1/11/90				10/24/90		
1/17/90	57	50		10/29/90	58	50
1/24/90				*11/6/90		
1/29/90	59	48		11/7/90		
2/5/90	57	47		*11/16/90		
2/14/90	60	50		11/19/90		
2/20/90	58	58		11/27/90	55	51
2/27/90				12/3/90		
3/5/90				*12/13/90		
3/13/90				12/13/90		
3/19/90				12/18/90	53	48
3/28/90				12/27/90	50	47
**4/3/90				1/3/91	44	46
4/9/90	52	46		1/8/91		
4/11/90				1/15/91		
4/18/90	52	48		1/21/91	57	47
4/25/90	55	48		1/30/91	54	50
5/1/90	53	46		2/6/91	55	48
5/9/90				2/12/91	58	48
5/17/90				2/20/91	58	48
*5/23/90				2/27/91	50	48
5/23/90	55	48		3/6/91	50	48
5/30/90	61	48		3/14/91		
6/5/90				3/21/91	55	46
6/12/90	52	48		3/25/91	55	48
6/19/90	55	48		4/3/91		
6/26/90				4/8/91	51	47
7/3/90	54	48		4/18/91		
7/12/90				4/24/91		
7/19/90				*4/30/91		
7/24/90	57	47		5/1/91		
8/1/90	44	47		5/8/91	48	87
8/6/90	51	48		5/15/91		
8/17/90	51	50		5/21/91		
8/21/90				*5/28/91		
8/23/90	58	49		*5/29/91		
8/28/90	60	49		*5/31/91		
9/4/90	52	50		5/31/91	61	51
9/11/90	56	48		*6/3/91		
9/19/90	55	47		6/3/91		
9/27/90				6/12/91		
10/2/90				6/19/91	57	51
10/11/90				6/26/91		
*10/19/90				7/2/91		

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

**Peak at well bottom.

Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
7/10/91				*6/16/92		
7/17/91				6/17/92	55	48
7/23/91				6/22/92		
8/2/91				6/30/92		
8/7/91				7/8/92	55	47
8/13/91				7/14/92	52	47
8/21/91				7/21/92		
8/27/91				7/27/92	55	47
9/2/91				*8/3/92	55	48
9/11/91				8/3/92	55	48
9/16/91				8/14/92		
9/23/91				8/19/92		
10/1/91				8/24/92	56	48
10/7/91				8/31/92		
10/14/91				9/9/92		
10/21/91				9/16/92	57	48
10/29/91				9/21/92	53	48
11/4/91				9/28/92	57	48
11/11/91				10/7/92	57	47
11/18/91				10/12/92	60	47
11/26/91				10/20/92		
12/3/91	52	47		10/26/92		
12/9/91	55	47		11/2/92		
12/16/91	55	48		11/11/92		
12/28/91				11/17/92		
1/1/92	57	47		11/24/92	49	47
1/7/92	57	47		12/1/92		
1/13/92				12/8/92	55	46
1/20/92	69	48		12/15/92	60	47
1/27/92	53	47		*12/21/92	55	48
2/18/92	49	46		12/21/92		
2/25/92	49	47		12/29/92		
3/4/92	55	47		1/4/93	58	47
3/12/92	57	48		1/11/93		
3/17/92				1/20/93		
3/26/92				1/26/93		
3/31/92				2/2/93	55	47
4/7/92				*2/8/93	58	48
4/15/92				2/8/93	63	47
4/21/92	50	46		2/16/93	65	47
4/30/92	58	47		2/23/93	50	47
5/5/92	52	48		3/2/93		
5/12/92	50	48		3/8/93		
5/20/92				3/15/93	50	49
5/27/92	64	47		3/25/93	48	50
6/1/92				3/30/93	53	49
*6/8/92				4/6/93	51	48
6/9/92				4/12/93		

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

**Peak at well bottom.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

- **Suspect Data**

• • Peak at well bottom.

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-08 WELL DEPTH 100'						
SCINTILLATION PROBE 3rd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/3/90				10/19/90		
1/11/90				10/24/90		
1/17/90				10/29/90		
1/24/90				*11/6/90		
1/29/90				11/7/90		
2/5/90				*11/16/90		
2/14/90				11/19/90		
2/20/90				11/27/90		
2/27/90				12/3/90		
3/5/90				*12/13/90		
3/13/90				12/13/90		
3/19/90				12/18/90		
3/28/90				12/27/90		
**4/3/90				1/3/91		
4/9/90				1/8/91		
4/11/90				1/15/91		
4/18/90				1/21/91		
4/25/90				1/30/91		
5/1/90				2/6/91		
5/9/90				2/12/91		
5/17/90				2/20/91		
*5/23/90				2/27/91		
5/23/90				3/6/91		
5/30/90				3/14/91		
6/5/90				3/21/91		
6/12/90				3/25/91		
6/19/90				4/3/91		
6/26/90				4/8/91		
7/3/90				4/18/91		
7/12/90				4/24/91		
7/19/90				*4/30/91		
7/24/90				5/1/91		
8/1/90				5/8/91		
8/6/90				5/15/91		
8/17/90				5/21/91		
8/21/90				*5/28/91		
8/23/90				*5/29/91		
8/28/90				*5/31/91		
9/4/90				5/31/91		
9/11/90				*6/3/91		
9/19/90				6/3/91		
9/27/90				6/12/91	51	47
10/2/90				6/19/91		
10/11/90				6/26/91	54	47
*10/19/90				7/2/91	50	47

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

**Peak at well bottom.

Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
7/10/91				*6/16/92		
7/17/91	55	47		6/17/92		
7/23/91				6/22/92		
8/2/91	55	47		6/30/92		
8/7/91	66	47		7/8/92		
8/13/91	53	47		7/14/92		
8/21/91	63	47		7/21/92		
8/27/91				7/27/92		
9/2/91				*8/3/92		
9/11/91				8/3/92		
9/16/91				8/14/92		
9/23/91				8/19/92		
10/1/91	63	47		8/24/92		
10/7/91				8/31/92	47	86
10/14/91	62	47		9/9/92		
10/21/91				9/16/92		
10/29/91	53	47		9/21/92		
11/4/91	56	48		9/28/92		
11/11/91				10/7/92		
11/18/91	53	47		10/12/92		
11/26/91				10/20/92		
12/3/91				10/26/92		
12/9/91				11/2/92		
12/16/91				11/11/92	55	52
12/28/91				11/17/92		
1/1/92				11/24/92		
1/7/92				12/1/92		
1/13/92				12/8/92		
1/20/92				12/15/92		
1/27/92				*12/21/92		
2/18/92				12/21/92		
2/25/92				12/29/92		
3/4/92				1/4/93		
3/12/92				1/11/93		
3/17/92				1/20/93		
3/26/92				1/26/93	48	93
3/31/92				2/2/93		
4/7/92				*2/8/93		
4/15/92				2/8/93		
4/21/92				2/16/93		
4/30/92				2/23/93		
5/5/92				3/2/93		
5/12/92	50	74		3/8/93		
5/20/92				3/15/93		
5/27/92				3/25/93		
6/1/92				3/30/93		
*6/8/92				4/6/93		
6/9/92				4/12/93		

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

**Peak at well bottom.

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-11 WELL DEPTH 100'						
SCINTILLATION PROBE 1st Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/11/90	61	27		7/23/91	75	27
1/24/90	57	27		8/7/91	62	28
2/5/90	65	28		8/21/91	58	27
*2/20/90	73	27		9/2/91	68	27
2/22/90	68	27		9/16/91	57	28
3/5/90	67	28		10/1/91	65	27
3/19/90	68	27		10/14/91	60	27
4/3/90	72	27		10/29/91	74	27
4/19/90	66	28		11/11/91	62	25
5/1/90	67	28		11/26/91	59	25
5/17/90	65	27		12/9/91	60	25
5/30/90	63	28		*12/26/91	202	31
6/12/90	60	29		12/27/91	59	27
6/26/90	60	28		1/7/92	62	27
7/12/90	68	27		1/20/92	71	27
*7/24/90	80	28		2/18/92	58	27
7/25/90	59	27		3/4/92	66	27
8/6/90	59	27		3/17/92	53	25
8/21/90	68	28		3/31/92	68	27
9/4/90	62	27		4/15/92	59	27
9/19/90	62	27		4/30/92	61	27
10/2/90	58	24		5/12/92	60	28
*10/19/90	62	27		5/27/92	53	27
10/19/90	72	49		*6/8/92	485	66
10/29/90	67	27		*6/9/92	186	50
11/16/90	62	28		6/9/92	67	27
11/27/90	75	27		*6/22/92	64	28
12/13/90	64	24		6/23/92	64	28
12/27/90	71	27		7/8/92	57	27
1/8/91	51	28		7/21/92	75	27
1/21/91	77	27		8/3/92	55	28
2/6/91	58	28		8/19/92	64	28
2/20/91	59	27		8/31/92	56	27
3/6/91	63	27		9/16/92	66	27
3/21/91	59	27		9/28/92	68	27
4/3/91	67	28		10/12/92	62	27
4/18/91	53	27		10/26/92	62	28
4/30/91	74	27		11/11/92	57	28
5/15/91	73	27		11/24/92	60	25
*5/28/91	68	27		12/8/92	67	27
*5/29/91	59	28		12/21/92	70	27
5/30/91	56	28		1/4/93	57	27
6/12/91	70	27		1/20/93	53	29
6/26/91	67	28		2/2/93	58	28
7/10/91	55	25		2/16/93	53	28

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-102 DRYWELL ACTIVITY						
WELL #41-02-11 WELL DEPTH 100'						
SCINTILLATION PROBE 2nd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/11/90				7/23/91		
1/24/90				8/7/91		
2/5/90				8/21/91		
*2/20/90				9/2/91		
2/22/90	65	25		9/16/91		
3/5/90				10/1/91		
3/19/90				10/14/91		
4/3/90				10/29/91		
4/19/90				11/11/91		
5/1/90				11/26/91		
5/17/90				12/9/91		
5/30/90	59	25		*12/26/91		
6/12/90				12/27/91		
6/26/90				1/7/92		
7/12/90				1/20/92		
*7/24/90	59	22		2/18/92		
7/25/90	49	24		3/4/92		
8/6/90	50	24		3/17/92		
8/21/90	60	25		3/31/92		
9/4/90	55	25		4/15/92		
9/19/90	52	25		4/30/92		
10/2/90				5/12/92		
*10/19/90				5/27/92		
10/19/90				*6/8/92		
10/29/90	60	25		*6/9/92		
11/16/90				6/9/92		
11/27/90	57	24		*6/22/92		
12/13/90	57	27		6/23/92		
12/27/90	57	24		7/8/92		
1/8/91				7/21/92	50	93
1/21/91				8/3/92		
2/6/91				8/19/92		
2/20/91				8/31/92		
3/6/91				9/16/92		
3/21/91				9/28/92		
4/3/91				10/12/92		
4/18/91				10/26/92		
4/30/91				11/11/92		
5/15/91				11/24/92		
*5/28/91				12/8/92		
*5/29/91				12/21/92		
5/30/91				1/4/93		
6/12/91				1/20/93		
6/26/91				2/2/93		
7/10/91				2/16/93		

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-103 DRYWELL ACTIVITY						
WELL #41-03-02 WELL DEPTH 100'						
SCINTILLATION PROBE 1st Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/11/90	64	49		6/3/91	78	49
1/24/90	67	49		6/12/91	70	49
2/5/90	72	49		6/25/91	64	49
2/20/90	64	49		7/10/91	80	49
3/5/90	63	49		*7/23/91	75	49
3/19/90	66	49		7/24/91	65	49
*4/3/90	861	96		8/7/91	66	49
4/5/90	62	59		8/21/91	68	49
4/18/90	75	49		9/2/91	66	49
5/1/90	62	49		9/16/91	69	49
*5/17/90	87	49		10/1/91	74	49
5/18/90	83	49		10/14/91	53	49
5/30/90	75	49		10/21/91	41	90
6/12/90	77	49		10/29/91	60	49
6/26/90	64	49		11/11/91	70	49
*7/12/90	61	49		11/26/91	72	49
7/13/90	72	49		12/9/91	53	49
7/24/90	61	59		12/27/91	61	49
8/6/90	64	49		1/7/92	73	49
8/21/90	68	49		1/20/92	69	49
9/4/90	64	49		2/18/92	61	49
*9/19/90	66	49		3/4/92	72	49
9/19/90	66	49		3/17/92	70	49
10/2/90	64	49		3/31/92	50	49
*10/19/90	35	96		4/15/92	57	49
10/19/90	56	49		4/30/92	55	49
10/29/90	67	49		5/12/92	55	49
11/16/90	63	49		5/27/92	76	49
11/27/90	61	49		*6/8/92	791	91
12/13/90	71	49		6/9/92	60	49
12/27/90	78	49		6/22/92	53	49
1/8/91	60	49		7/8/92	62	49
1/21/91	75	49		7/21/92	79	49
2/6/91	68	49		8/3/92	65	49
2/20/91	55	49		8/19/92	67	49
3/6/91	57	49		8/31/92	81	49
3/21/91	70	49		9/16/92	69	49
4/3/91	74	49		9/28/92	63	49
4/18/91	62	49		10/12/92	60	49
4/30/91	60	49		10/26/92	70	49
5/15/91	62	49		11/11/92	63	41
*5/28/91	65	49		11/24/92	59	49
*5/31/91	67	49		12/8/92	72	49
5/31/91	67	49		12/21/92	70	49
*6/3/91	69	49		1/4/93	71	49

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

F-65

• Suspect Data

241-SX-103 DRYWELL ACTIVITY						
WELL #41-03-02 WELL DEPTH 100'						
SCINTILLATION PROBE 2nd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/11/90				6/3/91		
1/24/90				6/12/91	48	41
2/5/90				6/25/91	57	42
2/20/90	51	59		7/10/91		
3/5/90	55	59		*7/23/91	53	41
3/19/90				7/24/91		
*4/3/90				8/7/91	55	41
4/5/90	55	49		8/21/91		
4/18/90	62	59		9/2/91	55	59
5/1/90	56	59		9/16/91	50	60
*5/17/90	49	59		10/1/91	50	59
5/18/90	56	59		10/14/91	60	59
5/30/90	59	59		10/21/91		
6/12/90	64	59		10/29/91	61	59
6/26/90				11/11/91	67	59
*7/12/90				11/26/91	45	59
7/13/90				12/9/91	58	59
7/24/90	60	49		12/27/91	60	59
8/6/90	58	59		1/7/92	50	59
8/21/90	48	59		1/20/92		
9/4/90	60	59		2/18/92	60	59
*9/19/90				3/4/92		
9/19/90	58	41		3/17/92	55	59
10/2/90	53	41		3/31/92	52	59
*10/19/90				4/15/92	60	59
10/19/90				4/30/92	53	59
10/29/90	46	41		5/12/92	53	59
11/16/90	49	41		5/27/92	58	60
11/27/90	40	41		*6/8/92		
12/13/90	48	41		6/9/92	68	60
12/27/90	42	41		6/22/92	56	59
1/8/91	50	41		7/8/92	55	59
1/21/91				7/21/92	65	59
2/6/91	41	41		8/3/92	63	59
2/20/91				8/19/92		
3/6/91				8/31/92	58	59
3/21/91	56	41		9/16/92	60	59
4/3/91	45	41		9/28/92	68	59
4/18/91				10/12/92	55	60
4/30/91				10/26/92	53	60
5/15/91				11/11/92	50	60
*5/28/91	52	41		11/24/92	55	59
*5/31/91	49	42		12/8/92		
5/31/91				12/21/92		
*6/3/91				1/4/93	53	59

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-103 DRYWELL ACTIVITY						
WELL #41-03-02 WELL DEPTH 100'						
SCINTILLATION PROBE 3rd Peak						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/11/90				6/3/91	60	58
1/24/90				6/12/91		
2/5/90				6/25/91	53	60
2/20/90				7/10/91	56	57
3/5/90				*7/23/91	56	59
3/19/90				7/24/91	46	59
*4/3/90				8/7/91	45	59
4/5/90				8/21/91	60	59
4/18/90				9/2/91		
5/1/90				9/16/91		
*5/17/90				10/1/91		
5/18/90				10/14/91		
5/30/90				10/21/91		
6/12/90				10/29/91		
6/26/90				11/11/91		
*7/12/90				11/26/91	50	41
7/13/90				12/9/91		
7/24/90				12/27/91		
8/6/90				1/7/92	62	41
8/21/90				1/20/92	50	41
9/4/90				2/18/92	53	41
*9/19/90				3/4/92		
9/19/90	51	59		3/17/92	56	41
10/2/90	60	59		3/31/92		
*10/19/90				4/15/92		
10/19/90	59	59		4/30/92	57	41
10/29/90	60	59		5/12/92		
11/16/90	63	59		5/27/92		
11/27/90	48	59		*6/8/92		
12/13/90	53	59		6/9/92	50	42
12/27/90	63	59		6/22/92		
1/8/91	55	59		7/8/92		
1/21/91	57	59		7/21/92		
2/6/91	65	59		8/3/92	50	41
2/20/91	52	59		8/19/92		
3/6/91	59	59		8/31/92	55	41
3/21/91	60	59		9/16/92	48	41
4/3/91	50	59		9/28/92		
4/18/91	65	59		10/12/92		
4/30/91	65	59		10/26/92		
5/15/91	55	59		11/11/92	60	50
*5/28/91	64	59		11/24/92	55	52
*5/31/91	54	59		12/8/92		
5/31/91	55	59		12/21/92		
*6/3/91	57	59		1/4/93		

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-104 DRYWELL ACTIVITY						
WELL #41-04-03 WELL DEPTH 100'						
SCINTILLATION PROBE						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
*1/11/90	14839	44		6/26/91	710	22
1/12/90	709	21		7/10/91	748	21
1/24/90	690	22		7/23/91	700	22
2/5/90	736	22		8/7/91	777	22
2/20/90	743	22		8/20/91	657	21
3/5/90	637	22		9/2/91	617	22
3/19/90	670	22		9/16/91	575	21
*4/3/90	728	22		*10/1/91	731	22
4/5/90	658	22		10/1/91	578	22
4/19/90	765	21		10/14/91	780	22
5/1/90	639	22		10/29/91	756	22
5/17/90	637	22		11/11/91	675	21
5/30/90	727	22		11/26/91	731	21
6/12/90	568	21		12/9/91	614	21
6/26/90	765	21		12/26/91	731	22
7/5/90	713	21		1/7/92	726	21
7/13/90	612	22		1/20/92	619	21
7/25/90	710	21		*2/18/92	627	22
8/6/90	732	21		2/19/92	690	22
8/22/90	595	22		3/4/92	779	21
9/4/90	632	22		3/18/92	615	21
9/19/90	652	22		3/31/92	652	22
10/2/90	631	22		4/14/92	623	21
10/18/90	653	22		4/28/92	565	22
10/29/90	668	22		5/12/92	682	22
11/16/90	689	21		5/27/92	675	21
11/27/90	625	21		*6/8/92	2159	38
12/13/90	641	21		6/9/92	722	21
12/28/90	676	21		*6/22/92	623	21
1/8/91	634	22		6/23/92	580	21
1/23/91	692	22		7/8/92	704	21
2/6/91	612	22		7/21/92	662	21
2/20/91	748	22		8/3/92	632	21
3/6/91	659	22		8/19/92	575	22
3/21/91	784	22		8/31/92	667	22
4/3/91	653	22		9/16/92	760	22
4/18/91	711	22		9/28/92	718	21
*4/30/91	690	21		10/13/92	682	21
5/2/91	623	21		10/26/92	625	21
5/15/91	641	21		11/24/92	669	22
*5/28/91	738	22		12/8/92	648	21
*5/29/91	640	21		12/21/92	705	21
*5/29/91	619	21		1/4/93	665	21
5/30/91	633	21		1/20/93	646	21
6/12/91	817	21		2/3/93	710	22

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

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Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

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Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

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Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

241-SX-109 DRYWELL ACTIVITY						
WELL #41-09-09 WELL DEPTH 126'						
SHIELDED SCINTILLATION PROBE						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/17/90	7544	74		3/8/93	12920	74
2/14/90	6834	74		4/6/93	14155	74
3/14/90	8517	74		5/4/93	13534	74
4/10/90	9224	74		5/31/93	14204	74
5/11/90	8294	74		6/28/93	13304	74
6/5/90	8219	74		7/27/93	14392	74
7/5/90	8539	74		8/24/93	14112	74
8/1/90	8658	74		9/23/93	17075	74
8/28/90	9816	74		10/19/93	13916	74
9/26/90	8340	74		*11/25/93	21250	74
10/24/90	10698	74		11/29/93	12678	74
*11/20/90	9725	74		1/7/94	15334	74
11/21/90	8221	74		1/11/94	14553	74
12/18/90	10714	74				
1/15/91	10700	74				
2/12/91	9774	74				
3/13/91	9652	74				
4/11/91	9830	74				
5/9/91	9773	74				
5/14/91	10092	74				
6/4/91	9656	74				
7/2/91	10993	74				
*8/2/91	8475	74				
8/2/91	10739	74				
8/27/91	10255	74				
9/23/91	9413	74				
10/21/91	9399	74				
11/18/91	11181	74				
12/16/91	11511	74				
1/13/92	11263	74				
2/14/92	11503	74				
*3/13/92	9795	74				
3/18/92	11395	74				
4/10/92	12536	74				
5/5/92	9988	73				
6/3/92	12513	74				
6/30/92	12181	74				
*7/27/92	12143	74				
7/28/92	11903	74				
8/24/92	12704	74				
9/24/92	12598	74				
11/20/92	13545	74				
12/16/92	12691	74				
1/12/93	10215	74				
2/8/93	13134	74				

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

241-SX-109 DRYWELL ACTIVITY						
WELL #41-09-09 WELL DEPTH 126'						
SCINTILLATION PROBE						
Date	Peak C/S	Depth ft.		Date	Peak C/S	Depth ft.
1/17/90	26349	74		8/24/92	79183	74
*2/14/90	68788	73		*9/21/92	67993	73
2/16/90	52472	74		9/24/92	61942	74
3/14/90	53410	74		10/19/92	69999	74
4/10/90	62915	73		11/17/92	78633	74
5/9/90	58394	74		12/16/92	68318	74
6/5/90	60060	74		*1/11/93	57539	74
*7/5/90	57069	74		*1/11/93	11883	74
7/5/90	8539	74		1/12/93	55923	74
8/1/90	59427	73		2/8/93	75447	74
8/28/90	67115	73		3/8/93	76034	74
9/26/90	62138	74		4/8/93	68936	73
10/24/90	63724	74		*5/4/93	84356	74
11/21/90	64765	73		5/4/93	79181	74
12/18/90	63893	74		5/31/93	76488	73
1/15/91	61556	74		*6/28/93	83677	73
2/12/91	62273	74		6/29/93	81460	74
*3/13/91	62674	74		7/27/93	83885	74
3/14/91	61836	73		8/24/93	72439	74
4/11/91	67074	73		9/23/93	84652	74
*5/9/91	9773	74		10/19/93	65443	74
*5/9/91	67677	73		*11/25/93	21250	74
*5/10/91	62922	73		11/25/93	72690	74
5/14/91	69572	74		1/7/94	77816	74
6/4/91	72012	74				
7/2/91	66829	73				
8/2/91	80120	73				
*8/26/91	67029	74				
8/27/91	67890	74				
9/11/91	69863	74				
9/23/91	68351	74				
10/21/91	65815	73				
11/18/91	66080	73				
12/16/91	60335	74				
1/13/92	69644	73				
2/14/92	63193	74				
3/12/92	66214	73				
3/18/92	67030	73				
*4/7/92	76425	73				
4/10/92	69916	74				
5/5/92	79070	73				
6/1/92	60681	74				
6/30/92	62566	73				
*7/27/92	68134	74				
7/28/92	69716	74				

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

*Suspect Data

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

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Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

[illegible]

Data obtained from WHC Surveillance Data Acquisition (SDA), January 26, 1994.

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241-SX-101		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	BG
2	4"	TEMPERATURE PROBE CUT OFF IN RISER
3	4"	
4	4"	FIC
5	12"	BG
6	12"	UNDERGROUND VENT LINE - BG
7	12"	(SLURRY RISER)
8	12"	AIR INLET CIRCULATOR IN CAISSON
9	12"	(SALTWELL PUMP)
10	3"	TEMPERATURE (DISCONNECTED) AND CUT OFF
11	8"	FLANGE
13	42"	BG, AIR CIRCULATOR
14	4"	SMP/B-436 LOW, BM
15	4"	TEMPERATURE PROBE
16	6"	BG
18	10"	BM, BREATHER FILTER, G-1 HOUSING
19	12"	B-222 OBSV PORT, BM

241-SX-101

3,790,000 Liters
[1,000,000 Gallons]

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-102		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	PIT DRAIN
2	4"	BM, BREATHER FILTER, G-1 HOUSING
3	4"	TANK FILL
4	4"	FIC INTRUSION MODE
5	12"	PUMP RISER
6	12"	UNDERGROUND VENT LINE - BG
7	12"	DISTRIBUTOR
8	12"	OBSV PORT, BM
9	12"	SALTWELL SCREEN AND P-10 PUMP
11	4"	3" DIP TUBE WITH SCREEN - CUT OFF, BM
13	42"	BG
14	4"	B-436 LOW
16	4"	TEMPERATURE PROBE

241-SX-102

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73219, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-103		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	(PIT DRAIN)
2	4"	TEMPERATURE PROBE
3	4"	FIC, BM
4	4"	(PIT DRAIN)
5	12"	(PUMP RISER)
6	12"	UNDERGROUND VENT LINE - BG
7	12"	B-222 OBSV PORT, BM
8	12"	(PUMP RISER)
9	12"	SALTWELL SCREEN AND PUMP
11	4"	SMP, BM
13	42"	BG
14	4"	SMP/B-436 LOW
16	4"	SMP/BREATHER FILTER/G-1 HOUSING

241-SX-103

3,790,000 Liters
[1,000,000 Gallons]

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3

Ref: H-2-46293, Rev. 3

241-SX-104		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	(RECIRCULATING NOZZLE)
2	4"	BM, TEMPERATURE PROBE
3	4"	FLANGE
4	4"	FIC
5	12"	SALTWELL SCREEN AND PUMP
6	12"	CRUST BREAKER - TUBES TO BIN (CAISSON)
7	12"	OBSV PORT, BM
8	12"	UNDERGROUND VENT LINE - BG
11	4"	SMP, BM, BREATHER FILTER, G-1 HOUSING
13	42"	(DISTRIBUTOR)
14	4"	SMP, TEFZEL LOW
16	4"	B-436 LOW, UNSERVICEABLE

241-SX-104

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73221, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-105		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	RECIRCULATING NOZZLE
2	4"	BM, TEMPERATURE PROBE
3	4"	BLIND FLANGE
4	4"	FIC ITRUSION MODE
5	12"	SALTWELL SCREEN AND PUMP
6	12"	B-222 OBSV PORT
7	12"	FLANGE WITH 2-1" DIP TUBES, BM
8	12"	BG
11	4"	SMP/BREATHER FILTER, G-1 HOUSING, BM
12	4"	TEMPERATURE PROBE (CUT OFF)
13	42"	DISTRIBUTOR RISER (EMPTY)
14	4"	SMP
15	4"	TEMPERATURE PROBE (CUT OFF)
16	4"	B-436 LOW
17	2.5"	BG
18	16"	AIR CIRCULATOR LINES (PIPING CUT OFF)
19	16"	BG
20	16"	AIR CIRCULATOR LINES (PIPING CUT OFF)
21	16"	BG
22	2.5"	BG

241-SX-105

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73222, Rev. 3

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-106		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	(CONN NOZZLE)
2	4"	TC (CUT OF IN RISER), BM
3	4"	FIC INTRUSION MODE
4	4"	(DOME RISER)
5	12"	(SALTWELL SCREEN AND PUMP)
6	12"	OBSV PORT, DRAIN FROM EXHAUST SEAL POT
7	12"	BM
8	12"	(CONDENSATE PUMP)
11	4"	BM, BREATHER FILTER, G-1 HOUSING
13	42"	(DISTRIBUTOR RISER)
14	4"	B-436 LOW
16	4"	TEMPERATURE PROBE

241-SX-106

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73223, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-107		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	BG
2	4"	LIQUID LEVEL REEL IN HOUSING
3	4"	DRAIN
4	4"	COVERED WITH CONCRETE
5	12"	BG
6	12"	B-222 OBSV PORT
7	12"	PUMP
8	12"	AIR CIRCULATOR LINES
9	2.5"	TEMPERATURE PROBE, TO CASS, WC
10	2.5"	TEMPERATURE PROBE, TO CASS, WC
11	2.5"	TEMPERATURE PROBE, TO CASS, WC
12	2.5"	TEMPERATURE PROBE, TO CASS, WC
13	42"	
13A	18"	AIR INLET FILTER H-2-95451, DETAIL 1
14	2.5"	TEMPERATURE PROBE, TO CASS, WC
15	2.5"	TEMPERATURE PROBE, TO CASS, WC
16	12"	FLANGE WITH BALE
17	12"	FLANGE WITH BALE, BM
18	2.5"	TEMPERATURE PROBE, TO CASS, WC
19	2.5"	TEMPERATURE PROBE, TO CASS, WC
20	6"	POST (OLD LLR RISER)
21	18"	EXHAUSTER PORT (U.G.)

