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DWPF DEVELOPMENT PLAN

by

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DWPF DEVELOPMENT PLAN

SAVANNAH RIVER TECHNOLOGY CENTER
DEFENSE WASTE PROCESSING TECHNOLOGY

Approved by:

E. W. Holtzscheiter

J. F. Ortaldo

May 9, 1994

DWPF DEVELOPMENT PLAN

Introduction

The DWPF Development Plan is based on an evaluation of the DWPF process flowsheet and related waste management systems¹. The scope is shown in Figure 1 entitled "DWPF Process Development Systems". To identify the critical development efforts, each system has been analyzed to determine:

- (1) The identification of unresolved technology issues. A technology issue (TI) is one that requires basic development to resolve a previously unknown process or equipment problem and is managed via the Technology Assurance Program co-chaired by DWPF and SRTC.
- (2) Areas that require further work to sufficiently define the process basis or technical operating envelop for DWPF. This activity involves the application of sound engineering and development principles to define the scope of work required to complete the technical data.
- (3) The identification of the level of effort and expertise required to provide process technical consultation during the start-up and demonstration of this first of a kind plant.

Once the scope of work has been identified for each system an assessment is made to determine which DWPF Start-Up test is supported by the development effort. If it does not tie directly to a DWPF Start-up Test but would lead to an improved process, it would likely slip beyond the DWPF start-up date. This approach allows us to more effectively manage the limited resource pool available to perform the work. Scope of work detail has been developed through 12/95 and is part of the Annual Operating Plan (AOP).

This planning document contains the following information:

- I. DWPF Level 1 Schedule
SRTC development is tied to key start-up testing in the DWPF Level 1 Schedule. The SRTC Level 2 schedule provides a sufficient level of detail to ensure good communications with DWPF on status of development efforts. The detailed, Level 3 schedule includes non-DWPF commitments but, in DWPF scope, is limited to work required to support the DWPF Radioactive Start-Up date.
- II. Summary of Development by System as described in Figure 1.
Each of the DWPF systems is briefly described in this section and the general scope of development required to support radioactive start-up is shown by example.
- III. Summary of the DWPF Start-up Test Plan including SRTC participation.
The DWPF start-up plan is summarized to show key test objectives which provide the natural link to many of the development efforts included in the SRTC-DWPF Integrated Development Schedule.

- IV. Technology Assurance Program - Technology Issue Management
This is a program that ensures the multi-disciplined approach to resolution of technology issues important to DWPF Radioactive Start-up. Via this program, teams including DWPF, SRTC, and technical consultants are assembled to most effectively determine the best approach to TI resolution. The approach and status of the TIs are reviewed in a joint DWPF/SRTC monthly meeting.
- V. SRTC WBS 1.06 Descriptive Sections of the AOP
The Annual Operating Plan summarizes both programmatic plans and funding requirements. This plan is formatted programmatically rather than by DWPF system.
- VI. SRTC-DWPT Integrated Schedule
Both the Level 2 and the Level 3 schedules are shown in this section. DWPF tracks programs by the Level 2 schedule and the Performance Indicators which highlight particularly significant milestone ties to the DWPF Level 1 Schedule. The Level 3 schedule is a very dynamic schedule and is shown in Attachment 2 as an example of an internal SRTC development management tool. The Level 3 schedule changes weekly to accommodate emerging work, to develop "work arounds", or to monitor changes in experimental efforts based on knowledge gained by previous steps in an experiment.

Attachments:

- I. Outline of the technical content of the SRTC-DWPT Five Year Development Plan including DWPF Start-Up Test Program Ties
This outline is a convenient tool to show both DWPF priority and match development efforts to DWPF start-up tests. Most of the titles used on this outline are self-explanatory to technical groups in both SRTC and DWPF.
- II. An example of SRTC working Level 3 Schedule is shown to indicate the level of detail addressed in the development schedules.

¹ The Start-Up Test Plan incorporates a similar process systems approach.

SYSTEMS APPROACH TO DWPf PROCESS DEVELOPMENT PLANNING

FIGURE 1

SYSTEMS APPROACH TO DWPf PROCESS DEVELOPMENT PLANNING

FIGURE 1

I. DWPF Schedule

Rev. May 9, 1994

I. DWPF Level 1 Schedule

(Prepared by Donie Johnson and Sam Budenstein)

I. DWPF Level 1 Schedule

Attached is the 3/31/94 DWPF level 1 schedule. Several SRTC (DWPT) programs tie to the DWPF critical path, and are also covered in Sections II, V, VI and VII.

Specifically, :

FA-13

Prepare and utilize TNX for the receipt, testing, and sampling of glass canisters, and then characterize those samples (this process runs throughout the waste qualification and mercury runs as well).

WP-14 through WP-16 (Waste Qualification Runs)

Issue PCCS version 3.0 and enhance durability algorithms, and establish method to determine non-radioactive cesium in recovered organic, both by WP-14. Also, resolve Melter Feed Tank mixing, sampling and feeding issues.

WP-17 (Mercury Run)

Issue process requirements (materials of construction, mercury purification and storage, melter feed preparation, analytical facilities, product storage, transfer facility, salt processing cell, and HVAC). Also issue mercury pump and recovery/Mercury Water Wash Tank final report, and HEME/HEPA dissolution technical bases.

Ready for Radioactive Operations

Issue radiological analytical methods, issue final report on batch 1 and 'new' batch 1 demonstrations in the Shielded Cells, upgrade the Shielded Cells for glass sample characterization, issue final report on enameled canister coupon characterization, issue document on glass waste storage building heat transfer model, and issue final report on demonstration of ammonium scrubbers in IDMS runs. Volumes 2,4,5,7 and 9 of the Waste Qualification Report will be generated and updated to incorporate start-up test results and hot run data.

Late Wash

Validate pilot and bench-scale test demonstration of the technical bases by operating the Late Wash Facility Demonstration Unit (LWFDU)

04 12 94 08 35 0303 641 113

ONE SR OEA

SRTC (DWPT) 1994 Performance Indicators for DWPF (Rev.1)

<u>Due Date</u>	<u>Description</u>	<u>DWPF Schedule #</u>	<u>PMICS Id</u>
1/94	*Issue KTPB precipitate simulant stability scoping report *Complete IDMS PX6 run		311009399
2/94			
3/94	*Issue redox level recommendations *Develop rad. analytical methods	TX 4006200 DN 2655016	314006200 314001100
4/94	Issue PHA Concentrate Matix for Rad Ops	TX 2003484	312003484
5/94	Complete canister receipt/testing preparation Complete Hg P&S PRs *Issue effects of NMP on melter report *Issue initial DWPF feed demo. report Generate Waste Qualification Report vol. 4 draft	TX 2010149 DN 2655018 DN 2667518 DN 2665403	314008700 312010149 314006300 314006350 314007310
6/94	Issue Cu(NO3)2 tech. basis	0115	312003800
7/94	Complete MFP PRs Complete GWSB PRs Complete Mat Con PRs Issue new batch 1 analyses report Issue IDMS melter flushing evaluation	TX 2010119 TX 2010139 TX 2010179 DN 2655032	312010119 312010139 312010179 314008440 311010125
8/94	Complete LPPP PRs Issue NH3 scrubber demo. initial report Issue HEME/HEPA dissolution tech. basis Issue procedure to det. non-rad Cs in recovered organic Issue demo. batch 1 in HLC final report	TX 2010129 TX 1009500 TX 2009100 TX 3002100 TX 4006150	312010129 311009500 312009100 313002100 314006150
9/94	Complete SPC PRs	TX 2010109	312010109
10/94	Complete Analyt PRs Issue Mercury Water Wash Tank final report	TX 2010169 TX 1009150	312010169 311009150
11/94	Issue NH3 scrubber demo. final report Issue PCCS v3.0	TX 1009570 TX 3004500	311009570 313004500
12/94	Complete HVAC PRs	TX 2010182	312010182

* Completed

II. Development by System

SYSTEMS APPROACH TO DWPF PROCESS DEVELOPMENT PLANNING

FIGURE 1

Revision 4
4/11/94

II. Summary of Development By System (Figure 1)

Prepared by Bill Holtzscheiter)

Extended Sludge Processing(ESP)/In-Tank Precipitation(ITP)

To ensure that the ESP and ITP processes successfully interface with the DWPF, the operating conditions of each process are assessed, a flowsheet is developed that interfaces with the DWPF flowsheet, and all chemical additions (e.g. impact of corrosion inhibitors) are evaluated. This effort is primarily aimed at ensuring the production of a glass product that meets all long term storage constraints by establishing an accurate characterization of the feed to the DWPF. Also evaluated are other constraints that might occur in the Tank Farm or Waste Removal Programs that could be alleviated by changes to feed composition (e.g. washing end points affect overall tank farm water balance). This evaluation takes any changes in composition through each step of the DWPF process as shown in Figure 1 and determines behavior of the processes as well as any impact on the final glass product. Development work associated with these programs beyond process interfaces is the responsibility of Interim Waste Technology in SRTC.

Late Wash Process

The Late Wash Facility (LWF) was designed to provide a final wash to the ITP tetraphenyl borate precipitate prior to feeding the material to the DWPF Salt Processing Cell. The objective of the Late Wash process is to substantially reduce the organic radiolysis products by a dilution factor of at least four (≤ 200 MRad absorbed dose) and to reduce the level of nitrite to $\leq 0.01M$. The process provides for a re-precipitation of the cesium that has been released by radiolysis in the ITP Tank 49 during an estimated two year work off rate. For key process parameters, the Late Wash Process provides the DWPF Salt Cell a consistent feed in spite of variations in ITP composition due to corrosion inhibitor additions. The key development area is the demonstration of the process in the Late Wash Filter Demonstration Unit (LWFDU). The LWFDU is a $1/20$ - th scale pilot unit which replicates the plant process. The flowsheet to be demonstrated is described in the "DWPF Late Wash Facility Technical Bases"². Some additional bench scale unit operations work and laboratory process chemistry will complement the LWFDU by assisting in experimental design of the pilot tests. This work will be performed with irradiated precipitate and expected levels of mercury.

²"DWPF Late Wash Facility Technical Bases", WSRC-RP-92-793 (rev.3), February 1994, L. F. Landon.

DWPF Salt Processing Cell -Precipitate Hydrolysis and the Precipitate Reactor Bottoms Tank (PRBT)

The DWPF Salt Processing Cell (SPC) receives the precipitate from the Late Wash Facility and reacts it with formic acid in the presence of copper catalyst to yield an organic stream (predominately benzene) and the Precipitate Hydrolysis Aqueous Product (PHA). This process has undergone numerous changes through the years to accommodate the addition of nitrite inhibitor to the precipitate storage tank in ITP. With the acceptance of the Late Wash Process, the process was simplified, a change that has required complete verification. The development program includes the demonstration of irradiated precipitate with mercury from LWFDU through the Precipitate Hydrolysis Experimental Facility (PHEF), demonstration with radioactive precipitate in the SRTC Shielded Cells through the manufacture of actual radioactive glass. Pilot, bench, and radioactive testing is required in this effort. Technical areas pursued include refinement of flammability control, kinetics of the hydrolysis, reduction of copper requirements, ammonia precursors, cleaning of the processing equipment, ensuring intermediate product quality, and cesium DFs.

Consolidated Incinerator

The organic fraction from the Salt Processing Cell (SPC) is stored in the Organic Waste Storage Tank until it is fed to the Consolidated Incinerator. From a DWPF process perspective, all process changes to the SPC must meet the CIF mercury constraints. Development of the actual CIF is the responsibility of the Interim Waste Technology Section in SRTC.

DWPF Chemical Processing Cell -SRAT, SME, MFT, Off-Gas Treatment

The DWPF Chemical Processing Cell (CPC) is the part of the process where all the waste and glass forming constituents are blended and verified prior to being fed to the glass melter. The key chemistry occurs in the Slurry Receipt and Adjustment Tank (SRAT); the sludge is fed from ESP to the SRAT, the acid adjustment is made with nitric acid; then the PHA is fed based on guidance from the composition control algorithms in the Product Composition Control System (PCCS). The tank is boiled during processing to allow a steam stripping of mercury (reduced by formic acid in the PHA) and a concentration of the solids. The SRAT contents are transferred to the Slurry Mix Evaporator (SME) where frit (glass formers) is added, also based on the control algorithms in the PCCS. The SME is the glass control hold point in the process. If remediation is required, it must be accomplished prior to transfer to the Melter Feed Tank (MFT). Because any up stream process changes can potentially impact the CPC, a significant level of development and process demonstrations is in progress to solidify the technical bases. The key development areas include baseline pilot demonstrations of the Late

Wash Nitric Acid Flowsheet with all expected DWPF batch compositions, ammonia scrubber performance, consequences of even small ammonia deposition, organic accumulation and removal, Batch 1 demonstration at current ESP inhibitor alkali levels, demonstration of the boundaries of the product quality algorithms, homogeneity of material in the SME and MFT, melter feed composition, process sampling, etc.

DWPF Melter and Off-Gas Treatment System

The DWPF melter is a ceramic joule heated melter which is expected to have at least a 2 year operating life with nominal operating utilities and feed compositions. The SRTC Integrated DWPF Melter System (IDMS) includes a 1/9-th Scale DWPF Melter which initiated operation in late 1988. It has been operating with noble metals in the sludge feed since 1990 and is nearing the end of design life. Although Batch 1 has a low noble metals concentration, it must be tested to evaluate the current ESP washing end points established to minimize water additions to the Tank Farm. All aspects of melter performance and operation are a part of this development effort. Samples are taken from the melter bottom and evaluated for insoluble residues; plans for a first attempt at melter repair have been made, performance of melter off-gas equipment materials of construction is monitored and improved, key process control parameters are tested, glass quality is tested, testing of future DWPF batches, etc.

In addition, since there is a reasonable probability that the existing development melter cannot be repaired, a program was initiated to install and test a next generation "stirred" melter which is expected to be repairable, maintain through-put with a smaller melter, and reduce the impact of insolubles deposition. Although this is an equipment optimization effort for DWPF, it is expected to be critical to the SRTC ability to continue to operate the DWPF chemical processing pilot units due to noble metals deposition in the existing melter. Operation of the pilot units, as noted above, is essential to completion of testing of future DWPF batching strategies.

Waste Acceptance Specifications and Compliance

This effort takes the many years of development and process demonstration accumulated in the specification of the DWPF final glass waste form and documents the technical basis required to ensure that the product will meet repository requirements. This work includes the development of algorithms that correlate viscosity, liquidus, and durability to chemical composition of the glass as well as numerous parametric glass chemistry experimental studies to define limits of solubility for various constituents. This work includes demonstration of the reliability of the glass performance algorithms with both non-radioactive simulants and radioactive glasses, the development of glass durability analytical techniques, support of DWPF by

performing radioactive glass analyses during operation, the characterizing of each batch of DWPF feed and demonstration that the reference frit and process parameters make acceptable glass with each feed batch. The specific development efforts are specified in the DWPF Waste Compliance Plan.

Canister specification, welding and performance is also included in this general area.

Analytical Methods

The DWPF process is a one of a kind, first of a kind process with only the mid-seventies SRS waste characterization efforts to use as a basis for analytical chemistry methods to be used for process evaluation and control. Organic analysis methods required with incorporation of the ITP had no precedent. Analytical methods are developed by the SRTC Analytical Development Section which both develops analytical methods as well as provides radioactive analytical support for R&D activities. The methods are initially developed on non-radioactive simulants and then translated to actual radioactive samples. In many cases the analysis of radioactive samples may require significant dilution which adds both difficulty and sources of error. Once the methods are developed, they are tested in the Non-radioactive DWPT Laboratory at TNX supporting the DWPF process pilot units. These tests are designed to simulate as closely as possible the production environment, but do not duplicate remote operation. The key development areas include improvement of methods to reduce analytical time and reduce waste, demonstration under dilutions required for radioactive samples, analysis of very low levels of non-radioactive cesium, analysis of mercury matrices, organic radiolytic decomposition products, etc.

Process and Glass Quality Control

The DWPF does not have the ability to rework glass once it has been poured into a glass canister. To achieve a very high degree of certainty that glass will meet the durability requirement, a Product Composition Control System (PCCS) has been developed by SRTC. The PCCS is a multivariant statistical process control program that considers errors introduced by laboratory analyses, process measurements, and the control algorithms in order to provide appropriate direction to the process for a proper mix of sludge, PHA, and frit to ensure that glass liquidus, viscosity, and durability are in the statistically defined acceptable envelop. Key development areas include PCCS enhancements [durability algorithm based on the Product Consistency Test (PCT), pH correction, key waste component limits (e.g. aluminum, alkali metals)], statistical process control and operator interface refinements, testing and demonstration in the pilot units, computer hardware upgrade, and DWPF PCCS test support and follow-up. Specific enhancements required for Waste Qualification Runs are in progress (PCCS version 3).

Process Support and Troubleshooting

Until DWPF has completed the Cold Chemical and Qualification Runs, the only available DWPF operating experience comes from the operation of the SRTC pilot units. To ensure that this experience is properly available to the DWPF, SRTC provides on shift technical support during all first of a kind tests and upon any DWPF special request. Since SRTC was not staffed to provide this support, continuity of pilot testing cannot be maintained when the pilot engineers are supporting DWPF testing.

III. DWPF START-UP TEST PLAN

III. Summary of the DWPF Startup Test Plan

The DWPF has developed an extensive Startup Test Program Plan which details the organization, responsibilities, and process for accomplishing the required tests prior to and during Cold Chemical Runs and Waste Qualification Runs. The test program is detailed and described in the DWPF Expanded Test Index. Each test part has a Test Plan (written by the DWPF cognizant engineering organization), a Test Procedure (prepared by the Startup organization), and a Test Results Report (also prepared by Startup).

Where appropriate, SRTC personnel (primarily from DWPT) are assigned as resources for tests listed in the Expanded Test Index. The SRTC resources have provided initial input to the cognizant engineers for preparation of the Test Plans. As Test Plans and Test Procedures are prepared for review, they are transmitted to the SRTC representatives on Technical Working Group (TWG). M. J. Plodinec is the SRTC representative on the TWG with J. R. Harbour and R. A. Jacobs qualified as alternates. The final review and acceptance of the Test Plans and Procedures is the responsibility of the DWPF Joint Test Group (JTG). E. W. Holtzscheiter is the SRTC member of the JTG.

Westinghouse
Savannah River Company

INTER-OFFICE MEMORANDUM

SRTC-PTD-94-0036
Revision 0

cc: E. F. Duhn, 773-A
M. J. Plodinec, 773-A
J. R. Harbour, 773-43A
C. T. Randall, 704-1T
D. A. Crowley, 704-1T
L. F. Landon, 704-T
T. J. French, 730-A
R. C. Tuckfield, 773-42A
SRTC Resource List
SRTC-PTD File

April 12, 1994

To: E. W. Holtzscheiter, 773-A

From: R. A. Jacobs, 704-1T

SRTC RESOURCE PERSONNEL FOR STARTUP TESTING (U)

Numerous SRTC personnel (primarily from DWPT, but also from other SRTC sections) are actively involved in supporting DWPT startup testing. Involvement of these personnel includes review and input to the Test Plans, Test Procedures, and Test Results Reports. As drafts of these documents are distributed to Technical Working Group (TWG) members (John Plodinec with John Harbour and Roy Jacobs as alternates), they are reviewed and/ or passed along to the appropriate listed resources for review and comment.

The attached test index was previously distributed to the resources in SRTC-PTD-90-0001 and is updated to include changes in SRTC resource personnel and in test descriptions based on a draft of Revision 12 of the Expanded Test Index.

NOTE: In most cases, as summary description of each test (e.g., FA-01) no longer exists. Except where noted by an asterisk, I have summarized the descriptions of the test sub-parts (e.g., FA-01.01 through FA-01.07). When noted with an asterisk, the description is verbatim from the Expanded Test Index.

Three categories of Tests are identified in this index:

- FA** Facility Acceptance tests in which systems will be tested against predetermined Acceptance Criteria,
- WP** Waste Acceptance and Process test with the primary aim of proving process or product acceptability,
- VN** Verification of Normal Operation tests which prove or document the acceptability of a system to function using standard Operating Procedures.

DWPF-FA-01

Test Engineer(s)
SRTC Resource(s):
Objective:

Wall Shielding Integrity

T. Knox

N. E. Bibler, D. C. Beam

Verify that biological shielding will provide adequate protection in the 221-S Vitrification Facility and for canister transfer and storage; perform functional checking (alarms, interlocks, horns, lights, etc) of radiation monitor interlocked shielded doors, pressure/airlocks, and emergency exit doors.

DWPF-FA-02

Test Engineer(s)
SRTC Resource(s):
Objective:

HVAC Testing

R. Nyland, J. Barbour, J. Riddick, D. Sinkola

A. S. Choi

Perform various chilled water balances (Control Room, Analytical Facility, Central HVAC), HVAC response to loss of offsite power; verify HVAC system pressure and flow control during expected abnormal conditions; verify HEPA and Sand Filter testing; verify the final air balance.

DWPF-FA-03

Test Engineer(s)
SRTC Resource(s):
Objective:

Emergency Power Supply Testing

G. Barugh, J. Nazdam, C. Raiford

None.

Demonstrate operation of the diesel generators (DG) manually and with loss of offsite power; test uninterruptable powers supplies; demonstrate proper operation of the DG control circuits and response on loss of offsite power.

DWPF-FA-04

Test Engineer(s)
SRTC Resource(s):
Objective:

Process Erosion/Corrosion Study

J. Rumsy, V. Tobin

D. F. Bickford, C. F. Jenkins (EES)

Record baseline data for designated tanks, lines, and equipment and install coupon racks. Inspect equipment and tanks and record and analyze data from inspections following the high viscosity feed test (WP-16) and following the Hg feed test (WP-17).

DWPF-FA-05

Test Engineer(s)
SRTC Resource(s):
Objective:

Melter Erosion Study

J. Keith

F. M. Heckendorn (EES), M. E. Smith

Demonstrate operability of melter inspection devices and record baseline data. Inspect melter after cold runs; record and analyze data and compare to baseline; verify top head components are remotable and inspect selected components for erosion/corrosion.

DWPF-FA-06	Automation Software Function Testing (Canceled by JTG)
DWPF-FA-07	Integrated Distributed Control System Test
Test Engineer(s)	J. Nazdam
SRTC Resource(s):	None.
Objective:	Perform DCS reliability testing under varying highway loads and determine DCS hardware availability; demonstrate DCS pinch-off functions; and collect DCS baseline (hardware) over an extended operating period.
DWPF-FA-08	Integrated Operation with Water
Test Engineer(s)	V. Buch, D. Sustaita, R. Payne, V. Tobin
SRTC Resource(s):	R. A. Jacobs
Objective:	Verify control logic, demonstrate operability, record baseline data, and evaluate performance (under load) of the cooling tower system, process cooling water system, process chilled water system, process steam/condensate system, emergency cooling water system, and process water system.
DWPF-FA-09	HEME/HEPA Dissolution Test
Test Engineer(s)	J. Riddick
SRTC Resource(s):	C. A. Nash, Z. Qurehsi (HTL)
Objective:	* Verify that HEME/HEPA filter elements can be dissolved in the DWTT.
DWPF-FA-10	Melter Feed Startup With Simulated Feed
Test Engineer(s)	R. Kane, P. Ryan
SRTC Resource(s):	N. D. Hutson, D. H. Miller, G. L. Gill
Objective:	Demonstrate both melter feed loops with water and simulated feed; verify MFT control logic including both feed loops; demonstrate MFT homogeneity, cooling coil heat transfer, and feed pump/sample pump priming at low tank levels.
DWPF-FA-11	Melter Startup
Test Engineer(s)	J. Keith, B. Butler, D. Hutsell
SRTC Resource(s):	M. E. Smith
Objective:	Heat up startup frit in melter incrementally using resistance heaters (dome, riser, pour spout, Zone 1 drain); energize lower electrodes when temperature permits; begin feed from MFT and add upper electrodes
DWPF-FA-12	Inner Canister Closure, Repair and Leak Testing
Test Engineer(s)	J. Riddick, D. Hutsell
SRTC Resource(s):	J. R. Harbour, D. T. Herman, K. M. Rehberger (EES)
Objective:	Perform functional check of ICC leak test and repair process; document in TRR SRTC leak testing of canisters produced during cold runs.

DWPF-FA-13

Test Engineer(s)
SRTC Resource(s):

Melter Characterization with Composite Feed

R. Payne

Shift Pilot Engineer

Key Technical Consultants: C. M. Jantzen and W. G. Ramsey (glass quality), K. G. Brown (process control), G. L. Gill (sampling/mixing), M. E. Smith (melter), F. G. Smith (modeling/mixing)

Objective:

- * Initial operation of the Melter with composite feed to gain melter operating experience and to purge the melter of startup frit in preparation for subsequent waste form qualification testing. This test will also provide an opportunity to sample and collect data to begin characterization of melter performance. Determine the effect, on Melter performance, of skewing electrode temperature, and loss of one, two, or three sets of dome heaters, while maintaining bulk glass temperature and dome heater temperature.

DWPF-WP-14

Test Engineer(s)
SRTC Resource(s):

Melter Characterization with Doped Feed

R. Payne

Shift Pilot Engineer

Key Technical Consultants: C. M. Jantzen and W. G. Ramsey (glass quality), K. G. Brown (process control), F. G. Smith (modeling/mixing)

Objective:

- * Operation of the Melter using a composite feed doped with neodymium oxide (Nd_2O_3), used to determine melter mixing behavior. This test is the first of four waste form qualification runs in which data is collected to support the DWPF Glass Product Control Program (GPCP) and verify that the DWPF product will meet Waste Acceptance Product Specifications (WAPS). Also collect baseline data for the chemical and precipitate processes per Test Plans FA-35, FA-36, and FA-37.