241-SX-107

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73210, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-108		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	PIT DRAIN
2	4"	LIQUID LEVEL REEL IN HOUSING
3	4"	TEMPERATURE PROBE - UNUSED
4	4"	COVERED WITH CONCRETE
5	12"	(PUMP)
6	12"	WEATHER COVERED
7	12"	FLANGE, BM
8	12"	AIR CIRCULATOR LINES
9	2.5"	TEMPERATURE PROBE, TO CASS
10	2.5"	TEMPERATURE PROBE, TO CASS, WC
11	2.5"	TEMPERATURE PROBE, TO CASS, WC
12	2.5"	TEMPERATURE PROBE, TO CASS, WC
13A	18"	AIR INLET FILTER, H-2-95451, DETAIL 1
14	2.5"	TEMPERATURE PROBE, TO CASS, WC
15	2.5"	TEMPERATURE PROBE, TO CASS, WC
16	12"	FLANGE WITH BALE
17	12"	OBSV PORT, BM
18	2.5"	TEMPERATURE PROBE, TO CASS, WC
19	2.5"	TEMPERATURE PROBE, TO CASS, WC
20	18"	EXHAUSTER PORT, BG
21	12"	TEMPERATURE PROBE - UNUSED
22	4"	POST (OLD LLR RISER)

241-SX-108

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73211, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-109		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	DRAIN
2	4"	LIQUID LEVEL REEL, BM
3	4"	TEMPERATURE PROBE, UNUSED, BM
4	4"	COVERED WITH CONCRETE
5	12"	(PUMP)
6	12"	EXHAUSTER PORT
7	12"	45° SWEEP
8	12"	AIR CIRCULATOR LINES - WC
9	2.5"	TEMPERATURE PROBE, TO CASS, WC
10	2.5"	TEMPERATURE PROBE, TO CASS, WC
11	2.5"	TEMPERATURE PROBE, TO CASS, WC
12	2.5"	TEMPERATURE PROBE, TO CASS, WC
13A	20"	AIR INLET FILTER/OBSV PORT, H-2-95451, DETAIL III
14	2.5"	TEMPERATURE PROBE, TO CASS, WC
15	2.5"	TEMPERATURE PROBE, TO CASS, WC
16	12"	BG
17	12"	BG
18	2.5"	TEMPERATURE PROBE, TO CASS, WC
19	2.5"	TEMPERATURE PROBE, TO CASS, WC
20	4"	TEMPERATURE PROBE - UNUSED
21	4"	POST (OLD LLR RISER)

241-SX-109

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73212, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-110		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	(PIT DRAIN)
2	4"	LIQUID LEVEL REEL
3	4"	TEMPERATURE PROBE - CUT OFF IN RISER
4	4"	TBX - CUT OFF IN RISER
5	12"	(PUMP)
6	12"	TEMPERATURE PROBE - CUT OFF IN RISER
7	12"	DIP TUBE - CUT OFF IN RISER
8	12"	AIR CIRCULATOR LINES
9	2.5"	TEMPERATURE PROBE, TO CASS
10	2.5"	TEMPERATURE PROBE, TO CASS
11	6"	TEMPERATURE - CUT OFF IN RISER
12	2.5"	TEMPERATURE PROBE, TO CASS
13A	20"	AIR INLET FILTER, H-2-95451, DETAIL V
14	2.5"	TEMPERATURE PROBE, TO CASS
15	2.5"	TEMPERATURE PROBE, TO CASS
16	12"	FLANGE WITH BALE
17	12"	OBSV PORT, BM
18	2.5"	TEMPERATURE PROBE, TO CASS
19	2.5"	TEMPERATURE PROBE, TO CASS
20	2.5"	TEMPERATURE PROBE, TO CASS, BM
21	12"	EXHAUSTER PORT

241-SX-110

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73224, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-111		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	DRAIN
2	4"	LIQUID LEVEL REEL
3	4"	TEMPERATURE PROBE - UNUSED
4	4"	COVERED WITH CONCRETE
5	12"	SALTWELL SCREEN AND PUMP
6	12"	FLANGE WITH LIFTING BALE
7	12"	EQUIPMENT - LIFTING BALE, MB
8	12"	AIR CIRCULATOR LINES
9	2.5"	TEMPERATURE PROBE, TO CASS
10	2.5"	TEMPERATURE PROBE, TO CASS
11	2.5"	TEMPERATURE PROBE, TO CASS
12	2.5"	TEMPERATURE PROBE, TO CASS
13A	20"	AIR INLET FILTER, H-2-95451, DETAIL V
14	2.5"	TEMPERATURE PROBE, TO CASS
15	2.5"	TEMPERATURE PROBE, TO CASS
16	12"	OBSV PORT
17	12"	FLANGE, BM
18	2.5"	TEMPERATURE PROBE, TO CASS
19	2.5"	TEMPERATURE PROBE, TO CASS
20	12"	EXHAUST PORT

241-SX-111

3,790,000 Liters
[1,000,000 Gallons]

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
 Ref: H-2-46293, Rev. 3

241-SX-112		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	(DRAIN)
2	4"	LIQUID LEVEL REEL, BM
3	4"	TEMPERATURE PROBE - UNUSED
4	4"	COVERED WITH CONCRETE
5	12"	(PUMP)
6	12"	OBSV PORT, BM
7	12"	BG
8	12"	AIR CIRCULATOR LINES
9	2.5"	TEMPERATURE PROBE, TO CASS
10	2.5"	TEMPERATURE PROBE, TO CASS
11	2.5"	TEMPERATURE PROBE, TO CASS
12	2.5"	TEMPERATURE PROBE, TO CASS
13A	20"	BM, AIR INLET FILTER, H-2-95451, DETAIL V
14	2.5"	TEMPERATURE PROBE, TO CASS
15	2.5"	TEMPERATURE PROBE, TO CASS
16	12"	BG
17	12"	BG
18	2.5"	TEMPERATURE PROBE, TO CASS
19	2.5"	TEMPERATURE PROBE, TO CASS
20	12"	EXHAUST PORT
21	4"	POST (OLD LLR RISER)

241-SX-112

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73214, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-113		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	DRAIN
2	4"	LIQUID LEVEL REEL
3	4"	TEMPERATURE PROBE, BM
4	4"	FLANGE WITH COVER
5	12"	PUMP
6	12"	BREATHER FILTER
7	12"	OBSV PORT
8	12"	WEATHER COVERED AIR CIRCULATOR
10	4"	BG
11	4"	UNDER CONCRETE SLAB - BG
13	42"	POST (OLD LLR RISER)

241-SX-113

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73215, Rev. 2

TANK RISER LOCATION

Approximate Grade Elevation 663m [202.08ft]

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-114		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	DRAIN
2	4"	LIQUID LEVEL REEL, BM
3	4"	TEMPERATURE PROBE WC - UNUSED
4	4"	COVERED WITH CONCRETE
5	12"	(PUMP)
6	12"	SPRINKLER
7	12"	FLANGE WITH EQUIPMENT
8	12"	AIR CIRCULATOR LINES
9	2.5"	TEMPERATURE PROBE, TO CASS, WC
10	2.5"	TEMPERATURE PROBE, TO CASS, WC
11	2.5"	TEMPERATURE PROBE, TO CASS, WC
12	2.5"	TEMPERATURE PROBE, TO CASS, WC
13A	20"	AIR INLET FILTER, H-2-95451, DETAIL V
14	2.5"	TEMPERATURE PROBE, TO CASS, WC
15	2.5"	TEMPERATURE PROBE, TO CASS, WC
16	12"	FLANGE WITH BALE
17	12"	FLANGE WITH BALE, OBSV PORT
18	2.5"	TEMPERATURE PROBE, TO CASS, WC
19	2.5"	TEMPERATURE PROBE, TO CASS, WC
20	24"	EXHAUSTER PORT (TANK OUTLET)
21	4"	POST (OLD LLR RISER)

241-SX-114

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73216, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

241-SX-115		
NO.	DIA.	DESCRIPTION AND COMMENTS
1	4"	DRAIN WC
2	4"	LIQUID LEVEL REEL, BM
3	4"	BREATHER FILTER
4	4"	COVERED WITH CONCRETE
5	12"	PUMP WC
6	12"	OBSV PORT (CAISSON)
7	12"	BG - VENTLINE
8	12"	AIR CIRCULATOR LINES
9	24"	BG
13	42"	BG

241-SX-115

3,790,000 Liters
[1,000,000 Gallons]

TC=Thermocouple
Ref: WHC-SD-RE-TI-053, Rev. 8
WHC-SD-WM-TI-553, Rev. 0
H-2-73217, Rev. 2

TANK RISER LOCATION

Ref: H-2-39511, Rev. 3
Ref: H-2-46293, Rev. 3

Waste Tank 101 - SX		
Analysis of Salt Sample From Tank 101-SX		
November 13, 1974		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Bulk Density	1.65	g/cc
Particle Density	2.13	g/cc
Chemical Analysis		
H ₂ O	3.2	%
NaAlO ₂	1.1	%
NaNO ₂	0.5	%
NaNO ₃	87.9	%
NaOH	0.7	%
Na ₃ PO ₄	< 0.1	%
Na ₂ CO ₃	3.6	%
Total	97.0	%
Radiological Analysis		
89 + 90 Sr	0.226	uc/g
137 Cs	24.8	uc/g
239 Pu	< 8.0E-09	g/g
Sulfate analysis has been requested but not yet run.		

Waste Tank 101 - SX		
Analysis of Sample From Tank 101-SX		
November 20, 1974		
Sample: T-6496		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Clear, yellow. No Solids. 1 Rad		
pH	12.5	
SpG	1.318	
Water	64.04	%
Chemical Analysis		
OH	0.984	<u>M</u>
Al	1.46	<u>M</u>
Na	5.62	<u>M</u>
NO2	0.379	<u>M</u>
NO3	3.06	<u>M</u>
SO4	Deleted by R. L. Walser	
PO4	2.86E-02	<u>M</u>
F	8.15E-03	<u>M</u>
CO3	0.212	<u>M</u>
Radiological Analysis		
GEA 137 Cs	9.08E+ 05	uCi/gal
Pu	9.31E-06	gm/gal

Waste Tank 101 - SX			
Analysis of 101-SX Tank Solids			
December 4, 1978			
Sample #4523			
COMPONENT	WATER SOLUBLE	ACID (FUSION)	LAB UNIT
Physical Data			
The sample was grayish-white in color			
Water Solubility	80.0		%
Bulk Density	1.52		g/cc
Percent Water	12.0		
Chemical Analysis			
Al*	1.0	0.02	%
Bi (3+)	< 0.02	< 0.04	%
CO3(2-)	1.2		%
CrO4-	0.5	-	%
Cl-	0.02	-	%
F-	0.03	-	%
Fe*	0.002	-	%
Hg*	NR	-	%
K+	NR		%
La(3+)	0.07		%
Mn*	NR	-	%
Ni (2+)	0.002	-	%
NO2-	6.1	-	%
NO3-	47.0	0.2	%
Na+	28.3		%
OH-	1.6		%
PO4(3-)	0.6	0.1	%
SO4(2-)	< 0.07	< 0.3	%
SiO2(2-)	0.07	0.4	%
Radioisotope Analysis			
U*	1.06E-07	2.20E-06	g/g
Pu*	5.89E-11	8.97E-08	g/g
Am*	NR		
89+ 90 Sr2+	0.18	23.4	uci/g
137 Cs+	135.6	9.0	uci/g
155 Eu	NR	0.225	uci/g
* All oxidation states			
NR - Analysis not requested			

Waste Tank 101 - SX		
Analysis of 101-SX Supernatant Liquid		
December 4, 1978		
Sample #4523		
COMPONENT	WATER SOLUBLE	ACID (FUSION)
Physical Data		
Density	1.76	
Percent Water	58.0	
Chemical Analysis		
NaAlO2	1.95 M	8.20%
NaNO2	2.45 M	8.70%
NaNO3	1.82 M	7.90%
NA3PO4	0.046 M	0.40%
Na2SO4		
FeOOH	0.0004 M	0.003%
SiO2	0.018 M	0.06%
Mn	< 1.99E-04 M	< 0.0005%
Mg	< 1.31E-04 M	< 0.0002%
Radiological Analysis		
Pu	2.14E-07 g/l	
89+ 90 Sr	5.17E-02 uCi/l	
137 Cs	6.68E+ 05 uCi/l	

Waste Tank 101 - SX		
Chemical Analysis 101-SX		
February 7, 1979		
Sample E-00162		
COMPONENT	LAB VALUE	LAB UNIT
Chemical Analysis		
TOC	3.12	g/l
Al(+ 3)	1.40	M
OH-	5.20	M
NO ₂ -	2.46	M
NO ₃ -	3.44	M
	0.140	M
PO ₄ (3-)	0.094	M
SO ₄ (2-)	< 0.006	M
Radiological Analysis		
137 Cs	6.14E- 05	uCi/l

Waste Tank 101 - SX		
Tank 101SX Analyses of Sample #T-1013 Supernatant		
July 14, 1980		
Sample T-1013		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Sample contained ~ 70% brown, non-crystalline solids		
Sp.G.	1.060	
H2O	89.79	%
Chemical Analysis		
Al	0.0756	moles/liter
OH	0.253	moles/liter
NO2	0.171	moles/liter
NO3	1.115	moles/liter
CO3	0.054	moles/liter
PO4	0.0746	moles/liter
Radiological Analysis		
137 Cs	4.27E+ 04	uCi/L
Pu	2.55E-06	g/L

Waste Tank 101 - SX				
Analysis of Tank 101-SX Waste				
October 29, 1980				
	SHALLOW		DEEP	
COMPONENT	MOLARITY	WT%	MOLARITY	WT%
Physical Data				
	Clear Solution		Contained less than two percent reddish brown solids	
Sp.G.	1.020		1.028	
H ₂ O		96.48		93.84
Chemical Analysis				
NaAlO ₂	0.0365	0.29	0.0672	0.54
NaOH	0.419	1.64	0.368	1.43
NaNO ₂	0.0883	0.60	0.145	0.97
NaNO ₃	0.199	1.66	0.299	2.47
Na ₂ CO ₃	0.0320	0.33	0.0430	0.44
Na ₃ PO ₄	0.0216	0.35	0.0362	0.58
TOC (g/L)	0.326	0.09	0.484	0.14
Radiological Analysis				
⁹⁰ Sr (uCi/L)	1.27E+ 02		2.72E+ 04	
GEA ¹³⁷ Cs(uCi/L)	1.60E+ 04		2.57E+ 04*	
Pu (g/L)	1.22E-06		4.63E-06	
* Also 20.8 uCi/L Co-60				

Waste Tank 101 - SX		
Analysis of Tank 101-SX Liquid		
February 22, 1990		
Sample #: R4884 Received: April 26, 1989		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Density	1.11	g/ml
pH	13.1	
Total Organic Carbon	0.32	g/l
Chemical Analysis		
Cl-	0.155	M
F-	0.067	M
PO4(3-)	0.056	M
SO4(2-)	0.073	M
NO3(2-)	1.45	M
NO2-	0.11	M
OH-	0.16	M
Al	0.046	M
B	0.0004	M
Ca	0.0001	M
Cd	< 0.00002	M
Cr	0.0064	M
K	0.0030	M
Na	1.21	M
Ni	< 0.0003	M
P	0.0052	M
Pd	< 0.0003	M
Sn	< 0.0005	M
Other ICP elements	< 0.0002	M
Radiological Analysis		
137 Cs	2.85E+ 04	Ci/l
89+90 Sr	2.20E+ 00	Ci/l
99 Tc	1.45E+ 01	Ci/l
239/240 Pu	< .03	Ci/l
241 Am	< .08	Ci/l
Alpha Total	< 3.7	Ci/l
Total Beta	40100	Ci/l

Waste Tank 102-SX		
Analysis of Tank Farm Sample		
October 14, 1974		
Sample #: T-6736		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
VIS-OTR: Clear, Yellow, No Solids. 500 mRads/hr on contact		
pH	13.3	
SpG	1.2239	
H2O	73.86	%
Chemical Analysis		
OH	0.510	Molar
Al	0.220	Molar
Na	5.81	Molar
NO2	9.62E-02	Molar
NO3	1.29	Molar
SO4	7.71E-02	Molar
PO4	2.31E-02	Molar
F	3.54E-02	Molar
CO3	0.610	Molar
Radiological Analysis		
134Cs	3.87E+ 03	uCi/gal
134Cs Rerun	4.31E+ 03	uCi/gal
137Cs	4.62E+ 05	uCi/gal
137Cs Rerun	4.69E+ 05	uCi/gal
Pu	7.12E-06	gm/gal

Waste Tank 102-SX		
Characterization of 102-SX Sludge Sample		
November 26, 1974		
Analysis of Top Layer		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
H ₂ O	28.60	%
Wet Density	1.74	
Chemical Analysis		
Na	9.11	moles/L
Al	5.77	moles/L
Fe	0.135	moles/L
SO ₄	0.037	moles/L
PO ₄	0.004	moles/L
Radiological Analysis		
Pu	1.95E-03	g/l
89+ 90Sr	1.37E+ 06	uc/l
137Cs	4.52E+ 06	uc/l

Waste Tank SX-102		
Analysis of Bottom Layer		
November 26, 1974		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
H2O	14.3	%
Wet Density	1.90	
Chemical Analysis		
Na	3.61	moles/L
Al	5.12	moles/L
Fe	1.26	moles/L
SO4	0.021	moles/L
PO4	0.015	moles/L
Radiological Analysis		
Pu	7.56E-04	g/l
89+ 90Sr	7.98E+ 05	uc/l
137Cs	2.22E+ 05	uc/l

Waste Tank 102-SX							
Analyses of Solids from 241-SX-102							
May 25, 1975							
Sampled April 18, 1975				Sampled May 9, 1975			
Component	Lab Value	Lab Unit	% Lab Value		Lab Value	Lab Unit	% Lab Value
Physical Data							
Bulk Density	1.88	g/ml			1.3	g/ml	
Percent H ₂ O			32.3%				50.0%
Chemical Analysis							
NaOH	2.71	mol/L	5.8%		2.85	mol/L	8.9%
NaAlO ₂	0.75	mol/L	3.3%		0.38	mol/L	2.4%
NaNO ₂	1.18	mol/L	4.3%		0.81	mol/L	4.4%
NaNO ₃	1.88	mol/L	8.5%		1.65	mol/L	10.9%
Na ₂ CO ₃	1.14	mol/L	6.5%		1.99	mol/L	16.0%
Na ₃ PO ₄	0.07	mol/L	0.6%		< 0.3	mol/L	< 3.4%
Na ₂ SO ₄	0.29	mol/L	2.2%		0.31	mol/L	3.5%
Al ₂ O ₃	< 0.1	mol/L	< 0.4%				
FeOH	0.04	mol/L	0.2%				
MnO ₂	0.04	mol/L	0.2%				
MgO	< 0.01	mol/L	< 0.1%				
SiO ₂	0.05	mol/L	0.2%				
Ca(OH) ₂	0.01	mol/L	0.1%				
Cr ₂ O ₇	0.01	mol/L	0.1%				
Radiological Analysis							
²³⁹ Pu	2.73E-03	g/l					
²³⁹ Pu	1.56E-06	g/g					
89+ 90Sr	1.09E+ 05	uCi/l					
89+ 90Sr	58.2	uCi/g					
¹³⁷ Cs	3.43E+ 04	uCi/l					
¹³⁷ Cs	1.63E+ 02	uCi/g					
¹³⁴ Cs	3.11E+ 02	uCi/l					
¹³⁴ Cs	0.17	uCi/g					
⁶⁰ Co	6.55E+ 02	uCi/l					
⁶⁰ Co	0.35	uCi/g					
¹²⁵ Sb	2.72E+ 03	uCi/l					
¹²⁵ Sb	1.45	uCi/g					
¹⁵⁴ Eu	2.89E+ 02	uCi/l					
¹⁵⁴ Eu	0.15	uCi/g					

Analysis of Salt Sample from 102-SX				
March 18, 1976				
COMPONENT	SAMPLE 1	SAMPLE 2	AVERAGE	LAB UNIT
Physical Data				
Bulk Density	1.829		1.829	g/cc
H ₂ O	13.9		13.9	%
Chemical Analysis				
NaAlO ₂	0.9	1.2	1.1	%
NaNO ₂	1.6	1.4	1.5	%
NaNO ₃	87.5	83.4	85.5	%
NaOH	1.0	1.1	1.1	%
Na ₂ CO ₃	3.5	3.3	3.4	%
Na ₃ PO ₄	0.5	0.2	0.4	%
Na ₂ CrO ₄	0.4	0.4	0.4	%
Al ₂ O ₃	1.0	0.8	0.9	%
Fe ₂ O ₃	0.2	0.2	0.2	%
²³⁹ Pu	0.63	0.25	0.44	ug/g
Radiological Analysis				
89+ 90Sr	21.0	21.3	21.2	uCi/g
¹³⁷ Cs			97.7	uCi/g
¹³⁴ Cs			0.29	uCi/g
¹⁰⁶ Ru			2.0	uCi/g
¹⁵⁴ Eu			0.29	uCi/g
⁶⁰ Co			0.11	uCi/g

Waste Tank 102-SX		
SX-102 Analysis		
September 7, 1977		
Date Received: August 19, 1977		
Sample: 8992, JS#15		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Sample Vol.	1.3	
Dil. Vol.	288	
Chemical Analysis		
Fe	0.13	M
Al	0.66	M
Ni	7.30E-03	M
Mn	0.028	M
Mg	0.027	M
Cr	0.17	M
Hg	< 5.5E-03	M
Ca	< 0.029	M
Cd	< 3.0E-03	M
Si	0.051	M
Ba	0.011	M
NO3	1.1	M
PO4	3.70E-02	M
SO4	< 0.65	M
Radiological Analysis		
Sr	1.30E+ 05	uCi/l
U	1.90E-03	g/l
Pu	2.30E-03	g/l
Cs	2.70E+ 05	uCi/l
155 Eu	4.70E+ 03	uCi/l

Waste Tank 102-SX			
Analysis of Tank 102-SX			
September 3, 1980			
Sample # T-2959			
Concentration			
COMPONENT	AL (ORIGINAL)	SPDU (SUPERNATANT)	LAB UNIT
Physical Data			
Sample contained approximately 40 percent solids			
SpG	1.555	1.413	
H ₂ O	50.84	53.34	%
Chemical Analysis			
Al	1.20	1.16	m/l
OH	2.21	2.05	m/l
NO ₃	3.26	"Too much carbonate"	m/l
NO ₂	2.23	2.15	m/l
PO ₄	0.081	0.0384	m/l
SO ₄	0.210	"Too much carbonate"	m/l
CO ₃	0.798	0.440	m/l
Na	10.3	*	m/l
Cl	0.193	*	m/l
TOC	12.7	*	g/l
Radiological Analysis			
¹³⁷ Cs	4.54E+ 05	*	uCi/l
* Not Analyzed			

Waste Tank 103-SX		
Analysis Of Tank Sludge "As Received"		
June 10, 1975		
Received: April 11, 1975		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The sludge solids were reddish-brown in color, soft, very fine, and had the consistency of mud.		
Wet Density	1.53	
H ₂ O	45.4	%
Chemical Analysis		
Al	4.8	M
Fe	0.2	M
Ca	0.1	M
Mg	0.04	M
Mn	0.1	M
NO ₂	0.2	M
NO ₃	17.3	M
Si	0.2	M
Radiological Analysis		
Pu	9.73E-03	g/L
Sr-89,90	2.63E+ 06	uCi/L
Cs-137	2.29E+ 05	uCi/L
Cs-134	4.85E+ 03	uCi/L

Waste Tank 103-SX		
Analysis of Tank Supernatant Liquid		
June 10, 1975		
Received: April 11, 1975		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Density	1.38	
H2O	53.3	%
Chemical Analysis		
Fe	9.41E-05	<u>M</u>
Fe	0.0	%
NaAlO2	0.39	<u>M</u>
NaAlO2	2.3	%
NaNO3	5.59	<u>M</u>
NaNO3	34.4	%
NaOH	0.964	<u>M</u>
NaOH	2.8	%
Na2CO3	0.538	<u>M</u>
Na2CO3	4.2	%
Si	1.25E-03	<u>M</u>
Si	0.0	%
Radiological Analysis		
Pu	2.23E-06	g/L
Sr-89,90	1.87E+ 03	uCi/L
Cs-137	2.96E+ 05	uCi/L
Cs-134	1.13E+ 03	uCi/L