DWPF-WP-15

Test Engineer(s)
SRTC Resource(s):

Melter Characterization with Low Viscosity Glass

R. Payne

Shift Pilot Engineer

Key Technical Consultants: C. M. Jantzen and W. G. Ramsey (glass quality), K. G. Brown (process control), F. G. Smith (modeling/mixing)

Objective:

- * Operation of the Melter using a composite feed which has been formulated to produce a glass with viscosity near the low end of the DWPF design range (representing the highest iron containing waste expected at DWPF). Sampling of glass and data collection will continue to determine melter mixing behavior. Operations will continue to gain operating experience and the Laboratory sampling and analysis experience. Collect data on the chemical and precipitate processes per Test Plans FA-35, FA-36, and FA-37 and demonstrate trim chemical addition to the SME per Test Plan FA-36.

DWPF-WP-16

Test Engineer(s)
SRTC Resource(s):

Melter Characterization with High Viscosity Glass

R. Payne

Shift Pilot Engineer

Key Technical Consultants: C. M. Jantzen and W. G. Ramsey (glass quality), K. G. Brown (process control), F. G. Smith (modeling/mixing)

- Objective:** * Operation of the Melter using a composite feed which has been formulated to produce a glass with viscosity near the high end of the DWPF design range (representing the highest aluminum containing waste expected at DWPF). Sampling of glass and data collection will continue to determine melter mixing behavior. Operations will continue to gain operating experience and the Laboratory sampling and analysis experience. Collect data on the chemical and precipitate processes per Test Plans FA-35, FA-36, and FA-37.
- DWPF-WP-17**
Test Engineer(s)
SRTC Resource(s):
- Melter Characterization with Mercury in Initial Feed**
R. Payne
Shift Pilot Engineer
Key Technical Consultants: C. M. Jantzen and W. G. Ramsey (glass quality), K. G. Brown (process control), F. G. Smith (modeling/mixing), R. E. Eibling (Hg chemistry), N. D. Hutson (Hg recovery)
- Objective:** * Operation of the Melter using feed which has been formulated to simulate the first washed sludge batch to be received from the tank farm with a reference level of mercury. This will afford DWPF the opportunity to demonstrate mercury recovery from the sludge and to evaluate the performance of DWPF materials of construction in the presence of mercury and mercury halides. Sampling of glass and data collection will continue to determine melter mixing behavior. Operations will continue to gain operating experience and the Laboratory sampling and analysis experience. Collect data on the chemical and precipitate processes per Test Plans FA-35, FA-36, and FA-37, to include hydrogen flammability mitigation systems at hot run basis flow rates for the SRAT and SME (FA-35 and FA-36), FAVC and SCVC temperature control (FA-30) and mercury/diphenylmercury content of organic product to meet limits (FA-37).
- DWPF-FA-18**
Test Engineer(s)
SRTC Resource(s):
- Melter Characterization with Radioactive Spike**
R. Payne
Shift Pilot Engineer
Key Technical Consultants: C. M. Jantzen and W. G. Ramsey (glass quality), K. G. Brown (process control), F. G. Smith (modeling/mixing), J. R. Zamecnik (DFs)
- Objective:** * Verify normal melter operation with a composite feed containing a radioactive Cesium component. Provide the feed necessary to produce 20 filled simulated waste canisters for sampling and analysis of glass, as well as providing the medium necessary for the determination of the melter off-gas decontamination factor. In addition, glass and feed compositions, glass durability, canister testing data, and other data will be collected as required for Waste Acceptance Product Specifications (WAPS). Demonstrate normal operation and baseline data collection for the chemical and precipitate processes per the requirements of FA-30, FA-35, FA-36, and FA-37 Test Plans. Demonstrate radiation DF for the SRAT, FAVC, SME and precipitate hydrolysis process per the requirements of FA-35, FA-36, and FA-37 Test Plans.

- DWPF-WP-19**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Remote Process Sampling Test**
M. Simons
G. L. Gill, E. K. Hansen, C. P. Reeve (ATS)
* Verify the adequacy of the Remote Process Sampling System for the PRBT, SRAT, SME and MFT. This will be accomplished by taking local samples in conjunction with process (remote) samples to verify the following: 1) the homogeneity of the tank contents, 2) the accuracy and precision values of the remote sampling system, 3) the accuracy and precision values of the analytical methods used to measure the essential chemical constituents in the four vessels.
- DWPF-FA-20**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Transition to Radioactive Operation**
R. Payne, T. Knox
Shift Pilot Engineer
R. A. Jacobs, N. E. Bibler
Provide for transition from operation with simulated feeds to operation with fully radioactive feeds; perform random shielding surveys; determine precision and accuracy of radionuclide inventory methods; check closed loop systems radiation detection and isolation.
- DWPF-WP-21**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Canister Free Volume**
D. Hutsell
J. R. Harbour, D. T. Herman
Test calibration of canister gamma level detection (pour and drain turntables) and neutron level detection (pour turntable) as well as operation of canister weight cell. Document SRTC check of canister levels (from six canisters produced during FA-13 through WP-17) versus recorded gamma glass level. Test gamma level detection during radioactive operation.
- DWPF-WP-22**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Canister Free Liquid and Pressure Test Plan**
D. Hutsell
J. R. Harbour, D. T. Herman
* TRR only - SRTC will determine the internal gas pressure, the relative humidity, and the gas composition for six canisters filled during FA-13, WP-14, WP-15, WP-16, and WP-17.
- DWPF-WP-23**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Canister Temperature Profile Measurement**
D. Hutsell
B. J. Hardy
Measure canister temperature profile during filling and cooldown on the drain turntable during WP-15 and on the pour turntable during WP-17; measure canister temperature profile while cooling in the Insulated Canister Storage Rack during WP-16; test temperature response and indication to a heat source in the GWSB.
- DWPF-WP-24**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Canister Welding Parametric Study**
D. Hutsell, T. Knox
J. R. Harbour, C. E. Sessions (Special Processes),
D. D. Alexander (EES)
Determine the range of welder force, current, and time which produce acceptable welds and repair welds. Document SRTC testing of production welds on designated canisters produced during FA-13

through WP-17; verify all welds tested meet leak test criteria; collect data on all welds to certify welding equipment.

DWPF-VN-25

Test Engineer(s)
SRTC Resource(s):
Objective:

Canister Handling and Decontamination Factors

D. Hutsell, T. Knox, R. Poulus
C. R. Ward (EES)

Verify canister decon chamber logic and operation; demonstrate canister decontamination support systems and canister handling systems; verify operation of the decon cell and weld test cell smear test stations; perform smear testing during radioactive operations; demonstrate frit slurry makeup (60wt %) and handling; verify pour and drain turntable logic; document SRTC canister inspection for oxide layer removal and verification that deconning does not damage canisters (performed during FA-13 through WP-17).

DWPF-VN-26

Test Engineer(s)
SRTC Resource(s):
Objective:

Main Process Cell Crane & Controls

D. Woodhouse, C. Raiford
None.

Demonstrate MPC crane movement and functionality including controls and CCTV at each operator console; demonstrate MPC crane retrieval system; perform MPC crane shielding survey.

DWPF-VN-27

Test Engineer(s)
SRTC Resource(s):
Objective:

DWTT and Waste Transfer Facilities

R. Kane, R. Poulus, H. Mober, V. Tobin
None.

Perform DWTT and RCT water runs checkout; perform DWTT feed systems logic testing and transfer systems; demonstrate operability of formic acid waste header system and hot decon waste header system; demonstrate operation of RCT and associated transfer equipment for waste transfer to H-Area.

DWPF-VN-28

Test Engineer(s)
SRTC Resource(s):
Objective:

Chemical Waste Treatment & Catch Tanks

R. Kane, D. Sustaita, V. Navarro, V. Buch, M. Collins
R. E. Eibling

Demonstrate operability of chemical waste treatment and catch tanks in support of water runs; demonstrate proper operation of the Floor Drain Catch Tank system; demonstrate ability to meet NPDES discharge requirements (including pH adjustment and temperature control); demonstrate operability of Regulated Drain and Organic Acid Drain collection systems, effluent monitoring system swirl cell, nitric acid/day tank, caustic mix tank, acid waste hold tank, caustic neutralization tanks, and organic acid waste neutralization.

DWPF-VN-29

Test Engineer(s)
SRTC Resource(s):
Objective:

Cold Chemical Feeds

M. Jenkins, R. Fadeley
J. C. Marek

Perform functionality test of bulk gas systems; functional test of surveillance requirements (TRR only); TRR on transfer operations.

DWPF-FA-30

Test Engineer(s)
SRTC Resource(s):
Objective:

Process Vessel Vent System

T. Knox, D. Hutsell

R. A. Jacobs, D. H. Miller

Demonstrate and document functionality for normal operation using operating procedures; verify capacity of exhausters, obtain baseline operating data, check operation of control systems, etc. Verify PVVS operational response under various operating conditions during cold runs.

DWPF-VN-31

Test Engineer(s)
SRTC Resource(s):
Objective:

Canister Transport and Storage

D. Hutsell, T. Knox

D. T. Herman

Demonstrate canister movement from the Vitrification Building to the GWSB and verify proper operation of the Shielded Canister Transporter controls, camera viewing, etc. Verify canister fit in all regular storage locations, floor plug fit; verify SCT camera viewing and demonstrate plug grapple pin emergency release operation. Document SRTC measurements of canister dimensions and weight after filling during FA-13 through WP-17.

DWPF-VN-32

Test Engineer(s)
SRTC Resource(s):
Objective:

Melter Electrical and Instrumentation

T. Gettle, B. Butler, J. Keith, R. Binns, C. Raiford

M. E. Smith, D. H. Miller

Verify melter electrical system, instruments, control and support systems; obtain electrical measurements from temporary instruments during initial melter heatup; perform low power checkout; demonstrate melter local temperature indication; verify control logic of melter rise and pour spout heaters, drain valve zone heaters, dome heaters, and electrodes.

DWPF-FA-33

Test Engineer(s)
SRTC Resource(s):
Objective:

Welder Systems

D. Hutsell, T. Knox, D. Caldwell

J. R. Harbour

Demonstrate functionality individual welder systems including electrical, ICC press, canister trolley, data acquisition, CCTV's, and nitrogen and cooling water systems. Demonstrate integrated production weld and repair weld operation; demonstrate welder systems remotability; verify operability of 13.8 kv switchgear.

DWPF-VN-34

Test Engineer(s)
SRTC Resource(s):
Objective:

Compressed Air Systems

R. Payne, D. Sustaita, J. Yahn

None.

Demonstrate normal operations of instrument/plant air and breathing air systems; verify ability of Fan House Accumulator to maintain minimum header pressure requirements and minimum pressure after isolation from air supply header.

DWPF-FA-35

Test Engineer(s)
SRTC Resource(s):
Objective:

SRAT Operation

D. Burk, G. Matis, T. Knox, H. Sawyer

N. D. Hutson, J. R. Zamecnik, C. W. Hsu, M. A. Baich

Demonstrate initial operation with water; demonstrate operability with simulated feed; perform logic testing of SRAT, PRBT, and SMECT and their support systems; demonstrate operation of mobile Hg pump

and MWWT Hg pump with water; demonstrate accuracy of Holledge isolated bubbler measurement system for SRAT, SME, MFT, PR, and PRFT with water; demonstrate proper operation of H2 mods for cold runs; perform SRAT operations to prepare feed in support of FA-13.01.

DWPF-FA-36

Test Engineer(s)

SRTC Resource(s):

Objective:

SME Operation

J. Rumsy, G. Matis, D. Burk

N. D. Hutson, J. R. Zamecnik, G. L. Gill

Demonstrate operability of SME process with water; demonstrate operability with simulated feed; perform SME operations to prepare feed in support of FA-13.01.

DWPF-FA-37

Test Engineer(s)

SRTC Resource(s):

Objective:

Precipitate Process Operation

R. Payne, M. Simons, C. Poppell, D. Sustaita, D. Hutsell, T. Knox, M. Jenkins, D. Burk

D. P. Lambert, H. Shah, J. C. Marek, R. E. Eibling

Demonstrate initial operation of precipitate process and associate equipment with water; demonstrate operability with simulated feed including operation of gas analyzers and transfers between OECT and OWS; demonstrate operability of CO2 primary and backup supplies; perform logic testing of PR, PRFT, OE, OECT, SPC sump pump, gas analyzers, and OWS operability and logic; demonstrate operability of automatic procedures using water; perform precipitate process operations to prepare feed in support of FA-13.01.

DWPF-FA-38

Test Engineer(s)

SRTC Resource(s):

Objective:

Off-gas System

G. Jacks, W. Odom, B. Butler, T. Knox, R. Binns, J. Riddick

D. H. Miller, A. S. Choi

Demonstrate and document melter off-gas and backup off-gas operation during cold melter operations; determine off-gas system decontamination factor with non-radioactive Cs in the system; perform off-gas system switchover cold operational test; test system recovery from loss of power; demonstrate and document proper off-gas and backup off-gas operation during melter heatup and pour conditions; logic test melter off-gas and backup off-gas systems; perform off-gas and backup off-gas film cooler brushing testing; test condensate tank receipt and transfer; test remotability of HEME replacement; verify HEPA DOP testing and remotability; test off-gas system recovery from loss of power with melter hot; determine off-gas system DF with radioactive Cs in process (FA-18); demonstrate condensate tank sampling; test logic of condensate tank pumps, off-gas system valves, SASs, HEMEs, exhausters; demonstrate operability and/or performance of off-gas and backup off-gas systems.

DWPF-WP-39

Test Engineer(s)

SRTC Resource(s):

Objective:

Glass Sampling Test Test Plan

D. Hutsell

B. J. Hardy, M. K. Andrews

Document SRTC demonstration of ability to sample pour glass stream during FA-13.01 and sample radioactive pour glass stream during WP-17.01 [sic]; demonstrate remote operability of the pour spout glass sampling system.

- DWPF-VN-40**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Process Information Management System**
K. Dernetz
K. G. Brown
Test PIMS lab data applications, batch applications, and canister applications.
- DWPF-VN-41**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Fire Protection Systems**
R. Fadeley, K. Dernetz
None.
Tests various fire protection systems required for cold feeds and cold chemical runs; tests project S-4620 systems such as door #3, the fire protection panel, and zone fire protection.
- DWPF-FA-42**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Glass Removal from Canister Test Plan**
V. Tobin
R. F. Schumacher
* Demonstration of remote glass removal from test coupons installed in the mockup facility. Demonstration of remote operation of the needle gun in the melt cell.
- DWPF-FA-43**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Melter Drain Valve Testing Test Plan**
J. Keith
M. E. Smith
Demonstrate melter drain valve with low viscosity glass, high viscosity glass, and with Hg in the feed.
- DWPF-FA-44**
Test Engineer(s)
SRTC Resource(s):
Objective:
- FOS, Labs, Control Rooms, & Computer Rooms HVAC**
J. Barbour
None.
Perform temperature surveys of the primary control rooms, FOS's, laboratories, computer rooms, and in the canyon during melter operation.
- DWPF-VN-45**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Electrical System Distribution Test**
K. Dixon, H. Rentschler, G. Barugh
None.
Verify proper operation of various 13.8 kv switchgear, 480 v load centers, and 125 v DC system.
- DWPF-FA-46**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Interarea Transfer Facilities**
P. Ryan, V. Navarro
None.
Demonstrate operability of recycle cell, sludge cell, and precipitate cell; demonstrate operability of PVV system and maintenance and service area ventilation; demonstrate cell remotability; verify leak detection boxes functional; demonstrate operability of FOS room HVAC.
- DWPF-FA-47**
Test Engineer(s)
SRTC Resource(s):
Objective:
- Hydrogen and Ammonia Mitigation Modifications**
K. Dernetz, T. Knox
L. F. Landon, D. P. Lambert
* Demonstrate proper operation of the CPC purge air compressors, N2 vaporizers, and associated controls. Demonstrate proper operation of

the NH₃ scrubbers, scrubber liquid components, and associated SMECT support systems. Demonstrate proper operation of the PVV system as modified for H₂ and NH₃ removal from CPC vessels. Obtain baseline data during processing with simulated feed for system modified to remove H₂ and NH₃ and for their support systems.

SRTC RESOURCE PERSONNEL FOR STARTUP TESTING (U)

DISTRIBUTION

SRTC RESOURCE LIST:

<u>NAME</u>	<u>LOCATION</u>	<u>RESOURCE FOR TEST NUMBER(S)</u>
D. D. Alexander	723-A	WP-24
M. K. Andrews	773-A	WP-39
D. C. Beam	773-A	FA-01
N. E. Bibler	773-A	FA-01, FA-20
D. F. Bickford	773-A	FA-04
J. R. Harbour	773-43A	FA-12, WP-21, WP-22, WP-24, FA-33
B. J. Hardy	773-41A	WP-23, WP-39
F. M. Heckendorn	773-A	FA-05
D. T. Herman	773-41A	FA-12, WP-21, WP-22, VN-31
C. M. Jantzen	773-A	FA-13, WP-14, WP-15, WP-16, WP-17, FA-18
C. F. Jenkins	730-A	FA-04
Z. Qurehsi	786-5A	FA-09
W. G. Ramsey	773-A	FA-13, WP-14, WP-15, WP-16, WP-17, FA-18
C. P. Reeve	773-42A	WP-19
K. M. Rehberger	732-A	FA-12
R. F. Schumacher	773-41A	FA-42
C. E. Sessions	730-A	WP-24
C. R. Ward	773-A	VN-25
M. A. Baich	704-T	FA-35
K. G. Brown	704-1T	FA-13, WP-14, WP-15, WP-16, WP-17, FA-18, VN-40
A. S. Choi	704-1T	FA-02, FA-38
R. E. Eibling	704-T	WP-17, VN-28, FA-37
G. L. Gill	704-1T	FA-10, FA-13, WP-19, FA-36
E. K. Hansen	676-15T	WP-19
C. W. Hsu	704-1T	FA-35
N. D. Hutson	704-1T	FA-10, WP-17, FA-35, FA-36
R. A. Jacobs	704-T	FA-08, FA-20, FA-30
D. P. Lambert	704-1T	FA-37, FA-47
L. F. Landon	704-T	FA-47
J. C. Marek	704-T	VN-29, FA-37
D. H. Miller	704-1T	FA-10, FA-30, VN-32, FA-38
C. A. Nash	676-15T	FA-09
H. Shah	704-1T	FA-37
M. E. Smith	704-1T	FA-05, FA-11, FA-13, VN-32, FA-43
F. G. Smith	704-1T	FA-13, WP-14, WP-15, WP-16, WP-17, FA-18
J. R. Zamecnik	704-1T	FA-18, FA-35, FA-36

IV. Technology Issue Management

4/12/94

IV Technology Assurance Program - Technology Issue Management

The DWPF Project Technology Assurance Program is a formal program with documented operating guidelines [SRL-PMC-92-0008, DWPF Project Technology Assurance Program Guidelines]. This Technology Assurance Program was established to first assure resolution of all technology issues that affect the DWPF design, constructability, startup, initial regulatory compliance, initial product and byproduct acceptance and minimum operability and attainment requirements. This Phase of the program will be complete when successful operation with radioactive precipitate and sludge has been achieved. The second Phase of the program addresses technology requirements and issues for continued and improved DWPF operation.

The direction for the program is provided by the TAP Committee. The TAP committee is composed of members from DWPF Engineering, Operations, Project Management and QA; SRTC (primarily members of the Defense Waste Processing Technology (DWPT) section) and the Waste Compliance Branch of DOE. The members are chosen to provide a broad range of technical and managerial expertise. This ensures that the impacts of the work and proposed solutions are integrated with the DWPF design, schedule and planned mode of operation. At a higher level, the issues in TAP Program are being incorporated into the HLW Technical Oversight Steering Team (TOST) integrated issues list and the co-chairmen of TAP are standing members of TOST.

The functions of the committee are to:

- Designate concerns or work to be done as a Technology Issue.
- Assign TI priority.
- Designate TI Coordinators and Team Members
- Approve program steps and schedule for resolution of the TI's
- Review the status of TI's at a monthly meeting
- Approve closure of the TI's.

The TI Coordinators for most of the open Technology Issues are members of DWPT. For these issues, the Technology Issue programs are included in the DWPT Integrated Schedule and are also included in the AOP. In general, the DWPT work on Technology Issues will be requested via a Technical Task Request from DWPF.

Both the Open and Closed Technology Issue write-ups are maintained in WSRC-TR-90-104 "DWPF Project Technology Assurance Program". A listing of the Open and Closed Technology Issues, which are grouped into 26 TAP Categories or Sections is provided in Table IV-1. A brief description of each of the Open Technology Issues grouped into the Systems defined for DWPF Development Planning in Section II follows.

ESP

There are no open DWPF Technology Issues for this system.

ITP

Technology Issue 1.3 "Monosodium Titanate Requirement for In-Tank Precipitation"

This issue was designed to address the dual requirements on the amount of monosodium titanate - to precipitate Sr-90 to meet Saltstone limits and not exceed the Ti limit in the DWPF glass product. The required amount has been established. The remaining work on this issue is to establish that a vendor can make sufficient Monosodium Titanate that meets SRS specifications.

LWF

Technology Issue 26.2 Late Wash Verification and Process Optimization"

This issue encompasses bench scale, engineering scale and prototypic testing in the LWFDU. Construction of the LWFDU at SRS is scheduled to be complete in June and then the unit will be shipped to USC for conducting the tests. The parametric tests will initially characterize performance of the Mott filter. The tests will also determine the mode and frequency for backpulsing and filter cleaning.

Technology Issue 24.1 " Assessment of Nuclear Safety and Nuclear
Criticality Potential in the DWPF "

Work on criticality for sludge only operation has been completed and documented. Recent tests have provided the basis for modeling radioactive operations in both the Late Wash Facility and the Salt Processing Cell.

Precipitate Hydrolysis Reactor

Technology Issue 3.5 " Impact of Irradiation on Precipitate Acid
Hydrolysis Process"

The impact of irradiation on precipitate has been determined by analyzing the composition of simulant irradiated in the SRTC Cobalt Well. This irradiated simulant has been run through the hydrolysis process in the Laboratory Scale Hydrolysis Reactor. The reference process has also been demonstrated using actual plant waste in the High Level Caves. The remaining work is to document the tests.

Technology Issue 3.6 Cleaning Technology for Precipitate
Hydrolysis
Vessels"

A recommended method for cleaning has been identified. The method has been demonstrated in IDMS for unirradiated material. The effect of irradiation on deposits and testing the recommended method is planned. The TI also addresses disposal of the cleaning solutions for both cold chemical runs and hot operation in DWPF.

Technology Issue 3.7 "Control of Ammonium in DWPF Feed
Preparation Process"

The Late Wash-Nitric Acid Flowsheet was developed to reduce the generation of the ammonium ion. This TI now is focused on the IDMS program to validate the design basis for operation of the ammonia scrubbers, which will reduce the ammonia entering the vessel vent system.

Technology Issue 24.1 "Assessment of Nuclear Safety and Nuclear
Criticality Potential in the DWPF "
[See write-up above]

Technology Issue 25.1 " Material Evaluation and Corrosion Control:
Process Vessels, Permanent Piping, DWPF
Recycle, Cathodic Protection of Buried Pipe

This issue addresses material selection for components in the DWPF. Micro-Biologically Induced Corrosion was addressed. The remaining work is on evaluating coupons and components in IDMS and assessing IDMS experience as an indicator of DWPF experience based on Cold Chemical Runs.

Organics to CIF

Technology Issue 19.2 " CIF Alternatives "

As a contingency two alternative process were evaluated. Neither is being pursued at this time because the CIF is expected to be available to process the benzene from the Precipitate Hydrolysis Process. This issue is due to be closed.

PR (PHA) Bottoms Tank

Technology Issue 4.25 "Impact of Layup on DWPF Feed Properties

The impact of extended layup periods on Melter Feed, Precipitate Feed and Precipitate Hydrolysis will be determined by monitoring simulants. Tests include monitoring rheological properties, particle size distribution and solids. The buildup of radiolysis products will also be modeled.

SRAT

Technology Issue 4.2 "Behavior of Mercury in the FAVC"

This program is to determine the thermodynamic and reentrainment characteristics of mercury in the Formic Acid Vent Condenser. Measurements were made in the IDMS. The data are being evaluated to determine the performance of the FAVC/HEME to reduce mercury emissions.

Technology Issue 4.4 "Fate of Organics Introduced into the Chemical Process Cell

Late Wash was recommended to reduce non-polar organics. The remaining work is to demonstrate operation with Late Wash simulant in PHEF and IDMS in run PX-7.

Technology Issue 4.10 "Level Measurements - Diaphragm Alternatives"

Bubbler designs are to be bench scale tested in the Thermal Fluids Lab at SRTC. A prototype bubbler will be selected from these tests and tested in IDMS.

Technology Issue 4.12 "RAT Coil Fouling"

The initial objective to determine if the coils foul during successive SRAT runs was completed using bench scale tests. No fouling was observed. The scope of the issue is being expanded to include cleaning of fouled coils. This cleaning work will address criticality issues.

Technology Issue 4.16 "Solids Carryover in the SRAT/SME"

The Program Steps to complete this issue are being reevaluated. It is expected that some effort will focus on a fundamental understanding of foaming. In addition tests will be designed to model the expected boilup rates and freeboard in DWPF.

Technology Issue 4.22 "CPC Vent Cleaning"

This issue addresses the rate of buildup of organics and ammonium nitrate in the vessel vent; the maximum allowed buildup, which determines a cleaning frequency; methods to clean the Vessel Vent and methods to dispose of the cleaning solution.

Technology Issue 4.23 "Chemical Process Cell Analyzers"

This issue addresses solutions to problems that have plagued operation of the gas chromatographs (GC's) during DWPF cold chemical runs. Areas covered include a redesign of the GC's, a redesign of the sampling system and revised logic in the GC software.

Technology Issue 4.24 "Transfer and Sample Pump Operability Testing"

DWPF transfer and sample pumps are to be installed in the full scale SRAT/SME at TNX. Tests will then be run to determine contributing factors to the priming water line blockage and to determine the minimum tank level at which transfer and sample pumps will maintain prime.

Technology Issue 4.25 "Impact of Layup on DWPF Feed Properties"
[See write-up above]

Technology Issue 10.1 "DWPF HEME/HEPA Dissolution"

Bench scale work has been used to extend the results of earlier tests. Based on the latest bench scale results, large scale testing has been initiated in the Thermal Fluid Laboratory.

Technology Issue 23.1 "Recycle Waste Minimization and Alternative Disposition"

Recent work by the DWPF Recycle Minimization Task Team addressed the Program Steps in this issue and recommended a path forward on implementation. Based on this work the TI is being closed.

Technology Issue 24.1 "Assessment of Nuclear Safety and Nuclear Criticality Potential in the DWPF"
[See write-up above]

SME

Technology Issue 4.16 "Solids Carryover in the SRAT/SME"
[See write-up above]

Technology Issue 4.22 "CPC Vent Cleaning "
[See write-up above]

Technology Issue 4.23 "Chemical Process Cell Analyzers "
[See write-up above]

Technology Issue 4.25 "Impact of Layup on DWPF Feed Properties"
[See write-up above]

MFT

Technology Issue 4.22 "CPC Vent Cleaning"
[See write-up above].

Technology Issue 4.23 "Chemical Process Cell Analyzers"
[See write-up above]

Technology Issue 4.25 "Impact of Layup on DWPF Feed Properties"
[See write-up above]

Technology Issue 17.5 "Melter Feed Tank Slurry Homogeneity"

The original objectives of this issue were met by testing at TNX. In light of problems encountered during Cold chemical runs, the scope of the testing is being expanded. The additional work is expected to include test runs in DWPF as well as at TNX.

Melter

Technology Issue 6.2 "Melter Chemistry: Organics, Cold Cap Behavior Redox Reactions, Noble Metal Behavior

The remaining Program Steps are to reassess cold cap chemistry and to assess the Redox of melter feed produced during DWPF integrated Cold Runs. Work has been completed on glass analysis methods, preliminary Redox control and the effect of sulfide and noble metals.

Technology Issue 8.4 "137Cs spike Introduction for DWPF FA-18"

This issue addresses the source, form and method of introduction of a 137Cs spike to allow confirmation of the decontamination factor associated with the off gas treatment system.

Technology Issue 23.1 "Recycle Waste Minimization and Alternative Disposition"
[See write-up above]

Technology Issue 24.1 "Assessment of Nuclear Safety and Nuclear
Criticality Potential in the DWPF "
[See write-up above]

PCCS and PIMS

Technology Issue 17.3 "Statistical Process Control"

This issue focuses on the development of the Product Composition Control System. Version 3 is now being developed for Waste Qualification runs. Version 4 is planned for radioactive operations in DWPF.

Technology Issue 17.4 "Measurement Control Program"

This TI addresses the Quality Control and Quality Assurance requirements for sample analyses to be performed for DWPF operation. The last Program Step - Develop and implement an Analytical cross-check program - will complete this issue.

WAPS

Technology Issue 17.1 " Product Acceptance"

This issue addresses the preparation of the initial versions of Volumes 1 through 12 of the Waste Form Qualification Report which is a comprehensive and defensible documentation that the DWPF product meets DOE's waste acceptance specifications.

Section IV Table of Open DWPF TAP Technology Issues

SECTION 1 :	Tank Farm
T.I. 1.3	Monosodium Titanate Requirement for In Tank Precipitation
SECTION 2 :	Pump Pits
	None
SECTION 3 :	Precipitate Hydrolysis
T.I. 3.5	Impact of Irradiation on Precipitate Acid Hydrolysis Process
T.I. 3.6	Cleaning Technology for Precipitate Hydrolysis Vessels
T.I. 3.7	Control of Ammonium in DWPF Feed Preparation Process
SECTION 4 :	Feed System
T.I. 4.2	Behavior of Mercury in the FAVC
T.I. 4.4	Fate of Organics Introduced into the Chemical Process Cell (CPC)
T.I. 4.10	Level Measurement - Diaphragm Alternatives
T.I. 4.12	Sludge Receipt and Adjustment Tank (SRAT) and Slurry Mix Evaporator(SME) Coil Fouling
T.I. 4.16	Solids Carryover in the SRAT/SME
T.I. 4.22	CPC Vent Cleaning
T.I. 4.23	Chemical Process Cell Analyzers
T.I. 4.24	Transfer and Sample Pump Operability
T.I. 4.25	Impact of Layup on DWPF Feed Properties
SECTION 5 :	Melter
	None
SECTION 6 :	Melter Processes
T.I. 6.2	Melter Chemistry
SECTION 7 :	Melter Drain Valve
	None
SECTION 8 :	Melter Off-Gas System
T.I. 8.4	137 Cs Spike Introduction For DWPF FA-18
SECTION 9 :	Melter Cooling System
	None
SECTION 10 :	Decontamination Waste Treatment Tank
T.I. 10.1	DWPF HEME/HEPA Dissolution
SECTION 11 :	Inner Canister Closure (ICC)
	None
SECTION 12 :	Welder
	None
SECTION 13 :	Canister
	None
SECTION 14 :	Mercury Purification
T.I. 14.1	Mercury Water Wash Tank
SECTION 15 :	Seals and Gaskets
	None
SECTION 16 :	Pour Spout Bellows
	None
SECTION 17 :	Analytical
T.I. 17.1	DWPF Product Acceptance
T.I. 17.3	Statistical Process Control

- T.I. 17.4 Measurement Control Program
- T.I. 17.5 Melter Feed Tank Slurry Homogeneity
- SECTION 18 : Mockup
 - None
- SECTION 19 : Organic Waste
 - T.I. 19.2 CIF Alternatives
- SECTION 20 : Saltstone
 - None
- SECTION 21 : Long Term Development
 - None
- SECTION 22 : Essential Materials
 - None
- SECTION 23 : Recycle Waste
 - T.I. 23.1 Recycle Waste Minimization and Alternative Disposition
- SECTION 24 : Criticality
 - T.I. 24.1 Assessment of Nuclear Safety and Nuclear Criticality Potential in the DWPF
- SECTION 25 : Materials of Construction
 - T. I. 25.1 Materials Evaluation and Corrosion Control
- SECTION 26 : Late Wash
 - T. I. 26.2 Late Wash Verification and Process Optimization

Section IV Table of Closed DWPF TAP Technology Issues

- SECTION 1 : Tank Farm
 - T.I. 1.1 Reduction in the Quantity of Nitrite in Feed to Precipitate Hydrolysis
 - T.I. 1.2 Inhibition of Pitting Corrosion in Sludge Washing Tanks
 - T.I. 1.4 ESP Batch 1 Sludge Washing
- SECTION 2 : Pumps Pits
 - T.I. 2.1 Benzene Emission Control and Handling From Pump Pits
 - T.I. 2.2 Foaming of Precipitate in Pump Tanks
- SECTION 3 : Precipitate Hydrolysis
 - T.I. 3.1 Flammability of Off-Gases from Nitrite Destruction Technology
 - T.I. 3.2 Deposits in Precipitate Hydrolysis Process Vessels and Vents
 - T.I. 3.3 Organic Evaporator Agitation and pH Control
 - T.I. 3.4 Decanter Operation
- SECTION 4 : Feed System
 - T.I. 4.1 Pumping and Agitation in the CPC
 - T.I. 4.3 Total Mercury and Benzene Emissions from the DWPF
 - T.I. 4.5 Flushing Throughout the Feed System
 - T.I. 4.6 3-Way Valves in Melter Feed System
 - T.I. 4.7 Reliability of Pump Drives
 - T.I. 4.8 Feed System Interlocks
 - T.I. 4.9 Level Measurement - Diaphragm Bubblers
 - T.I. 4.11 Melter Feed Reconciliation
 - T.I. 4.13 CPC Vessel, Agitator and Coil Wear
 - T.I. 4.14 SRAT and SME Formic Acid Dip Tube
 - T.I. 4.15 CPC Formic Acid Requirements
 - T.I. 4.17 DWPF Pump Durability
 - T.I. 4.18 Transferring of 60 Wt% Glass Frit Slurry
 - T.I. 4.19 Benzene Flammability in the Vapor Space of the SRAT, PRBT and in the CPC Vent System
 - T.I. 4.20 Heat Transfer Requirement of the DWPF Formic Acid Vent Condenser (FAVC)
 - T.I. 4.21 Hydrogen Concern in the DWPF Chemical Process Cell Vessel Vent System
- SECTION 5 :
 - T.I. 5.1 Plugging of Pour Spout Vacuum Line
 - T.I. 5.2 Temperature Profile in Riser/Pour Spout
 - T.I. 5.3 Adequacy of Thermal Insulation at Top of Melter
 - T.I. 5.4 Sealing Gaps Between Dome Heaters and Refractory
 - T.I. 5.6 Pressurization of Melter During Normal Operating Conditions and Equipment Removal
 - T.I. 5.7 Melter Level Detection
- SECTION 6 : Melter Processes
 - T.I. 6.1 Design Melt Rate Demonstration
 - T.I. 6.3 Glass Sample Size and Handling
 - T.I. 6.5 Pour Spout Bellows Operability Test
- SECTION 7 : Melter Drain Valve
 - T.I. 7.1 Drain Valve Temperature Measurement

- T.I. 7.2 Drain Valve Inert Glass Plug
- T.I. 7.3 Drain Valve Failed Heater Scenario
- SECTION 8 : Melter Off-Gas System
 - T.I. 8.1 DWPF Off-Gas Sampling System
 - T.I. 8.2 Melter Off-Gas Line Pluggage
 - T.I. 8.3 Melter Off-Gas Velocity
- SECTION 9 : Melter Cooling System
 - T.I. 9.1 Restarting the Melter Cooling System
- SECTION 10 : Decontamination Waste Treatment Tank
 - None
- SECTION 11 : Inner Canister Closure
 - T.I. 11.1 ICC Plug Performance Demonstration
- SECTION 12 : Welder
 - T.I. 12.1 Welder - Pre-Weld Parameters
- SECTION 13 : Canister
 - T.I. 13.1 Waste Canister Identification Label
 - T.I. 13.2 Evacuated Canister System
 - T.I. 13.3 DWPF Canisters
- SECTION 14 : Mercury Purification
 - T.I. 14.2 Mercury Reuse
- SECTION 15 : Seals and Gaskets
 - T.I. 15.1 Seals and Gaskets
- SECTION 16 : Pour Spout Bellows
 - None
- SECTION 17 : Analytical
 - T.I. 17.2 Liquid Sampling Precision and Accuracy
 - T.I. 17.6 Determination of Benzene Assay in the Precipitate Reactor
- SECTION 18 : Mockup
 - T.I. 18.1 Master/Slave Manipulator Tool Development and Demonstrations
- SECTION 19 : Organic Waste
 - T.I. 19.1 Organic Waste Storage Regulations
- SECTION 20 : Saltstone
 - T.I. 20.1 Saltstone Grout Pump Seal Reliability
 - T.I. 20.2 Saltstone Off-Batch Processing
 - T.I. 20.3 Sample Schedule and Analytical Requirements for the Saltstone Facility
- SECTION 21 : Long Term Development
 - None
- SECTION 22 : Essential Materials
 - T.I. 22.1 Specifications for Essential Materials
- SECTION 23 : Recycle Waste
 - None
- SECTION 24 : Criticality
 - None
- SECTION 25 : Materials of Construction
 - None
- SECTION 26 : Late Wash
 - None

V. SRTC Annual Operating Plan
WBS 1.06
Summary Sections

V. SRTC WBS 1.06 Descriptive Section of the AOP
(Prepared by Sam Budenstein)

SRTC Vitrification Support for DWPF

Technical Scope Summary:

SRTC provides the vitrification technology for high level wastes, waste acceptance technology, technology and operations issue resolution for DWPF operations. The objectives of this support is to ensure safe startup and operations of DWPF, that the DWPF waste form will meet repository requirements, improve attainment, and improve both product quality and operation of DWPF. In coordination with other filter development and evaluation programs, SRTC is demonstrating and developing operating procedures for the Late Wash Facility.

SRTC demonstrates the vitrification technology using rigs ranging from 1/200th lab scale rigs to 1/10th scale Integrated DWPF Melter System (IDMS), Precipitate Hydrolysis Effluent Facility (PHEF), to the full scale Sludge Receipt Adjustment Tank (SRAT). Each Batch for DWPF will be characterized in the Shielded Cells at SRTC with samples taken from High Level Waste tanks, and demonstrated in lab-scale melters and at IDMS. This information will be used to identify pretreatment requirements and in formulating the appropriate mix to ensure waste acceptance. Emerging technology and operability issues requested by DWPF are controlled by the AOP, WADs, the Technology Assurance Program and the Task Technical Request/Task Assistance Request processes.

To provide product acceptance technology and demonstrate compliance with repository requirements, SRTC prepares and maintains the Waste Form Qualification Report (WQR) to meet the requirements of the Waste Acceptance Preliminary Specification (WAPS) and 10CFR60 and 40CFR191, 40CFR261.3.-4.

SRTC provides continued development and demonstration of the Product Composition Control System (PCCS) for DWPF for both technology issue resolution and current DWPF process modifications.

SRTC provides direct technical support for DWPF operating equipment and materials problems, analytical lab support, analytical methods development, on-shift advisory support during key startup tests and initial radioactive operations, preparation of DWPF Process Requirements, preparation of DWPF feed specifications, review and approval of DWPF test procedures, process flowsheet, HLW system integrated flowsheet modeling, and statistical support, support for oversight and review groups, and other technical support.

Technical Scope Detail:

Technology Assurance and Development

Provide DWPF technology for vitrification of high level wastes; resolve technology issues during CCR's and Radioactive Operations; demonstrate capability in lab-scale and pilot-scale to reproduce data at constant process operating parameters and conditions; and evaluate and develop process modifications to optimize process attainment, improve product quality, and enhance operational safety. Develop analytical methods for use at DWPF and in support waste acceptance activities. Support reviews by oversight and review groups.

Technology Demonstration (IDMS, PHEF, SRAT, LWFDU)

This includes design and analysis of experiments, operations and maintenance of IDMS, PHEF, lab-scale/small scale, and other engineering scale units, and radioactive demonstrations in the Shielded Cells. The IDMS melter will be rebuilt and demonstration runs performed. Use of irradiated feeds for LWFDU, PHEF, and IDMS will more closely replicate DWPF operation and should provide better insight to the operation of DWPF. Late Wash Filter operations, waste minimization, and alternative cross-flow filters will be evaluated on lab-scale, engineering scale, and pilot scale units. (Note - the Late Wash Filter Demonstration Unit (LWFDU) operation will be funded partially by Office of Technology Development.)

Significant Technology Issues

DWPF anticipates and reviews technology issues via the Technology Assurance Program (TAP) and the Task Technical Request (TTR/TAR) processes. Also, oversight and review groups identify issues. The currently identified major issues include determining NOx generation rates during melter feed operations (including ammonia scrubber performance), establishing rheological constraints on sludge-slurry simulant to protect equipment, SRAT coil fouling process demonstrations, determining the hydrogen generation rate during for CCR tests, evaluating alternative acid to formic acid for use during hydrolysis, evaluating alternative techniques to further reduce the organic byproduct content of the aqueous hydrolysis product, determining the fate of copper catalyst during hydrolysis, measuring compositional changes to KTPB slurry as a function of storage term in the ITP facility, identifying the physical and chemical changes in melter feed during extended "layups", and determining fate of surfactants and nitrated aromatics in DWPF processes and their impact on other processes. If schedule and melter operations permit, the IDMS Melter will be repaired and noble metals accumulation evaluated.

Technical Scope Detail cont...:

Analytical Methods Development and Analytical Support

Analytical methods development and techniques are developed for use at DWPF, and analysis of IDMS and PHEF samples are performed at facilities at TNX and 773-A. Additional lab facilities are required to support DWPF. Successful analytical lab support will require additional capital funds, which are not available.

SRTC Vitrification Support for DWPF

Stirred Melter.

Complete installation and startup testing and begin demonstration for use as a replacement melter for DWPF. The stirred melter offers significantly greater throughput and lower disposal costs. This program is partially funded by Hanford.

Direct Support activities.

DWPF plant support during test planning, chemical runs, and radioactive runs. Activities include development of Process Requirements, specification of DWPF feed simulants for Cold Chemical Runs, development of DWPF feed specifications for Rad. Operation, process and equipment modelling, review of Task Plans, support of HLW and DWPF task teams, and general technical support during Cold Chemical Runs, Waste Qualification Runs, and Radioactive Operations. Assist DWPF in preparation and execution of presentations to oversight groups.

Provide personnel for advisory support during key startup tests and initial radioactive operations.

Other support provided includes the following; Equipment Engineering and Materials Technology support to DWPF for resolution of plant equipment and operational problems. SRTC also provides analytical laboratory support for analyses beyond DWPF's capability or capacity; Standards Lab for calibration of equipment; statistical support; Human Factors support for DWPF Control Room issues, and other technical support at the request of DWPF.

Significant work items are requested by DWPF via the Task Technical Request/Task Assistance Request (TTR/TAR) process and are reviewed monthly with DWPF.

Current Year (FY 1994) Description:

Issued Late Wash Technical Bases. Issued projected emissions for LW and Nitric Acid Flowsheets. Completed PHEF Run 67 on organic evaporator cycle. Completed formal design review of DWPF HVAC control modifications. Issued DWPF recycle minimization final report. Completed design basis calculations for DWPF NOx emissions. Completed precipitate simulant stability scoping study. Completed LWPF independent design review. Prepared Waste Qualification Report Volume 7. Provided lab analytical support to DWPF test WP-19. IDMS runs for NOx and ammonia scrubber demonstration in progress, and melter rebuild to begin. The following work is currently scheduled for FY94, complete LWFDU fabrication and begin testing, issue WP-19 final analysis report, issue copper nitrate technical basis, issue six Process Requirements, issue Batch 1 Shielded Cells demonstration final report, issue procedure to determine non-radioactive Cesium in recovered organic, issue HEME/HEPA dissolution technical basis, issue Waste Qualification Report Volume 4, begin receipt of canisters from DWPF and evaluation.

Budget Year (FY 1995) Description:

Complete IDMS Melter rebuild, issue Process Requirements, LWFDU testing continues, provide lab analytical support, perform Batch 2 Shielded Cells demonstration, develop and issue analytical procedures for DWPF and support work, continue receipt and evaluation of canisters from DWPF and evaluation, continue Waste Qualification Report updates, issue Mercury Water Wash Tank Final Report, issue ammonia scrubber demonstration final report, issue PCCS versions for Rad Ops & process variations, support resolution of DWPF melter feed system rheology, pump, and sample pump operating problems, develop replacement tank level measurement devices (alternative to Hollidge Gauges), develop and issue Batch 2 Material Balance, use irradiated feeds for Late Wash Filter demonstration, PHEF, and IDMS and document results. Issue Precipitate Hydrolysis technical basis for radioactive operations. If schedule and funding permit, perform a Stirred Melter run. Provide equipment and materials engineering support to resolve DWPF operations problems. Provide backup lab analytical support.

Planning Year (FY 1996) Description:

Technology Assurance.

For FY96 it is anticipated that the currently identified operability and process issues for DWPF will require continued support until DWPF demonstrates that all aspects of routine operations have been successfully demonstrated. SRTC support will include the following; resolving emerging issues from the first year of operations; improving attainment, waste loading, product quality, and operation of DWPF; demonstrating of the Late Wash Process; and demonstrating the Stirred Melter. The likely technology issues as DWPF begins its first year of radioactive operations include the following; meeting rheology constraints, optimizing operations of DWPF melter feed system and offgas system, developing layup procedures, evaluating pump and tank level indicator performance, modifying PCCS for process variations, performing melter life extension studies, minimizing DWPF recycle..

SRTC Vitrification Support for DWPF

Continue characterization and demonstration in Shielded Cells, bench scale, and IDMS of successive batch feeds. Waste Acceptance work will continue with revisions to the Waste Qualification Report to reflect actual DWPF production, and the characterization of the initial radioactive glasses from DWPF.

DWPF is expected to continue to require Equipment and Materials Engineering support at current levels through at least the first year of radioactive operations.

Lab analytical support and methods development will continue.

Provide equipment and materials engineering support to resolve DWPF operations problems. Provide backup lab analytical support. SAR maintenance will begin.

Impacts / Assumptions

DWPF meets current schedule for preparation for 12/95 radioactive operations. No new regulatory requirements will be added to operations of the DWPF facility.

TOS, which provides operators and maintenance for pilot facilities, will be able to shift personnel to other programs when not needed (otherwise cost/hr goes up and no savings result).

Materials for runs will be available at no cost from DWPF, otherwise Stirred Melter runs and possibly IDMS runs will be delayed.

This assumes the following:

- DWPF will not require additional technology issue resolution support for emerging issues than current headcount and funding will support.
- DWPF will be able to accommodate increased turnaround time on sample analysis for Waste Qualification Runs due to lack of funding for Analytical Support.
- DWPF support requirements for equipment and materials engineering support will not exceed current levels.
- The shortfall in capital funding will be resolved.

Supporting Documents

DWPF 1996-2000 Five Year Plan Cost Account Manager's Budget Review Checklist

SRTC-DWPF Technology Issue Priority List

SRTC DWPT Section's Five Year Plan Outline

SRTC DWPT Section's Schedule Performance Indicators for DWPF

SRTC DWPT Section's System Planning Documents

VI. DWPT Integrated Schedule

VI. SRTC-DWPF INTEGRATED DEVELOPMENT SCHEDULE (Level 2)

Content and Purpose

This integrated schedule contains all of the programs that SRTC (DWPT) is responsible for at this time and is working either currently or in the future, as defined by the Figure 1 flowsheet. The purpose of the schedule is to account for work requested of SRTC with respect to resource availability and realistic commitment dates, and to integrate with the customer as well as other SRTC organizations. Requests are assessed against the potential impact to existing programs (based on resources required) to determine what deliverables are feasible by when. The schedules are created using Project Management and Costing System (PMICS), which directly links programs and budget, thus creating the task-based Annual Operating Plan and measuring actual costs (from the Integrated Budget, Accounting and Reporting System) against its baseline. Preparations for FY 95 will be the initial testing and implementation of this capability.

Current Use

Status to DWPF is updated through the integrated schedule weekly and monthly for reporting to Plan of the Day/Week meetings and the Performance Indicators system for performance measurement. Any changes to schedule items that are tied to the DWPF critical path are made through Schedule Input Change Forms and approved by the affected DWPF and SRTC managers. The Level 2 is a summary schedule which remains essentially static, although it is expected that rebaselining with respect to DWPF's schedule will occur semiannually.

The Level 2 schedule is shown in three different forms:

1. By DWPF System - Work is assessed and identified by DWPF system. This schedule shows the extent of development in progress for each part of the process.
2. By DWPF Test Plan - This is the "working schedule" that directly integrates SRTC work to the DWPF schedule. The tests are identified by title instead of FA or WP number but can be linked to ties in the DWPF schedule.
3. By Technology Issue - This sort of the schedule allows evaluation of level of effort required to address technology issues. It is a new tool that can be used by the TAP Committee to monitor progress and integrate emerging work.

A more detailed Level 3 schedule (Attachment B) is used to manage emerging technology issues and is therefore more dynamic in nature and subject to constant revision. Schedule data originates and is updated by the assigned engineers and is reviewed by their managers and the program analyst before input. As a result, each

engineer is distributed (weekly-to-monthly) his/her personal schedule, in order of completion date, which serves as an updated priority list of items.

Format

The attached schedule depicts all SRTC (DWPT) responsible program details with their respective 'early' dates (Schedule Start/Complete) and 'late' dates (Required Start/Complete), based on current resource availability. Also shown is the corresponding status, resource assigned to each item, and delays associated with any constraining resources (Resource Delay and Delaying Resource). Programs are grouped into DWPF process flowsheet categories and those that are tied directly to DWPF start-up are marked in the milestone column.

Process flowsheet categories are:

LW:	Late Wash
PH:	Precip. Hydrolysis
SCOGS:	Salt Cell Off-Gas System
CC FP:	Chemical Cell Feed Prep.
CCOGS:	Chemical Cell Off-Gas System
MFT:	Melter Feed Tank
ME:	Melter
MEOGS:	Melter Off-Gas System
PC:	Process Control
WCP:	Waste Compliance
AN:	Analytical
ACT:	Actinide
M/LLW:	Mixed/Low Level Waste
SUPPORT:	Process Support

VI. A. LEVEL 2 SCHEDULE BY DWPF SYSTEM

The following schedule breaks down the work by DWPF system. It allows review and evaluation of the level of effort required to support each step in the process and resolve outstanding issues or complete data/process documentation.