Waste Tank 103-SX				
Analysis Of Tank Supernatant Liquid				
March 18, 1976				
COMPONENT	SAMPLE 1	SAMPLE 2	AVERAGE	LAB UNIT
Physical Data				
Bulk Density	1.601		1.601	g/cc
H2O	8.1		8.1	%
Chemical Analysis				
NaAlO2	1.0	1.0	1.0	%
NaNO2	1.5	1.8	1.7	%
NaNO3	84.3	82.3	83.3	%
NaOH	0.9	0.9	0.9	%
Na2CO3	2.1	3.1	2.6	%
Na2PO4	0.2	0.1	0.2	%
Na2CrO3	0.3	0.3	0.3	%
Al2O3	0.1	0.1	0.1	%
Fe2O3	< 0.1	< 0.1	< 0.1	%
MuO2	0.1	0.1	0.1	%
Cr2O3	0.1	0.1	0.1	%
Radiological Analysis				
Pu-239	0.66		0.66	ug/g
Sr-89,90	10.4	10.6	10.5	uCi/g
Cs-137	53.3	53.8	53.6	uCi/g

Waste Tank 103-SX		
Analysis Of Tank Salts		
December 8, 1976		
Received: September 17, 1976		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Sample had coarse granular crystals		
Bulk Density	0.84	g/cc
Particle Density	2.24	g/cc
H2O	15.0	%
Chemical Analysis		
AlO2	1.7	%
NO2	2.1	%
NO3	51.1	%
CO3	3.6	%
OH	0.009	%
Na	27.8	%
Fe	0.2	%
PO4	0.3	%
SO4	0.5	%
Ca	0.1	%
Cr	0.002	%
Mg	0.02	%
Mn	0.04	%
Si	0.3	%
Ni	0.004	%
Radiological Analysis		
Pu	0.446	ug/g
Sr-89,90	38.0	uCi/g
Cs-137	95.1	uCi/g

Waste Tank 103-SX					
Analysis Of Damp, Packed Soils					
December 16, 1977					
Sample #: 1104 (AI#4866, Js#45) Received: October 10, 1977					
COMPONENT	LAB VALUE	LAB UNITS	COMPONENT	LAB VALUE	LAB UNITS
Physical Data					
The Sample appeared as a dark grey slush					
The Sample contained 42% supernatant liquid					
Samp. Vol.	1.4	mL	Dil. Vol.	415	mL
DF	296				
Chemical Analysis					
NO3	NR	M	Si	2.20E-02	M
PO4	1.1E-02	M	Ba	< 3.0E-03	M
Fe	2.0E-02	M	Bi	< 1.5E-03	M
Al	0.80	M	Na	24	M
Ni	1.7E-03	M	C(TO)	920	M
Mn	< 8.1E-03	M	I	NR	M
Mg	< 2.1E-03	M	Pb	NR	M
Cr	7.7E-02	M	NO2	NR	M
Hg	7.9E-03	M	SO4	< 0.89	M
Ca	1.1	M	CO	< 0.19	M
Cd	7.0E-04	M	F	3.90E-02	M
Cs-137	3.5E+ 05	uCi/L	Am-241	1.5E-05	g/L
Sr-89,90	1.50E+ 05	uCi/L	Tl	< 1.1	g/L
Radiological Analysis					
AT	65	uCi/L	Eu-154	NF	uCi/L
Pu	2.20E-04	g/L	Co-60	NF	uCi/L
U	4.70E-04	g/L	Sb-125	NF	uCi/L
Eu-155	NF	uCi/L	Cs-134	6.4E+ 02	uCi/L
* Sample was dissolved in aqua regia					
C(TO) = total organic carbon					
NR = not requested					
NF = not found					

Waste Tank 103-SX		
Analysis of Supernate		
Sample #: 1104 (AP #5426, JS#48) Received: October 10, 1977		
COMPONENT	LAB VALUE	LAB UNITS
Radiological Analysis		
Sr-89,90	7.3E+ 03	uCi/L
Cs-137	3.4E+ 05	uCi/L
Cs-134	6.5E+ 02	uCi/L
* Sample was reconstituted supernate. Sr and GEA were the only analysis done on this sample.		
Heat penetration rate = $(7.3E-03)(6.8E-03) + (0.34)(4.8E-03) = 1.7E-03$ watts/L		

Waste Tank 104-SX		
Analysis of Top Layer of Sludge Sample 104 - SX.		
December 16, 1974		
Received: June 19, 1974.		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The top layer was composed of large yellow crystals and represent about 15 volume percent of the totals sample received.		
Chemical Analysis		
NaNO ₂	0.1	%
Na ₂ SO ₄	0.1	%
Na ₃ PO ₄	0.1	%
NaAlO ₂	0.1	%
NaNO ₃	114.0	%
Radiological Analysis		
89+ 90 Sr	5.5E-02	uC/g
137 Cs	4.71	uC/g

Waste Tank SX-104		
Analysis Of Bottom Layer		
December 16, 1974		
Received: June 19, 1974		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The bottom layer was grayish in color with very hard chunks throughout the sample		
Wet Density	1.62	
Dry Density	1.32	
H2O	18.6	%
Chemical Analysis		
Al	3.53	moles/l
Ba	0.01	moles/l
PO 4	< 0.07	moles/l
SO4	0.024	moles/l
Mg	0.041	moles/l
Fe	0.19	moles/l
Na	13.50	moles/l
Radiological Analysis		
89+ 90 Sr	2.53E+ 06	uCi/l
137Cs	1.29E+ 05	uCi/l

Waste Tank 104-SX		
Analysis of Tank Farm Samples		
October 21, 1974		
Sample T - 7326		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Clear Yellow 5% Solids 1 Rad		
pH	> 13.10	
SpG	1.4618	
Water	21.29	%
Chemical Analysis		
OH	1.52	<u>M</u>
Al	9.96E-03	<u>M</u>
Na	10.09	<u>M</u>
NO2	0.529	<u>M</u>
NO3	5.81	<u>M</u>
SO4	3.23E-02	<u>M</u>
PO4	1.41E-02	<u>M</u>
F	1.20E-02	<u>M</u>
CO3	0.204	<u>M</u>
Radiological Analysis		
Pu	4.69E-06	g/gal
GEA : Cs 134	6.55E+ 03	uCi/gal
GEA : Cs 137	1.04E+ 06	uCi/gal
GEA : Sb 125	1.40E+ 03	uCi/gal

Waste Tank 104-SX		
Analysis Of Tank Farm Sample		
April 23, 1975		
Received: February 19, 1975		
Sample T-2163		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Yellow 10% solids 450 mrad/hr		
Chemical Analysis		
OH	1.34	<u>M</u>
Al	1.02	<u>M</u>
NO2	0.7073	<u>M</u>
NO3	6.06	<u>M</u>

Waste Tank 104-SX		
Analysis of Tank Farm Samples		
December 18, 1975		
Received: December 5, 1975		
Sample T - 375		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Dark green 100% Solids 2000 mrad/hr		
Water	38.78	%
pH	13.5	
Sp G	1.490	@63* C
Chemical Analysis		
OH	2.36	<u>M</u>
Al	1.48	%
Na	12.48	<u>M</u>
NO2	2.66	%
NO3	4.54	<u>M</u>
Cl	0.174	<u>M</u>
CO3	0.768	<u>M</u>
Cu	1.22E-04	<u>M</u>
Pb	3.56E-04	<u>M</u>
Radiological Analysis		
Pu	3.03E-04	g/gal
GEA : Cs 134	1.10E+ 04	uCi/gal
GEA : Cs 137	2.17E+ 06	uCi/gal
Sr 89,90	5.18E+ 04	uCi/gal

Waste Tank SX-104		
Evaporator Solids Analysis		
February 2, 1976		
COMPONENT	LAB VALUE	LAB UNIT
Chemical Analysis		
Na AlO ₂	5.2	%
NaNO ₂	17.5	%
NaNO ₃	20.9	%
NaOH	5.1	%
Na ₂ CO ₃	24.2	%

WASTE TANK SX-104		
Analyses of Liquor for Cross-country Transfer		
March 15, 1976		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Density	1.490	g/cc
H ₂ O	38.8	%
Chemical Analysis		
NaAlO ₂	1.48	M
NaNO ₂	2.66	M
NaNO ₃	4.54	M
NaOH	2.36	M
Na ₂ CO ₃	0.768	M
Radiological Analysis		
¹³⁷ Cs	5.73E+ 05	uCi/l
89+ 90 Sr	1.37E+ 04	uCi/L

Waste Tank 104-SX		
Analysis of Tank 104-SX Salts		
March-April 1977		
Received: February 14, 1977		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The sample was dark gray to tannish gray in color, having large crystals intermixed throughout the sample		
Bulk Density	1.39	g/cc
Particle Density	1.89	g/cc
H2O	11.4	%
Chemical Analysis		
Al	3.2	%
CO3	3.0	%
NO2	2.5	%
NO3	50.0	%
F	0.1	%
Si	0.4	%
PO4	0.6	%
SO4	1.5	%
OH	2.0	%
Cr	0.3	%
Cl	0.1	%
F	< 0.01	%
Na	26.0	%
Ca	0.03	%
Hg	0.01	%
Material Balance	102.0	%
Radiological Analysis		
U	2.68E-05	g/g
Pu	4.70E-06	g/g
89+ 90 Sr	47.0	uCi/g
137 Cs	97.0	uCi/g

Waste Tank 104-SX			
Request for Tank 104-SX Interstitial Liquid Harardous Waste Designation			
June 16, 1988			
COMPOUND	WEIGHT %	E C	TOX CAT
Chemical Analysis			
NaNO3	3.7E+ 01	3.7E-03	D (figured on NO3)
NaNO2	1.1E+ 01	1.1E-01	B (figured on NO2)
NaCl	9.7E-01	9.7E-05	D
NaAlO2	8.7E+ 00	8.7E-04	D
Na2B4O7* 10H2O	1.4E-01	1.4E-05	D
Ca(OH)2	9.2E-03	9.2E-07	D
CrCl2	3.0E-02	3.0E-05	C
MgCl2	2.0E-02	2.0E-06	D
FeCl3* 6H2O	1.9E-02	1.9E-05	C
KOH	3.0E-01	3.0E-04	C
NaOH	5.6E+ 01	5.6E-02	C (Figured on OH)
	SUM of EC	1.7E-01 (EHW)	
EHW - Extremely Hazardous Waste			
EC - Equivalent Concentrations			
DW - Dangerous Waste			

Waste Tank 104-SX		
Composition of 241-SX-104		
July 7, 1988		
Sample: Received May 14, 1988		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
pH	13	
Density	1.5	g/cc
Water	55	%
TOC (1)	5	g/l
Chemical Analysis		
OH	2 + /- 20%	M
NO3	6.6 + /- 20%	M
NO2	2.5	M
CO3	0.22	M
SO4	< 0.03	M
PO4	0.1 + /- 20%	M
F	< 0.1	M
Cl	0.25	M
Al	1.6	M
B	0.006	M
Ca	0.002	M
Cr	0.003	M
Mg	0.0003	M
Fe	< 0.001	M
P	0.15	M
K	0.08	M
Na	15.5	M
Other Metals (2)		
Radiological Analysis		
Alpha Total (3)	< 5	uCi/l
Total Beta	2.E+ 05 + /- 30%	uCi/l
Am	Incomplete	
Pu (in solution)	< .3	uCi/l
Pu (in total slurry)	0.7 + /- 20%	uCi/l
Cs 137	4.50E+ 05	uCi/l
Sr 90	3.E+ 02 + /- 20%	uCi/l
All values are + /- 10% unless otherwise noted		
(1) One higher TOC value obtained (13.3 g/L), value under investigation.		
(2) Other elements (La, Sn, Nd, Ba, Zn, Pd, Ni, Ag, Li, Zr, Ce, Pb, Si, Mo, Co, Ti, Mn, Sr, Ta, Bi, and Cd) were less than the limit of quantitation.		
(3) Alpha total values were near background, values are only approximate.		

Waste Tank 104-SX			
Direct Analysis of 241-SX-104			
July 7, 1988			
COMPONENT	TOP SAMPLE	BOTTOM SAMPLE	LAB UNIT
Physical Data			
pH	13.13	13.24	
Density	1.414	1.40	g/cc
Water	50.8	61.9	%
TOC	3.23	1.44	g/l
Chemical Analysis			
Al	1.33	1.76	M
NO ₂	2.44	2.09	M
NO ₃	1.07	1.18	M
OH	4.02	3.69	M
AT	interference	interference	
TB	0.591	0.175	Ci/l
Radiological Analysis			
Cs-137	0.198	0.116	Ci/l
Sr-90	0.0000477	0.000026	Ci/l
Pu	0.000636	0.00068	g/l
Am	< 2.98	< 2.79	uCi/l

Waste Tank 105-SX		
Characterization of 105-SX Sludge Sample (Top Layer)		
October 4, 1974		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The top layer was dark gray in color		
H ₂ O	15.6	%
Wet Density	1.77	-
Dry Density	1.5	-
Chemical Analysis		
Al	14.34	mol/l
Al	21.9	%
Fe	0.103	mol/l
Fe	0.3	%
Pu	1.50E-05	g/l
Radiological Analysis		
89+ 90 Sr	2.84E+ 04	uCi/l
137 Cs	6.06E+ 03	uCi/l

Waste Tank SX-105		
Analysis of Bottom Layer		
October 4, 1974		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The bottoms layer was hard with large chunks throughout and was dark brown in color, representing about 85 volume percent of total sample received		
H ₂ O	17.8	%
Wet Density	1.71	-
Dry Density	1.41	-
Chemical Analysis		
Al	13.59	mol/l
Al	21.5	%
Fe	0.56	mol/l
Fe	1.8	%
Pu	4.24E-05	g/l
Radiological Analysis		
89+ 90Sr	1.14E+ 05	uCi/l
137Cs	1.02E+ 04	uCi/l

Waste Tank 105-SX		
Analysis of a Tank Farm Sample		
November 19, 1974		
Sample T-7327		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Clear, Yellow, No solids, 500 mRad/Hr		
pH	> 13.2	
SpG	1.3444	
H2O	63.19	%
Chemical Analysis		
OH	1.44	M
Al	0.597	M
Na	7.22	M
NO2	0.443	M
NO3	3.71	M
PO4	2.11E-03	M
F	3.68E-02	M
CO3	0.275	M
Pu	1.69E-05	gm/gal
Radiological Analysis		
GEA: 134 Cs	6.43E+ 03	uCi/l
GEA: 137 Cs	7.42E+ 05	uCi/l

Waste Tank 105-SX		
Analysis of Tank Farm Sample		
December 18, 1975		
Received: December 12, 1975		
Sample T-377		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Green, 100% Solids, 2500 mRad/ hr.		
pH	13.8	
SpG	1.5 @62* C	
Water	38.98	%
Chemical Analysis		
OH	2.32	M
Al	1.41	M
Na	12.52	M
NO2	2.78	M
NO3	5.08	M
Cl	0.167	M
CO3	0.788	M
Pb	3.36E-04	M
Cu	1.07E-04	M
Pu	4.16E-04	g/gal
Radiological Analysis		
GEA: 134 Cs	9.81E+ 03	uCi/gal
GEA: 137 Cs	2.08E+ 06	uCi/gal
89.90 Sr	5.41E+ 04	uCi/l

Waste Tank 105-SX		
Analysis of Salt Solids		
March 29, 1977		
Received: February 1, 1977		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The solids were coarse granular crystals, intermixed with larger lumps, grayish in color, and about 95 percent water soluble		
H ₂ O	13	%
Bulk Density	1.06	g/cc
Particle Density	2.16	g/cc
Material Balance	113.0	%
Chemical Analysis		
Al	3	%
NO ₂	0.40	%
NO ₃	66	%
CO ₃	3	%
OH	0.50	%
F	0.002	%
Cl	0.2	%
Na	24	%
PO ₄	< 1	%
SO ₄	2.5	%
Fe	0.03	%
Cr	0.2	%
Mg	< 0.001	%
Mn	< 0.01	%
Si	0.02	%
Radiological Analysis		
U	9.40E-03	q/l
Pu	2.41 E-07	uCi/q
Sr-89/90	32	uCi/q
Cs-137	227	uCi/q
Rh-106	3.5	uCi/q
Sb-125	0.24	uCi/q
Eu-155	0.6	uCi/q

Waste Tank 106 - SX		
Analysis of Tank Farm Samples		
December 6, 1974		
Sample T-8041		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis - OTR: Clear light yellow. No Solids. 15 mRad/hr		
pH	11.3	
SpG	1.004	
Water	99.63	%
Chemical Analysis		
OH	2.64E-02	M
Al	1.72E-03	M
Na	5.08E-02	M
NO2	2.68E-03	M
NO3	2.17E-02	M
SO4	1.15E-03	M
PO4	< 5.27E-05	M
F	1.84E-04	M
CO3	9.00E-02	M
Pu	< 5.34E-06	gm/gal
Radiological Analysis		
GEA 134 Cs	< 4.09E+ 03	uCi/gal
GEA 137 Cs	1.20E+ 05	uCi/gal
GEA 60 Co	2.33E+ 03	uCi/gal
GEA 125 Sb	3.07E+ 04	uCi/gal
GEA 154 Eu	1.16E+ 04	uCi/gal
89,90 Sr	1.03E+ 02	uCi/gal

Waste Tank 106 - SX				
Evaporation of Synthetic 106-SX Solution				
February 25, 1977				
	FULL LEVEL		SYNTHETIC	
COMPONENT	LAB VALUE	LAB PERCENTAGE	LAB VALUE	LAB PERCENTAGE
Physical Data				
Density	1.458		1.466	
Chemical Analysis				
H ₂ O		45.8%		42.8%
NaAlO ₂	0.704 M	4.0%	0.66 M	3.7%
NaOH	0.62 M	1.7%	0.85 M	2.3%
NaNO ₂	1.60 M	7.6%	0.09 M	0.4%
NaNO ₃	4.46 M	26.0%	4.14 M	24.0%
Na ₂ CO ₃	0.484 M	3.5%	0.484 M	2.5%
Organic C 9.66 M	9.66 M			
HEDTA	0.644 M (1)	15.2%	0.544 M (2)	12.8
EDTA	0.322 M (1)	8.4%	0.272 M (2)	7.1
TOTAL		112.2%		96.6%
Radiological Analysis				
Pu	4.92E-04		g/l	
89+ 90 Sr	1.45E+ 05		uCi/l	
137 Cs	3.98E+ 05		uCi/l	
154 Eu	9.64E+ 03		uCi/l	
1) Calculated from carbon analysis				
2) Make up value				

Waste Tank 106 - SX		
Analysis of Filtered 106-SX Supernatant		
March 31, 1977		
Received: February 28, 1977		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The sample consistency was like a thin mud pie, being dark brown in color		
Density	1.45	g/cc
H2O	46.0	%
Chemical Analysis		
Al	0.32	M
Al	2.0	%
Fe	0.02	M
Fe	0.1	%
CO3	0.69	M
CO3	5.0	%
NO2	< 0.02	M
NO2	< 1.0	%
NO3	2.94	M
NO3	17	%
OH	0.44	M
OH	1.2	%
Si	0.002	M
Si	0.002	%
Na	10.0	M
Na	16.0	%
Mg	0.0002	M
Mg	0.0004	%
Mn	0.005	M
Mn	0.02	%
PO4	0.04	M
PO4	0.4	%
SO4	< 0.003	M
SO4	< 0.03	%
Total Carbon	6.07	M
Total Carbon	5.0	%
Material Balance	93.00	%
Radiological Analysis		
Pu	6.68E-05	g/l
89+ 90 Sr	1.51E+ 05	uCi/l
137 Cs	4.95E+ 05	uCi/l
134 Cs	1.42E+ 03	uCi/l
106 Rh	6.61E+ 03	uCi/l
60 Co	3.45E+ 03	uCi/l
144 Cd	8.46E+ 03	uCi/l
155 Eu	1.22E+ 04	uCi/l

Waste Tank 106 - SX		
Analysis of Filtered Solids from Tank 106-SX		
March 31, 1977		
Received: February 28, 1977		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Bulk Density	1.60	g/cc
Particle Density	2.36	g/cc
H2O	39.0	%
Chemical Analysis		
Al	1.3	M
Fe	0.3	M
Na	15	M
NO3	2.30	M
Cr	0.1	M
Mg	0.02	M
Mn	0.07	M
Si	0.5	M
PO4	0.05	M
SO4	0.5	M
Ni	0.8	M
Total Carbon	7.5	M
Radiological Analysis		
U	3.44E-04	g/l
Pu	8.53E-04	g/l
89+ 90 Sr	4.24E+ 05	uCi/l
137 Cs	5.55E+ 05	uCi/l
144 Ce	7.89E+ 04	uCi/l
155 Eu	6.30E+ 04	uCi/l

Waste Tank 106 - SX		
Analysis of 106-SX Centrifuged Sludge Solids		
March 31, 1977		
Received: February 28, 1977		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
There are two solids associated with the sample. One is very fine particles which cannot be removed by centrifugation. The other solids are larger particles which can be removed by centrifugation		
Bulk Density	1.58	g/cc
Particle Density	2.49	g/cc
H2O	37.0	%
Chemical Analysis		
Al	1.4	moles/l
Fe	0.9	moles/l
Na	14.0	moles/l
NO3	3.6	moles/l
Cr	0.3	moles/l
Mg	0.03	moles/l
Mn	0.05	moles/l
Si	3.5	moles/l
PO4	0.10	moles/l
SO4	0.9	moles/l
Ca	0.04	moles/l
Ni	1.1	moles/l
Radiological Analysis		
U	1.94E-03	q/l
Pu	5.53E-04	q/l
89+ 90 Sr	3.17E+ 05	uCi/l
137 Cs	4.14E+ 05	uCi/l
144 Ce	8.68E+ 04	uCi/l
155 Eu	4.56E+ 04	uCi/l

Waste Tank 106 - SX		
Analysis of Supernatant Tank 106-SX		
June 29, 1978		
Received: April 18, 1978		
Sample # 8301		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The sample was reddish brown in color. The sample contained 42 percent by volume supernatant		
Density	1.37	g/cc
H ₂ O	46.1	%
Chemical Analysis		
NaAlO ₂	0.57	M
NaAlO ₂	3.4	%
Na ₂ CO ₃	0.53	M
Na ₂ CO ₃	4.3	%
NaOH	3.1	M
NaOH	9.1	%
NaNO ₂	1.51	M
NaNO ₂	7.6	%
NaNO ₃	IS	M
Na ₂ SO ₄	IS	M
Na ₃ PO ₄	IS	M
Ca	2.82E-02	M
Ca	0.08	%
Cd	8.19E-04	M
Cd	0.007	%
Hg	1.15E-02	M
Hg	0.02	%
FeOOH	5.18E-03	M
FeOOH	0.03	%
SiO ₃	2.06E-03	M
SiO ₃	0.01	%
K	4.67E-02	M
K	0.1	%
Mn	4.92E-04	M
Mn	0.002	%
TOC	6.8	M
Radiological Analysis		
Pu	IS	
89+ 90 Sr	1.05E+ 05	uCi/l
137 Cs	3.80E+ 05	uCi/l
134 Cs	8.32E+ 02	uCi/l
60 Co	2.03E+ 03	uCi/l
154 Eu	1.97E+ 03	uCi/l
155 Eu	4.46E+ 03	uCi/l
IS = Insufficient Sample		

Waste Tank 106 - SX		
Analysis of 106-SX Tank Solids		
June 29, 1978		
Date Received: April 18, 1978		
Sample # 8301		
COMPONENT	WATER SOLUBLE	KOH FUSION
Physical Data		
The sample was reddish in color. The sample contained 58 percent by volume of solids		
Bulk Density	1.33	g/cc
% Water	40.1	
Chemical Analysis		
Al	0.6%	0.9%
CO3	5.5%	
OH	4.2%	
Na	21.4%	
NO2	2.8%	
NO3	11.5%	< 0.1%
Mn	0.006%	
SO4	0.4%	
PO4	6.2%	1.10%
Fe	0.005%	0.60%
CrO4	0.08%	
SiO2	0.02%	2.70%
Hg	0.7%	
F	< 1.0%	0.01%
Cl	0.3%	
Bi	0.005%	
Pb	0.01%	
Cd	0.004%	
K	0.07%	
Radiological Analysis		
U	6.18E-05	g/g
239 Pu	1.88E-07 g/g	3.29E-06 g/g
241 Am		1.65E-07 g/g
89+ 90 Sr	38.5 uCi/g	1.17E+ 02 uCi/g
137 Cs	1.62E+ 02 uCi/g	18.6 uCi/g
134 Cs	0.350 uCi/g	
60 Co	0.934 uCi/g	
125 Sb		8.3 uCi/g
144 Ce		7.2 uCi/g
154 Eu	1.06 uCi/g	5.5 uCi/g
155 Eu	2.68 uCi/g	14.2 uCi/g

Waste Tank 106 - SX		
Concentration of Tank 106-SX Customer Waste		
December 22, 1978		
Received: November 13, 1978		
Sample #: 5268		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Clear, light green, liquid resembling colored water		
Chemical Analysis		
OH-	0.038	<u>M</u>
Al	0.067	<u>M</u>
Na+	0.854	<u>M</u>
CO3(2-)	0.041	<u>M</u>
SO4(2-)	0.068	<u>M</u>
NO2-	0.222	<u>M</u>
NO3-	0.212	<u>M</u>
PO4(3-)	0.099	<u>M</u>
TOC*	1.200	g/l
Radiological Analysis		
137 Cs	2.91E+ 04	uCi/l
* Total Organic Carbon		

Waste Tank SX-106		
Averaged Composition of Tank 106-SX Samples		
November 1, 1979		
T-4379, T-4380, T-4381		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Sp.G	1.11	g/cmE+ 3
H2O	84.73	
Chemical Analysis		
NaAlO2	0.189	M
NaOH	0.183	M
NaNO2	0.404	M
NaNO3	0.716	M
Na3PO4	0.088	M
Na2CO3	0.25	M

Waste Tank 107-SX		
Analysis of 107-SX Salt		
March 16, 1977		
Received: January 29, 1977		
Sample Number: 1345		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
The sample was extremely hard with coarse granular crystals, brown to whitish-gray in color and about 60 percent water soluble.		
Bulk Density	1.33	g/cc
Particle Density	2.41	g/cc
H2O	10	%
Chemical Analysis		
Al	9.4	%
CO3	0.6	%
OH	6.8	%
NO3	32	%
Cl	0.006	%
Na	24.6	%
F	0.04	%
Si	0.6	%
Cr	2.8	%
NO2	2	%
Fe	5.4	%
Hg	0.02	%
PO4	0.04	%
SO4	< 0.8	%
Material Balance	95.0	%
Radiological Analysis		
Pu	1.67E-05	uCi/g
U	0.218	g/g
89+ 90 Sr	2.93E+ 06	uCi/l
137 Cs	1.30E+ 05	uCi/l
125 Sb	7.84E+ 04	uCi/l
60 Co	4.75E+ 03	uCi/l
144 Ce	6.04E+ 04	uCi/l
154 Eu	1.22E+ 04	uCi/l
155 Eu	3.61E+ 04	uCi/l

Waste Tank SX-108		
Analyses of SX-108 Supernatant		
April 1961		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Specific Gravity	1.712	
Chemical Analysis		
Free NaOH	61	g/l
NO ₃ -	505	g/l
NO ₂ -	20.6	g/l
Cl-	9	g/l
SO ₄ (2-)	1.1	g/l
R(3+)	46	g/l
Na+	242	g/l
Radiological Analysis		
Gross Beta	3.30E+ 06	uCi/gal
Gross Gamma	3.60E+ 06	uCi/gal
Gamma Scan	Cs-137:3.5E+06uCi/gal others not detectable	uCi/gal
Sr-90	6.80E+ 04	uCi/gal
Np-237	< 1.5E+ 04	uCi/gal

Waste Tank 108-SX		
Analysis of Waste Tank 108 - SX Tank (12/15/65)		
June 13, 1966		
COMPONENT	LAB VALUE	LAB UNITS
Radiological Analysis		
Zr/Nb 95	0.45	Ci/gal
Cs 137	7.22	Ci/gal
Cs 134	0.49	Ci/gal
Ru 106	12.5	Ci/gal
Ce 144 - Pr 144	9.04	Ci/gal

Waste Tank 111-SX		
Analysis of Tank Farm Samples		
September 16, 1974		
Sample T-4283		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Yellow, no solids. 180 mrad/hr		
pH	> 13.2	
SpG	1.4836	
Water	52.06	%
Chemical Analysis		
OH	1.47	<u>M</u>
Al	0.805	<u>M</u>
Na	8.05	<u>M</u>
NO ₂	0.836	<u>M</u>
NO ₃	4.72	<u>M</u>
SO ₄	6.01E-02	<u>M</u>
PO ₄	5.74E-03	<u>M</u>
F	1.40E-02	<u>M</u>
CO ₃	0.168	<u>M</u>
Radiological Analysis		
Pu	< 3.91E-6	g/l
GEA 134 Cs	5.83E+ 03	uCi/gal
GEA 137 Cs	1.20E+ 06	uCi/gal
89+ 90 Sr	1.33E+ 02	uCi/gal

Waste Tank 111-SX		
Analysis of 111-SX Sludge (As received)		
September 12, 1975		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Bulk Density	1.45	
Particle Density	1.82	
H ₂ O	33.8	%
Chemical Analysis		
Al	8.4	moles/l
Fe	0.4	moles/l
Ca	0.1	moles/l
Mn	0.05	moles/l
Mg	0.03	moles/l
NO ₂	< 1.7	moles/l
NO ₃	21.8	moles/l
Si	0.01	moles/l
PO	13.4	moles/l
Radiological Analysis		
Pu	1.31E-03	g/l
89+ 90 Sr	3.38E+ 06	uCi/l
137 Cs	2.15E+ 05	uCi/l

Waste Tank 111-SX		
Analysis of 111-SX Supernatant Liquid		
September 12, 1975		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Density	1.21	g/cc
H ₂ O	71.3	%
Chemical Analysis		
NaAlO ₂	0.2	<u>M</u>
NaAlO ₃	1.4	%
NaNO ₂	0.3	<u>M</u>
NaNO ₂	1.7	%
NaNO ₃	2.7	<u>M</u>
NaNO ₃	19	%
NaOH	0.70	<u>M</u>
NaOH	2.30	%
Na ₂ CO ₃	0.14	<u>M</u>
Na ₂ CO ₃	1.2	%
Na ₃ PO ₄	5.53E-03	<u>M</u>
Si	1.51E-03	<u>M</u>
Fe	< 6.34E-05	<u>M</u>
Radiological Analysis		
Pu	< 1.17E-06	g/l
89+ 90 Sr	80.3	uCi/l
137 Cs	1.59E+ 05	uCi/l
134 Cs	5.92E+ 02	uCi/l

Waste Tank SX-114		
Sludge Waste pumped from SX-114		
December 3, 1962		
COMPONENT	LAB VALUE	LAB UNIT
Chemical Analysis		
NaNO ₃	4.2	M
NaNO ₂	0.1	M
NaOH	0.4	M
NaAlO ₂	0.4	M
Radiological Analysis		
Gamma (> 99% Cs-137)	0.52	Ci/gal
Pu	< 5E-07	g/gal
U	< 2.3E-03	g/gal
Np	< 3E-05	g/gal

WASTE TANK SX-115		
Analysis of Waste from 115-SX Tank		
June 13, 1966		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Specific Gravity	1.28	
Chemical Analysis		
NaOH	0.5	M
Cr (6+)	1.4	g/l
Radiological Analysis		
¹³⁷ Cs	7.63E-01	Ci/gal
¹³⁴ Cs	9.20E-03	Ci/gal
Total alpha result low, isotope analysis unnecessary		

Waste Tank 115-SX		
Analysis of 115-SX Tank "As Received"		
April 22, 1975		
Received: March 10, 1975		
COMPONENT	LAB VALUE	LAB UNIT
Physical Data		
Vis-OTR: Dark Brown in color and quite dry		
As Received Density	0.55	
Particle Density	2.48	
H2O	4.4	%
Chemical Analysis		
Al	3.15	moles/l
Fe	1.64	moles/l
Mg	< 0.2	moles/l
Mn	0.40	moles/l
Ca	0.34	moles/l
NO2	0.08	moles/l
PO4	< 0.19	moles/l
Si	0.6	moles/l
Na	1.92	moles/l
Radiological Analysis		
Pu	0.196	grams/l
89+ 90 Sr	4.97E+ 07	uCi/l
137 Cs	7.05E+ 04	uCi/l
134 Cs	4.11E+ 04	uCi/l
60 Co	3.19E+ 04	uCi/l
125 Sb	4.22E+ 05	uCi/l
154 Eu	9.25E+ 04	uCi/l

Date: November 13, 1974

To: W. R. Christensen

From: *J. S. Buckingham*
J. S. Buckingham

Subject: ANALYSIS OF SALT SAMPLE FROM
TANK 101-SX

A sample of salt from Waste Tank 101-SX has been analyzed. The results are shown below. Tank 101-SX received bottoms (concentrates) from the Redox evaporator. The Redox evaporator operates near atmospheric pressure and was last used to concentrate miscellaneous customer wastes. The Redox evaporator is now shut down.

TABLE I

Analysis of 101-SX Salt

Bulk density	1.65 g/cc
Particle density	2.13 g/cc
H ₂ O	3.2%
NaAlO ₂	1.1%
NaNO ₂	0.5%
NaNO ₃	87.9%
NaOH	0.7%
Na ₃ PO ₄	<0.1%
Na ₂ CO ₃	3.6%
TOTAL	97.0%
89+90Sr	0.226 µc/g
137Cs	24.8 µc/g
239Pu	<8 x 10 ⁻⁹ g/g

Sulfate analysis has been requested but not yet run.

W. R. Christensen
Page 2
November 13, 1974

The hygroscopicity of the salt was tested by placing the salt in an 80 percent relative humidity chamber at 23° C. The sample deliquesced in 19 days after gaining 9 percent water.

Please call me if you have any questions regarding this work.

JSB:ms

cc: H Babad
NL Harms
MJ Kupfer
WP Metz
WE Ogren
DA Puryear
NC Rodewald
VL Schuelein
WW Schulz
- CTL File-104
CTL File-122
File
LB
Process Aids-7

(SX 101.2)

Date: November 20, 1974

To: R. L. Walser

From: R. E. Wheeler *R. E. Wheeler*Subject: ANALYSIS OF TANK FARM SAMPLES
SAMPLE: T-6496 101-SX *x*

Vis-CTR: Clear, yellow. No solids. 1 Bad

pH: 12.5

SpG: 1.328

OH: 0.934 MAl: 1.46 MNa: 5.62 MNO₂: 0.379 MNO₃: 3.06 MPu: 9.31×10^{-6} gm/gal

DTA: No exotherm

SO₄: Deleted by R. L. WalserPO₄: 2.66×10^{-3} MF: 8.15×10^{-3} MCO₃: 0.212 MGRA: ¹³⁷Cs = 9.03×10^5 pCi/gal

Water: 64.04%

Cooling Curve: 25°C for 15 min. No solids.

20°C for 60 min. No solids.

15°C for 15 min. No solids.

10°C for 15 min. No solids.

5°C for 15 min. No solids.

REMARKS

cc: TO Buckingham
TO Richland
TO Linnet
TO Wheeler
TO Walker

80

December 4, 1978

60120-78-126 J

J. E. Mirabella
Process Engineering
2750-E/A 103, 200 East

J. E. Horton
Chemical Sciences Group
222-S, 200 West
2-2529

Analysis of Tank 101SX

Sample 101SX was grayish-white in color. The salts were granular in appearance. Analytical data is reported in Tables I and II.

If you have questions regarding this work please call me.

J. E. Horton for
J. E. Horton, Specialist
Waste Chemistry Unit

JEH/jkl

Information: ~~J. S. Buckingham~~
G. T. Dukelow
F. M. Jungfleisch JSB li✓

Table I

ANALYSIS OF 101SX Tank Solids
Sample # 4523

5X 101.3

Components	Water Soluble	Acid (Fusion)
Al*	1.0 %	0.2 %
Bi ³⁺	<0.02%	<0.04%
CO ₃ ²⁻	1.2 %	
CrO ₄ ⁻	0.5 %	
Cl ⁻	0.02%	
F ⁻	0.03%	
Fe*	0.002%	
Hg*	NR	
K ⁺	NR	
La ³⁺	0.07%	
Mn*	NR	
Ni ²⁺	0.002%	
NO ₂ ⁻	6.1 %	
NO ₃ ⁻	47.0 %	0.2 %
Na ⁺	28.3 %	
OH ⁻	1.6 %	
PO ₄ ³⁻	0.6 %	0.1 %
SO ₄ ²⁻	<0.07%	<0.3 %
SiO ₂ ²⁻	0.07%	0.4 %
U*	1.06×10^{-7} g/g	2.20×10^{-5} g/g
Pu*	5.89×10^{-11} g/g	8.97×10^{-3} g/g
Am*	NR	
89+90Sr ²⁺	0.18 uci/g	23.4 uci/g
137Cs ⁺	135.6 uci/g	9.0 uci/g
155Eu*	NR	0.225 uci/g

Water Solubility 80.0 %
 Bulk Density 1.52 g/cc
 Percent Water 12.0

*All oxidation states
 NR -- Analysis not requested

82 ✓

SX 101.4

Table II

ANALYSIS OF 101 SX SUPERNATANT LIQUID.
Sample #4523

<u>Components</u>	<u>Water Soluble</u>	<u>Acid (Fusion)</u>
NaAlO ₂	1.95 <u>M</u>	8.2%
NaNO ₂	2.45 <u>M</u>	8.7%
NaNO ₃	1.82 <u>M</u>	7.9%
Na ₃ PO ₄	0.046 <u>M</u>	0.4%
Na ₂ SO ₄		
FeOOH	0.0004 <u>M</u>	0.003%
SiO ₂	0.018 <u>M</u>	0.06%
Mn	<1.99 ⁻⁴ <u>M</u>	<0.0005%
Mg	<1.31 ⁻⁴ <u>M</u>	<0.0002%
Pu	2.14 ⁻⁷ g/l	
89+90Sr	5.17x10 ⁻² uci/l	
137Cs	6.68x10 ⁵ uci/l	
NaOH	?	
Density	1.76 g/cc	
Percent Water	58.0	

February 7, 1979

00120-79-015 J

KFS
 T. B. Veneziano
 Tank Farm Process Engineering
 2750-E, 200 East
 2-7811

T. A. Lane
 Chemical Sciences Group
 222-S, 200 West
 2-1571

Transfer of 101-SX to 101-TX

Tank Farm Process Engineering (TFPE) wants to transfer the material in Tank 101-SX to Tank 101-TX. To determine if such a transfer would be feasible, a sample was taken, analyzed and a viscosity versus temperature was determined for two dilutions. The extent of dilution required is dependent on the solution temperature during the transfer. At 10° C (50° F) or higher, a 10 percent dilution is sufficient. Below 10° C, a 20 percent dilution is recommended. Experimental details are discussed below.

A sample (E-00162) was received. This sample was dark green in appearance and had about 30 volume percent solids at room temperature. The sample was placed in a water bath and warmed at 65° C (149° F). After two hours at 65° C, approximately 10 volume percent of the sample was still solids. These solids were easily suspended and slow to settle. Aliquots of the warmed, stirred solution were taken for analysis and dilution. See Table I for the analysis. Two dilutions were made, one to 10 percent and one to 20 percent. A 10 percent dilution is equivalent to taking 90 ml of sample and adding 10 ml of water for a total of 100 ml of solution. Both dilutions were clear green solutions at 65° C. The relationship of the sample and dilutions to the phase boundaries is shown in Figure 1. To do the viscosity versus temperature runs, a small amount (2 ml) of a diluted sample was placed in the plate and cone viscometer. See figure 2 for these plots. Although solids were noted at room temperature, they were less than 10 volume percent for both dilutions. Both the dilutions had viscosities less than 100 cps at -4° (25° F), however, they had gelled at that point. If the solution can be maintained at 10° C or higher with continuous flow, then a 10 percent dilution is sufficient. However, if the solution cannot be maintained at 10° C, or if interrupted pumping is expected, a 20 percent dilution is recommended.

Thomas A. Lane

T. A. Lane, Advanced Chemist
 Waste Chemistry Unit

TAL:jkr

Information:	G. E. Brown	D. L. Merrick
	J. S. Buckingham	G. A. Olsen
	K. G. Carothers	M. J. Smith
	G. T. Dukelow	D. J. Washenfelder
	S. C. Estrada	R. A. Zinsli
	F. M. Jungfleisch	Process Aids

Table I

CHEMICAL ANALYSIS 101-SX

Al^{+3}	1.40 <u>M</u>
OH^-	5.20 <u>M</u>
NO_2^-	2.46 <u>M</u>
NO_3^-	3.44 <u>M</u>
CO_3^{-2}	0.140 <u>M</u>
PO_4^{-3}	0.094 <u>M</u>
SO_4^{-2}	<0.006 <u>M</u>
TOC	3.12 g/l
^{137}Cs	$6.14 \cdot 10^5 \mu Ci/l$

TCRC-10
Internal Letter

WHC-SD-WM-ER-324, Rev. 0

Date: July 14, 1980

TO: Name, Organization, Internal Address
D. E. Bowers
Plant Engineering
2750E/A100

FROM: Name, Organization, Internal Address, Phone
M. T. Jansky
Separations Process Development Unit
222-S/MC-037/200 West
3-1571

Subject: 101SX Solids in T-1013

Solids present in Tank 101-SX may cause problems during transfer of the waste by fouling the pumps. Plant Engineering had verbally contacted SPDU for characterization of the solids. No indication as to time frame was given, nor was any "rush" put on the sample. However, a change in priorities placed an unreal time restraint on SPDU. Data normally gathered over 3-4 days was requested on a "2-hour" rush basis. Every effort was extended by SPDU and Analytical Laboratories to provide the requested data. The solids were characterized as primarily $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$ and $\text{Cr}_2\text{O}_3 \cdot x\text{H}_2\text{O}$. This letter discussed the data.

Sample #T-1013, as received by Analytical Laboratories, contained ~70% brown, non-crystalline solids. Some supernatant was decanted and analyzed. The supernatant analyses are shown in Table I. Viscosity versus temperature data were obtained by SPDU using the Brookfield LVT cup and cone microviscometer. The viscosity/temperature data are shown in Table II. Note that the 12 RPM and lower shear rates yielded unreal and inconsistent results. Normally, when crystalline solids are present, the viscometer "hangs up". However, the apparently non-crystalline nature of the solids caused the viscometer to behave in an apparently normal but inconstant fashion.

X-ray analysis showed the solids to be primarily iron and chromium non-crystalline compounds. The solids were soluble in acid, very slightly soluble in NH_4OH and insoluble in acetone or ethanol. These solubilities are characteristic of hydrated iron and chromium oxides, $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$ and $\text{Cr}_2\text{O}_3 \cdot x\text{H}_2\text{O}$. Some nickel was present in the solids as well, indicating the source of the solids may be corrosion products.

M. T. Jansky
Advanced Chemist

MTG/naf

Attachments

Distribution:

L. C. Brown
J. S. Buckingham JSB
T. A. Lane
W. E. Ogren
D. A. Reynolds
M. Teats
Process Aids: (3)
File Code: KF55E
Letterbook

TABLE

WHC-SD-WM-ER-324, Rev. 0

SX101.6

Tank 101SX Analyses of Sample #T-1013 Supernatant

<u>Component</u>	<u>Concentration (moles/Liter)</u>
Al	0.0756
OH	0.253
NO ₂	0.171
NO ₃	1.115
CO ₃	0.054
PO ₄	0.0746
Cs ¹³⁷	4.27×10^4 μ Ci/L
Pu	2.55×10^{-6} g/L
H ₂ O	89.79%
Sp.G.	1.060

TABLE 11

Viscosity versus Temperature of Tank 101SX Sample #T-1013

<u>Temperature (°C)</u>	<u>Viscosity (centipoise) vs RPM</u>				
	<u>60</u>	<u>30</u>	<u>12</u>	<u>6</u>	<u>3</u>
7	2.7	2.8	3.5	*	*
15	2.4	2.2	1.2	*	*
20	2.4	2.1	*	*	*
30	1.6	1.3	*	*	*
40	1.5	1.2	*	*	*
50	1.2	1.0	*	*	*

*Non-reproducible measurements

TCRC-11
Internal Letter

WHC-SD-WM-ER-324, Rev. 0

Date: . October 29, 1980

No. . 65453-80-316

TO: (Name, Organization, Internal Address)
. D. E. Bowers
. Plant Engineering
. 2750E/A100/200 East

FROM: (Name, Organization, Internal Address, Phone)
. M. T. Jansky
. Separations Process Development Unit
. 222-S/MO-037/200 West
. 3-1571

Subject: . Viscosity and Analysis of Tank 101SX Waste

The Separations Process Development Unit (SPDU) received two 101SX waste samples. One sample, taken twelve inches below the surface, was a clear solution. The other sample, taken 15.5 feet below the surface, contained less than two volume percent reddish brown solids. Aliquots of each sample were submitted to Analytical Laboratories for analyses. The results are shown in Table I. Viscosity versus temperature data are shown in Table II. The analyses and viscosity data indicate that 101SX waste is a very dilute waste. Temperatures as low as 1.5°C did not cause precipitation of the waste.

Please call if you have any questions regarding this work.

M. T. Jansky
Advanced Chemist

MTJ/naj

Attachments

Distribution:
J. S. Buckingham
H. J. Eding
L. A. Gale
D. L. Herting
T. A. Lane
M. C. Teats
T. B. Veneziano
D. G. Wilkins
File Code: WB612
Process Aids: (2)
Letterbook

TABLE I

Analyses of Tank 101SX Waste

(SX 101.7)

<u>Component</u>	<u>Shallow</u>		<u>Deep</u>	
	<u>Molarity</u>	<u>Wt. %</u>	<u>Molarity</u>	<u>Wt. %</u>
NaAlO ₂	0.0365	0.29	0.0672	0.54
NaOH	0.419	1.64	0.368	1.43
NaNO ₂	0.0883	0.60	0.145	0.97
NaNO ₃	0.199	1.66	0.299	2.47
Na ₂ CO ₃	0.0320	0.33	0.0430	0.44
Na ₃ PO ₄	0.0216	0.35	0.0362	0.58
TOC (g/L)	0.326	0.09	0.484	0.14
⁹⁰ Sr (μCi/L)	1.27x10 ²		2.72x10 ⁴	
GEA (μCi/L ³⁷ Cs)	1.60x10 ⁴		2.57x10 ^{4*}	
Pu (g/L)	1.22x10 ⁻⁶		4.63x10 ⁻⁶	
H ₂ O		96.48		93.84
SpG		1.020		1.028

*Also 10.8 μCi/L ⁶⁰Co

TABL

Viscosity versus Temperature of Tank 101SX Waste

<u>Temperature (°C)</u>	<u>RPM</u>	<u>Viscosity (cp)</u>	
		<u>Shallow</u>	<u>Deep</u>
50	60	1	
	30	1	
40	60	1	1
	30	1	*
30	60	1	1
	30	1	1
20	60	1	1
	30	1	1
10	60	2	1
	30	1	1
3	60	2	
	30	1	
1.5	60		2
	30		1

*Too low to measure

TCRC-12

Westinghouse
Hanford Company

WHC-SD-WM-ER-324, Rev. 0

1101110

From: Process Chemistry Laboratories
Phone: 3-1972 MO-037/200W T6-50
Date: February 22, 1990
Subject: ANALYSIS OF LIQUID SAMPLE FROM TANK 241-SX-101

12712-PCL90-043

To: V. C. Boyles R1-49
cc: D. R. Bratzel T6-50
D. G. Baide R1-51
J. E. Bramson T1-30
K. G. Carothers R1-51
D. E. Deaton R1-49
A. J. DiLiberto R2-12
G. L. Dunford R1-51
R. E. Raymond R1-62
D. E. Scully R1-51
D. D. Wiggins R1-49
RLW File/LB

On April 26, 1989, a sample of supernatant liquid from Tank 241-SX-101 was received for analysis. The sample was identified as R4884. No significant quantities of solids were noted in the sample. A portion of the liquid was removed and submitted to the Analytical Chemistry Services Laboratory for Analysis. The results of the analysis are shown in Table 1.

If you have any additional questions, please contact me.

Richard L. Weiss

R. L. Weiss
Senior Scientist

lal

Attachment

TABLE 1
ANALYSIS OF TANK 241-SX-101 LIQUID

COMPONENT	CONCENTRATION	UNIT
Dionex - anions		
Cl ⁻	0.155	M
F ⁻	.067	M
PO ₄ ⁻⁻⁻	.056	M
SO ₄ ⁻⁻	0.073	M
NO ₃ ⁻	1.45	M
Other anions		
NO ₂ ⁻	0.11	M
OH ⁻	0.16	M
Inductively Coupled Plasma (element)		
Al	0.046	M
B	0.0004	M
Ca	0.0001	M
Cd	.00002	M
Cr	0.0064	M
K	0.0030	M
Na	1.21	M
Ni	.0003	M
P	0.0052	M
Pd	.0003	M
Sn	.0005	M
Other ICP elements	.0002	M
Radionuclides		
Cs ¹³⁷	28500	□Ci/l
Sr ^{89/90}	2.2	□Ci/l
Tc ⁹⁹	14.5	□Ci/l
Pu ^{239/240}	.03	□Ci/l
Am ²⁴¹	.08	□Ci/l
Alpha Total	3.7	□Ci/l
Total Beta	40100	□Ci/l
Other Analysis		
Total Organic Carbon	0.32	g/l
Density	1.11	g/ml
pH	13.1	

TCRL-6^v

Date: October 14, 1974
 To: R. L. Walser
 From: R. E. Wheeler *R. E. Wheeler*
 Subject: ANALYSIS OF TANK FARM SAMPLES
 SAMPLE: T-6736 102-SX

Vis-OTR: Clear, yellow, ~~No~~^{rem} solids. 500 mRad/hr on contact

pH: 13.3

SpG: 1.2239

OH: 0.510 M

Al: 0.220 M

Na: 5.81 M

NO₂: 9.62×10^{-2} M

NO₃: 1.29 M

Pu: 7.12×10^{-6} gm/gal

DTA: No exotherm

SO₄: 7.71×10^{-2} M

PO₄: 2.31×10^{-2} M

F: 3.54×10^{-2} M

CO₃: 0.610 M

GEA: ¹³⁴Cs - 3.87×10^3 μ Ci/gal

Rerun - 4.31×10^3 μ Ci/gal

¹³⁷Cs - 4.62×10^5 μ Ci/gal

Rerun - 4.69×10^5 μ Ci/gal

Water: 73.86%

Cooling Curve: 25°C for 140 min. No solids.
 20°C for 45 min. No solids.
 15°C for 45 min. No solids.
 10°C for 45 min. No solids.
 5°C for 45 min. No solids.

REW:jd

cc: JS Buckingham
 WR Christensen
 RE Wheeler
 JC Womack

TLRC-8 ✓

Date: November 26, 1974

To: W. R. Christensen

From: J. E. Horton *J. E. Horton*

Subject: CHARACTERIZATION OF 102-SX SLUDGE SAMPLE

The 102-SX Tank is being considered for storage of salt slurries from the 242-S Evaporator. Before salt is put into the tank, a sample of sludge from the tank needs to be characterized for heat generation and plutonium content.

The sludge sample from Tank 103-SX was composed of two layers. The top layer represents 25 volume percent of total sample received. The bottom layer represents 75 volume percent of total sample received.

The 102-SX sludge analyses were made by fusing 1.5 milliliters of the top layer with KOH, dissolving the melt with concentrated hydrochloric acid and diluted with H₂O to a volume of 200 milliliters. One milliliter of the bottom layer was fused with KOH, the melt was dissolved with concentrated hydrochloric acid and diluted to a volume of 275 milliliters. Results are shown in Table I and II. The analyses in the tables are reported per liter of damp "as received" sludge.

Please call if you have any question about this work.

JEH:ms

att.

cc: H Babad
JS Buckingham
RG Geier ←
NL Harms
NC Rodewald
DO Schuler

RE Van der Cook
RL Walser
Process Aids (7)
CTL File-111
CTL File-122
LB

SX102.2

TABLE I

ANALYSIS OF TOP LAYER 102-SX SLUDGE

25% by vol.

H ₂ O			28.6%
Wet Density	1.74	moles/l	
Na	9.11	moles/l	
Al	5.77	moles/l	
Fe	0.135	moles/l	
SO ₄	0.037	moles/l	
PO ₄	0.004	moles/l	
Pu	1.95 x 10 ⁻³	g/l	
⁸⁹⁺⁹⁰ Sr	1.37 x 10 ⁵	μc/l	9.31 x 10 ⁻³ watts/l ✓
¹³⁷ Cs	4.52 x 10 ⁵	μc/l	2.16 x 10 ⁻² watts/l ✓

TABLE II

ANALYSIS OF BOTTOM LAYER 102-SX SLUDGE

SX102.3

75% by vol.

H ₂ O			14.3%
Wet Density	1.90		
Na	3.61	moles/l	
Al	5.12	moles/l	
Fe	1.26	moles/l	
SO ₄	0.021	moles/l	
PO ₄	0.015	moles/l	
Pu	7.56 x 10 ⁻⁴	g/l	
⁸⁹⁺⁹⁰ Sr	7.98 x 10 ⁵	μc/l	5.43 x 10 ⁻³ watts/l ✓
¹³⁷ Cs	2.22 x 10 ⁵	μc/l	1.06 x 10 ⁻³ watts/l ✓

TCRC 9410
are the same

Date: May 29, 1975

To: J. C. Womack

From: J. S. Buckingham *J.S. Buckingham*
J. E. Horton *J.E. Horton 1/16*

Subject: ANALYSES OF DIP SAMPLES FROM 241-SX-102

References: (1) Letter, January 31, 1975,
J. S. Buckingham to M. D. Alford,
et al., "Composition of Recycle
Liquors Produced by the 242-S
Evaporator-Crystallizer"

(2) Letter, November 26, 1974,
J. E. Horton to W. R. Christensen,
"Characterization of 102-SX
Sludge Sample"

A layer of floating solid material has been observed in 242-S Evaporator slurry receiving Tank 241-SX-102. The solid has hindered decanting supernatant liquid from the tank via the floating decant line. Dip samples were taken of the material on April 18, 1975 and May 9, 1975. Analyses of the dip samples are reported here.