PROJECT MANAGEMENT INTEGRATION & COSTING SYSTEM

Object: LFLOW
 Action:
 Report: PMRPHM

LEVEL 2 Hammock Schedule Report

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 Date: 13 Apr 94
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Subtask	Activity	Plan Durn	Description	Prjcted Complt	Requird Complt	Sched Complt	Total Float
Primary Task.. 01-LW Organization.. PTD							
ENGR SCALE	312002100	49	LWFDU Engineering Scale Testing	8Apr94	1Sep94	8Apr94	97
LW MODEL	312002200	77	Model Late Wash System	14Feb95	14Feb95	15May95	-60
VISCOSITY	312002300	22	Det.LW Steams Viscosity vs.Temp	25Jul94	25Jul94	4Aug94	-6
KTPB DOSE	312002500	102	KTPB Sim. Absorbed Dose Effect	25Jul94	25Jul94	4Aug94	-6
SIM. PHA	312003450	523	PHA Simulant, Sidge-only & LW S/U	20Sep94	14Jul95	10Mar95	84
B2 SPARGE	312003500	109	Benzene Sparging Studies	24May94	24May94	28Jun94	-23
CROSSFLOW	312003600	469	Cross-flow Filtr DF w/Non-rad Ca	15May96	15May96	6Jun96	-14
LWFDU	312003700	665	Late Wash Facility Demo. Unit	3Nov95	3Nov95	14Dec95	-27
3KGAL KTPB	312004300	131	Irrad. 3000 gal KTPB Simulant	14Sep94	30Oct94	14Sep94	12
Primary Task.. 01-LW & PH Organization.. PTD							
KTP SLURRY	312003040	253	Chem.Comp.of Irrad. KTPB Simulant	30Oct94	30Sep94	30Oct94	-2
180G KTPB	312003060	175	Irrad. Batch 1 KTPB (LWFDU)	27Jul94	21Jun94	23Aug94	-42
Primary Task.. 01-LW & PH & MFP Organization.. PTD							
SURF FATE	312003340	11	Surfynol Fate across LW/PHP/MFP	24Mar94	10Nov94	24Mar94	154
Primary Task.. 02-PH Organization.. GTG							
TK 13 PHP	314006400	191	Tank 13 PHP Analysis	12Dec94	12Dec94	12Dec94	
PHP DEMO	314006500	201	PHP Demonstration	7Jun94	30Jan95	21Jul94	128
PHP CLEAN	314006600	103	PHP Fouled Surface Cleanup	24Oct94	19Jun95	29Dec94	114
CRITICALTY	314007100	229	Assessment of DMF Criticality	15Sep94	15Sep94	5Dec94	-54
Primary Task.. 02-PH Organization.. LSE							
PHEF REP	311001000	177	PHEF 63 - 65 Reports	6Jun94	6Jun94	6Jun94	
PHEF 66	311001100	239	PHEF 66 Run and Report	6Jun94	6Jun94	12Sep94	-65
PHEF 67	311001130	293	PHEF 67 Run and Report	6Jun94	6Jun94	28Dec94	-136
PHEF 68	311001170	242	PHEF 68 (H2 Eval) Run and Report	6Jun94	6Jun94	14Feb95	-168
PHEF PHR	311013600	184	PHEF Process Hazard Revw Support	25May95	25May95	16Jun95	-14
PHEF CY94	311014100	501	PHEF CY'94 Activities	10Mar95	10Mar95	15Nov95	-166
Primary Task.. 02-PH Organization.. PMC							
FUJIKIN	313005100	212	Sampler Valve Replacement Testg	22Apr94	22Apr94	28Dec94	-166

PROJECT MANAGEMENT INTEGRATION & COSTING SYSTEM

Project: LFLOW
 Section:
 Report: PMRPHM

LEVEL 2 Hammock Schedule Report

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Subtask	Activity	Plan Durn	Description	Prjcted Compltn	Requird Compltn	Sched Compltn	Total Float
Primary Task.. 02-PH							
Organization.. PTD							
SPC CLEAN	312001100	139	SPC Vessel Cleaning Techniques	6May94	27May94	6Jul94	-26
HCOOH ALT.	312001300	173	Alt. Acid for Ppt. Hydrolysis	29Sep94	29Sep94	14Nov94	-30
OP PARAMTR	312006100	191	Def.Ppt.Hydrolysis Opr. Paramtrs	28Dec94	28Dec94	9Aug95	-149
CATALYSTS	312006300	215	Ppt. Hydrolysis Catalyst Eval.	29Sep94	29Sep94	29Nov94	-40
PH OFFGAS	312006400	178	Hydrolysis Off-Gas Composition	31Aug94	6Mar95	21Nov94	70
DIPHENYL	312006500	320	Ppt. Hydrolysis Diphenylmercury	7Jun94	27Jan95	10Mar95	-28
SPC PRS	312010100	226	Prep. of SPC Process Reqts	1Aug94	2Aug94	1Aug94	
HVAC PRS	312010180	110	Preparation of HVAC Process Reqt	16Aug94	15Nov94	16Aug94	60
Primary Task.. 02-PH & CC FP							
Organization.. PTD							
CU(NO3)2	312003800	325	Copper Nitrate Replacement	9May94	13Jun94	1Dec94	-114
LAYUP	312006200	367	Melter/Ppt. Layup Impact Analy.	30Mar95	30Mar95	22Sep95	-117
Primary Task.. 03-SC OGS							
Organization.. PTD							
SPC CLEAN	312001140	336	SPC Vessel Cleaning Techniques	21Jun95	14Jul95	12Jul95	1
Primary Task.. 04-CC FP							
Organization.. GTG							
HNO3 METHD	314006100	181	Nitric Acid Method	9Jun94	12Dec94	21Jun94	116
BATCH 1	314006150	227	Demo. Batch 1 Targt in HLC	22Aug94	1Aug94	19Oct94	-52
DEMO FEED	314006350	101	Demonstrate Initial DMPF Feed	13Apr94	27May94	13Apr94	29
NEW SRAT	314006800	107	New SRAT Construction	6May94	6May94	6May94	
NEW BATCH1	314008400	251	New Batch 1 Study Activities	12Aug94	15May95	19Sep94	158
HLC UPGRAD	314009100	253	Upgrades to HLC Support Activity	30Oct94	30Sep94	30Oct94	-2
CODE QA	314010300	111	Code QA Activities	27May94	1Jun94	27Jun94	-17
TASK TEAMS	314011100	269	Misc. Task Team Activities	16Nov94	16Nov94	27Feb95	-68
Primary Task.. 04-CC FP							
Organization.. LSE							
MWWT/PUMP	311009150	89	Hg Pump & Recvry/Water Wash Tank	6Jun94	30Oct94	6Jun94	79
FL1	311009340	30	IDMS FL1 Run	21Apr94	31Mar94	21Apr94	-14
PX7	311009370	37	IDMS PX7 Run	1Sep94	4Aug94	20Sep94	-31
IDMS DOC	311010100	175	IDMS Run Documentation	27Oct94	27Oct94	16Nov94	-13
IDMS PHR	311013500	217	IDMS Process Hazard Revw Support	25May95	25May95	2Aug95	-46
Primary Task.. 04-CC FP							
Organization.. PMC							
XS MATL	313001800	142	Waste Mgt. Excess Mat'l Activity	20Apr94	20Apr94	6May94	-10
WP19 ANALY	313002300	295	WP-19 Analyses and Report	22Apr94	22Apr94	11Nov94	-135

PROJECT MANAGEMENT INTEGRATION & COSTING SYSTEM

Project: LFLOW
 Action:
 Report: PHRPHM

LEVEL 2 Hammock Schedule Report

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Subtask	Activity	Plan Durn	Description	Prjcted Compltn	Requird Compltn	Sched Compltn	Total Float
Primary Task.. 04-CC FP Organization.. PMC							
PUMP TEST	313002700	261	Pump Operational Testing at TNX	12Dec94	12Dec94	9Mar95	-58
HOLLEDGE	313004200	461	Holledge Support	15Feb95	15Feb95	15Feb95	
Primary Task.. 04-CC FP Organization.. PTD							
HYDROGEN	312002700	68	H2 Evolution during Acid Trimm'g	8Apr94	13Jun94	15Jun94	-1
PBA DECOMP	312002900	31	Kinetics of SRAT PBA Decompsitn	8Apr94	8Apr94	22Apr94	-9
SOLID CONC	312003100	56	Rheology Studies (FA 13/MP 14)	22Apr94	19Apr94	27May94	-25
SOLID CONC	312003116	173	Rheology Studies (MP 15)	13Jul94	22Dec94	14Nov94	25
SOLID CONC	312003122	198	Rheology Studies (MP 16)	13Jul94	9Feb95	21Dec94	33
SOLID CONC	312003130	232	Rheology Studies (MP 17)	13Jul94	12Apr95	10Feb95	40
SOLID CONC	312003145	303	Rheology Studies (FA 20,etc.)	24Aug94	13Oct95	25May95	94
1/200 SRAT	312003200	184	SRAT Coil Fouling w/Batches	15Apr94	15Apr94	18Apr94	-2
NH4+ GEN	312003300	265	NH4+ Generation/Fate of NH3	29Mar95	13Jan95	29Mar95	-50
SLDG SURF.	312004500	79	Dow Corning 544 across SRAT/SME	27Jun94	10Aug94	30Jun94	27
HEME/HEPA	312009100	139	HEME/HEPA Digestion Analysis	3Aug94	1Aug94	3Aug94	-1
MFP PRS	312010110	187	Prep. of MFP Process Reqts	23May94	17Jun94	23May94	16
LPPP PRS	312010120	55	Prep. of LPPP Process Reqts	26May94	20Jul94	26May94	36
HGP&S PRS	312010140	163	Prep. of HGP&S Process Reqts	21Apr94	15Apr94	21Apr94	-4
TASK TEAMS	312012100	270	Misc. Task Team Activities	30Oct94	30Oct94	30Oct94	
Primary Task.. 05-CC OGS Organization.. GTG							
MOG CS	314001200	66	Non-rad. Cesium in MOG	13Jun94	27Jul94	13Jun94	29
Primary Task.. 05-CC OGS Organization.. LSE							
FAVC HG	311009040	83	Measure/Doc. Hg Behavior in FAVC	7Apr94	15Sep94	7Apr94	107
PVVS CLEAN	311009200	260	CPC VVS Cleaning	10Nov94	10Nov94	13Dec94	-22
NH3 SCRUBR	311009500	276	NH3 Scrubber Demo Initial Report	12Aug94	15Aug94	12Aug94	2
NH3 SCRUBR	311009570	59	NH3 Scrubber Demo Final Report	8Sep94	1Nov94	4Nov94	-2
CPC ANALYZR	311009800	254	CPC Analyzer Activities	8Dec94	8Dec94	20Dec94	-8
Primary Task.. 05-CC OGS Organization.. PTD							
NITROARMTIC	312003900	246	Nitroaromatic Content of Recycle	31Oct94	14Dec94	6Feb95	-36
Primary Task.. 06-MFT Organization.. PMC							
FA 10.02	313001700	246	Melter Feed Loop Sampl'g Reqts.	29Apr94	19Apr94	12Jan95	-178
TANK HOMOG	313001900	146	Tank Homogeneity Testing at TNX	13Jul94	30Jun94	29Sep94	-60

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Primary Task.. 06-MFT Organization.. PTD							
TECH BASES	312004100	394	Melter Feed Prep Tech Bases	30Oct95	15Sep95	30Oct95	-12
Primary Task.. 07-ME Organization.. GTG							
ION EXCHNG	314001300	1	Ion Exchange Activities	10Mar94	10Mar94	10Mar94	
HT XFER	314009300	41	Melter Cooling Water Ht. Transfr	28Apr94	2Mar94	28Apr94	-38
Primary Task.. 07-ME Organization.. LSE							
STIR MLTR	311007100	582	Stirred Melter	10Jan95	10Jan95	4May95	-76
NOBLE METL	311009060	246	Fate of Noble Metals in Melter	15Mar94	1Mar94	15Mar94	-9
IDMS RPAIR	311009700	454	IDMS Melter Preparation/Repair	19Apr95	19Apr95	11May95	-14
Primary Task.. 07-ME Organization.. PMC							
	313007100	377	Stirred Melter Noble Metal Analy	7Sep95	15Mar95	8Sep95	-118
PCCS DEMO	313007200	21	Demo. of PCCS w/Stirred Melter	60Oct95	13Apr95	90Oct95	-119
Primary Task.. 07-ME & PC Organization.. PMC							
PCCS 3.0	313004500	691	PCCS v3.0	28Nov94	14Nov94	10Jun96	-382
Primary Task.. 07-ME & PH & CC FP Organization.. PTD							
MATCON PRS	312010170	196	Prep. of Mat.Con. Process Reqts	9Jun94	10Jun94	9Jun94	
Primary Task.. 08-ME OGS Organization.. PMC							
MOG MODEL	313010200	287	MOG Dynamics Simulation	9Sep94	9Sep94	28Nov94	-53
Primary Task.. 09-PC Organization.. GTG							
PROCES VAR	314010200	258	Process Variability Study Ph.III	6Apr94	15Nov95	3Jan95	210

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Primary Task.. 09-PC							
Organization.. LSE							
HOLLEGE	311009600	67	Hollege Gauges Replacement	29Apr94	29Apr94	29Apr94	
Primary Task.. 09-PC							
Organization.. PMC							
VANTAGE	313000700	506	VANTAGE Replacement Activities	30Oct96	30Oct96	7Jan97	-64
BACKUP	313001400	331	VAX Disaster Recovery Project	6Apr95	6Apr95	8Jun95	-42
RM UPGRADE	313001500	351	Computer Room Upgrade	3May95	3May95	3May95	
ALT MEAS.	313003050	252	Alternate Liquid Level Measure.	9Feb95	9Feb95	14Mar95	-22
SCUREF	313003100	425	SCUREF Hollege Gauge Contract	5Jun95	5Jun95	31Aug95	-58
PCCS ALT	313003300	455	Alternative PCCS Platform Dev.	19Jul95	15Nov95	40Oct95	28
PCCS 3.1	313004600	231	PCCS version 3.1	17Nov94	17Nov94	9Feb95	-56
PCCS 4.0	313004700	573	PCCS version 4.0	30Oct95	30Oct95	19Jun96	-173
PCCS 4.1	313004800	651	PCCS version 4.1	24Jan96	24Jan96	80Oct96	-172
BLEND CALC	313004900	313	Perform/Document Blend Calc.	28Oct94	13Dec94	30Dec94	-11
IDMS CNTRL	313009800	217	IDMS/PHEF Control Upgrade	14Jul94	14Jul94	31Oct94	-72
SPEEDUP	313010100	349	Convert Batch Simultn to SPEEDUP	15Sep94	10Oct95	23Feb95	152
CPESH	313010400	183	Mat'l Balance for Batches 2-6	20Jun94	20Jun94	31Oct94	-88
Primary Task.. 09-PC							
Organization.. PTD							
PROC CHEM	312001900	161	ITP/ESP/DWPF Process Chemistry	130ct94	130ct94	270ct94	-9
Primary Task.. 10-WCP							
Organization.. GTG							
FRIT 202	314001800	163	Frit 202 Standards Analysis	27Oct94	1Dec94	31Oct94	20
VOL. 7	314007200	160	Volume 7 Activities	18May94	26Apr95	18May94	228
VOL. 4	314007300	424	Volume 4 Activities	21Feb96	21Feb96	21Feb96	
VOL. 2	314007400	439	Volume 2 Activities	21Feb96	21Feb96	21Feb96	
VOL. 5	314007500	360	Volume 5 Activities	21Feb96	21Feb96	21Feb96	
VOL. 9	314007600	13	Volume 9 Activities	19Sep95	19Sep95	19Sep95	
FULLY LOAD	314008100	236	Fully Loaded Glass Processing	16Jun94	15May95	15Feb95	59
SMPLE CHAR	314008200	251	HLC Upgrade for Sample Character	28Dec94	26Apr95	28Dec94	79
QR GLASS	314008300	825	Char. QR Canister Glass Samples	18Aug95	15Nov95	27Dec96	-272
ARCHIVING	314008500	41	HLC Glass Sample Archiving Act.	6May94	15May95	6May94	249
CHAR COUPN	314008600	124	Characterize Enameld Can Coupon	30Sep94	15Nov95	20Dec94	232
TXN PREP	314008700	268	Canister Receipt/Testing Prep.	22Apr94	19Apr94	4Nov94	-132
CAN TEST	314008800	358	Canister Receipt/Testing	22Jun95	23Jun95	31Oct95	-86
DOC.	314008900	110	Startup Analyses/Documentation	20Jun94	19Apr94	20Jun94	-41
GWSB MODEL	314010100	489	GWSB Heat Transfer. Model	5Jun95	30Jun95	60Oct95	-65
PROCURMNT	314013600	253	Canister Procurement Support	30ct94	30Sep94	30ct94	-2

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Primary Task.. 10-WCP Organization.. PTD							
GWSB PRS	312010130	66	Prep. of GWSB Process Reqts	3Jun94	8Jun94	3Jun94	3
Primary Task.. 10-WCP & ME OGS Organization.. GTG							
PCCS SOLUB	314009200	227	Salt Solubility Studies (PCCS)	18Jul94	2Sep94	18Jan95	-92
Primary Task.. 11-AN Organization.. GTG							
ANAL.METHD	314001100	177	Analytical Methods Development	14Mar94	15May95	15Jun94	222
Primary Task.. 11-AN Organization.. PMC							
METHOD--CU	313001100	230	Improve Copper Analysis	27Jun94	28Mar94	9Jan95	-191
LAB AUTO	313001200	248	INX Lab Automation Project	17May94	17May94	12Jan95	-160
METHOD--DA	313001300	240	Improve Dilute Acid Analysis	29Apr94	29Apr94	23Jan95	-179
NON-RAD CS	313002100	305	Dev.Recovrd Org.Non-Rad.Cs Methd	13Jul94	1Aug94	26Jan95	-118
LAB UPGRAD	313002200	253	Lab Facilities and Instruments	29Sep94	29Sep94	28Nov94	-40
STLIM	313002500	592	Replace STLIM	20Jun94	20Jun94	2Jan96	-374
STLIMMISC	313002550	400	Misc. STLIM Activities	23Feb95	23Feb95	13Oct95	-154
EDUCTOR	313004300	181	Sample Overflow Mod. Support	7Apr94	7Apr94	10Jun94	-42
TASK TEAM	313012100	326	Misc. Task Team Activities	30Sep94	30Sep94	12Oct94	-8
WASTE MIN	313013500	510	Waste Minimization (SCUREF)	26Oct95	26Oct95	18Mar96	-96
Primary Task.. 11-AN Organization.. PTD							
GC-MS	312001500	297	Upgrade Organic Analy. Capability	29Dec94	29Dec94	9Jan95	-7
ANALY CAP.	312001700	415	Organic Analysis Method Dev.	4Sep95	4Sep95	22Sep95	-12
ANALYT PRS	312010160	118	Prep. of Analyt. Process Reqts	26Aug94	12Sep94	26Aug94	11
Primary Task.. 12-ACT Organization.. GTG							
AM/CM	314006700	235	Americium/Curium Vitrification	19Aug94	19Aug94	8Sep94	-13
ACTINIDE	314014700	1	Actinide Waste Activities	10Mar94	10Mar94	10Mar94	
WASTE CHAR	314014800	1	Waste Characterizatr Activities	10Mar94	10Mar94	10Mar94	
GLASS FORM	314014900	1	Glass Char. and Durability	10Mar94	10Mar94	10Mar94	
Primary Task.. 13-M/LLW Organization.. GTG							
ASPEN	314001600	253	ASPEN Modeling Activities	30Oct94	30Sep94	30Oct94	-2

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Subtask	Activity	Plan Durn	Description	Prjcted Compltn	Requird Compltn	Sched Compltn	Total Float
Primary Task.. 13-M/LLW							
Organization.. GTG							
PLASMA-GIT	314002100	401	Plasma--GIT Vitrification	12Oct95	12Oct95	12Oct95	
PLASMA-GR.	314002200	400	Plasma--Graphite Vitrifctn	5Oct95	5Oct95	11Oct95	-4
PLASMA-T.T	314002300	371	Plasma--Transport. Torch Vitr.	31Aug95	31Aug95	31Aug95	
OTD	314013500	259	OTD Support Activities	30Oct94	30Sep94	11Oct94	-7
TASK TEAM	314013700	253	Misc. Task Team Support	30Oct94	30Sep94	30Oct94	-2
SALT SOLUB	314013800	296	Salt Solubility Studies (LL/MW)	11Nov94	29Sep94	2Feb95	-84
TREAT VITR	314014400	1	Treatability Vitrification Demo	10Mar94	10Mar94	10Mar94	
DEMO PREP	314014500	1	Field Demo. Preparation	10Mar94	10Mar94	10Mar94	
FIELD DEMO	314014600	1	Field Vitrification Demonstratn	10Mar94	10Mar94	10Mar94	
AM-IX FEED	314015100	97	Advanced Melter (Clemson)	13Jun94	13Jun94	22Jun94	-6
AM-OR WETF	314015200	104	Advanced Melter (Clemson)	10Jun94	24May94	15Jun94	-14
AM-RFP	314015300	217	Advanced Melter (Clemson)	28Jun94	5Jul94	8Sep94	-43
AM-LANL	314015400	233	Advanced Melter (Clemson)	28Jul94	1Aug94	10Jan95	-108
AM-CIF ASH	314015500	63	Advanced Melter (Clemson)	2Sep94	2Sep94	20Oct94	-32
AM-REPORTS	314015600	203	Adv. Melter Reports (Clemson)	13Jul94	30Oct94	30Nov94	-38
AM-MISC.	314015700	328	Adv. Melter Misc. (Clemson)	31Oct94	31Oct94	5Apr95	-104
Primary Task.. 14-SUPPORT							
Organization.. GTG							
FIELD	314013100	253	DWPF Field Support Activities	30Oct94	30Sep94	30Oct94	-2
PROC.	314013200	253	DWPF Proc/Test Plan Support	30Oct94	30Sep94	30Oct94	-2
INTERNAL	314013300	260	DWPT Internal Support Activities	30Oct94	30Sep94	12Oct94	-8
EMERGENT	314013400	253	Emergent Work Support Activities	30Oct94	30Sep94	30Oct94	-2
Primary Task.. 14-SUPPORT							
Organization.. LSE							
FIELD	311013100	295	DWPF Field Support Activities	30Oct94	30Sep94	2Dec94	-42
PROC.	311013200	253	DWPF Proc/Test Plan Support Act.	30Oct94	30Sep94	30Oct94	-2
INTERNAL	311013300	253	DWPT Internal Support Activities	30Oct94	30Sep94	30Oct94	-2
EMERGENT	311013400	253	Emergent Work Support Activities	30Oct94	30Sep94	30Oct94	-2
Primary Task.. 14-SUPPORT							
Organization.. PMC							
FIELD	313013100	253	DWPF Field Support Activities	30Oct94	30Sep94	30Oct94	-2
PROC.	313013200	253	DWPF Proc/Test Plan Support	30Oct94	30Sep94	30Oct94	-2
INTERNAL	313013300	303	DWPT Internal Support Activities	30Oct94	30Sep94	14Dec94	-50
EMERGENT	313013400	395	Emergent Work Support Activities	30Oct94	30Sep94	28Apr95	-140
PROCUREMENT	313013600	96	Misc. Procurement Activities	10Mar94	10Mar94	10Mar94	
Primary Task.. 14-SUPPORT							
Organization.. PTD							
FIELD	312013100	253	DWPF Field Support Activities	30Oct94	30Sep94	30Oct94	-2
PROC.	312013200	253	DWPF Proc/Test Plan Support	30Oct94	30Sep94	30Oct94	-2

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Primary Task.. 14-SUPPORT							
Organization.. PTD							
INTERNAL	312013300	253	Internal DWPT Support Activities	30Oct94	30Sep94	30Oct94	-2
EMERGENT	312013400	253	Emergent Work Support Activities	30Oct94	30Sep94	30Oct94	-2

VI. B. LEVEL 2 SCHEDULE BY DWPF TEST SCHEDULE

This is the working schedule that integrated SRTC work into the DWPF integrated schedule. The tie points are currently identified by the DWPF test names and many are grouped under the title "Qualification Runs". Further breakouts may be needed as work progresses. The level 3 schedule shown as an example in Attachment 2 is based on the DWPF Test Schedule Sort.