Solids in the two dip samples were somewhat different in chemical composition. However, we feel the differences were due to sample preparation and analytical techniques and that the two samples were the same.

The first dip sample contained 53 volume percent centrifuged solids and 47 volume percent liquid. The solids were black in color. Most of the solids were smaller than 5 μ m average diameter. About 80 percent of the solids were water soluble. Chemical analysis showed the solids to be a

J. C. Womack
Page 2
May 29, 1975

mixture of sodium nitrate and sodium carbonate with lesser amounts of sodium nitrite, sodium phosphate, sodium hydroxide, and sodium aluminate. In addition, the solids contained small amounts of insoluble metallic hydroxides. The sodium nitrite, sodium aluminate, and sodium hydroxide are thought to be due to entrained mother liquor.

The supernatant liquid mother liquor was yellow in color. Chemical analysis showed it to be a solution of sodium nitrate, sodium nitrite, sodium carbonate, sodium aluminate, and sodium hydroxide. Details of the laboratory work are discussed below.

EXPERIMENTAL

Portions of the "as received" dip samples were centrifuged in a clinical centrifuge at about 1000 x G for 15 to 20 minutes to separate solids and liquids. The April 18 dip sample contained 53 volume percent centrifuged solids. The volume percent solids in the May 9 sample was about the same.

The supernatant liquid was decanted and analyzed. The analysis is shown in Table I.

TABLE I

ANALYSIS OF LIQUID FROM 241-SX-102

Density	1.391 g/cc	58.8%
H ₂ O		6.2%
NaOH	2.17M	6.7%
NaAlO ₂	1.14M	5.5%
NaNO ₂	1.10M	12.8%
NaNO ₃	2.10M	8.3%
Na ₂ CO ₃	1.15M	
¹³⁷ Cs	3.24 x 10 ⁵ μ Ci/l	
¹³⁴ Cs	1.66 x 10 ³ μ Ci/l	

J. C. Womack
Page 3
May 29, 1975

Bulk densities and percent waters were determined on portions of centrifuged solids. Percent water is defined as percent weight loss when the sample is dried to constant weight in a 120° C oven. Other portions of the centrifuged solids were treated with hot water to dissolve water soluble salts. The hot water dissolved 80 volume percent of the centrifuged solid and 78 weight percent. That portion of the April 18 sample that was not soluble in water was fused with KOH, the melt dissolved in HCl, and diluted to a known volume with water.

The analyses of the two samples are shown in Table II. The results are reported both in moles per liter of centrifuged solid and weight percent.

A photomicrograph was made on another portion of the centrifuged solid. The photomicrograph is shown in Figure 1. For comparison, a photomicrograph of the solids formed by evaporating a sample from 241-S-102 40 volume percent is also shown.

When a portion of the solid was allowed to dry by exposing it to room air, the color of the solid changed from black to yellow.

J. C. Womack
Page 4
May 29, 1975

SX 102.4

TABLE II

ANALYSES OF SOLIDS FROM 241-SX-102

<u>Sampled April 18, 1975</u>				<u>Sampled May 9, 1975</u>	
	1.88	g/ml		1.30	g/ml
bulk density			32.3%		50.0%
H ₂ O			5.8%	2.85 mol/l	8.9%
NaOH	2.71	mol/l	3.3%	0.38 mol/l	2.4%
NaAlO ₂	0.75	mol/l	4.3%	0.81 mol/l	4.4%
NaNO ₂	1.18	mol/l	8.5%	1.65 mol/l	10.9%
NaNO ₃	1.88	mol/l	6.5%	1.99 mol/l	16.0%
Na ₂ CO ₃	1.14	mol/l	0.6%	<0.3 mol/l	<3.4%
Na ₃ PO ₄	0.07	mol/l	2.2%	0.31 mol/l	3.5%
Na ₂ SO ₄	0.29	mol/l	<0.4%		
Al ₂ O ₃	<0.1	mol/l	0.2%		
FeOH	0.04	mol/l	0.2%		
MnO ₂	0.04	mol/l	<0.1%		
MgO	<0.01	mol/l	0.2%		
SiO ₂	0.05	mol/l	0.1%		
Ca(OH) ₂	0.01	mol/l	0.1%		
Cr ₂ O ₇	0.01	mol/l			
²³⁹ Pu	2.73 x 10 ⁻³	g/l	1.56 x 10 ⁻⁶	g/g	
⁸⁹⁺⁹⁰ Sr	1.09 x 10 ⁵	μCi/l	58.2	μCi/g	
¹³⁷ Cs	3.43 x 10 ⁴	μCi/l	1.63 x 10 ²	μCi/g	
¹³⁴ Cs	3.11 x 10 ²	μCi/l	0.17	μCi/g	
⁶⁰ Co	6.55 x 10 ²	μCi/l	0.35	μCi/g	
¹²⁵ Sb	2.72 x 10 ³	μCi/l	1.45	μCi/g	
¹⁵⁴ Eu	2.89 x 10 ²	μCi/l	0.15	μCi/g	

TCRL-11

Date: March 18, 1976

To: R. E. Van der Cook

From: *JS Buckingham*
J. S. Buckingham - 2-2487

Subject: ANALYSES OF SALTS FROM TANKS
102-SX AND 103-SX

Samples of salt from Tanks 102-SX and 103-SX have been analyzed. The results are shown in Tables I and II attached. The analyses indicate that both salts are sodium nitrate crystals encased in a film of mother liquor. The 102-SX crystals are smaller than those found in 103-SX. Gamma emitting nuclides were measured on a lithium drifted germanium (GeLi) detector for the 102-SX and on a sodium iodide detector for the 103-SX. The GeLi detector is more sensitive and has better resolution than the sodium iodide detector.

All chemical analyses were done in duplicate by dissolving weighed portions of the salt in water and diluting to a known volume. That portion of solid not soluble in water was dissolved in 6M HCl. Water soluble salts were calculated as sodium salts. Acid soluble salt was calculated as metallic oxides.

Particle size distribution was determined by screening dry portions of the salt after washing the salts with isopropanol. It should be pointed out that many of the screened solids were agglomerations of crystals rather than discrete single crystals.

Please call me if you have any questions regarding this work.

JSB:ms

Att.

cc: H Babad
CH Delegard
DC Lini
WP Metz
WE Ogren
WC Schmidt

WW Schulz
RJ Thompson
Process Aids (7)
File
LB

5X102.5

TABLE I

ANALYSIS OF SALT FROM 102-SX

	Sample 1	Sample 2	Average
Bulk Density, g/cc	1.829		1.829
Particle Density, g/cc	1.715		1.715
H ₂ O, %	13.9		13.9
NaAlO ₂ , %	0.9	1.2	1.1
NaNO ₂ , %	1.6	1.4	1.5
NaNO ₃ , %	87.5	83.4	85.5
NaOH, %	1.0	1.1	1.1
Na ₂ CO ₃ , %	3.5	3.3	3.4
Na ₃ PO ₄ , %	0.5	0.2	0.4
Na ₂ CrO ₄ , %	0.4	0.4	0.4
Al ₂ O ₃ , %	1.0	0.8	0.9
Fe ₂ O ₃ , %	0.2	0.2	0.2
²³⁹ Pu, µg/g	0.63	0.25	0.44
⁸⁹⁺⁹⁰ Sr, µCi/g	21.0	21.3	21.2
¹³⁷ Cs, µCi/g			97.7
¹³⁴ Cs, µCi/g			0.29
¹⁰⁶ Ru, µCi/g			2.0
¹⁵⁴ Eu, µCi/g			0.29
⁶⁰ Co, µCi/g			0.11
>840 µm, %			17
840 to 297 µm, %			10
297 to 149 µm, %			37
<149 µm, %			37

Internal Letter

WHC-SD-WM-ER-324, Rev. 0

Date . December 5, 1977

TO: *Name Designated*
W. R. Christensen

J. L. Starr
Chemical Sciences

2-2529

Subject . 102-SX Analysis

Sample #8992 arrived on August 19, 1977. A portion was dissolved in dilute HCl and analyzed. Although the results are believable, a rerun is desirable. Since there is insufficient sample for such a rerun, I will state that these results are probably accurate to within one order of magnitude. I will be happy to do the rerun in you care to furnish additional sample.

If I may be of further service, please contact me.

J. L. Starr
J. L. Starr
Chemist

JLS:jf

Att.

cc:
J. S. Buckingham
G. W. Grimes
F. M. Jungfleisch
M. J. Smith

Approved by *F. M. Jungfleisch*

5^

Origin 102-SX #8992 JS # 15
 Sample. Vol. 1.3 Dil. Vol. 288
 AL # Cruc
 Requester: W. Christensen
 Comments:

Date Received 8/19/77

Date Dissolved ~~XXXX~~ 9/7/77

D.F.

Sr $1.3^5 \mu\text{Ci/l}$
 U 1.9^{-3} g/l
 Pu 2.3^{-3} g/l
 At NR
 Cs $2.7^5 \mu\text{Ci/l}$
 ^{155}Eu $4.7^3 \mu\text{Ci/l}$

Fe 0.13 M
 Al 0.66 M
 Ni 7.3^{-3} M
 Mn 0.028 M
 Mg 0.027 M
 Cr 0.17 M
 Hg 1.5^{-3} M

Ca <0.029 M
 Cd <3.0 $^{-3}$ M
 Si 0.051 M
 Ba 0.011 M
 Bi NR
 Na NP

NO₃ 1.1MPO₄ 3.7 $^{-3}$ MSO₄ <0.66MNO₂ NR

Internal Letter

TCRL-14 ✓

WHC-SD-WM-ER-324, Rev. 0

Date: September 3, 1980

TO: (Name, Organization, Internal Address)

D. E. Bowers
Pilot Engineer
2750E/200 East

FROM: (Name, Organization, Internal Address, Phone)

M. T. Jansky
Separations Process Development Unit
222-S/MO-037/200 West
3-1571

Subject: Identification of Solid in 102SX Sample

A routine sample from Tank 102SX contained forty (40) volume percent flocculent solids. Separations Process Development Unit (SPDU) was asked to identify the solids. SPDU determined that the solids were primarily hydrated oxides of chromium and uranium. Appreciable amounts of lead, bismuth, and iron were detected as well. In addition, nickel and zirconium was found. Details of the SPDU work is discussed below.

Sample T-2959 from Tank 102SX contained approximately 40 percent solids when received by SPDU. Analytical Laboratories (AL) had already analyzed the sample. AL's results are shown in Table I. SPDU separated the solid from the liquid phase. The liquid phase was analyzed. The results are also shown in Table I.

The solids were washed with water. Approximately 50 percent of the solids dissolved in the water washes. The water soluble fraction has been submitted to AL but the results are not yet available. A portion of the water insoluble solids was dissolved in 6M HNO₃. The acid soluble fraction was also submitted to AL, but the results are not yet available. Analyses of the solid fractions will be reported when available.

A portion of the water insoluble solids was analyzed by X-ray elemental analyses. The X-ray analyses showed that the solids were chromium and uranium with significant amounts of lead, bismuth, and iron. The solids also contained some nickel and zirconium. Based on the analyses to date, it is surmised that the solids are hydrated metal oxides. There is some evidence that some carbonates may also be present.

Please call if you have any questions regarding this work.

M. T. Jansky
Chemist

MTJ:giw

cc: L. C. Brown
J. S. Buckingham JSB
H. J. Eding
L. A. Gale
T. A. Lane
M. C. Teats
T. B. Veneziano
D. G. Wilkins

File Code KF55E
Process Aids (8)

TABLE I

ANALYSIS OF TANK 102SX SAMPLE # T-2959

<u>Component</u>	<u>Concentration (moles/L)</u>	
	<u>AL (original)</u>	<u>SPDU (supernatant)</u>
Al	1.20	1.16
OH	2.21	2.05
NO ₃	3.26	"Too much Carbonate"
NO ₂	2.23	2.15
PO ₄	0.081	0.0384
SO ₄	0.210	"Too much Carbonate"
CO ₃	0.798	0.440
Na	10.3	*
Cl	0.193	*
TOC g/l	12.7	*
¹³⁷ Cs (μCi/L)	4.54 X 10 ⁵	*
SpG	1.555	1.413
% H ₂ O	50.84	53.34

*Not analyzed.

cc: H Babad
JS Buckingham
RG Geier
DC Harlow
JE Horton
DC Lini
WJ Van Slyke
CTL Office
File

To: D. C. Lini

From: J. E. Horton

LABORATORY ASSISTANCE

Budget Number:

B0651

Circulate:

CTL Exempt

File:

CTL-122
CTL-111

ABSTRACT

Tank 103-SX is being considered for storage of waste from 242-S Evaporator. Before 242-S Evaporator waste is put into the tank, a sample of sludge from the tank was characterized for heat generation and plutonium content.

The calculated heat generation rate for the 103-SX sludge, based on $^{88+90}\text{Sr}$ and ^{137}Cs content, was 2.80×10^{-3} watts/liter sludge. The "as received" sludge, based on the laboratory analysis, shows a plutonium content of 9.73×10^{-3} grams/liter. The supernatant liquid contained 2.23×10^{-6} grams Pu/liter.

PROGRESS DURING REPORT PERIOD

A sample of 103-SX Tank was received on April 11, 1975. The sludge solids were reddish-brown in color, soft, very fine, and had the consistency of mud.

Sludge analyses were made by fusing 1.6 milliliters of "as received" sludge with KOH, dissolving the melt with concentrated HCl, and diluting to a volume of 360 milliliters with water. Laboratory analyses are reported in Tables I and II.

PLANS FOR NEXT REPORTING PERIOD

To evaluate and characterize 106-S and 101-S tank samples, that we received on June 6, 1975. We are expecting a sample from Tank 101-AX. If it comes in, we will be working on it.

CONCLUSIONS

Work being done for tank farm assistance is being carried out in a progressive manner.

TABLE I

SX103.1

ANALYSIS OF 103-SX TANK SLUDGE "AS RECEIVED"

Wet Density	1.53		
%H ₂ O			
Al	4.8	moles/l	45.4
Fe	0.2	moles/l	
Ca	0.1	moles/l	
Mg	0.04	moles/l	
Mn	0.1	moles/l	
NO ₂	0.2	moles/l	
NO ₃	17.3	moles/l	
Si	0.2	moles/l	
Pu	9.73×10^{-3}	grams/l	
⁸⁹⁺⁹⁰ Sr	2.63×10^6	μCi/l	1.79×10^{-2} watts/l
¹³⁷ Cs	2.29×10^5	μCi/l	1.10×10^{-3} watts/l
¹³⁴ Cs	4.85×10^3	μCi/l	4.99×10^{-5} watts/l

TABLE II

SX103.2

ANALYSIS OF 103-SX TANK SUPERNATANT LIQUID

Density	1.38	
%H ₂ O		53.3%
Fe	$9.41 \times 10^{-5} \text{M}$	0.0%
NaAlO ₂	0.390M	2.3%
NaNO ₃	5.59M	34.4%
NaOH	0.964M	2.8%
Na ₂ CO ₃	0.538M	4.2%
Si	$1.25 \times 10^{-3} \text{M}$	0.0%
Pu	$2.23 \times 10^{-6} \text{ g/l}$	
⁸⁹⁺⁹⁰ Sr	$1.87 \times 10^3 \text{ μCi/l}$	
¹³⁷ Cs	$2.96 \times 10^5 \text{ μCi/l}$	
¹³⁴ Cs	$1.13 \times 10^3 \text{ μCi/l}$	

TCRC-6

Date: March 18, 1976

To: R. E. Van der Cook

From: *JS Buckingham*
J. S. Buckingham - 2-2487

Subject: ANALYSES OF SALTS FROM TANKS
102-SX AND 103-SX

Samples of salt from Tanks 102-SX and 103-SX have been analyzed. The results are shown in Tables I and II attached. The analyses indicate that both salts are sodium nitrate crystals encased in a film of mother liquor. The 102-SX crystals are smaller than those found in 103-SX. Gamma emitting nuclides were measured on a lithium drifted germanium (GeLi) detector for the 102-SX and on a sodium iodide detector for the 103-SX. The GeLi detector is more sensitive and has better resolution than the sodium iodide detector.

All chemical analyses were done in duplicate by dissolving weighed portions of the salt in water and diluting to a known volume. That portion of solid not soluble in water was dissolved in 6M HCl. Water soluble salts were calculated as sodium salts. Acid soluble salt was calculated as metallic oxides.

Particle size distribution was determined by screening dry portions of the salt after washing the salts with isopropanol. It should be pointed out that many of the screened solids were agglomerations of crystals rather than discrete single crystals.

Please call me if you have any questions regarding this work.

JSB:ms

Att.

cc: H Babad
CH Delegard
DC Lini
WP Metz
WE Ogren
WC Schmidt

WW Schulz
RJ Thompson
Process Aids (7)
File
LB

TABLE I
ANALYSIS OF SALT FROM 102-SX

	<u>Sample 1</u>	<u>Sample 2</u>	<u>Average</u>
Bulk Density, g/cc	1.829		1.829
Particle Density, g/cc	1.715		1.715
H ₂ O, %	13.9		13.9
NaAlO ₂ , %	0.9	1.2	1.1
NaNO ₂ , %	1.6	1.4	1.5
NaNO ₃ , %	87.5	83.4	85.5
NaOH, %	1.0	1.1	1.1
Na ₂ CO ₃ , %	3.5	3.3	3.4
Na ₃ PO ₄ , %	0.5	0.2	0.4
Na ₂ CrO ₄ , %	0.4	0.4	0.4
Al ₂ O ₃ , %	1.0	0.8	0.9
Fe ₂ O ₃ , %	0.2	0.2	0.2
²³⁹ Pu, µg/g	0.63	0.25	0.44
⁸⁹⁺⁹⁰ Sr, µCi/g	21.0	21.3	21.2
¹³⁷ Cs, µCi/g			97.7
¹³⁴ Cs, µCi/g			0.29
¹⁰⁶ Ru, µCi/g			2.0
¹⁵⁴ Eu, µCi/g			0.29
⁶⁰ Co, µCi/g			0.11
>840 µm, %			17
840 to 297 µm, %			10
297 to 149 µm, %			37
<149 µm, %			37

TABLE II

ANALYSIS OF SALT FROM 103-SX

SX103.3

	<u>Sample 1</u>	<u>Sample 2</u>	<u>Average</u>
Bulk Density, g/cc	1.601		1.601
Particle Density, g/cc	1.921		1.921
H ₂ O, %	8.1		8.1
NaAlO ₂ , %	1.0	1.0	1.0
NaNO ₂ , %	1.5	1.8	1.7
NaNO ₃ , %	84.3	82.3	83.3
NaOH, %	0.9	0.9	0.9
Na ₂ CO ₃ , %	2.1	3.1	2.6
Na ₂ PO ₄ , %	0.2	0.1	0.2
Na ₂ CrO ₃ , %	0.3	0.3	0.3
Al ₂ O ₃ , %	0.1	0.1	0.1
Fe ₂ O ₃ , %	<0.1	<0.1	<0.1
MuO ₂ , %	0.1	0.1	0.1
Cr ₂ O ₃ , %	0.1	0.1	0.1
²³⁹ Pu, µg/g	0.66		0.66
⁸⁹⁺⁹⁰ Sr, µCi/g	10.4	10.6	10.5
¹³⁷ Cs, µCi/g	53.3	53.8	53.6
>840 µm, %			13
840 to 297 µm, %			46
297 to 149 µm, %			38
<149 µm, %			2

TCRC-8

Date: December 8, 1976

To: W. R. Christensen

From: *J. E. Horton*
J. E. Horton - 2-2529

Subject: ANALYSIS OF TANK 103-SX SALTS

We received a sample from Tank 103-SX on September 17, 1976. This is the first sample taken from Tank 103-SX after receiving salt slurry from the 242-S evaporator process. Analyses indicated the salts from Tank 103-SX are essentially sodium nitrate, associated with interstitial mother liquor. Sample 103-SX had coarse granular crystals, grayish in color; and about 90 percent water soluble.

Analyses were made by weighing 5.7217 grams of salt, dissolving it in water and diluting to a known volume. The fraction not soluble in water was dissolved in concentrated HCl and diluted with water to a known volume. Laboratory results are reported in Table I (attached).

If you have questions regarding this work please call me.

JEH:jf

Att.

cc: w/att.
JS Buckingham
RG Geier
SS Koegler
DC Lini
JE Mirabella
WE Ogren
RL Walser
Process Aids (7)
File
LB

TABLE IANALYSIS OF 103-SX TANK SALTS

Bulk Density	0.84 g/cc	
Particle Density	2.24 g/cc	
%H ₂ O	15.0	%
AlO ₂	1.7	%
NO ₂	2.1	%
NO ₃	51.1	%
CO ₃	3.6	%
OH	0.009	%
Na	27.8	%
Fe	0.2	%
PO ₄	0.3	%
SO ₄	0.5	%
Ca	0.1	%
Cr	0.002	%
Mg	0.02	%
Mn	0.04	%
Si	0.3	%
Ni	0.004	%
Pu	0.446	μg/g
⁸⁹⁺⁹⁰ Sr	38.0	μCi/g
¹³⁷ Cs	95.1	μCi/g

SX103.4

S

TCRC-10
Internal Letter

WHC-SD-WM-ER-324, Rev. 0

Date. . December 16, 1977

TO: (Name, Organization, Internal Address)
. G. A. Olsen
. Tank Farm Process Engineering
.

FROM: (Name, Organization, Internal Address, Phone)
. J. L. Starr
. Chemical Sciences
.
. 2-2529

Subject: . 241-103-SX Sample #1104

Re: Letter, November 16, 1977, G. A. Olsen to J. L. Starr,
"103, 104, and 105-SX Salt Samples"

This letter will confirm and complete data phoned to you on December 5, 1977, concerning this sample.

The subject sample arrived on October 10, 1977. It appeared as a dark grey slush. A portion was taken for analysis and was found to be 42 percent supernatant liquid by volume. Specific gravity of the sample as received was 1.5 and that of the drained (but damp) solids was 2.0. Chemical analyses were conducted on both the damp, packed solids and on the reconstituted supernatant liquid. (This was prepared by adding the appropriate quantity of H₂O to the dry sample.)

The calculated heat generation rate due to ⁹⁰Sr and ¹³⁷Cs in the damp, packed solid is 2.7×10^{-3} watts per liter, while that for the as received sample is 2.3×10^{-3} watts per liter.

If you have further questions, please contact me.

J. L. Starr
Chemist

JLS:jf

Att.

cc:
J. S. Buckingham
G. W. Grimes
F. M. Jungfleisch
R. D. Prosser

Approved by

F. M. Jungfleisch, Manager,
Waste Management Unit

Analysis of Damp, Packed So

WHC-SD-WM-ER-324, Rev. 0

Origin 103-SX #1104

Date Received 10/10/77

Requester W. Christensen/Olsen

AL # 4866

JS # 45

JS # 45

Fe 2.0 x 10⁻² M

Cruc.

Al 0.80 x 10⁰ M

Samp. Vol. 1.4 ml

Ni 1.7 x 10⁻³ M

Dil. Vol. 415 ml

Mn <8.1 x 10⁻³ M

DF 296

Mg <2.1 x 10⁻³ M

Date 11/30

Cr 7.7 x 10⁻² MPu 2.2 x 10⁻⁴ g/lHg 7.9 x 10⁻³ MU 4.7 x 10⁻⁴ g/lCa 1.1 x 10⁰ MAT 65. x 10⁰ µCi/lCd 7.0 x 10⁻⁴ M89+90Sr 1.5 x 10⁵ µCi/lSi 2.2 x 10⁻² M137Cs 3.5 x 10⁵ µCi/lBa <3.0 x 10⁻³ M

155Eu NF x 10 µCi/l

Bi <1.5 x 10⁻³ M

154Eu NF x 10 µCi/l

Na 24. x 10⁰ M

60Co NF x 10 µCi/l

C (TO) 92 x 10 M

125Sb NF x 10 µCi/l

I NR x 10 M

NO₃ NR x 10 M

Pb NR x 10 M

PO₄ 1.1 x 10⁻² MNO₂ NR x 10 MTl <1.1 x 10⁰ g/lSO₄ <0.89 x 10⁰ M241Am 1.5 x 10⁻⁵ g/lCO <0.19 x 10⁰ M134Cs 6.4 x 10² µCi/lF 3.9 x 10⁻² M

Sample was dissolved in aqua regia.

NR = not requested

NF = not found

C(TO) = total organic carbon

Analysis of Sup

WHC-SD-WM-ER-324, Rev. 0

Origin 103-SX #1104
 Requester Christensen

Date Received 10/10/77

AL # 5426			JS #		
JS # 48			Fe	x 10	<u>M</u>
Cruc.			Al	x 10	<u>M</u>
Samp. Vol.	ml		Ni	x 10	<u>M</u>
Dil. Vol.	ml		Mn	x 10	<u>M</u>
DF 3.0			Mg	x 10	<u>M</u>
Date 12/10/77			Cr	x 10	<u>M</u>
Pu	x 10	g/l	Hg	x 10	<u>M</u>
U	x 10	g/l	Ca	x 10	<u>M</u>
AT	x 10	$\mu\text{Ci/l}$	Cd	x 10	<u>M</u>
$^{89+90}\text{Sr}$ 7.3	x 10^3	$\mu\text{Ci/l}$	Si	x 10	<u>M</u>
^{137}Cs 3.4	x 10^5	$\mu\text{Ci/l}$	Ba	x 10	<u>M</u>
^{155}Eu	x 10	$\mu\text{Ci/l}$	Bi	x 10	<u>M</u>
^{154}Eu	x 10	$\mu\text{Ci/l}$	Na	x 10	<u>M</u>
^{60}Co	x 10	$\mu\text{Ci/l}$	C	x 10	<u>M</u>
^{125}Sb	x 10	$\mu\text{Ci/l}$	I	x 10	<u>M</u>
NO_3	x 10	<u>M</u>	Pb	x 10	<u>M</u>
PO_4	x 10	<u>M</u>	NO_2	x 10	<u>M</u>
^{134}Cs 6.5	x 10^2	$\mu\text{Ci/l}$	SO_4	x 10	<u>M</u>

Sample was reconstituted supernate. Sr and GEA were the only analyses done on this sample.

$$\text{Heat penetration rate} = (7.3 \times 10^{-3})(6.8 \times 10^{-3}) + (0.34)(4.8 \times 10^{-3}) = 1.7 \times 10^{-3} \text{ watts/l}$$

TCRC-8

Date: December 16, 1974

To: W. R. Christensen

From: J. E. Horton *J. E. Horton*

Subject: ANALYSIS OF TANK 104-SX SLUDGE SAMPLE

A sludge sample from Tank 104-SX was received on June 19, 1974. Analyses of the strontium and cesium heat generation were reported by telephone on June 21, 1974. Other analyses are reported in this letter.