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Subtask	Activity	Plan Durn	Description	Prjctd Compltn	Requird Compltn	Sched Compltn
Primary Task.. DMPF SUPPORT						
Organization.. GTG						
FRIT 202	314001800	161	Frit 202 Standards Analysis	6Dec94	1Dec94	30Nov94
FIELD	314013100	253	DMPF Field Support Activities	29Sep94	30Sep94	29Sep94
PROC.	314013200	253	DMPF Proc/Test Plan Support	29Sep94	30Sep94	29Sep94
PROCUREMENT	314013600	253	Canister Procurement Support	29Sep94	30Sep94	29Sep94
TASK TEAM	314013700	253	Misc. Task Team Support	29Sep94	30Sep94	29Sep94
Primary Task.. DMPF SUPPORT						
Organization.. LSE						
FIELD	311013100	253	DMPF Field Support Activities	29Sep94	30Sep94	16Dec94
PROC.	311013200	253	DMPF Proc/Test Plan Support Act.	29Sep94	30Sep94	29Sep94
Primary Task.. DMPF SUPPORT						
Organization.. PMC						
TANK HOMOGENEITY	313001900	149	Tank Homogeneity Testing at TNX	21Oct94	21Oct94	21Oct94
PUMP TEST	313002700	201	Pump Operational Testing at TNX	6Jan95	6Jan95	6Jan95
ALT MEAS.	313003050	311	Alternate Liquid Level Measure.	18Apr95	13Apr95	19May95
SCUREF	313003100	389	SCUREF Mollage Gauge Contract	11Jul95	11Jul95	1Aug95
BLEND CALC	313004900	209	Perform/Document Blend Calc.	7Sep94	13Dec94	13Oct94
SPEEDUP	313010100	405	Convert Batch Simuln to SPEEDUP	15Jun95	14Jul95	7Jul95
CPESH	313010400	108	Mat'l Balance for Batches 2-6	28Jul94	18Sep94	19Sep94
FIELD	313013100	253	DMPF Field Support Activities	29Sep94	30Sep94	29Sep94
PROC.	313013200	253	DMPF Proc/Test Plan Support	29Sep94	30Sep94	29Sep94
Primary Task.. DMPF SUPPORT						
Organization.. PTD						
MCOOH ALT.	312001300	141	Alt. Acid for Ppt. Hydrolysis	4Nov94	4Nov94	12Jan95
PROC CHEM	312001900	151	ITP/ESP/DMPF Process Chemistry	18Nov94	18Nov94	29Nov94
KTPB DOSE	312002500	68	KTPB Sim. Absorbed Dose Effect	25Jul94	25Jul94	8Aug94
HYDROGEN	312002700	21	H2 Evolution during Acid Triam'g	16May94	13Jun94	29Jun94
PBA DECOMP	312002900	21	Kinetics of SRAT PBA Decompositn	16May94	16May94	16May94
KTP SLURRY	312003040	253	Chem.Comp.of Irrad. KTPB Simulnt	29Sep94	30Sep94	29Sep94
CATALYSTS	312006300	200	Ppt. Hydrolysis Catalyst Eval.	4Nov94	4Nov94	16Dec94
PH OFFGAS	312006400	121	Hydrolysis Off-Gas Composition	7Oct94	6Mar95	7Dec94
FIELD	312013100	253	DMPF Field Support Activities	29Sep94	30Sep94	29Sep94
PROC.	312013200	253	DMPF Proc/Test Plan Support	29Sep94	30Sep94	29Sep94
Primary Task.. DWPT SUPPORT						
Organization.. GTG						
INTERNAL	314013300	253	DWPT Internal Support Activities	29Sep94	30Sep94	19Oct94

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Subtask	Activity	Plan Durn	Description	Prjcted Complt	Requird Complt	Sched Complt
Primary Task.. DMPT SUPPORT						
Organization.. LSE						
NOBLE METL	311009060	272	Fate of Noble Metals in Melter	21Apr94	29Apr94	7Apr94
INTERNAL	311013300	253	DMPT Internal Support Activities	29Sep94	30Sep94	29Sep94
Primary Task.. DMPT SUPPORT						
Organization.. PMC						
VANTAGE	313000700	441	VANTAGE Replacement Activities	30Oct96	30Oct96	31Oct96
LAB AUTO	313001200	131	TXN Lab Automation Project	25Jul94	30Jun94	19Aug94
BACKUP	313001400	290	VAX Disaster Recovery Project	17May95	17May95	22Jun95
RM UPGRADE	313001500	351	Computer Room Upgrade	9Jun95	9Jun95	25May95
LAB UPGRAD	313002200	213	Lab Facilities and Instruments	4Nov94	4Nov94	27Oct94
SLTLIN	313002500	243	Replace STLIN	11Aug94	15Sep94	8Nov94
SLTLINMISC	313002550	241	Misc. STLIN Activities	31Mar95	31Mar95	11May95
INTERNAL	313013300	253	DMPT Internal Support Activities	29Sep94	30Sep94	30Mar95
WASTE MIN	313013500	411	Waste Minimization (SCUREF)	1Dec95	1Dec95	18Dec95
PROCUREMENT	313013600	96	Misc. Procurement Activities	18Apr94	18Apr94	4Apr94
Primary Task.. DMPT SUPPORT						
Organization.. PTD						
GC-MS	312001500	291	Upgrade Organic Anly. Capability	6Feb95	6Feb95	7Feb95
ANALY CAP.	312001700	401	Organic Analysis Method Dev.	10Oct95	10Oct95	9Oct95
INTERNAL	312013300	253	Internal DMPT Support Activities	29Sep94	30Sep94	29Sep94
Primary Task.. F TANK						
Organization.. GTG						
AM/CM	314006700	156	Americium/Curium Vitrification	16May94	29Apr94	18Sep94
Primary Task.. FA 09						
Organization.. PTD						
HEME/NEPA	312009100	145	HEME/NEPA Digestion Analysis	11Aug94	1Aug94	25Aug94
Primary Task.. HANFORD						
Organization.. GTG						
SAMPLER	314002500	141	Hanford Sampler Activities	11Aug94	11Aug94	4Oct94
Primary Task.. HB LINE						
Organization.. GTG						
NP VITR.	314014800	81	Np Vitrification Process Eval.	11Aug94	15Sep94	

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Subtask	Activity	Plan Durn	Description	Prjcted Complt	Requird Complt	Sched Complt
Primary Task.. K2/NH3 MODS						
Organization.. LSE						
NH3 SCRUBR	311009500	77	NH3 Scrubber Demo Initial Report	22Jul94	15Aug94	18Jul94
Primary Task.. IDMS/PHEF						
Organization.. LSE						
PHEF REP	311001000	155	PHEF 63 - 65 Reports	4May94	4May94	20Apr94
PHEF 66	311001100	186	PHEF 66 Run and Report	24Jun94	30Sep94	10Aug94
PHEF 67	311001130	119	PHEF 67 Run and Report	18Apr94	18Apr94	4Apr94
PHEF 68	311001170	43	PHEF 68 (K2 Eval) Run and Report	9May94	13Jul94	26Apr94
FAVC NG	311009040	109	Measure/Doc. Ng Behavior in FAVC	13May94	15Sep94	29Apr94
FL1	311009340	30	IDMS FL1 Run	27May94	10Jun94	13May94
PX7	311009370	19	IDMS PX7 Run	3Aug94	3Aug94	3Aug94
HOLLEGE	311009600	67	Hollege Gauges Replacement	7Jun94	7Jun94	23May94
IDMS RPAIR	311009700	398	IDMS Melter Preparation/Repair	17Mar95	17Mar95	18Apr95
CPC ANALYZR	311009800	213	CPC Analyzer Activities	20Oct94	20Oct94	31Oct94
IDMS DOC	311010100	115	IDMS Run Documentation	29Sep94	29Sep94	17Oct94
IDMS PHR	311013500	181	IDMS Process Hazard Revw Support	25Apr95	29Sep95	24May95
PHEF PHR	311013600	181	PHEF Process Hazard Revw Support	25Apr95	25Apr95	2May95
PHEF CT94	311014100	346	PHEF CY'94 Activities	18Apr95	18Apr95	10May95
Primary Task.. IDMS/PHEF						
Organization.. PMC						
COPPER	313003500	101	Cu Total vs.Soluble Discrepancy	21Jul94	21Jul94	7Sep95
	313007100	376	Stirred Melter Noble Metal Analy	13Oct95	15Mar95	6Oct95
PCCS DEMO	313007200	21	Demo. of PCCS w/Stirred Melter	13Nov95	13Apr95	6Nov95
IDMS CNTRL	313009800	175	IDMS/PHEF Control Upgrade	4Oct94	4Oct94	27Oct94
Primary Task.. LATE WASH						
Organization.. PTD						
ENGR SCALE	312002100	49	LMFUDU Engineering Scale Testing	16May94	1Sep94	2May94
LW MODEL	312002200	31	Model Late Wash System	22Mar95	22Mar95	7Jun95
VISCOSITY	312002300	15	Det.LW Steams Viscosity vs.Temp	25Jul94	25Jul94	8Aug94
180G KTPB	312003060	156	Irrad. Batch 1 KTPB (LMFUDU)	1Sep94	21Jun94	23Aug94
B2 SPARGE	312003500	111	Benzene Sparging Studies	30Jun94	30Jun94	22Jul94
CROSSFLOW	312003600	654	Cross-flow Filtr DF w/Non-rad Cs	21Jun96	21Jun96	28Jun96
LMFUDU	312003700	662	Late Wash Facility Demo. Unit	11Dec95	11Dec95	4Dec95
3KGAL KTPB	312004300	131	Irrad. 3000 gal KTPB Simulant	20Oct94	30Oct94	6Oct94
Primary Task.. MERCURY RUN						
Organization.. GTG						
MOG CS	314001200	66	Non-rad. Cesium in MOG	21Jul94	27Jul94	7Jul94
PHP DEMO	314006500	197	PHP Demonstration	15Jul94	30Jan95	12Jul94
PHP CLEAN	314006600	96	PHP Fouled Surface Cleanup	1Dec94	19Jun95	28Nov94
ARCHIVING	314008500	41	MLC Glass Sample Archiving Act.	14Jun94	15May95	13Oct94

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Subtask	Activity	Plan Durn	Description	Prjcted Compltn	Requird Compltn	Sched Compltn
Primary Task.. MERCURY RUN						
Organization.. GTG						
CAN TEST	314008800	266	Canister Receipt/Testing	22Jun95	23Jun95	19Oct95
QR GLASS	314009400	81	Char.WP17 Canister Glass Samples	20Oct95	20Oct95	22Jul96
Primary Task.. MERCURY RUN						
Organization.. LSE						
MWAT/PUMP	311009150	89	Hg Pump & Recvry/Water Wash Tank	14Jul94	30Oct94	28Jun94
PVVS CLEAN	311009200	229	CPC VVS Cleaning	60Dec94	60Dec94	60Dec94
Primary Task.. MERCURY RUN						
Organization.. PMC						
HG IN ORG.	313003700	231	Mercury in Organic Analysis	27Jan95	27Jan95	7Sep95
PCCS 3.1	313004600	176	PCCS version 3.1	29Dec94	29Dec94	21Dec94
Primary Task.. MERCURY RUN						
Organization.. PTD						
SOLID CONC	312003130	86	Rheology Studies (WP 17)	18Aug94	12Apr95	21Feb95
NH4+ GEN	312003300	265	NH4+ Generation/Fate of NH3	9May95	13Jan95	24Apr95
SURF FATE	312003340	11	Surfynol Fate across LM/PHP/NFP	2May94	10Nov94	18Apr94
SLDG SURF.	312004500	76	Dow Corning 544 across SRAT/SME	4Aug94	10Aug94	2Aug94
Primary Task.. MLTR TEST						
Organization.. GTG						
TNX PREP	314008700	158	Can.Receipt/Testing/Sampl'g Prep	31May94	27May94	28Jun94
DOC.	314008900	110	Startup Analyses/Documentation	28Jul94	29Apr94	14Jul94
QR GLASS	314009300	121	Char.FA13 Canister Glass Samples	7Oct94	7Nov94	22Jul96
QR GLASS	314010300	156	Glass Sample Data Analyses	29Nov94	21Nov94	20Jun95
Primary Task.. MLTR TEST						
Organization.. PMC						
METHOD--CU	313001100	114	Improve Copper Analysis	21Jul94	31May94	7Jul94
METHOD--DA	313001300	79	Improve Dilute Acid Analysis	31May94	28Jul94	10Nov94
FA 10.02	313001700	97	Helter Feed Loop Sampl'g Reqts.	7Jun94	19Apr94	14Nov94
NON-RAD CS	313002100	211	Dev.Recovrd Org.Non-Rad.Cs Methd	9Sep94	1Dec94	8Mar95
WP19 ANALY	313002300	156	WP-19 Analyses and Report	26Apr94	26Apr94	10May94
MOG MODEL	313010200	223	MOG Dynamics Simulation	25Aug94	25Aug94	18Aug94
Primary Task.. MLTR TEST						
Organization.. PTD						
SPC CLEAN	312001100	125	SPC Vessel Cleaning Techniques	14Jun94	27May94	26Jul94

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Subtask	Activity	Plan Durn	Description	Prjcted Compltn	Requird Compltn	Sched Compltn
Primary Task.. MLTR TEST						
Organization.. PTD						
SOLID CONC	312003100	31	Rheology Studies (FA 13/MP 14)	31May94	19Apr94	23Jun94
1/200 SRAT	312003200	209	SRAT Coil Fouling w/Batches	23May94	23May94	10May94
CU(NO3)2	312003800	208	Copper Nitrate Replacement	14Jun94	13Jun94	29Nov94
LATUP	312006200	266	Melter/Ppt. Layup Impact Analy.	10May95	10May95	6Sep95
Primary Task.. OTD						
Organization.. GTG						
ION EXCHNG	314001300	1	Ion Exchange Activities	18Apr94	1Dec94	4Apr94
ASPEN	314001600	253	ASPEN Modeling Activities	29Sep94	1Dec94	29Sep94
PLASMA-GIT	314002100	401	Plasma--GIT Vitrification	17Nov95	17Nov95	3Nov95
PLASMA-GR.	314002200	396	Plasma--Graphite Vitrifctn	10Nov95	10Nov95	31Oct95
PLASMA-T.T	314002300	345	Plasma--Transport. Torch Vitr.	31Aug95	31Aug95	31Aug95
SALT SOLUB	314013800	268	Salt Solubility Studies (LL/MW)	21Dec94	1Dec94	22Feb95
TREAT VITR	314014400	161	Treatability Vitrification Demo	5Oct94	30Sep94	30Sep94
DEMO PREP	314014500	442	Field Demo. Preparation	26Jul95	30Jun95	12Jul95
FIELD DEMO	314014600	380	Field Vitrification Demonstratn	19Oct95	29Sep95	5Oct95
ACTINIDE	314014700	1	Process Demo. for Actnide Storage	18Apr94	29Sep95	4Apr94
AM-IX FEED	314015100	96	Advanced Melter (Clemson)	21Jul94	30Sep94	5Dec94
AM-OR WETF	314015200	101	Advanced Melter (Clemson)	20Jul94	24May94	8Jul94
AM-RFP	314015300	197	Advanced Melter (Clemson)	10Aug94	5Jul94	17Aug94
AM-LANL	314015400	122	Advanced Melter (Clemson)	6Sep94	1Aug94	9Dec94
AM-CIF ASH	314015500	58	Advanced Melter (Clemson)	28Sep94	28Sep94	1Nov94
AM-REPORTS	314015600	132	Adv. Melter Reports (Clemson)	18Aug94	30Oct94	30Dec94
AM-MISC.	314015700	221	Adv. Melter Misc. (Clemson)	8Dec94	8Dec94	16May95
Primary Task.. OTD						
Organization.. LSE						
STIR MLTR	311007100	528	Stirred Melter	14Feb95	14Feb95	6Jul95
Primary Task.. RAD OPS						
Organization.. GTG						
ANAL.METHD	314001100	138	Analytical Methods Development	20Apr94	15May95	11Jul94
BATCH 1	314006150	186	Demo. Batch 1 Targt in HLC	28Sep94	1Aug94	7Oct94
TK 13 PHP	314006400	191	Tank 13 PHP Analysis	20Jan95	20Jan95	6Jan95
NEW SRAT	314006800	133	New SRAT Construction	14Jun94	14Jun94	31May94
FULLY LOAD	314008100	70	Fully Loaded Glass Processing	26Jul94	15May95	10Jan95
SMPLE CHAR	314008200	251	HLC Upgrade for Sample Character	3Feb95	10May95	20Jan95
NEW BATCH1	314008400	226	New Batch 1 Study Activities	20Sep94	15May95	11Oct94
CHAR COUPN	314008600	81	Characterize Enamelled Can Coupon	30Sep94	15Nov95	10Nov94
PROCES VAR	314010200	73	Process Variability Study Ph.III	12May94	15Nov95	16Jan95

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Subtask	Activity	Plan Durn	Description	Prjcted Complt	Requird Complt	Sched Complt
Primary Task..	RAD OPS					
Organization..	LSE					
NH3 SCRUBR	311009570	29	NH3 Scrubber Demo Final Report	17Aug94	1Nov94	2Nov94
Primary Task..	RAD OPS					
Organization..	PMC					
PCCS ALT	313003300	401	Alternative PCCS Platform Dev.	24Aug95	15Nov95	7Sep95
PCCS 4.0	313004700	394	PCCS version 4.0	8Nov95	8Nov95	2Nov95
PCCS 4.1	313004800	472	PCCS version 4.1	29Feb96	29Feb96	23Feb96
FUJIKIN	313005100	90	Sampler Valve Replacement Testg	28Jun94	28Jun94	12Sep94
Primary Task..	RAD OPS					
Organization..	PTD					
SPC CLEAN	312001140	321	SPC Vessel Cleaning Techniques	27Jul95	14Jul95	18Jul95
SOLID CONC	312003145	116	Rheology Studies (FA 20,etc.)	30Sep94	13Oct95	19May95
SIM. PHA	312003450	405	PHA Simulant, Sidge-only & LW S/U	20Sep94	14Jul95	28Mar95
TECH BASES	312004100	394	Melter Feed Prep Tech Bases	8Nov95	15Sep95	25Oct95
OP PARAMTR	312006100	76	Def.Ppt.Hydolysis Opr. Paramtrs	3Feb95	3Feb95	12Sep95
Primary Task..	SAR					
Organization..	GTG					
CRITICLTY	314007100	228	Assessment of DMPF Criticality	21Oct94	21Oct94	16Dec94
Primary Task..	SLUDGE OPS					
Organization..	GTG					
GWSB MODEL	314010100	361	GWSB Heat Transfer. Model	22Sep95	15Nov95	5Aug96
Primary Task..	SUPPORT					
Organization..	GTG					
HLC UPGRAD	314009100	253	Upgrades to HLC Support Activity	29Sep94	30Sep94	29Sep94
GAMMA IRRD	314010500	253	Gamma Irradiation Support	29Sep94	29Sep94	19Dec94
TASK TEAMS	314011100	201	Misc. Task Team Activities	29Sep94	29Sep94	29Sep94
EMERGENT	314013400	253	Emergent Work Support Activities	29Sep94	30Sep94	7Oct94
OTD	314013500	253	OTD Support Activities	29Sep94	30Sep94	10Nov94
Primary Task..	SUPPORT					
Organization..	LSE					
EMERGENT	311013400	253	Emergent Work Support Activities	29Sep94	30Sep94	29Sep94

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Subtask	Activity	Plan Durn	Description	Prjcted Complt	Requird Complt	Sched Complt
Primary Task.. SUPPORT						
Organization.. PMC						
XS MATL	313001800	130	Waste Mgt. Excess Mat'l Activity	26May94	26May94	12May94
HLWIFM	313002900	45	DWPF/HLWIFM Activities	20Jun94	20Jun94	6Jun94
HOLLEDGE	313004200	277	Holledge Support	19Aug94	16Sep94	5Aug94
TASK TEAM	313012100	263	Misc. Task Team Activities	21Oct94	21Oct94	7Oct94
EMERGENT	313013400	253	Emergent Work Support Activities	29Sep94	30Sep94	4Oct94
Primary Task.. SUPPORT						
Organization.. PTD						
TASK TEAMS	312012100	268	Misc. Task Team Activities	29Sep94	29Sep94	29Sep94
EMERGENT	312013400	253	Emergent Work Support Activities	29Sep94	30Sep94	6Oct94
Primary Task.. WQ REP						
Organization.. GTG						
VOL. 7	314007200	186	Volume 7 Activities	24Jun94	26Apr95	10Jun94
VOL. 4	314007300	463	Volume 4 Activities	21Feb96	21Feb96	21Feb96
VOL. 2	314007400	466	Volume 2 Activities	21Feb96	21Feb96	21Feb96
VOL. 5	314007500	466	Volume 5 Activities	21Feb96	21Feb96	21Feb96
VOL. 9	314007600	13	Volume 9 Activities	19Sep95	19Sep95	19Sep95
Primary Task.. WQR						
Organization.. GTG						
HNO3 METHD	314006100	199	Nitric Acid Method	19Jul94	12Dec94	5Jul94
QR GLASS	314008300	165	Char.WQR Canister Glass Samples	8Jun95	5May95	22Jul96
PCCS SOLUB	314009200	101	Salt Solubility Studies (PCCS)	23Aug94	2Sep94	21Feb95
Primary Task.. WQR						
Organization.. PMC						
EDUCTOR	313004300	162	Sample Overflow Mod. Support	13May94	13May94	25May94
PCCS 3.0	313004500	332	PCCS v3.0	6Jan95	14Nov94	9Aug95
Primary Task.. WQR						
Organization.. PTD						
SOLID CONC	312003116	86	Rheology Studies (WP 15)	18Aug94	22Dec94	20Dec94
SOLID CONC	312003122	86	Rheology Studies (WP 16)	18Aug94	9Feb95	24Jan95
NITROARHTC	312003900	181	Nitroaromatic Content of Recycle	8Dec94	14Dec94	21Feb95
DIPHENYL	312006500	156	Ppt. Hydrolysis Diphenylmercury	15Jul94	27Jan95	16Mar95
SPC PRS	312010100	309	Prep. of SPC Process Rqts	29Nov94	16Nov94	16Nov94
MFP PRS	312010110	207	Prep. of MFP Process Rqts	21Jun94	17Jun94	13Jun94
LPPP PRS	312010120	55	Prep. of LPPP Process Rqts	6Jul94	5Aug94	16Aug94
GWSB PRS	312010130	88	Prep. of GWSB Process Rqts	8Jul94	8Jul94	8Jul94
HGP&S PRS	312010140	174	Prep. of HGP&S Process Rqts	6May94	15Apr94	13May94

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Subtask	Activity	Plan Durn	Description	Prjcted Complt	Requird Complt	Sched Complt
Primary Task.. WQR						
Organization.. PTD						
ANALYT PRS	312010160	118	Prep. of Analyt. Process Reqts	10Oct94	12Sep94	10Oct94
HVAC PRS	312010180	108	Preparation of HVAC Process Reqt	20Sep94	15Nov94	6Sep94

VI. C. Level 2 Schedules Sorted by Technology Issue

This is a recently added capability that pulls all of the identified efforts that tie directly to a Technology Issue together. This will be used in the monthly TI reviews with DWPF and DOE-SR.

Technical Issues Schedule

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Tech. Issue	Primary Task	Subtask	Plan Durn Description	Sched. Start	Sched. Comp.	Reqd Start	Reqd Comp.	Tot. Activity Flt. ID
TI 03.6	MLTR TEST	SPC CLEAN	137 SPC Vessel Cleaning Techniques	14Dec93	9Aug94	14Dec93	27May94	-23 312001100
TI 03.6	RAD OPS	SPC CLEAN	321 SPC Vessel Cleaning Techniques	18Apr94	27Jul95	5Apr94	14Jul95	-21 312001140
TI 03.6	RAD OPS	SIM. PHA	405 PHA Simulant, Sldge-only & LW S/U	8Feb93	5May95	8Feb93	14Jul95	204 312003450
TI 03.6	MERCURY RUN	PHP CLEAN	96 PHP Fouled Surface Cleanup	26Jul94	9Dec94	31Jan95	19Jun95	123 314006600
TI 03.7	H2/NH3 MODS	NH3 SCRUBR	77 NH3 Scrubber Demo Initial Report	4Apr94	1Aug94	7Apr94	15Aug94	4 311009500
TI 03.7	RAD OPS	NH3 SCRUBR	29 NH3 Scrubber Demo Final Report	2Aug94	17Oct94	22Sep94	1Nov94	41 311009570
TI 04.10	DWPF SUPPORT	ALT MEAS.	311 Alternate Liquid Level Measure.	20Jan94	31May95	7Feb94	13Apr95	-13 313003050
TI 04.12	MLTR TEST	1/200 SRAT	221 SRAT Coil Fouling w/Batches	23Jul93	24May94	23Jul93	9Jun94	0 312003200
TI 04.12	MLTR TEST	CU(NO3)2	221 Copper Nitrate Replacement	16Aug93	28Dec94	16Aug93	13Jun94	-14 312003800
TI 04.2	IDMS/PHEF	FAVC HG	121 Measure/Doc. Hg Behavior in FAVC	7Dec93	22Jun94	7Dec93	15Sep94	73 311009040
TI 04.22	MERCURY RUN	PVVS CLEAN	229 CPC VVS Cleaning	10Jan94	3Jan95	26Jan94	22Dec94	0 311009200
TI 04.23	IDMS/PHEF	CPC ANALYZR	225 CPC Analyzer Activities	15Dec93	1Nov94	15Dec93	7Nov94	0 311009800
TI 04.24	DWPF SUPPORT	PUMP TEST	201 Pump Operational Testing at TNX	18Mar94	20Jan95	6Apr94	24Jan95	0 313002700
TI 04.25	MLTR TEST	LAYUP	266 Melter/Ppt. Layup Impact Analy.	2May94	27Sep95	29Apr94	26May95	0 312006200
TI 10.1	FA 09	HEME/HEPA	157 HEME/HEPA Digestion Analysis	14Jan94	11Aug94	14Jan94	1Aug94	-20 312009100
TI 14.1	MERCURY RUN	HMWT/PUMP	89 Hg Pump & Recvry/Water Wash Tank	8Mar94	14Jul94	24Mar94	30Oct94	44 311009150
TI 17.1	WQ REP	VOL. 7	198 Volume 7 Activities	28Sep93	24Jun94	28Sep93	26Apr95	196 314007200
TI 17.1	WQ REP	VOL. 4	451 Volume 4 Activities	26Jul94	21Feb96	6Dec95	21Feb96	0 314007300
TI 17.1	WQ REP	VOL. 2	454 Volume 2 Activities	18Apr94	21Feb96	27Apr94	21Feb96	0 314007400
TI 17.1	WQ REP	VOL. 5	454 Volume 5 Activities	18Apr94	21Feb96	27Apr94	21Feb96	0 314007500
TI 17.1	WQ REP	VOL. 9	13 Volume 9 Activities	1Sep95	19Sep95	1Sep95	19Sep95	0 314007600
TI 17.3	WOR	PCCS 3.0	344 PCCS v3.0	8Sep93	4Aug95	8Sep93	14Nov94	-46 313004500
TI 17.3	MERCURY RUN	PCCS 3.1	176 PCCS version 3.1	18Apr94	6Jan95	4May94	17Jan95	0 313004600
TI 17.3	RAD OPS	PCCS 4.0	394 PCCS version 4.0	18Apr94	15Nov95	4May94	24Nov95	0 313004700
TI 17.3	RAD OPS	PCCS 4.1	472 PCCS version 4.1	18Apr94	7Mar96	20Nov95	18Mar96	0 313004800
TI 17.5	MLTR TEST	FA 10.02	109 Melter Feed Loop Sampl'g Rqts.	19Jan94	17Nov94	19Jan94	19Apr94	-46 313001700
TI 24.1	SAR	CRITICLTY	240 Assessment of DWPF Criticality	23Nov93	6Jan95	23Nov93	8Nov94	0 314007100
TI 26.2	LATE WASH	ENGR SCALE	49 LWFDU Engineering Scale Testing	8Mar94	16May94	24Mar94	1Sep94	63 312002100
TI 26.2	LATE WASH	LW MODEL	31 Model Late Wash System	1Mar95	21Jun95	24Feb95	7Apr95	0 312002200
TI 26.2	LATE WASH	VISCOSITY	15 Det.LW Steams Viscosity vs.Temp	14Jul94	8Aug94	5Jul94	25Jul94	0 312002300
TI 26.2	LATE WASH	180G KTPB	156 Irrad. Batch 1 KTPB (LWFDU)	20Jan94	7Sep94	7Feb94	21Jun94	-62 312003060
TI 26.2	LATE WASH	BZ SPARGE	123 Benzene Sparging Studies	24Jan94	5Aug94	24Jan94	20Jul94	0 312003500
TI 26.2	LATE WASH	CROSSFLOW	654 Cross-flow Filtr DF w/Non-rad Cs	11Nov93	12Jul96	10Dec93	9Jul96	0 312003600
TI 26.2	LATE WASH	LWFDU	674 Late Wash Facility Demo. Unit	23Apr93	18Dec95	23Apr93	29Dec95	0 312003700
TI 26.2	LATE WASH	3KGAL KTPB	131 Irrad. 3000 gal KTPB Simulant	15Apr94	20Oct94	3May94	30Oct94	-25 312004300

Attachment 1

Outline - DWPT

5-Year

Attachment I

A. SRTC Support by DWPF System

This section shows SRTC Programs by DWPF system and prioritized by year. This list is used to develop the 5 year plan and is implemented in the SRTC/DWPF Integrated Development Schedule.

SRTC Support by Fiscal Year, Planning System, and Priority

Year - FY94

DWPF	All DWPF Systems
1	Batch 1/ Simulated PPT Material Balance
1	SAR Technical Bases support
1	Issue Process Requirements for Radioactive Operations
1	Support HLW Integrated modeling programs
1	Batch 1 Sludge IDMS, 2 run
1	Batch 1 with precipitate, 1 run
1	Batch 1 Material Balance
1	Test Cold Run/Qual Run Material Balances (5 & 6)
2	Complete Batch Model Development
2	Begin data management and automation enhancement
2	Maintain SRTC Facilities to support HLW programs (Requires Capital funds for SC's, Equipment, Pilots)
2	Develop or Identify technology for DWPF Liquid Recycle Minimization, TI 4.23
2	Upgrade CPES (salt cell VLE)
3	SAR Reformat
AN	Analytical
1	Analytical Backup Lab support for DWPF Startup
1	Analytical Methods for CCR and Rad Operations, TI 17.4
CCFP	Chemical Cell Feed Preparation
1	WP-19.01 Analytical and Statistical support
1	Holledge Gauge support and calibration, TI 4.10
1	HEME/HEPA dissolution, TI 4.10
1	Determine Impact of extended SPC outage with precipitate slurry batch in the PRFT, TI 4.25
1	Test precipitate hydrolysis/precipitation with real feeds (HLC), TI 4.4
1	Develop basic understanding of foam formation in DWPF processes
2	Recommend alternate Liquid Level Measurement (Holledge Gauges), TI 4.10
2	Hg pump testing/Hg recovery, TI 14.1, TI 14.2
3	Define Debottlenecking strategy for PRBT
CCOGS	Chemical Cell Off-Gas System
1	Determine fate of ammonium across DWPF and Ammonia Scrubber Demonstration, TI 3.7
1	Fate of Organics in PVVS
2	Evaluate Ammonium Nitrate hazard, TI 4.22
LW	Late Wash
1	Complete fabrication and startup of LWFDU, TI 26.2
1	Begin LWFDU test program, TI 26.2
1	Define final process operating parameters for benzene sparging in LWFDU, TI 26.2
ME	Melter
1	Thermally Cold Melter Startup
2	Inconel 690 studies, TI 4.25

SRTC Support by Fiscal Year, Planning System, and Priority

- MFP Melter Feed Preparation
 - 1 Determine if heat transfer surfaces will foul with successive SRAT cycles, TI 4.12
 - 1 Define process constraints to ensure process meets rheology constraints for each feed batch, TI 4.7
 - 2 MFT Homogeneity Tests (FA10.02)
 - 2 Corrosion evaluation (IDMS coupons), TI 4.25
 - 3 Recommend process parameters to meet equipment rheology constraints for Batch 2
- MEOGS Melter Off-Gas System
 - 2 Melter Offgas system Df's
- PH Precipitate Hydrolysis
 - 1 Nuclear criticality, TI 4.24, TI 4.12
 - 1 Issue Precipitate Hydrolysis Tech Basis for Radioactive Operations, TI 4.4, TI 3.6
 - 1 Update H2 G values for DWPF process streams
 - 1 Characterize Tank 48 & irradiated simulants for composition/rheology at absorbed doses up to 1K megarad
 - 1 Assess use of alternative acids as a portion of the Precipitate Hydrolysis reqmt to reduce H2 generation
 - 2 Reduce Cu catalyst requirements (Glass constraints/loading)
- PC Process Control
 - 1 Provide Technical Bases for Late Wash Facility
 - 1 Modify Covariance Matrices, TI 17.3
- PST Process Support and Troubleshooting
 - 1 Cold runs support - consultation and in-resident
 - 1 Statistical design support and data analysis for DWPF Startup
 - 1 Equipment and Materials problem resolution
 - 1 Run in vessels, pumps, and agitators
- SCOGS Salt Cell Off-Gas
 - 2 SPC and CPC cleaning methods, TI 3.6, TI 4.22
- WCP Waste Compliance
 - 1 Qualification Runs support - canister and glass product
 - 1 Welder parametric studies
 - 1 Test Actual Radioactive sludge in Shielded Cells
 - 1 Waste Compliance Report and supporting documentation (T-T-T studies)
 - 2 Improve liquidus model, TI 17.3
 - 2 Glass Waste Storage Building Analyses
 - 3 Analyze/Archive DWPF Product Glass (Shielded Cells)

SRTC Support by Fiscal Year, Planning System, and Priority

Year - FY95

DWPF	All DWPF Systems
1	Issue DWPF SAR
1	Batch 2 Material Balance
2	Determine sludge and supernate requirements for DWPF for Batch 2
3	Startup support - consultation and in-resident
AN	Analytical
3	Analytical support for Technical Development/Optimization
3	Backup Analytical support for Support for DWPF
CCFP	Chemical Cell Feed Preparation
1	Continue resolution of foam-related issues in DWPF processes
2	Continue support for optimal tank level measurement
3	Determine frit composition requirements for DWPF for Batch 2
ME	Melter
1	Repair/Modify IDMS Melter, TI 4.4
2	Evaluation of Ion Exchange, Impact on LSE runs
3	Extend Melter life by cleanup of heavy metals accumulation
3	Stirred Melter development for higher throughput capability and waste minimization
3	Heavy metals accumulation and remediation
MFP	Melter Feed Preparation
1	Define process constraints to ensure process meets rheology constraints for each feed batch, TI 3.7
2	DWPF Process Tanks Homogeneity Evaluations and Operating strategies
2	DWPF Ongoing materials corrosion evaluation
PC	Process Control
1	PCCS v. 4.0 for Nitric Acid, TI 17.3
1	PCCS v. 5.0 to accommodate Process variations, TI 17.3
1	PCCS validation support, TI 17.3
1	Update Covariance Matrices for Radioactive Operations
PST	Process Support and Troubleshooting
1	Statistical design support and data analysis for DWPF Startup
1	Equipment and Materials problem resolution
1	Startup Problem resolution and on-shift advisory support
SCOGS	Salt Cell Off-Gas
2*	SPC Flammability Control
WCP	Waste Compliance
1	Qualification Runs support - canister and glass product
1	Maintain Waste Compliance Report
2	Glass Waste Storage Building Analyses
3	Analyze/Archive DWPF Product Glass (Shielded Cells)

SRTC Support by Fiscal Year, Planning System, and Priority

Year - FY96

DWPF	All DWPF Systems
1	DWPF SAR Maintenance
1	Successive Batches Material Balance
1	Support HLW Integrated modeling programs
3	Startup Radioactive Operations support - consultation and in-resident
AN	Analytical
2	Analytical support for Technical Development/Optimization
3	Backup Analytical support for Support for DWPF
CCFP	Chemical Cell Feed Preparation
1	Continue resolution of foam-related issues in DWPF processes
2	Continue support for optimal tank level measurement
ME	Melter
2	Evaluation of Ion Exchange, impact on LSE runs
3	Stirred Melter development for higher throughput capability and waste minimization
3	Heavy metals accumulation and remediation
MFP	Melter Feed Preparation
1	Define process constraints to ensure process meets rheology constraints for each feed batch, TI 3.7
2	DWPF Process Tanks Homogeneity Evaluations and Operating strategies
2	DWPF Ongoing materials corrosion evaluation
PC	Process Control
1	PCCS ver 6.0 (Kalman Filter)
1	PCCS ver 7.0 (Rad Ops)
PST	Process Support and Troubleshooting
1	Statistical design support and data analysis for DWPF Startup/Operations
1	Equipment and Materials problem resolution
1	Startup Problem resolution and on-shift advisory support
WCP	Waste Compliance
1	Maintain Waste Compliance Report
3	Analyze/Archive DWPF Product Glass (Shielded Cells)

SRTC Support by Fiscal Year, Planning System, and Priority

Year - FY97

All DWPF Systems

- 1 Support HLW integrated modeling programs

B. Defense Waste Processing Technology
Development Programs
Prioritized by DWPF

DWPT Technology Support to DWPF

Priority 1

- Cold runs support-consultation and in-resident
 - FA-10.02 - MFT Operation with Simulated Feed
 - FA-11.01 - Controlled Incremental Heatup of Melter
 - FA-13.01 - Melter Characterization with Composite Feed
- Qualification Runs support-canister and glass product
 - FA-13.01 - Melter Characterization with Composite Feed
 - WP-14.01 - Melter Characterization with Doped Feed
 - WP-15.01 - Melter Characterization with Low Viscosity Glass
 - WP-16.01 - Melter Characterization with High Viscosity Glass
 - WP-17.01 - Melter Characterization with Mercury
- Analytical Backup Lab support for DWPF Startup
 - FA-10.02 - MFT Operation with Simulated Feed
 - FA-11.01 - Controlled Incremental Heatup of Melter
 - FA-13.01 - Melter Characterization with Composite Feed
 - WP-14.01 - Melter Characterization with Doped Feed
 - WP-15.01 - Melter Characterization with Low Viscosity Glass
 - WP-16.01 - Melter Characterization with High Viscosity Glass
 - WP-17.01 - Melter Characterization with Mercury
- WP-19.01 Analytical and Statistical support
 - WP-19.01 Remote Process Sampling During Cold Runs
- Statistical design support and data analysis for DWPF Startup
 - FA-10.02 - MFT Operation with Simulated Feed
 - FA-11.01 - Controlled Incremental Heatup of Melter
 - FA-13.01 - Melter Characterization with Composite Feed
 - WP-14.01 - Melter Characterization with Doped Feed
 - WP-15.01 - Melter Characterization with Low Viscosity Glass
 - WP-16.01 - Melter Characterization with High Viscosity Glass
 - WP-17.01 - Melter Characterization with Mercury
- Batch 1/Simulated PPT Material Balance
 - FA-20.01 - Transition to Radioactive Operation
 - Sustained Radioactive Operation
 - Waste Compliance
- Welder parametric studies
 - WP-24.02 - Demonstration of Production Welds
 - WP-24.03 - Canister Repair Welding Parameteric Study

- Equipment and Materials problem resolution
 - FA-4.02 - Process Vessel Erosion Evaluation
 - FA-4.03 - Process Vessels Corrosion Evaluation
 - FA-5.01 - Melter Erosion Evaluation - Baseline
 - FA-5.02 - Melter Erosion Evaluation - Post Cold Runs
- SAR Technical Bases for Late Wash Facility
 - No Test Tie, Required for Startup
- PCCS v. 4.0 for Nitric Acid, TI 17.3
 - FA-11.01 - Controlled Incremental Heatup of Melter
 - FA-13.01 - Melter Characterization with Composite Feed
 - WP-14.01 - Melter Characterization with Doped Feed
 - WP-15.01 - Melter Characterization with Low Viscosity Glass
 - WP-16.01 - Melter Characterization with High Viscosity Glass
 - WP-17.01 - Melter Characterization with Mercury
- PCCS v. 5.0 to accommodate Process variations, TI 17.3
 - Supports Waste Acceptance
- PCCS validation support, TI 17.3
 - Supports Waste Acceptance
- Modify Covariance Matrices, TO 17.3
 - Supports Waste Acceptance
- Analytical Methods for CCR and Rad Operations, TI 17.4
 - FA-11.01 - Controlled Incremental Heatup of Melter
 - FA-13.01 - Melter Characterization with Composite Feed
 - WP-14.01 - Melter Characterization with Doped Feed
 - WP-15.01 - Melter Characterization with Low Viscosity Glass
 - WP-16.01 - Melter Characterization with High Viscosity Glass
 - WP-17.01 - Melter Characterization with Mercury
 - WP-18.01 - Melter Characterization with Radioactive Spike
 - WP-20.01 - Transition to Radioactive Operation
 - WP-20.03 - Determination of Precision and Accuracy of Radionuclide Inventory Methods
- Run in vessels, pumps, and agitators
 - General Operational Support
- Hollidge Gauge support and calibration, TI 4.10
 - General Operational Support
- HEME/HEPA dissolution, TI 4.10
 - FA-9.01 - HEME/HEPA Dissolution

- Nuclear criticality, TI 4.24, TI 4.12
 - WP-20.01 - Transition to Radioactive Operation
- Define process constraints to ensure process meets rheology constraints for each feed batch, TI 3.7
 - Radioactive Operations Support
- Determine impact of extended SPC outage with precipitate slurry batch in the PRFT, TI 4.25
 - WP-14.01 - Melter Characterization with Doped Feed
- Complete fabrication and startup of LWFDU, TI 26.2
 - Late Wash Facility Support - Startup Testing Requirement to be Specified Later
- Begin LWFDU test program, TI 26.2
 - Late Wash Facility Support - Startup Testing Requirement to be Specified Later
- Define final process operating parameters for benzene sparging in LWF., TI 26.2
 - Late Wash Facility Support - Startup Testing Requirement to be Specified Later
- Issue Precipitate Hydrolysis Tech Basis for Radioactive Operations, TI 4.4, TI 3.6
 - WP-20.01 - Transition to Radioactive Operation
- Issue Process Requirements for Radioactive Operations
 - WP-20.01 - Transition to Radioactive Operation
- Test Tank 37 sludge in HLC
 - WP-20.01 - Transition to Radioactive Operation
- Determine if heat transfer surfaces will foul with successive SRAT cycles, TI 4.12
 - General Support of Processing
- Repair/Modify IDMS Melter, TI 4.4
 - General Support of Processing
- Determine fate of ammonium across ~~DEZ~~ DWPF, Ammonia Scrubber Demonstration, TI 3.7
 - FA-47.02 - Ammonia Scrubber System
 - FA-47.04 - Integrated System Operation Following Hot Hydrogen Mods
 - FA-47.05 - Integrated Operation During Processing Following HOt Hydrogen Mods.
- Test precipitate hydrolysis/precipitation with real feeds (HLD), TI 4.4
 - General Process Support
- Support HLW integrated modeling programs
 - General Process Support

- Batch 1 Sludge IDMS, 2 run
 - o WP-20.01 - Transition to Radioactive Operation
- Batch 1 with precipitate, 1 run
 - o WP-20.01 - Transition to Radioactive Operation
- Batch 1 Material Balance
 - o WP-20.01 - Transition to Radioactive Operation
- Test 5 & 6 Material Balances
 - o WP-17.01 - Melter Characterization with Mercury
 - o WP-18.01 - Melter Characterization with Radioactive Spike
- Update H2 G values for DWPF process streams
 - o WP-20.01 - Transition to Radioactive Operation
- Characterize Tank 48 for composition and rheology at absorbed doses up to 1,000 megarad
 - o WP-20.01 - Transition to Radioactive Operation
- Develop basic understanding of foam formation in DWPF processes
 - General Process Support
- Assess use of alternative acids as a portion of the Precipitate Hydrolysis reqmt to reduce H2 emission
 - Process Safety Improvement

DWPT Technology Support to DWPF

Priority 2

- Assess application of cross-flow filter technology for ITP, LWF, and ESP
 - Late Wash Project Support (Test Requirements TBD)
- MFT Homogeneity Tests (FA10.02)
 - FA-10.02 - MFT Operation with Simulated Feed
- Recommend alternate Liquid Level Measurement (Hollidge Gauges), TI 4.10
 - General Process Support
- Evaluation of Ion Exchange, impact on LSE runs
 - Technology Development
- SPC and CPC cleaning methods, TI 3.6, TI 4.22
 - General Process Support
- Corrosion evaluation (IDMS coupons), TI 4.25
 - FA-4.03 - Process Vessel Corrosion Evaluation
- Inconel 690 studies, TI 4.25
 - Material Development
- Hg pump testing/Hg recovery, TI 14.1, TI 14.2
 - WP-17.01 - Melter Characterization with Mercury
- Complete Batch Model Development
 - General Process Support, Integration of DWPF with HLW Processing
- Improve liquidus model, TI 4.22
 - General Process Support
- Evaluate Ammonium Nitrate hazard, TI 4.22
 - FA-47.02 - Ammonia Scrubber System
 - FA-47.04 - Integrated System Operation Following Hot Hydrogen Mods
 - FA-47.05 - Integrated Operation During Processing Following Hot Hydrogen Mods.
- Begin data management and automation enhancement
 - General Support
- Maintain SRTC Facilities to support HLW programs (Requires Capital funds for SC's, Equipment, Pilots)
 - General Support
- Develop or identify technology for DWPF Liquid Recycle Minimization, TI 4.23

DWPT Technology Support to DWPF

Priority 3

- **Stirred Melter development for higher throughput capability and waste minimization**
Process Improvement
 - **Determine sludge and supernate requirements for DWPF for Batch 2**
Process Support / Waste Acceptance
 - **Determine frit composition requirements for DWPF for Batch 2**
Process Support / Waste Acceptance
 - **Recommend process parameters to meet equipment rheology constraints for Batch 2**
Process Support / Waste Acceptance
 - **SAR Reformat**
General Support
 - **Radioactive Operations support-consultation and in-resident**
General Support
 - **Analyze/Archive DWPF Product Glass (Shielded Calls)**
Waste Acceptance
 - **Extend Melter life by cleanout of heavy metals accumulation**
General Support
 - **Fate of Noble Metals**
General Support
 - **Define Debottlenecking strategy for PRBT**
Process Improvement
-

General Support

- Upgrade CPES (salt cell ULE)
General Support
- Reduce Cu catalyst requirements
Process Improvement

SRTC/DWPF Level 3 Integrated Development Schedule

This schedule provides a dynamic working level schedule. It is formatted by DWPF test and hammocks words to the Level 2 schedule shown in VI. B. This is the schedule that is used to both monitor day to day work and assess impact of emerging work. Due the Level of detail and the level of emerging work, the schedule is out of date essentially as it is issued. However, it is used on a day to day basis and has become an essential tool. The Level 2 schedule is generally only affected by emerging work with a large scope or that affects resources assigned to programs on the critical path for DWPF startup.

Attachment 2

Example Level 3 Schedule

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Activity Plan ID Number Durn M/D Description	Sched Start	Sched Comp	Reqd Start	Reqd Comp	Tot. Flt.	Cust Reqd Date	Resource	Res. Delaying Del. Resource	X Com M
Primary Task.. DMPF SUPPORT									
Subtask..... BATCHES									
Organization.. PMC									
313010170 120 40 Evaluate BATCHES/Issue Comparison	25Mar94	9Mar95	19May95	9Oct95	142		SMITHF	0	17
Primary Task.. DMPF SUPPORT									
Subtask..... BLEND CALC									
Organization.. PMC									
313004900 313 0 Perform/Document Blend Calc.	14Oct93	17Jan94	14Oct93	13Dec94	-23		BROWN	0	0
313004910 140 15 Blend Calc./Doc. for DMPF (CCR)	16May94	16May94	20Apr94	20Jun94	-16		BROWN	35	71 x
313004915 120 30 Verify Blend Calc. for DMPF (CCR)	25Jul94	25Jul94	21Mar94	12Dec94	-23		SMITHF	6	0 x
313004920 150 8 Blend Calc./Doc. for Batch 1 (HLC)	25Mar94	15Aug94	11Mar94	1Aug94	-9	1Aug94	BROWN	0	35 x
313004930 120 8 Blend Calc./Doc. for IDMS(PX6/PX7)	16May94	16May94	27Apr94	22Jul94	-12	22Jul94	BROWN	35	50
313004940 130 15 Blend Calc./Doc. for 1/200 SRAT	19Mar94	14Nov94	11Nov94	1Dec94	18		BROWN	97	85
313004950 20 5 Doc. Blend Calculations for ESP	25Mar94	29Apr94	18Mar94	15Apr94	-9	15Apr94	BROWN	0	0
313004999 1 0 Compl. Perform/Doc. Blend Calc.	17Jan95	17Jan95	13Dec94	13Dec94	-23	13Dec94	BROWN	0	0
Primary Task.. DMPF SUPPORT									
Subtask..... CATALYSTS									
Organization.. PTD									
312006300 224 0 Ppt. Hydrolysis Catalyst Eval.	21Jan94	12Dec94	21Jan94	14Oct94	-39		BANNOCHIE	0	0
312006320 50 15 Det. Cur Conc. Profiles (Irrad.)	25Mar94	20May94	25Mar94	20May94	0		BANNOCHIE	0	20
312006325 5 2 Run Hydr. w/Large Pre-rxn Heel	23May94	27May94	23May94	27May94	0		BANNOCHIE	0	0
312006330 5 2 Run Ambient Temp. Hydrolysis	19Jul94	25Jul94	31May94	6Jun94	-32		MAREK	33	0
312006335 60 12 Run/Analy. Sparge Tests (Unirr.)	27Jul94	19Oct94	7Jun94	31Aug94	-32		BANNOCHIE	1	0
312006340 60 12 Run/Analy. Sparge Tests (Irrad.)	2Aug94	25Oct94	7Jun94	31Aug94	-34		BANNOCHIE	5	0
312006345 30 10 Doc. Lab-Scale Sparge Tests	27Oct94	9Dec94	1Sep94	13Oct94	-38		BANNOCHIE	1	0
312006350 60 10 Run Sparge Test in 1/200 (Unirr)	26Jul94	18Oct94	7Jun94	31Aug94	-32		BANNOCHIE	1	0
312006355 15 5 Doc. 1/200 SRAT Sparge Tests	20Oct94	9Nov94	1Sep94	22Sep94	-32		BANNOCHIE	0	0
312006360 15 5 Run Cu2O Tests	25Mar94	19Apr94	6Jul94	20Jul94	61		BANNOCHIE	3	27
312006365 15 5 Run Raney Cu Tests	30Mar94	26Apr94	6Jul94	20Jul94	56		BANNOCHIE	0	27
312006370 30 7 Analyze Catalyst Tests	27Apr94	8Jun94	21Jul94	31Aug94	56		BANNOCHIE	0	0
312006375 30 10 Doc. Catalyst Recommendation	9Jun94	22Jul94	1Sep94	13Oct94	55		BANNOCHIE	0	0
312006399 1 0 Complete Catalyst Studies	12Dec94	12Dec94	14Oct94	14Oct94	-39		BANNOCHIE	0	0
Primary Task.. DMPF SUPPORT									
Subtask..... CPESH									
Organization.. PMC									
313010400 161 0 Mat'l Balance for Batches 2-6	25Feb94	14Oct94	25Feb94	7Jul94	-66		CHOI	0	0
313010410 38 15 Dev. Batch 2 Material Balance	27Apr94	15Jul94	25Mar94	20Apr94	-57		CHOI	22	55
313010420 52 25 Dev. Batch 3-6 Material Balance	2Aug94	13Oct94	21Apr94	6Jul94	-66		CHOI	11	0
313010499 1 0 Compl. Mat'l Bal. Batches 2-6	14Oct94	14Oct94	7Jul94	7Jul94	-66		CHOI	0	0

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ID Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del. Resource	Com M

Primary Task.. DMPF SUPPORT
Subtask..... FRIT 202
Organization.. GTG

314001800	164	0	Frit 202 Standards Analysis	25Mar94	16Nov94	13Apr94	10Dec94	10	SCHUMACHER	0	0
314001810	100	10	Analyze Frit 202 Standards	25Mar94	17Aug94	13Apr94	28Sep94	10	SCHUMACHER	0	0
314001820	60	10	Doc. Frit 202 Standards	22Aug94	15Nov94	6Sep94	30Nov94	10	SCHUMACHER	2	0
314001899	1	0	Compl. Frit 202 Standards Analy.	16Nov94	16Nov94	10Dec94	10Dec94	10		0	0

Primary Task.. DMPF SUPPORT
Subtask..... HCOOH ALT.
Organization.. PTD

312001300	165	0	Alt. Acid for Ppt. Hydrolysis	25Mar94	17Nov94	25Mar94	18Oct94	-22	SHOOK	0	0
312001310	120	10	Document Results pre-1994	25Mar94	15Sep94	25Apr94	13Oct94	18	SHOOK	0	0
312001320	80	56	Determine Acid Ratio	25Mar94	18Aug94	25Mar94	28Jul94	-19	SHOOK	0	0
312001330	70	4	Perf. SRAT/SME Cycle w/PHEF PHA	19Aug94	18Sep94	21Jul94	17Aug94	-20	NSU	0	0
312001340	5	0	Determine Redox of Melter Feed	19Sep94	23Sep94	18Aug94	24Aug94	-20	TBD	0	0
312001350	5	2	Test Recomm. Proc. in Lab-Scale	29Sep94	5Oct94	23Aug94	21Aug94	-23	BANNOCHIE	3	0
312001360	30	20	Document Results	6Oct94	16Nov94	1Sep94	13Oct94	-22	SHOOK	0	0
312001399	1	0	Compl. Ppt. Hydrolysis Alt. Acid	17Nov94	17Nov94	18Oct94	18Oct94	-22		0	0