The 104-SX sludge sample showed two different layers. The top layer was composed of large yellow crystals and represented about 15 volume percent of the total sample received. The top layer was entirely soluble in water and was essentially sodium nitrate. I suspect the sodium nitrate analysis to be high, but it does show that the top layer is all nitrate.

The top layer of 104-SX was analyzed by dissolving 4.29792 grams of sample and diluting to a volume of 25 milliliters with H₂O. Analyses are shown in Table I.

The bottom layer of 104-SX sludge sample was grayish in color with very hard chunks throughout the sample. The bottom layer represents about 85 volume percent of total sample received.

W. R. Christensen
Page 2
December 16, 1974

The bottom layer was analyzed by fusing 1.8 milliliters of damp sludge with KOH, dissolving the melt with concentrated hydrochloric acid, and diluted to a volume of 225 milliliters with H₂O. Analyses shown in Table II are reported per liter of damp "as received" sludge.

Please call me if you have any questions about this work.

JEH:ms

att.

cc: H Babad
JS Buckingham
DG Harlow
NL Harms
RE Van der Cook
RL Walser
Process Aids (7)
CTL File - 111
- 122

SX104.2

TABLE I

ANALYSIS OF TOP LAYER 104-SX

	<u>%</u>	<u>EC</u>	
NaNO ₂	0.1	1-03	
Na ₂ SO ₄	0.1	1-05	
Na ₃ PO ₄	0.1		
NaAlO ₂	0.1	1-02	
NaNO ₃	114.0		
⁸⁹⁺⁹⁰ Sr	5.5 x 10 ⁻²	μc/g	1.62 x 10 ⁻⁷ watts/l
¹³⁷ Cs	4.71	μc/g	9.65 x 10 ⁻⁸ watts/l

TABLE II

ANALYSIS OF BOTTOM LAYER 104-SX

SX104.19

Wet Density	1.62		
Dry Density	1.32		
% H ₂ O			18.6
Al	3.53	moles/l	
Ba	0.01	moles/l	
PO ₄	<0.07	moles/l	
SO ₄	0.024	moles/l	
Mg	0.041	moles/l	
Fe	0.19	moles/l	
Na	13.5	moles/l	
⁸⁹⁺⁹⁰ Sr	2.53 x 10 ⁶	μc/l	1.72 x 10 ⁻² watts/l
¹³⁷ Cs	1.29 x 10 ⁵	μc/l	6.19 x 10 ⁻⁴ watts/l

TCRC-7

Date: October 21, 1974
 To: R. L. Walsér
 From: R. E. Wheeler *R. E. Wheeler*
 Subject: ANALYSIS OF TANK FARM SAMPLES
 SAMPLE: T-7326 104-SX

Vis-OTR: Clear, yellow. 5% solids. 1 Rad

pH: > 13.10

SpG: 1.4618

OH: 1.52 M

Al: 9.96×10^{-3} M

Na: 10.09

NO₂: 0.529 M

NO₃: 5.81 M

Pu: 4.69×10^{-6} gm/gal

DTA: No exotherm below 200°C

SO₄: 3.23×10^{-2} M

PO₄: 1.41×10^{-2} M

F: 1.20×10^{-2} M

CO₃: 0.204 M

GEA: ¹³⁴Cs - 6.55×10^3 μ Ci/gal
¹³⁷Cs - 1.04×10^3 μ Ci/gal
¹²⁵Sb - 1.40×10^3 μ Ci/gal

Water: 21.29%

Cooling Curve: 25°C for 30 min. No solids.
 20°C for 60 min. No solids.
 15°C for 45 min. No solids.
 10°C for 45 min. No solids.
 5°C for 90 min. No solids.

REW:jd

cc: JS Buckingham
 WR Christensen
 RE Wheeler

TCRC-9

Date: April 23, 1975

To: R. L. Walser

From: R. E. Wheeler. *Richie*

Subject: ANALYSIS OF TANK FARM SAMPLE

Sample: T-2163 104-SX

Received February 19, 1975

Vis-OTR: Yellow 10% solids 450 mrad/hr

OH: 1.34 M

A1: 1.02 M

NO₂: 0.7073 M

NO₃: 6.06 M

REW:vmk

cc: JS Buckingham
WR Christensen
RM Ginestet
JC Womack
RE Wheeler
LB

TCRC-10

Atlantic Richfield Hanford Comp

WHC-SD-WM-ER-324, Rev. 0

Date: December 18, 1975

To: R. L. Walser

From: R. E. Wheeler, 2-2449 *R. E. Wheeler*Subject: ANALYSIS OF TANK FARM SAMPLES
Sample: T-375 Tank: 104-SX
Received: December 5, 1975

Vis-OTR: Dark green ~ 100 % solids 2000 mrad/hr

pH: 13.5

SpG: 1.490 @ 63°C

OH: 2.36 M

Al: 1.48

Na: 12.48 MNO₂: 2.66NO₃: 4.54 MPu: 3.03×10^{-4} gm/galCl: 0.174 MCO₃: 0.768 MCu: 1.22×10^{-4} MPb: 3.56×10^{-4} MGEA: $^{134}\text{Cs} - 1.10 \times 10^4 \mu\text{Ci/gal}$
 $^{137}\text{Cs} - 2.17 \times 10^6 \mu\text{Ci/gal}$ $^{89,90}\text{Sr}: 5.18 \times 10^4 \mu\text{Ci/gal}$

Water: 38.78 %

Cooling Curve: 90 - 100 % solids

REW:eyw

cc: JS Buckingham
WR Christensen RM Ginestet
KE Nelson

JC Womack

TERC-14

Atlantic Richfield Hanford Company

WHC-SD-WM-ER-324, Rev. 0

Date: February 2, 1976
To: D. R. Frazier
From: J. S. Buckingham - 2-2487 *J S Buckingham*
Subject: ANALYSIS OF 242-S SLURRY RECEIVING
TANK 104-SX DURING PARTIAL NEUTRALI-
ZATION PROCESS TEST

- References: (1) Letter, December 5, 1975,
R. E. Wheeler to R. L. Walser,
"Analysis of Tank Farm Samples,
Sample T-9715"
- (2) Letter, December 18, 1975,
R. E. Wheeler to R. L. Walser,
"Analysis of Tank Farm Samples,
Sample T-375"
- (3) Letter, December 18, 1975,
R. E. Wheeler to R. L. Walser,
"Analysis of Tank Farm Samples,
Sample T-377"

Two dip samples were taken from the 242-S evaporator slurry receiving tank during the recent partial neutralization process test. The liquid and solid phases were separated at around 40° C and analyzed.

Analyses of the liquid phases showed that percent water was the only significant difference between the bottoms liquor produced by neutralization and those produced with no neutralization. Analysis of the solid phases showed no significant difference between solids formed during neutralization and solids produced with no neutralization. It was interesting to note that the solids found in the slurry produced during neutralization were almost identical to a solid found in a feed solution to the 242-S evaporator. Also it should be pointed out that the analytical precision of two samples was very poor. The average of those analyses were compared to an average of three analyses made with no neutralization. If better precision is needed, a more extensive sampling program should be considered. Details of the work are discussed on the following pages.

D. R. Frazier
Page 2
February 2, 1976

Dip samples from the 104-SX Tank were heated to around 40° C and the volume percent centrifuged solids measured. The phases were separated by filtering the slurry through a fritted glass filter. Interstitial liquor was removed by pulling air through the solid for about 15 minutes. To prevent the solids from drying, the air was moistened by pulling it through a piece of damp cheese cloth placed on top of the filter.

Analyses of three samples of 242-S bottoms liquor taken when no neutralization was being done are shown in Table I. These analyses originally were reported in the reference letters. Analyses of the liquid phase from the two dip samples taken during partial neutralization are also shown in Table I. The averages ($\bar{X}$) of the analyses and the standard deviation of the analyses (S) are shown in Table II.

When the data were tested at the 95 percent significance level, the only significant difference between unneutralized and neutralized bottoms liquors was the water content. Neutralized liquors had significantly more water than unneutralized liquors. No significant differences were found between the other components in the waste.

D. R. Frazier
Page 3
February 2, 1976

TABLE I

ANALYSIS OF EVAPORATOR BOTTOMS LIQUOR

Sample	No Neutralization						Neutralized	
	101-S		104-SX		105-SX		104-SX	104-SX
	11/19/75		12/5/75		12/12/75		11/25/75	12/19/75
Solids	1.51		1.490		1.500		1.499	1.499
Density, g/cc	1.51		1.490		1.500		1.499	1.499
H ₂ O	42.8%		38.8%		39.0%		56.4%	57.7%
AlO ₂	1.82 M	9.9%	1.48 M	8.1%	1.41 M	7.7%	1.75 M	9.7%
NO ₂	2.22 M	10.1%	2.66 M	12.3%	2.78 M	12.8%	4.06 M	18.7%
NO ₃	4.68 M	26.3%	4.54 M	25.9%	5.08 M	28.8%	4.66 M	26.4%
OH	3.60 M	9.5%	2.36 M	6.3%	2.32 M	6.2%	2.86 M	7.6%
CO ₃	0.318 M	2.2%	0.768 M	5.5%	0.788 M	5.6%	0.192 M	1.4%
wt%	100.8%		96.9%		100.1%		120.1%	96.9%
Ci/l	0.645		0.573		0.550		0.668	0.325

TABLE II

AVERAGE ANALYSIS OF EVAPORATOR BOTTOMS LIQUOR

	No Neutralization				Neutralized			
	$\bar{X}$	S	$\bar{X}$	S	$\bar{X}$	S	$\bar{X}$	S
Density	1.500	0.0001			1.499	0		
H ₂ O			40.2%	2.25			57.1%	0.917
NaAlO ₂	1.57 M	0.219	8.6%	1.17	1.77 M	0	9.7%	0.971
NaNO ₂	2.55 M	0.295	11.7%	1.43	2.72 M	1.89	12.6%	8.69
NaNO ₃	4.77 M	0.281	27.0%	1.57	3.90 M	1.08	22.1%	6.08
NaOH	2.76 M	0.728	7.3%	1.88	2.27 M	0.26	6.1%	2.19
Na ₂ CO ₃	0.621 M	0.263	4.4%	1.93	0.156 M	0.055	1.1%	0.424
¹³⁷ Cs	0.589 Ci/l	0.500			0.497 Ci/l	2.42		

D. R. Frazier
Page 4
February 2, 1976

Only one of the dip samples taken from 104-SX after partial neutralization had enough solids in it to analyze. The analysis of the solid is shown in Table III. We have no recent analyses of salts produced by the 242-S evaporator to compare with the solid separated from the 104-SX sample. We have an analysis of a solid separated from feed solution to the evaporator. The feed solid was washed with isopropanol prior to analysis. The analysis of the feed solid is also shown in Table III.

TABLE III

ANALYSIS OF EVAPORATOR SOLIDS

	<u>104-SX</u>	<u>102-S</u>
Bulk density		1.16
Particle density		2.33
H ₂ O		29.2%
NaAlO ₂	5.2%	5.9%
NaNO ₂	17.5%	9.7%
NaNO ₃	20.9%	27.3%
NaOH	5.1%	< 0.8%
Na ₂ CO ₃	24.2%	25.6%
	<u>72.9 %</u>	

It is interesting to note that both the 104-SX solid and the 102-S solid are high in sodium carbonate. The 102-S solid was lower in sodium hydroxide which I think is because the film of mother liquor surrounding each particle was washed away by the alcohol rinse.

TCRC-13

Date: March 15, 1976

To: J. S. Garfield

From: J. S. Buckingham *JS Buckingham*

Subject: ANALYSIS OF SAMPLE FROM TANK 107-S

Reference: Letter, January 19, 1976,
J. S. Buckingham to J. S. Garfield,
"Cloud Points and Viscosities of
Liquid from Tank 107-S"

During the transfer of liquid from Tank 107-S cross country to East area, the cross-country line plugged. The material in 107-S originally had been stored in Tank 104-SX. Data in the reference letter indicated the material could be moved cross country without any problem. However, after the cross-country line plugged, the Chemical Technology Laboratory (CTL) was asked to get a complete analysis on the 107-S liquid to see if by chance there was something different between the material in 107-S and when it was in 104-SX.

Analysis of the material in Tank 107-S indicates that it is very similar to what was in Tank 104-SX except possibly slightly diluted. When cooled to 5° C the 107-S material contained 2 volume percent solids; however, on standing overnight at 22° C the volume percent solids increased to 13 percent. The solid was almost completely soluble in water. Analysis of the solid showed that 7 percent was sodium carbonate. Unfortunately we did not have enough sample to get a complete analysis on the solid, but from the appearance of the crystals that grew on standing overnight, we think they were sodium nitrate. Details of the laboratory work are discussed below.

J. S. Garfield
Page 2
March 15, 1976

A sample of material from Tank 107-S was heated to 50° C. Any solids present were allowed to settle and an aliquot was withdrawn for chemical analysis. The analysis of the 107-S material and the analysis of the material when it was in 104-SX is shown in Table I.

TABLE I
ANALYSES OF LIQUOR FOR CROSS-COUNTRY TRANSFER

	<u>104-SX</u>	<u>107-S</u>
Density, g/cc	1.490	1.437
H ₂ O, %	38.8	52.2
NaAlO ₂ , M	1.48	1.35
NaNO ₂ , M	2.66	2.55
NaNO ₃ , M	4.54	3.45
NaOH, M	2.36	2.57
Na ₂ CO ₃ , M	0.768	0.423
¹³⁷ Cs, μ Ci/l	5.73×10^5	5.13×10^5
⁸⁹⁺⁹⁰ Sr, μ Ci/l	1.37×10^4	1.04×10^4

A second portion of the 107-S sample was taken at 50° C while the sample was being stirred. The sample was slowly cooled to 5° C then allowed to stand overnight. The volume percent solids as a function of temperature is shown in Table II. Note how the volume of solid increased when the sample was allowed to stand overnight.

TABLE II
SOLIDS AS A FUNCTION OF TEMPERATURE
TANK 107-S

<u>Temperature</u>	<u>Volume Percent Solids</u>
50° C	2
40° C	2
30° C	2
18° C	2
8° C	2
5° C	2
22° C	13*

*After standing overnight.

J. S. Garfield
Page 3
March 15, 1976

The supernatant liquid was decanted from the solid; the solid was weighed, then water was added incrementally. The amount of solid dissolved after each water addition was measured. The results are shown in Figure 1. The temperature of the water additions was 22° C.

A chemical analysis was made on the dissolved solid. Unfortunately there was insufficient sample to get a complete analysis. The solid was 7 percent Na_2CO_3 and contained 8.2 $\mu\text{Ci/g}$ $^{89+90}\text{Sr}$ and 72.4 $\mu\text{Ci/g}$ ^{137}Cs . The appearance of the crystal that formed when the material stood overnight and the apparent ease of dissolving those crystals with water suggests that the solid may be sodium nitrate.

The analyses and experiment done with the 107-S material indicated that in no way would this material plug the cross-country transfer line. Please call me if you have any questions regarding this work.

JSB:jf

Att.

cc: w/att.
H Babad
DC Lini
CA Lorenzen
RJ Thompson
RL Walser
JG Womack
Process Aids (7)
File
LB

TCRC-15

March-April 1977

cc. JS Buckingham
WR Christensen
DA Dodd
RG Geier
DC Harlow
JE Horton
DC Lini
RA Watrous
CTL Office File
File
CTL 503

To: D. C. Lini

From: J. E. Horton

ENGINEERING ASSISTANCE WASTE CONCENTRATION

Budget Number
KW217

Contributors:
J. E. Horton
E. L. Richards
K. J. Patterson

ABSTRACT

Characterization and analysis were requested by Plant Engineering for samples from tanks ~~104-SX~~ 105-SX, and 107-SX.

Sample 104-SX was dark gray to a tannish gray in color, intermixed with large crystals, and was about 75% water soluble. The analysis indicated that 104-SX salt solids were essentially sodium nitrate with lesser amounts of AlO_2 , CO_3 , OH , PO_4 , SO_4 , Si , etc.

Sample 105-SX was grayish in color, having coarse granular crystals intermixed with large lumps, and was about 95% water soluble. Analyses indicated the solids was sodium nitrate, with lesser amounts of AlO_2 , CO_3 , SO_4 , etc.

Sample 107-SX was extremely hard with coarse granular crystals, brown to whitish-gray in color, and about 60% water soluble. Analysis indicated the solids was essentially sodium nitrate with lesser amounts of AlO_2 , OH , Fe , etc.

Progress During Report Period

Analysis were made by weighing a known amount of each sample, dissolving them in water, and diluting each to a known volume. Insoluble solids were dissolved in concentrated HCL and diluted to known volumes. Each sample was sent to analytical laboratory for analysis. Laboratory results are reported in Tables I through III.

Plans For Next Reporting Period

To report all samples from tank farms that we have completed laboratory analysis.

Conclusions

We have in progress all samples received from tank farms.

TABLE I
ANALYSIS OF TANK 104-SX SALTS

Bulk Density	1.39 g/cc
Particle Density	1.89 g/cc
H ₂ O	11.4%
Al	3.2%
CO ₃	3.0%
NO ₂	2.5%
NO ₃	50.0%
F	0.1%
Si	0.4%
PO ₄	0.6%
SO ₄	1.5%
OH	2.0%
Cr	0.3%
Cl	0.1%
F	<0.01%
Na	26.0%
Ca	0.03%
Hg	0.01%
U	2.68×10^{-5} g/g
Pu	4.70×10^{-6} g/g
⁸⁹⁺⁹⁰ Sr	47.0 μ Ci/g
¹³⁷ Cs	97.0 μ Ci/g
Material Balance	102.0%

Westinghouse
Hanford Company

TCRC-188

WHC-SD-WM-ER-324, Rev. 0

From: Site Hazardous Waste Engineering Support Unit 13334-88-190
Phone: 3-4429 2750E/D187/200E/R1-51
Date: June 16, 1988
Subject: REQUEST FOR TANK 104-SX INTERSTICIAL LIQUID HAZARDOUS WASTE
DESIGNATION

To: K. G. Carothers R1-51

cc: G. L. Dunford R1-51
D. W. Lindsey R1-51
R. R. Rodriguez *[Signature]* R1-51
MBS File/LB

Using the data which you provided the following designation has been made. The table below shows the chemical compounds and concentrations that are likely to be present in the tank. Based on biological toxicity the liquid is an extremely hazardous waste (EHW) because of the equivalent concentrations (EC) of materials summing to greater than .01%, (dangerous waste number WT01). The lower toxicity limit is 0.001% EC. The liquid is also a dangerous waste (DW) because of corrosivity. (dangerous waste number D002).

COMPOUND	WEIGHT %	E C	TOX CAT
NaNO3	3.7E 01	3.7E-03	D (figured on NO3)
NaNO2	1.1E 01	1.1E-01	B (figured on NO2)
NaCl	9.7E-01	9.7E-05	D
NaAlO2	8.7E 00	8.7E-04	D
Na2B4O7*10H2O	1.4E-01	1.4E-05	D
Ca(OH)2	9.2E-03	9.2E-07	D
CrCl2	3.0E-02	3.0E-05	C
MgCl2	2.0E-02	2.0E-06	D
FeCl3*6H2O	1.9E-02	1.9E-05	C
KOH	3.0E-01	3.0E-04	C
NaOH	5.6E 01	5.6E-02	C (figured on OH)

SUM of EC 1.7E-01 (EHW)

[Signature]

M. B. Strobe, Senior Scientist

rjh

Westinghouse
Hanford Company

Memo

From: Process Chemistry Laboratories
Phone: 3-1972 MO-037/200W T6-50
Date: July 7, 1988
Subject: ANALYSIS OF TANK 241-SX-104 SAMPLES

12221-PCL88-147

To: K. G. Carothers R1-51

cc: F. E. Boyd S5-04
V. C. Boyles R1-51
J. E. Bramson T1-30
D. R. Bratzel ~~S5-04~~ T6-50
B. E. Campbell R1-51
G. L. Dunford R1-51
M. D. LeClair R2-05
V. D. Maupin R1-51
S. P. Schaus R1-06
R. K. Welty R2-40
RLW File/L3

During May 1988, information was obtained from the single-shell tank (SST) 241-SX-104 indicating that the physical integrity of the tank was in question. As part of the response to these indications, the decision was made to pump any remaining liquid from the tank. Prior to pumping, samples were taken and shipped to 222S for analysis. This report summarizes the results of the analysis completed to date.

Two samples were received on Saturday, May 14, 1988. A sample was recovered from the upper portion of the tank riser (top sample) and from the lower portion of the tank riser (bottom sample). Aliquots (10 mL) of the samples were removed by Analytical Chemistry Services Laboratories (ACSL) shift personnel for immediate analysis. The remainder of the samples were stored in heated (heat lamp) 90-pound 3 Plant pigs until Monday. On Monday, the samples were loaded into the 222S 1E-1 hot cell. At that time, the top sample appeared to contain less than 10% grey solids and the bottom sample, approximately 25% grey solids. The supernate solution in both bottles appeared to be clear fluid, as viewed through the yellow tint of the hot cell windows. No aliquots were taken on Monday and the samples were allowed to cool to room temperature overnight.

On Tuesday morning, initial attempts to mix the samples prior to removing further aliquots were unsuccessful due to a "gelling" of the liquid. The supernate was of sufficient viscosity that the stir bars "floated" at the top of the bottles. The samples were placed on a hot plate and warmed. As the solution warmed, the stir bars slowly sank to the bottom of the bottles, allowing the samples to be mixed. After mixing, two aliquots were taken from each sample. One aliquot from each sample was diluted with water. The other aliquots were diluted with 4 M nitric acid. Initially, samples were diluted by 50%. On dilution of the sample with the acid solution, large quantities of solids were noticed in the vessels. Reevaluation of the expected

K. G. Carothers
Page 2
July 7, 1988

12221-PCL88-147

composition of the tank supernate resulted in the conclusion that insufficient acid had been added to completely acidify the sample. The solids were assumed to be aluminum hydroxides. Nitric acid (8 M) was added to the samples until no further solids dissolution was noted. For all water and acid dilutions, less than 1% of the initial slurry volume remained undissolved. The supernatant solutions were submitted to ACSL for analysis. The results of these analyses are included in an appendix to this report.

A representative composition for the material recovered from tank 241-SX-104 is shown in Table 1. This table was generated by blending all of the results contained in the appendix. Most values were obtained by averaging the individual results obtained from the different aliquots. The error range for most values is $\pm 10\%$. For some values, a larger error value has been assigned ($\pm 20-30\%$). This reflects poorer agreement between individual analysis, or analyses with results close to limits of detection. Except for the alpha total result, values prefaced with the less than symbol (<) were not quantifiable and the value reported is the analytical procedure limit of confirmation value. Alpha total determination was severely hampered by the presence of significant quantities of beta/gamma emitters in the sample. Consistent results could not be obtained. The value reported represents a logical maximum concentration based on several attempts to determine total alpha activity. The analytical procedures used for americium determination would not produce acceptable results (acceptable standard recoveries). The procedure is under evaluation and americium determination will be attempted when the procedure has been verified for this sample matrix.

The liquid recovered from tank 241-SX-104 is consistent with an expected composition for supernate from a salt cake waste tank. It appears to be nearly saturated in dissolved salts with the major radionuclide present being cesium-137. Based on available results, the material is noncomplexed (<10 g/L TOC) and nontransuranic (<100 nCi/gm) waste.

R. L. Weiss, Chemist
Process Chemistry Laboratories

cse

Attachments (4)

Table 1

Composition of 241-SX-104 Sample

SX104.9

<u>Composition</u>	<u>Value</u>
pH	13
Density	1.5 g/cc
percent Water	55%
OH	$2 \pm 20\% \text{ M}$
NO ₃	$6.6 \pm 20\% \text{ M}$
NO ₂	2.5 M
CO ₃	0.22 M
SO ₄	$<0.03 \text{ M}$
PO ₄	$0.1 \pm 20\% \text{ M}$
F	$<0.1 \text{ M}$
Cl	0.25 M
TOC ¹	5 g/L
Al	1.6 M
B	0.006 M
Ca	0.002 M
Cr	0.003 M
Mg	0.0003 M
Fe	$<0.001 \text{ M}$
P	0.15 M
K	0.08 M
Na	15.5 M
Other Metals ²	
Alpha Total ³	$<5 \text{ uCi/L}$
Total Beta	$2 \times 10^5 \pm 30\% \text{ uCi/L}$
Am	Incomplete
Pu (in solution)	$<3 \text{ uCi/L}$
Pu (in total slurry)	$0.7 \pm 20\% \text{ uCi/L}$
Cs-137	$4.5 \times 10^5 \text{ uCi/L}$
Sr-90	$3 \times 10^2 \pm 20\% \text{ uCi/L}$

All values are $\pm 10\%$ unless otherwise noted.

- 1 One higher TOC value obtained (13.3 g/L), value under investigation.
- 2 Other elements (La, Sn, Nd, Ba, Zn, Pd, Ni, Ag, Li, Zr, Ca, Pb, Si, Mo, Co, Ti, Mn, Sr, Ta, Bi, and Cd) were less than the limit of quantitation.
- 3 Alpha total values were near background, values are only approximate.

2X/07.10

APPENDIX -- DIRECT ANALYSIS OF 241-SX-104 SAMPLES

	TOP SAMPLE	BOTTOM SAMPLE	
Density	1.414	1.40	g/cc
% Water	50.8	61.9	
Al	1.33	1.76	M
TOC	3.23	1.44	g/l
NO2	2.44	2.09	M
NO3*	1.07	1.18	M
OH	4.02	3.69	M
pH	13.13	13.24	
AT	interference	interference	
TB	0.591	0.175	Ci/l
Cs-137	0.198	0.116	Ci/l
Sr-90	0.0000477	0.000026	Ci/l
Pu	0.000636	0.00068	g/l
Am	<2.98	<2.79	μCi/l

TCRC-3

Date: October 4, 1974

To: W. R. Christensen

From: *J. E. Horton*
J. E. Horton

Subject: CHARACTERIZATION OF 105-SX
SLUDGE SAMPLE

Salt slurries from the 242-S Evaporator may be added to the 105-SX Tanks. Before salt is put into the tank, a sample of sludge from the tank needs to be characterized for heat generation and plutonium content.

The 105-SX sludge sample was received in June, but due to other higher priority samples the work was delayed for a period of time. Sludge sample 105-SX was composed of two layers. The top layer was much softer than the bottom layer and was dark gray in color. The top layer represents 15 volume percent of total sample received. The bottom layer was hard with large chunks throughout and was dark brown in color, representing about 85 volume percent of total sample received.

The 105-SX sludge analysis were made by fusing 3.2 milliliters of the top layer with KOH and dissolving the melt with concentrated HCL and diluted with H₂O to a volume of 300 milliliters. Two milliliters of the bottom layer were fused with KOH, and the melt was dissolved with concentrated HCL and diluted to a volume of 375 milliliters. Results are shown in Tables I and II. The analyses in the tables are reported per liters of damp "as received" sludge.

Please call me if you have any questions about this work.

JEH:ms

cc: H Babad	CG Harlow
JS Buckingham	FE Van der Cook
HL Harms	RL Walser
	Process Aids (5)

TABLE I

ANALYSIS OF TOP LAYER 105-SX

H ₂ O		15.6%
Wet Density	1.77	
Dry Density	1.50	
Al	14.34 moles/l	21.9%
Fe	0.103 moles/l	0.3%
Pu	1.5×10^{-5} g/l	
⁸⁹⁺⁹⁰ Sr	2.84×10^4 μ ci/l	1.93×10^{-4} watts/l
¹³⁷ Cs	6.06×10^3 μ ci/l	2.91×10^{-5} watts/l

TABLE II5x10⁵.7

ANALYSIS OF BOTTOM LAYER 105-SX

H ₂ O		17.8%
Wet Density	1.71	
Dry Density	1.41	
Al	13.59 moles/l	21.5%
Fe	0.56 moles/l	1.8%
Pu	4.24×10^{-5} g/l	
⁸⁹⁺⁹⁰ Sr	1.14×10^5 μ ci/l	7.75×10^{-4} watts/l
¹³⁷ Cs	1.02×10^4 μ ci/l	4.90×10^{-5} watts/l

TABLE IIITHERMAL CONDUCTIVITY OF 105-SX SLUDGE
(Data by D. G. Bouse)

<u>Conditions</u>	<u>Temp. °C</u>	<u>Btu/hr Ft² (°F/Ft)</u>
As received	25°C	0.896
Overnight	80°C	0.850
Overnight	110°C	0.851
Over weekend	153°C	0.327
Back to	115°C	0.385
Returned to	25°C	0.367
Held for 72 hrs.	25°C	0.374

TCRC-4

Atlantic Field Hanfor

WHC-SD-WM-ER-324, Rev. 0

Date: November 19, 1974

To: R. L. Walser

From: R. E. Wheeler *R. E. Wheeler*

Subject: ANALYSIS OF TANK FARM SAMPLES

SAMPLE: T-7327 105-SX *L. R. U. d*

Vis-OTR: Clear, yellow. (No solids.) 500 mPaad/hr

pH: > 13.20

SpG: 1.3444

OH: 1.44 M

Al: 0.597 M

Na: 7.22 M

NO₂: 0.443 M

NO₃: 3.71 M

Pu: 1.69×10^{-5} gm/gal

DTA: No exotherm below 200°C

SO₄: deleted by R. L. Walser

PO₄: 2.11×10^{-3} M

F: 3.63×10^{-2} M

CO₃: 0.275 M

GEA: ¹³⁴Cs - 6.43×10^3 uCi/gal

¹³⁷Cs - 7.42×10^5 uCi/gal

Water: 63.19%

Cooling Curve: 25°C for 15 min. No solids.
20°C for 15 min. No solids.
15°C for 40 min. No solids.
10°C for 15 min. No solids.
5°C for 45 min. No solids.

REMARKS

cc: J. E. Buckingham
J. E. Christensen
J. E. Dierckx
J. E. Wheeler
J. E. Womack

TCRC-6

Date: December 18, 1975

To: R. L. Walser

From: R. E. Wheeler, 2-2449

1/18/76

Subject: ANALYSIS OF TANK FARM SAMPLES

Sample: T-377 Tank: 105-SX

Received: December 12, 1975

Vis-OTR: Green 100 % Solids 2500 mrad/hr

pH: 13.8

SpG: 1.500 @ 62°C

OH: 2.32 MAl: 1.41 MNa: 12.52 MNO₂: 2.78 MNO₃: 5.08 MPu: 4.16×10^{-4} g/galCl: 0.167 MCO₃: 0.788 MPb: 3.36×10^{-4} MCu: 1.07×10^{-4} MGEA: ¹³⁴Cs - 9.81×10^3 μ Ci/gal¹³⁷Cs - 2.08×10^6 μ Ci/gal^{89,90}Sr: 5.41×10^4 μ Ci/gal

Water: 38.98 %

Cooling Curve: 90 - 100 % solids

REW:eyw

cc: JS Buckingham

WR Christensen

RM Ginestet

KE Nelson

JC Womack

TCRC-8

Date: March 29, 1977
To: W. R. Christensen
From: J. E. Horton - 2-2529 *J. E. Horton*
Subject: CHARACTERIZATION AND ANALYSIS OF
TANK 105-SX SALTS

A sample was received from Tank 105-SX on February 1, 1977. This is the first sample taken from Tank 105-SX after receiving salt slurry from the 242-S evaporator process. Solids from Tank 105-SX were coarse granular crystals, intermixed with larger lumps, grayish in color, and about 95 percent water soluble. Analysis indicated the solids are essentially sodium nitrate, with lesser amounts of AlO_2 , CO_3 , SO_4 , etc.

Analyses were made by weighing 6.90365 grams of solids, dissolving them in water, and diluting to a known volume. Insoluble solids were dissolved in concentrated HCl and diluted to a known volume. Analyses are reported in Table I.

If you have any questions regarding this work, please call me.

JEH:jf

Att.

cc: JS Buckingham
RG Geier
DC Lini
JE Mirabella
DH Miyasaki
DA Turner
ME Weems
Process Aids (?)
File
LB

TABLE I

ANALYSIS OF SALT SOLIDS FROM TANK 105-SX

Bulk Density	1.06 g/cc
Particle Density	2.16 g/cc
H ₂ O	13.0 %
Al	3.0 %
NO ₂	0.4 %
NO ₃	66.0 %
CO ₃	3.0 %
OH	0.5 %
F	0.002 %
Cl	0.2 %
Na	24.0 %
PO ₄	<1.0 %
SO	2.5 %
Fe	0.03 %
Cr	0.2 %
Mg	<0.001 %
Mn	<0.01 %
Si	0.02 %
U	9.40 x 10 ⁻³ g/l <i>l</i>
Pu	2.41 x 10 ⁻⁷ μ Ci/g
89+90Sr	32.0 μ Ci/g
137Cs	227.0 μ Ci/g
106Rh	3.5 μ Ci/g
125Sb	0.24 μ Ci/g
155Eu	0.60 μ Ci/g
Material Balance	113.0 %

TCRG-1

Date: December 6, 1974
To: R. L. Walser
From: R. E. Wheeler *R. E. Wheeler*
Subject: ANALYSIS OF TANK FARM SAMPLES
SAMPLE: T-8041 106-SX -

Vis-OTR: Clear light yellow. No solids. 15 mRad/hr

pH: 11.3

SpG: 1.004

OH: 2.64×10^{-2} M

Al: 1.72×10^{-3} M

Na: 5.08×10^{-2} M

NO₂: 2.68×10^{-3} M

NO₃: 2.17×10^{-2} M

Pu: $< 5.34 \times 10^{-6}$ gm/gal

DTA: No exotherms.

SO₄: 1.15×10^{-3} M

PO₄: $< 5.27 \times 10^{-5}$ M

F: 1.84×10^{-4} M

CO₃: 9.0×10^{-2} M

GEA: ¹³⁴Cs - 4.09×10^3 μ Ci/gal
¹³⁷Cs - 1.20×10^5 μ Ci/gal
⁶⁰Co - 2.33×10^3 μ Ci/gal
¹²⁵Sb - 3.07×10^4 μ Ci/gal
¹⁵⁴Eu - 1.16×10^4 μ Ci/gal

^{89,90}Sr: 1.03×10^2 μ Ci/gal

Water: 99.63%

Cooling Curve: 30°C for 45 min. No solids.
25°C for 45 min. No solids.
20°C for 45 min. No solids.
15°C for 45 min. No solids.
10°C for 45 min. No solids.
5°C for 45 min. No solids.

REW:jd

cc: JS Buckingham
WR Christensen
RM Ginestet
RE Wheeler
JC Womack

✓

TCRC-2

Date: February 25, 1977
To: R. E. Van der Cook
From: J. S. Buckingham - 2-2487 *JS Buckingham*
Subject: EVAPORATION OF SYNTHETIC 106-SX SOLUTION

Alkaline waste from B Plant containing complexants was evaporated in the 242-S evaporator and the concentrated slurry stored in Tank 106-SX. The question was asked how much further could 106-SX supernatant liquor be evaporated and still produce solids acceptable for storage in a single-shell waste tank?

Evaporation of a synthetic 106-SX solution, 20 percent, produced a gelatinous slurry which had a viscosity greater than 15000 cps. Under existing operating conditions, it appears that little or no additional evaporation of this material can be accomplished. Details of the laboratory work are discussed below.

A sample of liquid from Tank 106-SX was analyzed. Analysis of the tank and the synthetic made to simulate the material in the tank are shown in Table I. Please note the difference in NaNO_2 concentrations.

One hundred milliliter portions of the synthetic 106-SX were evaporated 20 and 25 percent in the laboratory vacuum evaporator. Pressure during evaporation was 41 torr (5.47×10^3 Pa). Observations and measurements made during the evaporation are shown in Table II.

✓

Atlantic Richfield Hanford Company

R. E. Van der Cook

Page 2

February 25, 1977

TABLE I

COMPOSITION OF 106-SX

	<u>Full Level</u>		<u>Synthetic</u>	
Density	1.458		1.466	
H ₂ O		45.8%		42.8%
NaAlO ₂	0.704M	4.0%	0.66 M	3.7%
NaOH	0.62 M	1.7%	0.85 M	2.3%
NaNO ₂	1.60 M	7.6%	0.09 M	0.4%
NaNO ₃	4.46 M	26.0%	4.14 M	24.0%
Na ₂ CO ₃	0.484M	3.5%	0.484M	2.5%
(Organic C	9.66 M)		-	
HEDTA	0.644M(1)	15.2%	0.544M(2)	12.8
EDTA	0.322M(1)	8.4%	0.272M(2)	7.1
TOTAL		112.2%		96.6%
Pu	4.92 x 10 ⁻⁴	g/l		
⁸⁹⁺⁹⁰ Sr	1.45 x 10 ⁵	μCi/l		
¹³⁷ Cs	3.98 x 10 ⁵	μCi/l		
¹⁵⁴ Eu	9.64 x 10 ³	μCi/l		
<u>Temp.</u>	<u>Centipoise</u>	<u>%Solid</u>		
65	5.4	0.5		
60	4.8	0.5		
55	6.5	0.2		
50	8.5	0.2		
46	11.2	1.2		
41	14.1	10.5		
30		10.5		
26		21.1		
22		21.6		

(1) Calculated from carbon analysis

(2) Make-up value

Atlantic Richfield Hanford Company

R. E. Van der Cook

Page 3

February 25, 1977

TABLE II

EVAPORATION OF SYNTHETIC 106-SX

% Evaporated	20	25
Pressure, torr	41	41
Initial boiling point	41° C	41° C
% Evaporated at nucleation	7	
Temp. at nucleation	46° C	
Final boiling point	48° C	52° C
Slurry density, g/ml	1.47	1.74
% Settled solids	100(1)	100(1)
Viscosity	>15,000 cps (2)	>18,000 cps (3)

(1) slurry turned gelatinous.

(2) viscosity ranged from 15,000 cps at high shear force and 50° C to 400,000 cps at low shear force and room temperature.

(3) viscosity ranged from 18,000 cps at high shear force and 50° C to 800,000 cps at low shear force and room temperature.

No chemical analyses were made on the concentrated slurries.

Please call me if you have any questions regarding the work reported here. At this time I don't have any suggestions on how to handle this waste. I would like to get together with you sometime soon to discuss any additional work you would like done with this material.

JSB:ms

cc: WR Christensen
 JO Honeyman
 DC Lini
 RJ Thompson
 Process Aids (7) ←
 File
 LB

TUC-3

Date: March 31, 1977

To: W. R. Christensen

From: J. E. Horton - 2-2529 *J.E. Horton*

Subject: CHARACTERIZATION OF TANK 106-SX
SUPERNATANT AND SLUDGE

A sample was received from Tank 106-SX on February 28, 1977. Tank 106-SX is used for storage of concentrated B Plant complexant waste. Its consistency was like a thin mud pie, being dark brown in color.

There are two solids associated with 106-SX sample. One is very fine particles which cannot be removed by centrifugation. The others solids are larger particles which can be removed by centrifugation. The particles suspended in the supernatant were filtered through an 0.25 μ m filter. The volume of solids removed from the sample was about 50 percent. Details of the laboratory analyses are reported in Tables I through III.

The calculated heat generation rate for the fine solids based on $^{89+90}\text{Sr}$ and ^{137}Cs content was 5.55×10^{-3} watts/liter.

The calculated heat generation rate for the coarse solids based on $^{89+90}\text{Sr}$ and ^{137}Cs was 4.16×10^{-3} watts/liter.

Analyses were made by fusing a known portion of each solid with KOH and dissolving the melts with concentrated HCl, and diluting to a known volume with water.

Please call me if you have any questions regarding this work.

JEH:jf

Att.

cc: Wjatt.
JS Buckingham
EG Geier
DC Lini
DH Miyasaki
JE Mirabella
DA Turner

CR Fasmussen
ME Weems
BE Van der Cock
JC Womack
Process Aids (7)
File

TABLE I

ANALYSIS OF FILTERED 106-SX SUPERNATANT

Density	1.45 g/cc	
H ₂ O		46.0%
Al	0.32M	2.0%
Fe	0.02M	0.1%
CO ₃	0.69M	5.0%
NO ₂	<0.02M	<1.0%
NO ₃	2.94M	17.0%
OH	0.44M	1.2%
Si	0.002M	0.002%
Na	10.0M	16.0%
Mg	0.0002M	0.0004%
Mn	0.005M	0.02%
PO ₄	0.04M	0.4%
SO ₄	<0.003M	<0.03%
Total Carbon	6.07M	5.0%
Pu	6.86 ⁻⁵ g/l	
89+90Sr	1.51 ⁵ uCi/l	
137Cs	4.95 ⁵ uCi/l	
134Cs	1.42 ⁵ uCi/l	
106Rh	6.61 ⁵ uCi/l	
60Co	3.45 ⁵ uCi/l	
144Ce	8.46 ⁵ uCi/l	
155Eu	1.22 ⁵ uCi/l	
Material Balance		93.0%

TABLE II

ANALYSIS OF FILTERED SOLIDS FROM TANK 106-SX

Bulk Density	1.60 g/cc	
Particle Density	2.36 g/cc	
H ₂ O	39.0%	
Al	1.2 moles/l	
Fe	0.3 moles/l	
Na	15.0 moles/l	
NO ₃	2.3 moles/l	
Cr	0.1 moles/l	
Mg	0.02 moles/l	
Mn	0.07 moles/l	
Si	0.5 moles/l	
PO ₄	1.35 moles/l	
SO ₄	0.5 moles/l	
Cl	0.6 moles/l	
Total Carbon	7.5 moles/l	
C	3.44 x 10 ⁻⁴ g/l	
Pu	8.53 x 10 ⁻⁴ g/l	
89-90Sr	4.24 x 10 ⁵ uCi/l	1.89 x 10 ⁻³ watts/l
137Cs	5.55 x 10 ⁵ uCi/l	2.50 x 10 ⁻³ watts/l
144Ce	7.99 x 10 ⁷ uCi/l	
155Eu	6.30 x 10 ⁷ uCi/l	

SX106.4

TABLE IIIANALYSIS OF 106-SX
CENTRIFUGED SLUDGE SOLIDS

Bulk Density	1.58 g/cc		
Particle Density	2.49 g/cc		
H ₂ O	37.0%		
Al	1.4 moles/l		
Fe	0.9 moles/l		
Na	14.0 moles/l		
NO ₃	3.6 moles/l		
Cr	0.3 moles/l		
Mg	0.03 moles/l		
Mn	0.05 moles/l		
Si	3.5 moles/l		
PO ₄	0.1 moles/l		
SO ₄	0.9 moles/l		
Ca	0.04 moles/l		
Ni	1.1 moles/l		
U	1.94 ⁻³ g/l		
Pu	5.53 ⁻⁴ g/l		
88+90Sr	3.17 x 10 ⁵ μ Ci/l	2.16 x 10 ⁻³ watts/l	
137Cs	4.14 x 10 ⁵ μ Ci/l	2.00 x 10 ⁻³ watts/l	
125Sb	1.18 x 10 ⁵ μ Ci/l		
144Ce	8.68 x 10 ⁴ μ Ci/l		
155Eu	4.56 x 10 ⁴ μ Ci/l		

Internal Letter TCRC-5

WHC-SD-WM-ER-324, Rev. 0

Date: June 29, 1978

No. 6U14U-78-055

TO: (Name, Organization, Internal Address)
R. J. Cain

Waste Concentration
2750E/A106, 200 East

FROM: (Name, Organization, Internal Address, Phone)

J. E. Horton
K. J. Patterson
Chemical Sciences Group
2-2529

Subject: Analysis of 106-SX Tanks
Sample #8301

A sample from 106-SX tank was received by Chemical Sciences Group on Monday, April 18, 1978. Sample 106-SX was reddish brown in color having very fine particles. The sample contained 58.0 percent by volume of solids and 42.0 percent by volume supernatant. The following analyses: HNO_3 , SO_4 , and PO_4 were not completed because of insufficient supernatant sample. Analyses are reported in Tables I and II.

If you have any questions please call me.

J. E. Horton
J. E. Horton
Specialist

K. J. Patterson
K. J. Patterson
Senior Parachemist

JEH/KJP/bmn
Att: 2

Information
J. S. Buckingham
F. M. Jungfleisch *FJ*
D. M. Strachan
Process Aids (7) *---*

TABLE I

ANALYSIS OF SUPERNATANT TANK 106-SX

Density	1.37g/cc	
Viscosity	10.1 Centipoise @ 50°C	
% H ₂ O		46.1%
NaAlO ₂	00.57M	3.4%
Na ₂ CO ₃	00.53M	4.3%
NaOH	3.10M	9.1%
NaNO ₂	1.51M	7.6%
NaNO ₃	IS	
Na ₂ SO ₄	IS	
Na ₃ PO ₄	IS	
Ca	2.82 ⁻² M	0.08%
Cd	8.19 ⁻⁴ M	0.007%
Hg	1.15 ⁻² M	0.02%
FeOOH	5.18 ⁻³ M	0.03%
SiO ₃	2.06 ⁻³ M	0.01%
K	4.67 ⁻² M	0.1%
MN	4.92 ⁻⁴ M	0.002%
TOC	6.8 M	
Pu	IS	
⁸⁹⁺⁹⁰ Sr	1.05 x 10 ⁵ μCi/l	
¹³⁷ Cs	3.80 x 10 ⁵ μCi/l	
¹³⁴ Cs	8.32 x 10 ² μCi/l	
⁶⁰ Co	2.03 x 10 ³ μCi/l	
¹⁵⁴ Eu	1.97 x 10 ³ μCi/l	
¹⁵⁵ Eu	4.46 x 10 ³ μCi/l	

IS = Insufficient Sample

TABLE II
ANALYSIS OF 106-SX 1,

WHC-SD-WM-ER-324, Rev. 0

<u>Components</u>	<u>Water Soluble</u>	<u>KOH Fusion</u>
Al	0.6%	0.9%
CO ₃	5.5%	
OH	4.2%	
Na	21.4%	
NO ₂	2.8%	
NO ₃	11.5%	< 0.1%
Mn	0.006%	
SO ₄	0.4%	
PO ₄	6.2%	1.1%
Fe	0.005%	0.6%
CrO ₄	0.08%	
SiO ₂	0.02%	2.7%
Hg	0.7%	
F	< 1.0%	0.01%
Cl	0.3%	
Bi	0.005%	
Pb	0.01%	
Cd	0.004%	
K	0.07%	
U	6.18×10^{-5} g/g	
²³⁹ Pu	1.88×10^{-7} g/g	3.29×10^{-6} g/g-
²⁴¹ Am		1.65×10^{-7} g/g
⁸⁹⁺⁹⁰ Sr	38.5 μ Ci/g	1.17×10^2 μ Ci/g
¹³⁷ Cs	1.62×10^2 μ Ci/g	18.6 μ Ci/g
¹³⁴ Cs	0.350 μ Ci/g	
⁶⁰ Co	0.934 μ Ci/g	
¹²⁵ Sb		8.3 μ Ci/g
¹⁴⁴ Ce		7.2 μ Ci/g
¹⁵⁴ Eu	1.06 μ Ci/g	5.5 μ Ci/g
¹⁵⁵ Eu	2.68 μ Ci/g	14.2 μ Ci/g
Bulk Density	1.33 g/cc	
% Water	40.1	
Calculated Heat	1.40×10^{-3} Watts/liter per content ⁸⁹⁺⁹⁰ Sr & ¹³⁷ Cs	
Material Balance	98.8%	

Internal Letter

TCRC-7

Rockwell International

100

Date . December 22, 1978

. 60120-78-149 J

TO: Name Originator

. K. G. Carothers
 . Process Engineering
 . 2750-E, 200 East
 2-7811

. G. E. Brown
 . Chemical Sciences Group
 . 222-S, 200 West
 . 2-1571

Subject . Concentration of Tank 106-SX Customer Waste

Because of their potential interaction with other wastes, "customer waste" solutions from N-Reactor are now being isolated from other wastes in the tank farms. These wastes will be concentrated separately. The Waste Chemistry Unit was asked to define the evaporator-crystallizer operating parameters, and to identify any potential processing problems for customer wastes. The work included evaporations at 40 and 80 torr with synthetic feed solution, and evaporation and a viscosity-cooling curve for the radioactive sample. The synthetic solutions could be reduced by about 90 percent and the actual sample by about 80 percent. The experimental details follow.

Sample 5268, an actual customer waste solution from Tank 106-SX, was received on November 13. It was a clear, light green liquid resembling colored water. The composition of the sample, determined by Analytical Laboratory, is listed in Table I. A synthetic feed solution, made with a similar composition, is also listed in Table I. The synthetic solution was cloudy white, and was used unfiltered.

The viscosity and temperature data for 40 and 80 torr evaporations of the synthetic solutions are listed in Table II. Additional boiling point information is listed below.

	<u>40 torr</u>	<u>80 torr</u>
Initial Boiling Point	33.6° C	46.4° C
Full Reflux Boiling Point	35.0° C	47.8° C

The nucleation point could not be seen clearly, but a drastic change in slurry characteristics occurred at about 93 percent volume reduction. The slurry changed from a milky liquid to a solid with the consistency of frosting.

Sample 5268 behaved somewhat differently. This is probably due to other minor components present in the waste, which were not in the synthetic solution. The waste was evaporated at 40 torr to 22 percent volume reduction. The initial boiling point was 33.8° C, and the final boiling point, 37.2° C, at 32 percent volume reduction. The waste nucleated at about 30 percent reduction, and thickened very quickly. The product settled slightly (10 percent liquid) after standing for two hours. The product was quite "goopy," but pourable. No viscosity measurements were possible during the evaporation because of the small amount of sample being used for the boildown.

The boildown product was centrifuged, yielding 62 percent solids. The supernate was decanted and used for a viscosity cooling curve. The viscosity data

✓

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K. G. Carothers
Page 2
December 22, 1978

are presented in Figure 1. At 9.5° C, the supernate had solidified. The measurements were made with a Brookfield plate-and-cone Microviscometer.

No further work has been planned for this project. Please contact me if you need more information.

G. E. Brown

G. E. Brown, Chemist
Waste Chemistry Unit

GEB/jk1

Attachment 3

Information: J. S. Buckingham
G. T. Dukelow
D. G. Harlow
JEB for F. M. Jungfleisch
T. A. Lane
D. L. Merrick
G. A. Olsen
R. A. Zinsli
Process Aids (7)

5X100.8

132

Table I
SOLUTION COMPOSITIONS

	<u>Sample 5268</u>	<u>Synthetic</u>
OH ⁻	.038 <u>M</u>	.014 M
Al	.067 <u>M</u>	.057 M
Na ⁺	.854 M	.792 M
CO ₃ ²⁻	.041 M	.039 <u>M</u>
SO ₄ ²⁻	.068 M	.065 M
NO ₂ ⁻	.222 M	.232 M
NO ₃ ⁻	.212 M	.199 M
PO ₄ ³⁻	.099 M	.106 M
TOC*	1.2 gm/l	1.0 gm/l
¹³⁷ Cs	2.91x10 ⁴ μ Ci/l	--

* Total Organic Carbon

Internal Letter

TCRC-10

WHC-SD-WM-ER-324, Rev. 0

Date November 1, 1979

65124-79-003

TO

Name Organization Mailing Address

H. J. Eding
Waste Processing Technology
2750-E, 200 East

FROM

C. H. Delegard
Chemical Sciences Group
222-S, 200 West
2-1571

Subject: Viscosity/Cooling Curve for Tank 106-SX Sample Composite

Ref: Letter, October 26, 1979, H. J. Eding to C. H. Delegard, Cross-Site Transfer of 106-SX Customer Waste

In response to your referenced letter, a viscosity/ cooling curve was run for Tank 106-SX liquid sample in anticipation of a cross-site transfer. Three samples; T-4379, T-4380, and T-4381, essentially identical in composition, were composited. The viscosity/cooling curve was run using the 3° cone and plate viscometer.

Table I gives the averaged composition of the composite. Table II details the viscosity/temperature data. Viscosities were taken from 40° C to 5° C. No crystals formed during these determinations.

Please call me if you have any questions regarding this work.

C. H. Delegard, Advanced Chemist
Waste Chemistry Unit

CHD:jkr

Information: J. S. Buckingham
G. T. Dukelow
F. M. Jungfleisch
T. A. Lane
D. L. Merrick
R. D. Prosser
File Code: KF552

Table I
 AVERAGED COMPOSITION OF TANK 106-SX SAMPLES
 T-4379, T-4380, T-4381

<u>Component</u>	<u>Concentration</u>
NaAlO_2	0.189 <u>M</u>
NaOH	0.183 <u>M</u>
NaNO_2	0.404 <u>M</u>
NaNO_3	0.716 <u>M</u>
Na_3PO_4	0.088 <u>M</u>
Na_2CO_3	0.250 <u>M</u>
H_2O	84.73 %
Sol. G (g. sol.)	1.110

TCRC 1

Date: March 16, 1977
To: W. R. Christensen
From: J. E. Horton - 2-2529 *J. Horton*
Subject: ANALYSIS OF SAMPLE FROM TANK 107-SX

A sample was received from Tank 107-SX on January 29, 1977. Sample 107-SX was extremely hard with coarse granular crystals, brown to whitish-gray in color and about 60 percent water soluble. Analysis indicated the solids were essentially a mixture of sodium nitrate with lesser amounts of AlO_2 , CO_3 , OH , Fe , etc. The calculated heat generation rate due to $^{89+90}\text{Sr}$ and ^{137}Cs content was 2.07×10^{-2} watts/liter.

Analyses were made by weighing 5.3388 grams of solids, dissolving them in water, and diluting to a known volume. The fraction insoluble in water was dissolved in concentrated HCl . Solids insoluble in water or HCl were fused with KOH , the melt dissolved with concentrated HCl and diluted to a known volume with water.