Primary Task.. DMPF SUPPORT
Subtask..... HYDROGEN
Organization.. PTD

312002700	68	0	H2 Evolution during Acid Trimm'g	25Mar94	30Jun94	13May94	13Jun94	-11	NSU	0	0
312002710	20	5	Issue Task/QA Plans	25Mar94	28Jun94	13May94	10Jun94	-12	NSU	0	0
312002720	30	6	Perform Lab-Scale Trim Expr.	20May94	18Jul94	13May94	24Jun94	-16	NSU	0	0
312002730	20	4	Document Results	24May94	29Jun94	13May94	10Jun94	-12	NSU	0	0
312002799	1	0	Compl. H2 Evolution during Trim'g	30Jun94	30Jun94	13Jun94	13Jun94	-11		0	0

Primary Task.. DMPF SUPPORT
Subtask..... KTP SLURRY
Organization.. PTD

312003040	253	0	Chem.Comp.of Irrad. KTPB Simulnt	27Sep93	29Sep94	27Sep93	30Sep94	0	EIBLING	0	0
312003041	252	20	Characterize Irrad. KTP Slurry	25Mar94	28Sep94	28Mar94	29Sep94	0		0	0
312003049	1	0	Compl.Irrad. Pppt. Comp. Charztn	29Sep94	29Sep94	30Sep94	30Sep94	0		0	0

Primary Task.. DMPF SUPPORT
Subtask..... KTPB DOSE
Organization.. PTD

312002500	92	0	KTPB Sim. Absorbed Dose Effect	25Mar94	5Aug94	25Mar94	25Jul94	-7	BIBLERN	0	0
312002510	30	5	Irrad. 200-1000 megarad KTPB	25Mar94	6May94	25Mar94	6May94	0	EIBLING	0	0
312002520	20	5	Chem.Char.Irrad. KTPB (Ga.Toch)	19May94	19Aug94	9May94	6Jun94	-49	MONSON	7	0
312002530	5	2	Reprecipitate KTPB	31Aug94	7Sep94	7Jun94	13Jun94	-57	NAREK	16	0
312002540	5	2	Char.Rheology of Reprec. KTPB	30Sep94	6Oct94	14Jun94	20Jun94	-72	EIBLING	0	0
312002550	5	2	Document Results	7Oct94	13Oct94	21Jun94	27Jun94	-72		0	0

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						Date				
Primary Task.. DMPF SUPPORT										
Subtask..... KTPB DOSE										
Organization.. PTD										
12002599	1	0	Compl.KTPB Sin.Absorbed Dose Eff	140Oct94	140Oct94	28Jun94	28Jun94	-72	0	0
Primary Task.. DMPF SUPPORT										
Subtask..... PBA DECOMP										
Organization.. PTD										
12002900	31	0	Kinetics of SRAT PBA Decompositn	25Mar94	9May94	25Mar94	25Apr94	-9	0	0
12002910	20	5	Issue Task/QA Plans	25Mar94	30Apr94	25Mar94	22Apr94	-7	HSU	0
12002920	30	6	Perform Lab-Scale SRAT Cycles	4Apr94	19Apr94	25Mar94	9May94	-8	HSU	0
12002930	20	4	Document Results	11Apr94	9May94	25Mar94	22Apr94	-9	HSU	0
12002999	1	0	Compl.SRAT PBA Decomp. Kinetics	9May94	9May94	25Apr94	25Apr94	-9	0	0
Primary Task.. DMPF SUPPORT										
Subtask..... PH OFFGAS										
Organization.. PTD										
12006400	173	0	Hydrolysis Off-Gas Composition	4Apr94	8Dec94	12Sep94	6Mar95	58	0	0
12006410	20	2	Perf.Lab Hydr,Max.H/COOH-Unirrad	4Apr94	18May94	12Sep94	7Oct94	94	MAREK	0
12006415	20	2	Det.Composition-Max.H/COOH,unirr	15Apr94	15Jul94	12Sep94	7Oct94	88	HSU	0
12006420	20	2	Perf.Lab Hydr,Min.H/COOH-Unirrad	19May94	16Jun94	10Oct94	4Nov94	94	MAREK	0
12006425	20	2	Det.Composition-Min.H/COOH,unirr	18Jul94	12Aug94	10Oct94	4Nov94	56	HSU	0
12006430	20	2	Perf.Lab Hydr,Max.H/COOH-Irrad.	17Jun94	18Jul94	7Nov94	6Dec94	94	MAREK	0
12006435	20	2	Det.Composition-Max.H/COOH,irr	15Aug94	12Sep94	7Nov94	6Dec94	58	HSU	0
12006440	20	2	Perf.Lab Hydr,Min.H/COOH-Irrad.	19Jul94	15Aug94	7Dec94	6Jan95	96	MAREK	0
12006445	20	2	Det.Composition-Min.H/COOH,irr	13Sep94	10Oct94	7Dec94	6Jan95	58	HSU	0
12006450	20	5	Analyze Results	11Oct94	7Nov94	9Jan95	3Feb95	58	HSU	0
12006460	20	5	Document Results	8Nov94	7Dec94	6Feb95	3Mar95	57	HSU	0
12006499	1	0	Complete Ppt. Hydrolysis Off-Gas	8Dec94	8Dec94	6Mar95	6Mar95	58	6Mar95	0
Primary Task.. DMPF SUPPORT										
Subtask..... PROC CHEM										
Organization.. PTD										
12001900	161	0	ITP/ESP/DMPF Process Chemistry	25Mar94	11Nov94	25Mar94	28Oct94	-9	0	0
12001910	90	15	Issue ITP-DMPF Proc. Draft Rep.	25Mar94	17Aug94	25Mar94	3Aug94	-9	HSU	0
12001920	50	9	Review/Resolve Comments on Draft	18Aug94	27Oct94	4Aug94	13Oct94	-9	HSU	0
12001930	10	2	Issue ITP-DMPF Process Final Rep	28Oct94	10Nov94	14Oct94	27Oct94	-9	HSU	0
12001999	1	0	Compl.ITP/ESP/DMPF Process Chem.	11Nov94	11Nov94	28Oct94	28Oct94	-9	0	0
Primary Task.. DMPF SUPPORT										
Subtask..... PROCURMNT										
Organization.. GTG										
14013600	253	0	Canister Procurement Support	27Sep93	29Sep94	27Sep93	30Sep94	0	0	0
14013610	252	13	Canister Procurement	25Mar94	28Sep94	28Mar94	29Sep94	0	HARBOUR	49
14013699	1	0	Compl. Can Procurement Support	29Sep94	29Sep94	30Sep94	30Sep94	0	0	0

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D Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del. Resource	Com M
Primary Task.. DMPF SUPPORT									
Subtask..... PUMP TEST									
Organization.. PMC									
13002700 251 0 Pump Operational Testing at TNX	11Mar94	10Mar95	11Mar94	29Dec94	-47			0	0
13002710 200 30 Perform Pump Operational Test'g	25Mar94	9Mar95	25Mar94	28Dec94	-47		GILL	0	5
13002799 1 0 Compl. Pump Operational Test'g	10Mar95	10Mar95	29Dec94	29Dec94	-47			0	0
Primary Task.. DMPF SUPPORT									
Subtask..... SCUREF									
Organization.. PMC									
13003100 461 0 SCUREF Hollege Gauge Contract	20Dec93	20Dec95	10Oct93	20Jun95	-81			0	0
13003120 300 30 USC Develop CIP Software	25Mar94	12Jul95	25Mar94	19Jun95	-37		WEEKS	0	4
13003130 20 15 Document CIP Software	22Sep93	19Oct95	22May95	19Jun95	-81		WEEKS	48 WEEKS	0
13003199 1 0 Complete Hollege Gauge Contract	20Oct93	20Oct95	20Jun95	20Jun95	-81			0	0
Primary Task.. DMPF SUPPORT									
Subtask..... SPEEDUP									
Organization.. PMC									
13010100 349 0 Convert Batch Simultn to SPEEDUP	18Oct93	10Mar95	18Oct93	10Oct95	142			0	0
13010110 90 34 Issue Task/QA Plans	25Mar94	17Feb95	24May95	28Sep95	148		SMITHF	0	0
13010120 120 40 Dev. Prelim. CPC/Melter Model	31Jan95	23Feb95	13Sep95	28Sep95	144		SMITHF	212 SMITHF	90
13010130 380 40 Dev. Prelim. SPC Model	25Mar94	1Sep95	22Apr94	28Sep95	18		SMITHF	0	5
13010132 380 5 Dev. Prelim. SPC Model	25Mar94	28Sep95	25Mar94	28Sep95	0		CHOI	0	0
13010140 380 40 Dev. Prelim. Chemistry Models	11Jul94	15Nov95	19May94	28Sep95	-32		SMITHF	34 SMITHF	10
13010150 40 20 Complete Initial Batch Model	9Oct95	15Nov95	21Aug95	28Sep95	-32		SMITHF	0	30
13010180 90 30 Issue Preliminary Report	25May94	3Mar95	5Jun95	9Oct95	146		SMITHF	0	0
13010199 1 0 Complete Conversion to SPEEDUP	10Mar95	10Mar95	10Oct95	10Oct95	142	10Oct95		0	0
Primary Task.. DMPF SUPPORT									
Subtask..... TANK HOMOG									
Organization.. PMC									
13001900 122 0 Tank Homogeneity Testing at TNX	18Mar94	12Sep94	18Mar94	30Jun94	-49			0	0
13001910 90 20 Perform Tank Homogeneity Test'g	25Mar94	9Sep94	1Mar94	29Jun94	-48		GILL	0	0
13001999 1 0 Compl. Tank Homogeneity Test'g	12Sep94	12Sep94	30Jun94	30Jun94	-49	30Jun94		0	0
Primary Task.. DMPF SUPPORT									
Subtask..... TASK TEAM									
Organization.. GTG									
14013700 253 0 Misc. Task Team Support	27Sep93	29Sep94	27Sep93	30Sep94	0			0	0
14013715 252 30 Section IQ Coordinator	25Mar94	28Sep94	28Mar94	29Sep94	0		HERMAN	0	49
14013799 1 0 Compl. Misc. Task Team Support	29Sep94	29Sep94	30Sep94	30Sep94	0	30Sep94		0	0

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Primary Task.. DWPT SUPPORT									
task..... ANALY CAP.									
ganization.. PTD									
2001700 410 0 Organic Analysis Method Dev.	14Feb94	20Oct95	14Feb94	19Sep95	-8		EIBLING	0	0
2001710 400 80 Advance DWPT Orgnic Analy. Cap.	25Mar94	29Sep95	25Mar94	18Sep95	-7			0	7
2001799 1 0 Compl.Organic Analy. Method Dev.	20Oct95	20Oct95	19Sep95	19Sep95	-8			0	0
Primary Task.. DWPT SUPPORT									
task..... BACKUP									
ganization.. PMC									
3001400 325 0 VAX Disaster Recovery Project	28Feb94	15Jun95	28Feb94	25Apr95	-34		BERGMANN	0	0
3001410 60 20 Dev. Integrated Recovery Plan	25Mar94	15Jun95	25Mar94	23Mar94	-35		BERGMANN	0	33
3001420 200 20 Prepare DCS Control Room (CR)	25Mar94	15Jun95	25Mar94	12Jan95	-32		BERGMANN	0	0
3001430 30 5 Move Backup Systems to DCS CR	3Mar95	18Apr95	13Jan95	23Mar95	-32		BERGMANN	0	0
3001440 40 30 Test Recovery Plan	18Apr95	15Jun95	24Feb95	24Apr95	-31		BERGMANN	0	0
3001499 1 0 Complete Recovery/Backup Systems	15Jun95	15Jun95	25Apr95	25Apr95	-34			0	0
Primary Task.. DWPT SUPPORT									
task..... GC-MS									
ganization.. PTD									
2001500 302 0 Upgrade Organic Analy. Capabiltiy	12Nov93	31Jan95	12Nov93	16Jan95	-10		EIBLING	0	0
2001510 270 27 Upgrade GC-MS	25Mar94	30Dec94	25Mar94	13Dec94	-11		EIBLING	0	33
2001520 20 5 Document Results	3Jan95	30Jan95	14Dec94	13Jan95	-11			0	0
2001599 1 0 Compl. Organic Analy.Cap.Upgrade	31Jan95	31Jan95	16Jan95	16Jan95	-10			0	0
Primary Task.. DWPT SUPPORT									
task..... LAB AUTO									
ganization.. PMC									
3001200 246 0 TNX Lab Automation Project	17Jan94	10Jan95	17Jan94	2Jun94	-148		WEEKS	0	0
3001275 17 8 Issue Test Plan	25Mar94	28Mar94	25Mar94	28Mar94	0		CAUGHMAN	0	94
3001276 17 7 Issue Test Plan	25Mar94	28Mar94	25Mar94	28Mar94	0		WEEKS	0	94
3001280 30 14 Perform Testing and Validation	21Apr94	18Jul94	29Mar94	10May94	-46		WEEKS	16 WEEKS	0
3001281 30 14 Perform Testing and Validation	13Apr94	14Dec94	29Mar94	10May94	-145		CAUGHMAN	10 CAUGHMAN	0
3001285 10 2 Setup Printer	25Mar94	8Apr94	20Apr94	3May94	16		CAUGHMAN	0	0
3001290 15 5 Document	15Dec94	9Jan95	11May94	1Jun94	-148		CAUGHMAN	0	0
3001299 1 0 Complete Lab Automation Project	10Jan95	10Jan95	2Jun94	2Jun94	-148			0	0
Primary Task.. DWPT SUPPORT									
task..... LAB UPGRAD									
ganization.. PMC									
3002200 237 0 Lab Facilities and Instruments	9Dec93	17Nov94	9Dec93	14Oct94	-22		BANNOCHIE	0	0
3002251 120 24 Install/Test FT-IR (772-SR)	25Mar94	21Sep94	25Mar94	15Sep94	-4		BANNOCHIE	0	0
3002252 20 8 Issue FT-IR Utilization Plan	6Oct94	16Nov94	16Sep94	13Oct94	-22		TBD	10 BANNOCHIE	0
3002253 120 0 Approve Funding (677-T)	25Mar94	2Jun94	25Mar94	2Jun94	0		TBD	0	60
3002255 120 0 Design Renovations (677-T)	25Mar94	2Jun94	2Jun94	10Aug94	46		TBD	0	60

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Activity Plan													
Number	Durn	M/D	Description	Sched Start	Sched Comp	Reqd Start	Reqd Comp	Tot. Flt.	Cust Reqd Date	Resource	Res. Del.	Delaying Resource	% Com M
Primary Task.. DWPT SUPPORT													
Subtask..... LAB UPGRAD													
Organization.. PMC													
13002260	45	0	Modify Facility (677-T)	3Jun94	8Aug94	11Aug94	13Oct94	44		TBD	0		0
13002265	100	3	Purchase Equipment (677-T)	25Mar94	6Jun94	21Jul94	29Sep94	76		TBD	0		50
13002270	10	0	Install Equipment (677-T)	7Jun94	20Jun94	30Sep94	13Oct94	76		TBD	0		0
13002299	1	0	Compl. Lab Facilities/Instrmnt	17Nov94	17Nov94	14Oct94	14Oct94	-22			0		0
Primary Task.. DWPT SUPPORT													
Subtask..... NOBLE METL													
Organization.. LSE													
11009060	257	0	Fate of Noble Metals in Melter	22Mar94	20Mar94	22Mar94	1Mar94	-19		HUTSON	0		0
11009080	15	5	Issue Interim Report (Repair)	25Mar94	20Mar94	24Feb94	20Feb94	-19			0		80
11009099	1	0	Compl.Meltr Fate of Noble Metals	30Mar94	30Mar94	1Mar94	1Mar94	-19	1Mar94		0		0
Primary Task.. DWPT SUPPORT													
Subtask..... PROCUREMENT													
Organization.. PMC													
13013600	96	0	Misc. Procurement Activities	4Nov93	25Mar94	4Nov93	25Mar94	0		POLICKE	0		0
13013610	190	15	Order/Install ICP-AES	25Mar94	10Aug94	25Mar94	10Aug94	0		POLICKE	0		50
13013620	60	10	Order/Install AA	25Mar94	22Jul94	25Mar94	14Jun94	-25			0		8
13013699	1	0	Complete Misc. Procurement	25Mar94	25Mar94	25Mar94	25Mar94	0			0		0
Primary Task.. DWPT SUPPORT													
Subtask..... RM UPGRADE													
Organization.. PMC													
13001500	351	0	Computer Room Upgrade	21Dec93	18May95	21Dec93	18May95	0		BERGMANN	0		0
13001510	200	2	Issue DCP	25Mar94	7Oct94	25Mar94	7Oct94	0		BERGMANN	0		0
13001520	150	3	Install Protection Systems	10Oct94	17May95	10Oct94	17May95	0			0		0
13001599	1	0	Complete Computer Room Upgrade	18May95	18May95	18May95	18May95	0			0		0
Primary Task.. DWPT SUPPORT													
Subtask..... STLIM													
Organization.. PMC													
13002500	590	0	Replace STLIM	23Aug93	28Dec95	23Aug93	7Jul94	-359		CAUGHMAN	0		0
13002515	10	5	Issue Multi-user Protection Plan	2Nov94	6Dec94	18Apr94	29Apr94	-147		WEEKS	153	CAUGHMAN	0
13002520	5	5	Install New Platform	20Jul95	26Jul95	2May94	6May94	-297		WEEKS	330	WEEKS	0
13002521	5	5	Install New Platform	24Oct95	30Oct95	2May94	6May94	-361		CAUGHMAN	221	CAUGHMAN	0
13002525	30	10	Det.UNIX Conversion Effect Scope	25Mar94	12Dec94	25Mar94	6May94	-146		CAUGHMAN	0		0
13002526	30	10	Det.UNIX Conversion Effect Scope	25Mar94	2Jun94	25Mar94	6May94	-18		POLICKE	0		0
13002530	20	17	Configure LIMS	27Jul95	23Aug95	9May94	6Jun94	-295		WEEKS	0		0
13002531	20	17	Configure LIMS	31Oct95	27Nov95	9May94	6Jun94	-359		CAUGHMAN	0		0
13002540	20	20	Validate LIMS	24Aug95	21Sep95	7Jun94	6Jul94	-294		WEEKS	0		0
13002541	20	20	Validate LIMS	28Nov95	27Dec95	7Jun94	6Jul94	-359		CAUGHMAN	0		0
13002549	1	0	Complete Replace STLIM	28Dec95	28Dec95	7Jul94	7Jul94	-359			0		0

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Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del.	Resource	Com M
Primary Task.. DWPT SUPPORT										
Task..... SLTLIMISC										
Organization.. PMC										
5002550 387 0 Misc. STLIM Activities	29Mar94	11Oct95	25Mar94	10Mar95	-143			0		0
5002560 100 7 Det. SLTLIM/Other Software Scope	29Mar94	11Oct94	14Oct94	9Mar95	99		WEEKS	2	WEEKS	0
5002561 100 10 Det. SLTLIM/Other Software Scope	11Apr94	31Aug94	14Oct94	9Mar95	126		CAUGHMAN	10	CAUGHMAN	0
5002570 240 100 Install New CLS Program	29Mar94	10Oct95	25Mar94	9Mar95	-143		CAUGHMAN	2	CAUGHMAN	0
5002599 1 0 Complete Misc. STLIM Activities	11Oct95	11Oct95	10Mar95	10Mar95	-143			0		0
Primary Task.. DWPT SUPPORT										
Task..... VANTAGE										
Organization.. PMC										
5000700 506 0 VANTAGE Replacement Activities	9Jan94	7Jan97	9Jan95	30Oct96	-64			0		0
5000710 30 10 Analyze Existing System	9Jan95	12Feb95	9Jan95	17Feb95	0	9Jan95	WEEKS	0		0
5000711 30 10 Analyze Existing System	10Jan95	20Feb95	9Jan95	17Feb95	0	9Jan95	CAUGHMAN	1	CAUGHMAN	0
5000720 20 5 Issue Specifications	20Feb95	17Mar95	20Feb95	17Mar95	0		WEEKS	0		0
5000721 20 5 Issue Specifications	21Feb95	20Mar95	20Feb95	17Mar95	-2		CAUGHMAN	0		0
5000730 150 50 Design New System	20Mar95	24Jan96	20Mar95	20Oct95	-64		WEEKS	0		0
5000731 150 50 Design New System	21Mar95	23Oct95	20Mar95	20Oct95	-2		CAUGHMAN	0		0
5000740 100 30 Code/Test New System	25Jan96	18Jun96	23Oct95	18Mar96	-64		WEEKS	0		0
5000741 100 30 Code/Test New System	28Dec95	21May96	23Oct95	18Mar96	-46		CAUGHMAN	45	CAUGHMAN	0
5000750 20 5 Install New System	19Jun96	16Jul96	14Mar96	12Apr96	-63		WEEKS	0		0
5000751 20 5 Install New System	22May96	19Jun96	14Mar96	12Apr96	-45		CAUGHMAN	0		0
5000760 60 10 Validate New System	17Jul96	9Oct96	15Apr96	9Jul96	-61		WEEKS	0		0
5000761 60 10 Validate New System	20Jun96	12Sep96	15Apr96	9Jul96	-43		CAUGHMAN	0		0
5000770 60 20 Document System	10Oct96	6Jan97	10Jul96	20Oct96	-64		WEEKS	0		0
5000771 60 20 Document System	13Sep96	5Dec96	10Jul96	20Oct96	-42		CAUGHMAN	0		0
5000799 1 0 Complete VANTAGE Replacement	7Jan97	7Jan97	30Oct96	30Oct96	-64			0		0
Primary Task.. DWPT SUPPORT										
Task..... WASTE MIN										
Organization.. PMC										
5013500 419 0 Waste Minimization (SCUREF)	25Mar94	22Nov95	25Mar94	10Nov95	-8			0		0
5013510 410 40 Perform Waste Minimization/Doc.	25Mar94	21Nov95	25Mar94	9Nov95	-8		POLICKE	0		0
5013599 1 0 Compl. Waste Minimizatn (SCUREF)	22Nov95	22Nov95	10Nov95	10Nov95	-8			0		0
Primary Task.. F TANK										
Task..... AM/CM										
Organization.. GTG										
4006700 235 0 Americium/Curium Vitrification	30Sep93	8Sep94	30Sep93	6Sep94	-1			0		0
4006710 75 0 Am/Cm Vitrification-HLC Work	25Mar94	28Jun94	3May94	5Aug94	25		RAMSEY	0		13
4006711 140 23 Am/Cm Vitrification Support	25Mar94	7Sep94	25Mar94	25Sep94	-3		MILLER	0		20
4006712 140 30 Am/Cm Vitrification Support	25Mar94	15Aug94	15Apr94	25Sep94	12		MINICHAN	0		30
4006713 90 24 Am/Cm Vitrification Support	25Mar94	28Jul94	18Jan94	29Apr94	-60	1May94	CHOI	0		20
4006720 20 0 Document Results	29Jun94	28Jul94	8Aug94	25Sep94	24		RAMSEY	0		0
4006799 1 0 Compl. Am/Cm Vitrification	8Sep94	8Sep94	6Sep94	6Sep94	-1			0		0

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D Number	Durn	M/D	Start	Comp	Flt.	Reqd		Del.	Resource	Com M
Description						Date				
Primary Task.. FA 09										
Subtask..... HEME/HEPA										
Organization.. PTD										
12009100	150	0	HEME/HEPA Digestion Analysis	14Jan94	18Aug94	14Jan94	1Aug94	-11	USC	0 x
12009106	20	0	Doc. Scoping Study Results	25Mar94	31Mar94	25Mar94	31Mar94	0	USC	75 x
12009110	30	0	Dev/Doc. Initial Operat'g Paramtr	25Mar94	6May94	25Mar94	6May94	0	QURESHI	0 x
12009120	50	0	Run Pilot-Scale Tests	25Mar94	6Jun94	8Mar94	17May94	-13	NASH	0 x
12009122	50	10	Run Pilot-Scale Tests	25Mar94	6Jun94	8Mar94	17May94	-13	USC	0 x
12009125	140	0	Dev/Doc. Final Operat'g Paramtr	9May94	28Nov94	9May94	28Nov94	0	QURESHI	0 x
12009130	20	0	Document Pilot-Scale Tests	7Jun94	6Jul94	18May94	15Jun94	-14	NASH	0 x
12009131	20	4	Document Pilot-Scale Tests	7Jun94	6Jul94	18May94	15Jun94	-14	NASH	0 x
12009140	30	5	Issue Tech. Bases to DMPF	7Jul94	7Jul94	16Jun94	29Jul94	-12	LONDON	0 x
12009149	1	0	Compl. HEME/HEPA Digestion Analy	18Aug94	18Aug94	1Aug94	1Aug94	-11		0 x

Primary Task.. FB LINE
 Subtask..... GAS DEGRD
 Organization.. GTG

14001400	140	0	Gas Degradation Analysis	30Sep93	22Apr94	30Sep93	1Aug94	-7	HERMAN	0
14001410	20	6	Gas Degradation Analysis/Doc.	28Mar94	21Apr94	25Mar94	25Mar94	-8	HERMAN	50
14001499	1	0	Complete Gas Degradation Analy.	22Apr94	22Apr94	11Apr94	11Apr94	-7		0

Primary Task.. HANFORD
 Subtask..... SAMPLER
 Organization.. GTG

14002500	188	0	Hanford Sampler Activities	29Dec93	27Sep94	29Dec93	21Jul94	-45	HEAM	0
14002510	140	14	Develop Sampler for Hanford	25Mar94	26Sep94	25Mar94	20Jul94	-45		43
14002599	1	0	Complete Hanford Sampler Act.	27Sep94	27Sep94	21Jul94	21Jul94	-45		0