Analyses are reported in Table I attached.

If you have any questions, please call me.

JEH:ms

Att.

cc: JS Buckingham
RG Geier
DC Lini
JE Mirabella
DH Miyasaki
DA Turner
RL Walser
ME Weems
Process Aids (7)
File
LB

TABLE I

ANALYSIS OF 107-SX (SALT) #1345

Bulk Density	1.33 g/cc	
Particle Density	2.41 g/cc	
H ₂ O	10.0 %	
Al	9.4 %	
CO ₃	0.6 %	
OH	6.8 %	
NO ₃	32.0 %	
Cl	0.006%	
Na	24.6 %	
F	0.04 %	
Si	0.6 %	
Cr	2.8 %	
NO ₂	2.0 %	
Fe	5.4 %	
Ng	0.02 %	
PO ₄	0.04 %	
SO ₄	0.8 %	
Pu	1.67 x 10 ⁻⁵ μCi/g	
U	0.218 g/l	
89 90Sr	2.93 x 10 ⁶ μCi/l	2.01 x 10 ⁻² watts/liter
137Cs	1.30 x 10 ⁵ μCi/l	6.24 x 10 ⁻⁴ watts/liter
125Sb	7.84 x 10 ⁴ μCi/l	
60Co	4.75 x 10 ³ μCi/l	
144Ce	6.04 x 10 ⁴ μCi/l	
154Eu	1.22 x 10 ⁴ μCi/l	
155Eu	3.61 x 10 ⁴ μCi/l	
Material Balance	95.0%	

TANK 241-SX-108
LEAK ASSESSMENT

December 6, 1991

Submitted to
Westinghouse Hanford Company
Task Order No. E-91-10 of Order No. MLW-SVV-037106

Prepared by
EBASCO SERVICES INCORPORATED

Richland, Washington

6-5-58

Soundings in the SX-108 and SX-114 tanks, containing boiling waste, and in the SX-110 and SX-115 tanks, as yet unused, gave no indication of bulged tank liner bottoms. (Ref. 16)

10-28-58

Laboratory data indicate that high-level Redox waste, upon contacting a soil, would have its sludge physically filtered from the solution in the first few centimeters of soil. The solution would then have to flow through the filter cake to enter the soil. As the permeability of the filter cake is about 10^4 lower than that of the soil, leaks tend to be self-sealing.

In the event of a leak from a high-level Redox waste tank, the course of events would be as follows:

- (1) Tank rupture or crack.
- (2) Movement of some waste liquid with suspended solids through the rupture.
- (3) Soaking and packing of soil immediately outside the rupture, possibly forming a small, irregularly shaped basin filled with waste.
- (4) Entry of waste liquid into soil pores, with sludge being filtered out by the first inch of soil.
- (5) Continued movement of waste solution through the rupture, through the filter cake, and into the soil, building up the filter cake rapidly until it fills the rupture in the tank wall.
- (6) Settling and packing of the filter cake until flow rate through it decreases to a very low value.

(Ref. 57)

NOTE: All of the tests were run using a simulated Redox waste which did not contain radionuclides.

January 1959

Tank SX-108 was filled with neutralized Redox Process Salt Waste. (Ref. 63)

April 1961

Analyses of the supernatant samples taken from SX-108 and other SX tanks during March 1961 were completed. Since the supernatant solutions at 25 °C contained approximately 50 volume percent crystallized solids, it was necessary to dilute samples, and compute the results as if the original samples had existed as solutions at 25 °C. The following analysis was obtained for SX-108:

Specific gravity	1.712	
Free NaOH	61.0 g/L	1.52 M
NO ₃ ⁻	505 g/L	
NO ₂ ⁻	20.6 g/L	
Cl ⁻	9 g/L	

SO ₄ ⁻⁻	1.1 g/L	0.0137 M
R ⁺⁺⁺ (prob Al ⁺⁺⁺)	46 g/L	
Na ⁺	242 g/L	
Gross beta	3.3 x 10 ⁶ μ Ci/gal	
Gross gamma	3.6 x 10 ⁶ μ Ci/gal	
Gamma scan	Cs-137: 3.5 x 10 ⁶ μ Ci/gal others not detectable	
Sr-90	6.8 x 10 ⁴ μ Ci/gal	
Np-237 (Ref. 11)	<1.5 x 10 ⁴ g/gal	

1962

Tank failed.. Bottom was bulged. (Ref. 38)

NOTE: This reference may be in error, for reasons discussed in Section 4.1 of the report. The bulged bottom was discovered in September 1967, after the tank had been removed from service and pumped down.

July 1962

Sludge samples were obtained in the SX-108 tank by rotary core drilling in a continuing program of waste characterization. In the SX-108 tank, the 14-inch thick sludge layer (remaining after reducing a 30-inch layer by water dissolution) consisted of relatively hard, but thin, top and bottom layers with softer center layer. Apparently only the top layer (2-3 inches) was sampled, with the harder material blocking entry of the softer material into the tube. (Ref. 10)

1962

Waste was stored in SX-108 until tank failure in 1962. On failure, supernatant liquor was pumped out of the tank and about 4 feet of sludge was left to dry out. An air exhauster keeps the tank cool so that temperatures within the sludge range from 160 °F to 220 °F a distance of 4 inches from the bottom of the tank, 125 °F to 180 °F at 21 inches from the bottom of the tank, and 117 °F to 142 °F at 38 inches from the bottom of the tank. (Ref. 15)

NOTE: This reference, which was written in 1976, may be in error for reasons discussed in Section 4.1 of the report. The tank was first observed to leak in August 1964, but was kept in service until March 1967. At that time the supernatant liquor was pumped out, and air cooling was later provided.

August 1962

A sample of the bottom 4-5 inches of sludge from the SX-108 tank was delivered to the laboratory for investigation. The sample was not crystalline but of a mastic nature. It was 40 to 50 percent soluble in hot water. An additional

TCRC-2

UNCLASSIFIED

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BNWL-CC-701

ING FILE

COPY NO.

DATE

June 13, 1966

PROJECT

BATTELLE-NORTHWEST

RICHLAND, WASHINGTON

TITLE

CHARACTERIZATION OF SUBSURFACE CONTAMINATION IN THE SX TANK FARM

AUTHOR

J. R. Raymond and E. G. Shdo

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SX168.1

TABLE I

Analysis of Waste from 108-SX Tank (12/15/65), Ci/gal.

Zr/Nb ⁹⁵	0.45
Cs ¹³⁷	7.22
Cs ¹³⁴	0.49
Ru ¹⁰⁶	12.5
Ce ¹⁴⁴ -Pr ¹⁴⁴	9.04

TABLE II

Analysis of Waste from 115-SX Tank (9/16/64)

Specific Gravity	1.28
NaOH	0.514 M
Cr ⁺⁶	1.42 g/l
Cs ¹³⁷	0.763 Ci/gal.
Cs ¹³⁴	0.0092 Ci/gal.

TCRC-1

JAN 1975

Date: September 16, 1974
To: R. L. Walser
From: R. E. Wheeler *R E Wheeler*
Subject: ANALYSIS OF TANK FARM SAMPLES
SAMPLE: T-4283 111-SX

Vis-OTR: Yellow, no solids. 180 mrad/hr
pH: > 13.2
SpG: 1.4836
OH: 1.47 M
Al: 0.805 M
Na: 8.05 M
NO₂: 0.836 M
NO₃: 4.72 M
Pu: $< 3.91 \times 10^{-6}$ g/l
DTA: No exotherm under 200°C, small exotherm ~230°C
SO₄: 6.01×10^{-2}
PO₄: 5.74×10^{-3} M
F: 1.40×10^{-2} M
CO₃: 0.168 M
GEA: ¹³⁴Cs - 5.83×10^3 μ Ci/gal
¹³⁷Cs - 1.20×10^6 μ Ci/gal
^{89,90}Sr: 1.33×10^2 μ Ci/gal
Water: 52.06%
Cooling Curve: 25°C for 30 min. No solids.
20°C for 60 min. Trace of solids.
15°C for 45 min. 2% solids.
10°C for 45 min. 4% solids.
5°C for 45 min. 8% solids.

REW:jd

cc: JS Buckingham
WR Christensen
RE Wheeler

TCRL-3

Date: September 12, 1975
To: W. R. Christensen
From: J. E. Horton *J. E. Horton*
Subject: ANALYSES OF SLUDGE AND LIQUID
SAMPLE FROM TANK 111-SX

Chemical Technology Laboratory received a sample from Tank 111-SX on August 1, 1975. Tank 111-SX is being considered as a receiving tank for 242-S evaporator slurry.

Separation of liquid from solids was made by centrifuging. The sludge solids were brownish-gray in color. The calculated heat generation rate for the 111-SX sludge, based on $^{89+90}\text{Sr}$ and ^{137}Cs content was 2.40×10^{-2} watts/liter sludge.

Sludge analyses were made by fusing three milliliters of "as received" sludge with KOH, dissolving the melt with concentrated hydrochloric acid, and diluting to a volume of 495 milliliters with water. Analyses are reported in Tables I and II.

If you have any questions regarding this work, please call me.

JEH:ms

Att.

cc: H Babad
JS Buckingham
RG Geier
DC Lini
WP Metz
RE Van der Cook
WJ Van Slyke
RL Walser
JC Womack
Process Aids (7)
CTL-122
File (2)
LB

TABLE I

ANALYSIS OF 111-SX SLUDGE (AS RECEIVED)

Bulk Density	1.45		
Particle Density	1.82		
%H ₂ O		33.8	
Al	8.4	moles/l	
Fe	0.4	moles/l	
Ca	0.1	moles/l	
Mn	0.05	moles/l	
Mg	0.03	moles/l	
NO ₂	<1.7	moles/l	
NO ₃	21.8	moles/l	
Si	0.01	moles/l	
PO	13.4	moles/l	
Pu	1.31 x 10 ⁻³	g/l	
⁸⁹⁺⁹⁰ Sr	3.38 x 10 ⁶	μCi/l	2.30 x 10 ⁻² watts/l
¹³⁷ Cs	2.15 x 10 ⁵	μCi/l	1.03 x 10 ⁻³ watts/l

TABLE II

ANALYSIS OF 111-SX SUPERNATANT LIQUID

SX 111.3

Density	1.21 g/cc	
H ₂ O		71.3%
NaAlO ₂	0.2 M	1.4%
NaNO ₂	0.3 M	1.7%
NaNO ₃	2.7 M	19.0%
NaOH	0.70 M	2.3%
Na ₂ CO ₃	0.14 M	1.2%
Na ₃ PO ₄	5.53 x 10 ⁻³ M	
Si	1.51 x 10 ⁻³ M	
Fe	<6.34 x 10 ⁻⁵ M	
Pu	<1.17 x 10 ⁻⁶	g/l
⁸⁹⁺⁹⁰ Sr	80.3	μCi/l
¹³⁷ Cs	1.59 x 10 ⁵	μCi/l
¹³⁴ Cs	5.92 x 10 ²	μCi/l

10/18/90 csk

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Date Clearance Required

10-19-90

Title LEAK TESTING OF THE 113-SX TANK

Lead Author Name

G.L. HANSON

Impact

Level 4

Phone

3-4225

MSIN

RI-49

Other Author(s) Name(s) Requestor

M.D. Britton

Project or Program

Tank Farms

Lead Org Code

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LEAK TESTING OF THE 113-SX TANK

by

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CHEMICAL PROCESSING DEPARTMENT

December 3, 1962

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INTRODUCTION

The 113-SX tank liner bottom bulged during 1958, shortly after self-concentrating waste was routed to the tank. Although the bulge receded several days later, the integrity of the tank was in doubt, and the boiling waste was pumped to another tank. The tank liner bottom bulged a second time after the contents were pumped out. This bulge also receded over a period of several days.

A prototype leak detection system, consisting of a caisson and five horizontal laterals extending radially from the caisson (see Figure 2) at an elevation 10 feet below the tank bottom, was installed during December, 1958(8,9,10). Periodic monitoring of the five horizontal laterals under the tank and the vertical test wells in the vicinity of the tank, from January, 1959, until August, 1962, failed to detect leakage from this tank. Furthermore, damage to the tank liner could not be determined by periscopic inspection. Since the above tests did not confirm prior leakage, it was believed that proof of the tank's integrity could only be obtained by adding liquid to the tank and observing any loss of volume over a reasonable period of time.

PURPOSE

The primary purpose of the test was to determine if the 113-SX tank would leak. In addition, if no leakage were found, re-use of the tank for storing dissolved sludge, rich in sodium nitrate, would be possible. It is planned to return this material to the Redox plant for use as a hydrogen suppressant during aluminum jacket dissolution.

SUMMARY AND CONCLUSIONS

Leak testing of the 113-SX tank was started on October 10, 1962, and was terminated on November 13, 1962. A leak, indicated by liquid level measurements, was confirmed by monitoring the horizontal laterals under the tank. The 113-SX tank contents were returned to the 114-SX tank on November 14 and 15, 1962, except for a heel of 9-3/16 inches (approximately 10,000 gallons, corrected for the 2-inch sludge level). Calculations show that approximately 15,000 gallons of solution containing 7800 curies of gamma activity (>99% Cs-137) were lost to the ground. The 113-SX tank is therefore considered unusable. The major portion of the leakage occurred after November 2, 1962, at a rate of 1200 - 1400 gallons per day. The leak test also proved the efficacy of the horizontal lateral leak detection system in confirming the presence of a leak.

DISCUSSION

The 113-SX tank is one of fifteen 1,000,000-gallon waste storage tanks constructed in the 241-SX tank farm during 1953 and 1954 (Project CA-539). The tanks have a reinforced concrete base, walls and domed roof. The cylindrical wall and dished bottom are lined with 3/8-inch carbon steel plate. The tank bottom has a radius of curvature of 569.59 feet, which forms a dish 15 inches deep. The dished bottom makes a T-joint connection with the cylindrical wall. The steel liner was used as the inside form for construction of the reinforced concrete wall.

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When the steel liner bottom bulged in May, 1958, the tank contents were emptied to another tank and storage of waste in this tank was discontinued. Recently, the re-use of this tank for storage of dissolved sludge was suggested. However, before re-use of this tank could be recommended, more positive proof of its integrity was required. It was believed that this could best be obtained by adding liquid to the tank and measuring the liquid level over a reasonable period of time. The following procedure was recommended for leak testing of the tank:

1. Install a Texas Instrument Company "Data Gage" liquid level measuring device in the tank. This instrument, which can measure liquid level to 1/16 inch, is capable of detecting a leak rate of 200 gallons in 24 hours⁽¹¹⁾. Since the tank already contains a steel-tape electrode liquid level measuring device, both will be used to determine the liquid level during the test.
2. After the "Data Gage" has been installed, pump 114-SX dissolved sludge solution to the 113-SX tank to a level of 32 inches (approximately 75,000 gallons); this will fill the tank 17 inches above the joint between the bottom side wall and eight inches above the first stiffener ring.
3. If close surveillance of the liquid level for a period of two weeks indicates no leak, pump an additional 48 inches of liquid (approximately 132,000 gallons) from 114-SX to 113-SX. This will bring the solution level 15 inches above the first horizontal weld in the wall.
4. If the liquid level measurements after two weeks at the 80-inch liquid level indicate no leak, fill the 113-SX tank to a level of 10 feet. If no leak is found after 4 weeks at the 10-foot liquid level, the 113-SX tank should be considered as acceptable for storage of non-boiling wastes. When the tank is put into service, routine monitoring of the laterals and vertical wells will be scheduled.
5. Should it be determined at any time during the test, that the tank leaks, the spare pump, located in the 241-SX Tank Farm will be installed and the tank contents returned to the 114-SX tank. This pump will leave a heel of approximately six inches in the 113-SX tank. Monitoring of the laterals and vertical wells will not be scheduled during the test unless the reliability of the liquid level measurements is questioned.

On October 10 and 11, 1962, a total of about 65,000 gallons of dissolved sludge waste was pumped from the 114-SX tank to the 113-SX tank. The solution transferred was at 168 F and had the following composition:

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NaNO_3	4.2 M
NaNO_2	0.1 M
NaOH	0.4 M
NaAlO_2	0.4 M
Gamma	0.52 curie/gallon (>99% Cs-137)
Plutonium	$<5 \times 10^{-7}$ grams/gallon
Uranium	$<2.3 \times 10^{-3}$ grams/gallon
Neptunium	$<3 \times 10^{-5}$ grams/gallon

Electrode measurements, corrected for the initial 2-inch sludge level present in the 113-SX tank indicated a volume of about 70,000 gallons received, or about 7 percent more than was sent. This discrepancy may have been caused by an uneven sludge layer, remaining bulges in the tank liner bottom, or error in absolute length of the electrode. Liquid level measurements in 113-SX during the period October 11, 1962, through October 29, 1962, indicated a volume decrease of approximately 2800 gallons. Proof of whether the tank did or did not leak was inconclusive since 1100 - 1200 gallons of this volume decrease was attributed to cooling the solution from 168 F to 107 F and the measured volume remaining in the 113-SX tank was greater than that initially transferred from the 114-SX tank.

The second stage of the test, filling of the 113-SX tank to the 80-inch level, was started on October 30, 1962, and completed on November 2, 1962. An additional 143,000 gallons were added from the 114-SX tank to increase the 113-SX volume to 204,000 gallons, corrected for initial sludge level. The total volume added from the 114-SX tank in the two transfers was about 208,000 gallons. A leak was indicated when the liquid level of the 113-SX tank decreased 2-9/16 inches (7000 gallons) in five days by November 7, 1962 (see Figure 1). A pump was installed to transfer the remaining solution back to the 114-SX tank and the horizontal laterals beneath 113-SX were monitored. When gamma activity up to 7500 counts per minute was detected in the center lateral, leakage from the tank was conclusively proven (see Figure 2). The test solution was transferred back to the 114-SX tank except for a heel of about 10,000 gallons which remains in the 113-SX tank.

The volume of solution lost to ground during the test after correcting for temperature has been calculated to be approximately 15,000 gallons containing 7800 curies of gamma activity (>99% Cs-137).

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TABLE I

Analysis of Waste from 108-SX Tank (12/15/65), Ci/gal.

Zr/Nb ⁹⁵	0.45
Cs ¹³⁷	7.22
Cs ¹³⁴	0.49
Ru ¹⁰⁶	12.5
Ce ¹⁴⁴ -Pr ¹⁴⁴	9.04

TABLE II

Analysis of Waste from 115-SX Tank (9/16/64)

Specific Gravity	1.28
NaOH	0.514 M
Cr ⁺⁶	1.42 g/l
Cs ¹³⁷	0.763 Ci/gal.
Cs ¹³⁴	0.0092 Ci/gal.

TCRC-2

Date: April 22, 1975
To: W. R. Christensen
From: J. E. Horton *J.E. Horton*
Subject: ANALYSIS OF TANK 115-SX SLUDGE SAMPLE

A sludge sample from Tank 115-SX was received on March 10, 1975. The sludge sample from 115-SX tank was dark brown in color and quite dry. The concentration of $^{89+90}\text{Sr}$ in the "as received" sludge was 48.0 Ci/liter. The calculated heat generation rate for the 115-SX sludge, based on $^{89+90}\text{Sr}$, was 0.326 watts/liter and based on ^{137}Cs was 3.38×10^{-4} watts/liter.

Sludge analyses were made by fusing 1.1 milliliters of sludge "as received" with KOH, dissolving the melt in Con HCL, and diluting to 390 milliliters with water. The analyses are reported in Table I.

Please call me if you have any questions on this work.

JEH:ms

cc: H Babad
JS Buckingham
RG Geier
NL Harms
WP Metz
NC Rodewald
RE Van der Cook
RL Walser
CTL-111
CTL-123
File
LB

TABLE I

ANALYSIS OF 115-SX TANK "AS RECEIVED"

"As Received Density"	0.55				
Particle Density	2.48				
% H ₂ O			4.4		
Al	3.15	moles/l			
Fe	1.64	moles/l			
Mg	<0.2	moles/l			
Mn	0.40	moles/l			
Ca	0.34	moles/l			
NO ₂	0.08	moles/l			
PO ₄	<0.19	moles/l			
Si	0.6	moles/l			
Na	1.92	moles/l			
Pu	0.196	grams/l			
⁸⁹⁺⁹⁰ Sr	4.79 x 10 ⁷	μCi/l	0.326	watts/l	
¹³⁷ Cs	7.05 x 10 ⁴	μCi/l	3.38 x 10 ⁻⁴	watts/l	
¹³⁴ Cs	4.11 x 10 ⁴	μCi/l	4.23 x 10 ⁻⁴	watts/l	
⁶⁰ Co	3.19 x 10 ⁴	μCi/l	4.91 x 10 ⁻⁴	watts/l	
¹²⁵ Sb	4.22 x 10 ⁵	μCi/l	1.62 x 10 ⁻³	watts/l	
¹⁵⁴ Eu	9.25 x 10 ⁴	μCi/l	8.42 x 10 ⁻⁴	watts/l	

SX TANK FARM

241-SX-101

Photo date: 3-10-89

241-SX-102

Photo date: 1-7-88

241-SX-103

Photo date: 12-17-87

103-SX
LL 352.5"
7800101

241-SX-104

Photo date: 9-8-88

104-SX
5-5-88

104-SX
1-14-88

104-SX
2-14-84

104-SX
356.3"
4-21-78

104-SX
LL 359.6"
4-7-78

104-SX
LL 358.3"
3-20-78
7802914

241-SX-105

Photo date: 6-15-88

105-SX
11.358.6"
10-19-77
7710613

241-SX-106

Photo date: 6-1-89

241-SX-107

Photo date: 3-6-87

241-SX-108

Photo date: 1-6-87

241-SX-109

Photo date: 5-21-86

241-SX-110

Photo date 2-20-87

241-SX-111

Photo date: 3-10-87

241-SX-112

Photo date: 3-10-87

241-SX-113

Photo date: 3-18-88

241-SX-114

Photo date: 2-26-87

241-SX-115

Photo date: 3-31-88

J-1

" "

241-SX-102 Unknown Transfers

J-10

J-13

J-15

J-17

J-18

J-19

J-20

J-21

241-SX-111 Cumulative Unknowns

J-23

241-SX-112 Cumulative Unknowns

J-26

J-29

J-30

K-1

[illegible]

Tank	Year	Qtr	Meas. Solids	Solids Change	Predicted Layer	Layer Type	Waste Volume (K Gal)
SX-105	1955	2	0	86			961
	1957	3	15				
	1965	2	43	-43	43	R	
	1966	4		21			913
	1968	2	55	-9	12	Rll	
	1969	1	59				
	1969	3	58				
	1970	2	68				
	1970	3	66				
	1974	2	66				
	1974	4	37				
	1975	1	73	18	18	RSltCk	
	1975	3	263				
	1975	4	464				
	1976	1	491				
	1976	4	480				
	1977	1	739				
	1978	3	741				
	1980	3	673				
	1993	2	683	610	610	S1SltCk	
SX-106	1954	1	0				
	1967	2					15
	1969	1					100
	1969	3	1				
	1972	1	1	1	1	unk	
	1975	1	9	8			
	1975	4	26	20			
	1976	4	29				
	1977	1	373				
	1978	1	150				
	1978	4	87	58	86	S1SltCk	
	1980	4	477				
	1993	2	477	390	390	S2SltSlry	

Tank	Year	Qtr	Meas. Solids	Solids Change	Predicted Layer	Layer Type	Waste Volume (K Gal)
SX-107	1956	2	0				
	1956	2		136			1525
				-59	77	RI	
	1958	3	2				
	1960	1				RII	1045
	1965	2	13				
	1967	4	101	24	24	RII	
	1968	2	98				
	1968	3	146	45			
	1968	4	147				
	1969	1	136				
	1969	2	135				
	1969	4	134				
	1970	2	131				
	1971	4	110	-36			
	1974	4	109				
	1993	2	104	-6	3	unk	
SX-108	1955	4		139			1564
				-51	88	RI	
	1958	3	3				
	1962	3		27	27	RII	1175
	1967	4	120	5			
	1968	2	130				
	1968	3	126				
	1969	1	145				
	1969	2	143				
	1969	4	142				
	1974	4	87				
	1993	2	115	-5			

Tank	Year	Qtr	Meas. Solids	Solids Change	Predicted Layer	Layer Type	Waste Volume (K Gal)
SX-109	1955	3		89	89	RI	1000
	1961	4		16	16	RII	712
	1965	2	68				
	1967	4	164	59			
	1968	2	180				
	1968	3	186				
	1968	4	187				
	1969	1	191				
	1969	2	187				
	1969	3	178				
	1969	4	176				
	1970	2	194				
	1970	3	193				
	1970	4	189				
	1972	2	35				
	1972	3	189				
	1974	1	257				
	1993	2	250	86	145	unk	
SX-110	1960	4		16		RII	714
	1965	2	51				
	1965	4		21		RII	910
	1967	4	32	-5	32	RII	
	1968	2	58				
	1968	3	50				
	1968	4	42				
	1969	2	8				
	1969	4	24				
	1970	2	32				
	1979	4	62				
	1993	2	62	30	30	UNK	

Tank	Year	Qtr	Meas. Solids	Solids Change	Predicted Layer	Layer Type	Waste Volume (K Gal)
SX-111	1956	2		86	43	RI	963
	1958	3	29	-43			
	1959	1	0				
	1965	2	24				
	1967	4	84	41	41	RII	1809
	1968	2	102				
	1968	3	88				
	1969	1	90				
	1969	3	72				
	1969	4	77				
	1974	2	83				
	1974	3	128				
	1974	4	125				
	1993	2	125	41	41	UNK	
SX-112	1956	1	0	89			1001
	1958	3	48	-41	48	RI	
	1960	3	0				
	1965	2		33		RII	1446
	1965	2	73	-8	25	RII	
	1967	4	43				
	1968	2	58				
	1968	3	54				
	1968	4	46				
	1969	1	39				
	1969	2	42				
	1969	3	35				
	1974	3	112				
	1974	4	106				
	1993	2	92	19	19	UNK	

Derived from LANL Waste Status and Transaction Record Summary V2.0b (Agnew 1994)

Tank	Year	Qtr	Meas. Solids	Solids Change	Predicted Layer	Layer Type	Waste Volume (K Gal)
SX-113	1958	1		43		RI	487
	1965	2	3				
	1969	4	2	-41			
	1972	1					24
	1973	4	2				
	1974	1	0				
	1974	3	2		2	R	
	1976	2	6	4	4	DE	
	1977	4	10		4	UNK	
	1993	2	26	20	16	UNK	
SX-114	1956	4		156			1749
	1958	3	1				
	1963	4		-145	11	RI	
	1964	1		37	37	RII	1587
	1965	2	21				
	1967	4	57	9			
	1968	2	127				
	1968	3	84				
	1968	4	80	23			
	1969	2	183				
	1969	3	204				
	1971	2	200				
	1993	2	181	101	133	UNK	
SX-115	1958	3		87		RI	981
	1965	2	3				
	1969	3	6				
	1974	3	8				
	1976	2	6	-81	6	RI	
	1976	3	10				
	1993	2	12	6	6	UNK	