Primary Task.. H2/NH3 MODS
 Subtask..... ALT MEAS.
 Organization.. PMC

13003050	274	0	Alternate Liquid Level Measure.	25Mar94	28Apr95	25Mar94	24Feb95	-42	WEEKS	0
13003055	20	5	Design/Fab/Test Advanced Bubbler	25Mar94	27May94	25Mar94	22Apr94	-23	WEEKS	0
13003060	20	5	Fab/Test Exotic Material Bubbler	31May94	25Jul94	25Apr94	20May94	-44	TFL	0
13003065	30	0	Document Results	26Jul94	6Sep94	23May94	6Jul94	-41	TFL	0
13003070	80	0	Fabricate Bubbler Design for IDMS	7Sep94	3Jan95	7Jul94	27Oct94	-45	WEEKS	0
13003075	60	10	Test Bubbler in IDMS	4Jan95	28Mar95	28Oct94	26Jan95	-40	WEEKS	0
13003080	20	5	Issue Final Report	29Mar95	27Apr95	27Jan95	23Feb95	-42	WEEKS	0
13003099	1	0	Compl. Alt. Liquid Level Measure	28Apr95	28Apr95	24Feb95	24Feb95	-42		0

Primary Task.. H2/NH3 MODS
 Subtask..... NH3 SCRUBR
 Organization.. LSE

111009500	284	0	NH3 Scrubber Demo Initial Report	7Jul93	23Aug94	7Jul93	15Aug94	-5	LAMBERT	0 x
111009520	33	0	Construction Install Scrubbers	25Mar94	15Apr94	4Mar94	24Mar94	-14		55 x

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Primary Task.. H2/NH3 MOOS												
Task..... NH3 SCRUBR												
Organization.. LSE												
1009523	16	0	Obtain IDMS Pipe Deposit Samples	25Mar94	12Apr94	24Mar94	11Apr94	0	11Apr94	MILLER	0	31 x
1009526	7	0	Perform Calorimetry Analy/Doc.	4Apr94	12Apr94	7Apr94	15Apr94	2	15Apr94	EIBLING	0	0 x
1009530	10	0	Perform Water Runs	18Apr94	29Apr94	25Mar94	8Apr94	-14		LAMBERT	0	0 x
1009540	0	0	Install NH3 Ammonia Analyzer	25Mar94	25Mar94	25Mar94	25Mar94	0	14Apr94	LAMBERT	0	0 x
1009550	43	0	SRAT Off-Line Scrubber Testing	2May94	30Jun94	11Apr94	9Jun94	-14		LAMBERT	0	0 x
1009551	43	5	SRAT Off-Line Scrubber Testing	10May94	12Jul94	11Apr94	9Jun94	-22		ZAMECHNIK	6	0 x
1009555	19	0	SME Off-Line Scrubber Testing	5Jul94	29Jul94	18Apr94	8Jul94	-14		LAMBERT	0	0 x
1009556	19	0	SME Off-Line Scrubber Testing	13Jul94	8Aug94	10Jun94	8Jul94	-20		ZAMECHNIK	0	0 x
1009560	11	6	Issue Initial Report	9Aug94	23Aug94	1Aug94	15Aug94	-5		LAMBERT	0	0 x
1009569	1	0	Compl.NH3 Scrubber Demo Initl Rep	23Aug94	23Aug94	15Aug94	15Aug94	-5	15Aug94		0	0 x
Primary Task.. IDMS/PHEF												
Task.....												
Organization.. PMC												
3007100	378	0	Stirred Melter Noble Metal Analy	25Mar94	26Sep95	14Sep95	15Mar95	-130			0	0
3007110	375	60	Perform Melter Noble Metal Analy	25Mar94	25Sep95	14Sep95	15Mar95	-130		POLICKE	0	0
3007199	1	0	Compl. Melter Noble Metal Analy	26Sep95	26Sep95	15Mar95	15Mar95	-130	10Mar95		0	0
Primary Task.. IDMS/PHEF												
Task..... CFC ANALYZR												
Organization.. LSE												
1009800	265	0	CPC Analyzer Activities	15Dec93	9Jan95	15Dec93	27Dec94	-8			0	0
1009820	110	20	Design/Fab/Offline Test Proto.GC	25Mar94	18Sep94	7Jan94	3Jun94	-60		ZAMECHNIK	0	7
1009830	75	15	Design/Offline Test Sample System	25Mar94	6Jul94	26May94	6Sep94	41		ZAMECHNIK	0	7
1009835	55	0	Build DMPF Sample System	20Jul94	30Oct94	7Sep94	22Nov94	32		ZAMECHNIK	0	0
1009840	10	0	Online Test with IDMS PX7	23Sep94	16Sep94	6Jun94	17Jun94	-60		ZAMECHNIK	0	0
1009850	55	0	Accept.Eval./Deliver of DMPF GCs	19Sep94	6Dec94	20Jun94	7Sep94	-60	7Sep94	ZAMECHNIK	0	0
1009860	20	8	Document Results	7Dec94	6Jan95	23Nov94	22Dec94	-10		ZAMECHNIK	0	0
1009899	1	0	Compl. CPC Analyzer Activities	9Jan95	9Jan95	27Dec94	27Dec94	-8			0	0
Primary Task.. IDMS/PHEF												
Task..... FAVC MG												
Organization.. LSE												
1009040	94	0	Measure/Doc. Hg Behavior in FAVC	7Dec93	22Apr94	7Dec93	15Sep94	97			0	0
1009043	5	2	Gather Final Data	15Apr94	21Apr94	8Sep94	14Sep94	97		MUTSON	0	0
1009045	16	4	Doc. PX6 Mercury in FAVC Report	25Mar94	18Apr94	16Feb94	10Mar94	-26	1Apr94	ZAMECHNIK	0	0
1009047	16	4	Doc. PX7 Mercury in FAVC Update	7Oct94	28Oct94	27Sep94	18Oct94	-6		ZAMECHNIK	0	0
1009049	1	0	Compl.Doc. Hg Behavior in FAVC	22Apr94	22Apr94	15Sep94	15Sep94	97	15Sep94		0	0

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M/D Description						Date				M
Primary Task.. IDMS/PHEF										
Subtask..... FL1										
Organization.. LSE										
11009340	44	0	IDMS FL1 Run	25Mar94	26May94	17Feb94	31Mar94	-37		0
11009345	14	7	Perform Feed Preparation Cycle	25Mar94	14Apr94	17Feb94	9Mar94	-24	MUTSON	0
11009346	14	6	Perform Feed Preparation Cycle	25Mar94	14Apr94	17Feb94	9Mar94	-24	MILLER	0
11009348	14	5	Perform Feed Preparation Cycle	25Mar94	14Apr94	17Feb94	9Mar94	-24	SMITH	0
11009350	5	2	Feed Remaining PX6 to Melter	15Apr94	21Apr94	10Mar94	16Mar94	-24	MUTSON	0
11009351	5	1	Feed Remaining PX6 to Melter	15Apr94	21Apr94	10Mar94	16Mar94	-24	MILLER	0
11009355	10	3	Feed FL1 to Melter	22Apr94	25Mar94	17Mar94	30Mar94	-37	MUTSON	0
11009356	10	2	Feed FL1 to Melter	22Apr94	5Mar94	17Mar94	30Mar94	-24	MILLER	0
11009369	1	0	Complete IDMS FL1 Run	26May94	26May94	31Mar94	31Mar94	-37	31Mar94	0
Primary Task.. IDMS/PHEF										
Subtask..... HOLLEGE										
Organization.. LSE										
11009600	67	0	Hollege Gauges Replacement	9Feb94	16May94	9Feb94	16May94	0		0
11009610	66	0	Fab/Install Hollege Gauge Replac	25Mar94	13May94	25Mar94	13May94	0	MILLER	47
11009699	1	0	Complete Hollege Gauge Replac	16May94	16May94	16May94	16May94	0		0
Primary Task.. IDMS/PHEF										
Subtask..... IDMS CNTRL										
Organization.. PMC										
13009800	188	0	IDMS/PHEF Control Upgrade	7Jan94	5Oct94	7Jan94	29Jul94	-45		0
13009810	60	5	Procure New Operator Consoles	25Mar94	4Apr94	25Mar94	4Apr94	0		90
13009820	60	20	Configure Operator Consoles	11Apr94	18Sep94	5Apr94	28Jun94	-43		0
13009830	20	10	Integrate System	7Sep94	4Oct94	29Jun94	28Jul94	-45		0
13009849	1	0	Complete IDMS/PHEF Control Upgrd	5Oct94	5Oct94	29Jul94	29Jul94	-45		0
Primary Task.. IDMS/PHEF										
Subtask..... IDMS DOC										
Organization.. LSE										
11010100	178	0	IDMS Run Documentation	25Mar94	8Dec94	16Feb94	15Nov94	-15		0
11010110	15	10	Doc. PX6 LW/NA Evaluation	2May94	19May94	14Mar94	31Mar94	-32	1Apr94	MUTSON
11010111	15	4	Doc. PX6 LW/NA Evaluation	19Apr94	9May94	11Mar94	31Mar94	-26	1Apr94	ZAMECHNIK
11010115	8	5	Doc. PX6 NH3 Generation	7Jul94	18Jul94	6Apr94	15Apr94	-62	15Apr94	ZAMECHNIK
11010120	15	10	Doc. PX6 Glass (Inc. PX4-5)	3Jun94	17Jun94	27Jul94	10Aug94	36		MUTSON
11010125	22	15	Doc. FL1 - Flushing	11Jul94	9Aug94	11Aug94	12Sep94	22		MUTSON
11010135	15	10	Doc. PX7 LW/NA Evaluation Update	26Aug94	14Sep94	13Sep94	30Oct94	12	30Oct94	MUTSON
11010136	15	4	Doc. PX7 LW/NA Evaluation Update	10Aug94	30Aug94	13Sep94	30Oct94	22	30Oct94	ZAMECHNIK
11010140	8	5	Doc. PX7 NH3 Generation Update	19Sep94	28Sep94	3Nov94	14Nov94	31		ZAMECHNIK
11010145	8	5	Doc. PX7 Glass Update	28Nov94	7Dec94	3Nov94	14Nov94	-15		MUTSON
11010199	1	0	Complete IDMS Documentation	8Dec94	8Dec94	15Nov94	15Nov94	-15		0

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Activity Plan	Sched	Sched	Reqd	Reqd	Tot.	Cust	Resource	Res.	Delaying	%
Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del.	Resource	Com M
Primary Task.. IDMS/PHEF										
Task..... IDMS PHR										
Organization.. LSE										
1013500 219 0 IDMS Process Hazard Revw Support	11Oct94	24Aug95	20Sep94	12Jun95	-48			0		0
1013510 180 30 IDMS Process Hazard Review	11Oct94	30Jun95	20Sep94	9Jun95	-14		HUTSON	0		0
1013520 180 30 IDMS Process Hazard Review	11Oct94	30Jun95	20Sep94	9Jun95	-14		LAMBERT	0		0
1013530 180 30 IDMS Process Hazard Review	21Oct94	23Aug95	20Sep94	9Jun95	-50		SMITHM	8		0
1013540 180 30 IDMS Process Hazard Review	11Oct94	30Jun95	20Sep94	9Jun95	-14		WILLIAMS	0		0
1013599 1 0 Complete IDMS PHR Support	24Aug95	24Aug95	12Jun95	12Jun95	-48			0		0
Primary Task.. IDMS/PHEF										
Task..... IDMS RPAIR										
Organization.. LSE										
1009700 454 0 IDMS Melter Preparation/Repair	3Aug93	24May95	3Aug93	5May95	-14			0		0
1009720 230 120 Receive/Store/Verify Reqd Parts	25Mar94	5Jul94	10Jun94	19Sep94	-14		MINICHAN	0		70
1009730 120 20 Paperwork Compl/Ready to Rebuild	3Aug94	10Oct94	13Jul94	19Sep94	-14		MINICHAN	0		60
1009740 10 5 Ready for Melter Shutdown	11Oct94	24Oct94	20Sep94	30Oct94	-14		MINICHAN	0		0
1009750 45 15 Decision When to Begin Shutdown	29Aug94	31Oct94	24Oct94	10Oct94	-14		MINICHAN	0		0
1009760 140 115 Repair IDMS	1Nov94	25May95	11Oct94	11Oct95	-14		MINICHAN	0		0
1009799 1 0 Complete IDMS Preparation/Repair	26May95	26May95	5May95	5May95	-14			0		0
Primary Task.. IDMS/PHEF										
Task..... PCCS DEMO										
Organization.. PMC										
3007200 21 0 Demo. of PCCS w/Stirred Melter	10Oct95	7Nov95	16Mar95	13Apr95	-138			0		0
3007210 20 5 Run PCCS w/Stirred Melter/Doc.	10Oct95	6Nov95	16Mar95	12Apr95	-138		BROWN	0		0
3007299 1 0 Compl. PCCS w/Stirred Melter	7Nov95	7Nov95	13Apr95	13Apr95	-138	15Apr95		0		0
Primary Task.. IDMS/PHEF										
Task..... PHEF CY94										
Organization.. LSE										
1014100 503 0 PHEF CY'94 Activities	30Dec93	4Dec95	30Dec93	27Mar95	-168			0		0
1014110 180 25 Evaluate Hg Additions at PHEF	15Apr94	26Oct94	26Sep94	27Mar95	101		SHAN	14	SHAN	30
1014115 110 10 W-1/AHT Modification Support	25Mar94	15Jul94	24Aug94	13Dec94	100		SHAN	0		30
1014120 190 10 Modicon Programming Support	4Apr94	31Oct94	12Oct94	27Mar95	98		SHAN	5	SHAN	40
1014125 60 15 Clean and Inspect PHEF Vessels	2May94	29Jun94	22Apr94	21Jun94	-5		SHAN	25	SHAN	30
1014130 190 10 Eval. Cu Distributn in PR Prod.	25Mar94	29Nov94	22Jul94	27Mar95	78		SHAN	0		10
1014135 120 40 Demo. 'Big PR Mel' w/Non-Irrad.	6Mar95	24Aug95	22Jun94	13Dec94	-169		SHAN	0		0
1014140 70 20 Demo. 'Irrad.Late Wash' PHEF Run	25Aug95	1Dec95	14Dec94	24Mar95	-168		SHAN	0		0
1014145 0 0 Empty and Clean Aqueous Hold Tk.	25Mar94	25Mar94	14Dec94	14Dec94	176		LAMBERT	0		0
1014150 60 15 Evaluate DMPF LEL Monitors	22Apr94	19Jul94	28Mar94	21Jun94	-18		SHAN	19	SHAN	0
1014199 1 1 Complete Unscheduled Activities	4Dec95	4Dec95	27Mar95	27Mar95	-168			0		0

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Primary Task.. IDMS/PHEF															
Task..... PHEF PHR															
Organization.. LSE															
1013600	196	0		PHEF Process Hazard Revw Support	110Oct94	24Jul95	20Sep94	12Jun95	-28			0		0	
1013610	180	30		PHEF Process Hazard Review	110Oct94	30Jun95	20Sep94	9Jun95	-14		EDWARDSR	0		0	
1013620	180	30		PHEF Process Hazard Review	110Oct94	30Jun95	20Sep94	9Jun95	-14		LAMBERT	0		0	
1013630	180	30		PHEF Process Hazard Review	1Nov94	21Jul95	20Sep94	9Jun95	-28		SHAH	15	SHAH	0	
1013640	180	30		PHEF Process Hazard Review	110Oct94	30Jun95	20Sep94	9Jun95	-14		YOUNG	0		0	
1013650	180	30		PHEF Process Hazard Review	110Oct94	30Jun95	20Sep94	9Jun95	-14		ZAMECHNIK	0		0	
1013699	1	0		Complete PHEF PHR Support	24Jul95	24Jul95	32Jun95	12Jun95	-28			0		0	
Primary Task.. IDMS/PHEF															
Task..... PHEF REP															
Organization.. LSE															
1001000	188	0		PHEF 63 - 65 Reports	21Sep93	21Jun94	27Sep93	21Jun94	-1			0		0	
1001020	60	20		PHEF 64 Report	25Mar94	20Jun94	25Mar94	20Jun94	0		LAMBERT	0		0	
1001030	60	20		PHEF 65 Report	13Jun94	20Jun94	13Jun94	20Jun94	0		EDWARDSR	0		90	
1001099	1	0		Complete PHEF 63 - 65 Reports	21Jun94	21Jun94	21Jun94	21Jun94	0			0		0	
Primary Task.. IDMS/PHEF															
Task..... PHEF 66															
Organization.. LSE															
1001100	250	0		PHEF 66 Run and Report	28Sep93	27Sep94	28Sep93	21Jun94	-65			0		0	
1001125	60	20		Data Analysis and Reports	20Jul94	26Sep94	13Apr94	20Jun94	-65		SHAH	67	SHAH	20	
1001129	1	0		Complete PHEF Run 66	27Sep94	27Sep94	21Jun94	21Jun94	-65			0		0	
Primary Task.. IDMS/PHEF															
Task..... PHEF 67															
Organization.. LSE															
1001130	306	0		PHEF 67 Run and Report	25Oct93	17Jan95	25Oct93	21Jun94	-140			0		0	
1001165	60	20		Data Analysis and Reports	3Nov94	16Jan95	13Apr94	20Jun94	-140		SHAH	75	SHAH	20	
1001169	1	0		Complete PHEF Run 67	17Jan95	17Jan95	21Jun94	21Jun94	-140			0		0	
Primary Task.. IDMS/PHEF															
Task..... PHEF 68															
Organization.. LSE															
1001170	244	0		PHEF 68 (H2 Eval) Run and Report	15Mar94	3Mar95	15Mar94	21Jun94	-170			0		0	
1001175	13	8		PRBT H2 Evaluation Preparations	25Mar94	31Mar94	11Mar94	17Mar94	-9		SHAH	0		62	
1001180	14	8		PRBT H2 Eval. Ppt. Reactor Cycle	4Apr94	14Apr94	2Mar94	14Mar94	-20		SHAH	5	SHAH	36	
1001185	5	2		PRBT H2 Eval. Analy. & Transfer	15Apr94	21Apr94	15Mar94	21Mar94	-20		SHAH	0		0	
1001195	36	20		PRBT H2 Eval. Data Analy. & Rep.	17Jan95	2Mar95	4May94	20Jun94	-170		SHAH	33	SHAH	11	
1001199	1	0		Complete PHEF Run 68 (H2 Eval.)	3Mar95	3Mar95	21Jun94	21Jun94	-170			0		0	

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Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del.	Resource	Com M
Primary Task.. IDMS/PHEF										
Subtask..... PX7										
Organization.. LSE										
11009370 44 0 IDMS PX7 Run	9Aug94	10Oct94	11Jul94	4Aug94	-44			0		0
11009380 10 8 Perform Feed Preparation Cycle	10Aug94	23Aug94	11Jul94	22Jul94	-21		HUTSON	1 HUTSON		0
11009381 10 6 Perform Feed Preparation Cycle	14Sep94	27Sep94	11Jul94	22Jul94	-44		MILLER	25 MILLER		0
11009382 10 4 Perform Feed Preparation Cycle	9Aug94	22Aug94	11Jul94	22Jul94	-20		HINICHAN	0		0
11009383 10 5 Perform Feed Preparation Cycle	12Aug94	25Aug94	11Jul94	22Jul94	-22		SMITHM	3 SMITHM		0
11009384 10 5 Perform Feed Preparation Cycle	28Sep94	16Sep94	11Jul94	22Jul94	-37		ZAHECHIK	0		0
11009390 8 3 Feed PX7 to Melter	19Sep94	28Sep94	25Jul94	3Aug94	-37		HUTSON	0		0
11009391 8 2 Feed PX7 to Melter	28Sep94	7Oct94	25Jul94	3Aug94	-43		MILLER	0		0
11009399 1 0 Complete IDMS PX7 Run	10Oct94	10Oct94	4Aug94	4Aug94	-44	4Aug94		0		0
Primary Task.. LATE WASH										
Subtask..... BZ SPARGE										
Organization.. PTD										
12003500 120 0 Benzene Sparging Studies	24Jan94	15Jul94	24Jan94	15Jul94	-24			0		0
12003520 96 39 Perf. Sparging Tests (Non/Irrad)	25Mar94	9Jun94	25Mar94	9Jun94	-4		BAICH	0		50
12003530 7 4 Update WSRC-RP-92-1219	5Jul94	8Jul94	27May94	27May94	-24		BAICH	68 BAICH		57
12003540 4 2 Update WSRC-RP-92-793	11Jul94	14Jul94	3Jun94	3Jun94	-24		BAICH	0		0
12003599 1 0 Complete Benzene Sparging Scop'g	15Jul94	15Jul94	9Jun94	9Jun94	-24			0		0
Primary Task.. LATE WASH										
Subtask..... CROSSFLOW										
Organization.. PTD										
12003600 669 0 Cross-flow Filtr DF w/Non-rad Cs	21Oct93	21Jun96	21Oct93	31May96	-14			0		0
12003605 120 0 Issue Task/QA Plan, Prepare Matl	25Mar94	15Apr94	16Aug94	6Sep94	96		MONSON	0		88
12003610 15 5 Det.T Effect/Velocity on MottFix	9May94	27May94	26Feb96	15Mar96	438		MONSON	15 MONSON		0
12003615 30 5 Det.# of Cycles w/o Clean'g Mott	31May94	13Jul94	18Mar96	30Apr96	438		MONSON	0		0
12003620 20 3 Doc. Mott Test Results	14Jul94	10Aug94	1May96	30May96	439		MONSON	0		0
12003625 150 30 Test LW Candidate Filters	25Mar94	27Sep94	25Mar94	6Sep94	-14		BAICH	5 BAICH		25
12003626 150 30 Test LW Candidate Filters	4Apr94	13Sep94	25Mar94	6Sep94	-4		MONSON	0		0
12003630 120 24 Analyze LW Filter Test Data	28Sep94	21Mar95	7Sep94	28Feb95	-14		MONSON	0		0
12003635 30 7 Document LW Filter Test Results	22Mar95	5May95	1Mar95	11Apr95	-16		MONSON	0		0
12003640 30 5 Update WSRC-RP-92-793 As Req'd	8May95	19Jun95	12Apr95	26May95	-16		MONSON	0		0
12003645 75 10 Test XFlow Filters for Slidg Wash	20Jun95	30Oct95	30May95	12Sep95	-14		MONSON	0		0
12003646 75 10 Test XFlow Filters for Slidg Wash	20Jun95	30Oct95	30May95	12Sep95	-14		BAICH	0		0
12003650 20 5 Document Sludge Washing Results	4Oct95	31Oct95	13Sep95	10Oct95	-14		MONSON	0		0
12003655 75 15 Test XFlow Filters w/Unirr.KTPB	1Nov95	16Feb96	11Oct95	26Jan96	-14		MONSON	0		0
12003656 75 15 Test XFlow Filters w/Unirr.KTPB	1Nov95	16Feb96	11Oct95	26Jan96	-14		BAICH	0		0
12003660 20 5 Doc.Unirr.KTPB Slurry Test Result	19Feb96	15Mar96	29Jan96	23Feb96	-14		MONSON	0		0
12003665 45 9 Test XFlow Filters w/IDMS Condat	18Mar96	22May96	26Feb96	30Apr96	-14		MONSON	0		0
12003666 45 9 Test XFlow Filters w/IDMS Condat	18Mar96	22May96	26Feb96	30Apr96	-14		BAICH	0		0
12003670 20 5 Doc. IDMS Condensate Test Results	23May96	20Jun96	1May96	30May96	-14		MONSON	0		0
12003699 1 0 Complete Cross-flow Filter Tests	21Jun96	21Jun96	31May96	31May96	-14			0		0

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D Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del. Resource	Com M
Primary Task.. LATE WASH									
Subtask..... ENGR SCALE									
Organization... PTD									
12002100 49 0 LWFDU Engineering Scale Testing	14Feb94	25Apr94	14Feb94	1Sep94	86			0	0
12002110 140 7 Perform Engr. Scale Testing	25Mar94	25Mar94	25Mar94	25Sep94	0		WASH	0	20
12002120 20 1 Document Engr. Scale Testing	25Mar94	22Apr94	4Aug94	31Aug94	87		WASH	0	0
12002199 1 0 Complete LWFDU Engr. Scale Tests	25Apr94	25Apr94	18Sep94	18Sep94	86	1Sep94		0	0
Primary Task.. LATE WASH									
Subtask..... LW MODEL									
Organization... PTD									
12002200 77 0 Model Late Wash System	8Feb94	31May95	18Jan95	1Mar95	-60		LEE	0	0
12002210 60 15 Dev. Hydraulic Model of LW System	8Feb94	31May95	18Jan95	1Apr95	-16		LEE	0	0
12002220 20 5 Project Detrim Tube Plugage Cap.	8Feb94	7Mar95	18Jan95	1Feb95	-14		LEE	20 LEE	0
12002230 30 8 Doc. Model and Issue Report	8Mar95	11May95	18Jan95	28Feb95	-18		LEE	26 LEE	0
12002240 30 8 Validate Model from Crossflow	13Apr95	30May95	18Jan95	28Feb95	-60		LEE	0	0
12002299 1 0 Complete Late Wash System Model	31May95	31May95	1Mar95	1Mar95	-60				
Primary Task.. LATE WASH									
Subtask..... LWFDU									
Organization... PTD									
12003700 652 0 Late Wash Facility Demo. Unit	23Apr93	27Nov95	23Apr93	20Nov95	-4			0	0
12003710 100 60 Construct LWFDU/site Preparation	25Mar94	7Jun94	10Feb94	25Apr94	-28	29Apr94	NASH	0	49
12003711 100 60 Construct LWFDU/site Preparation	25Mar94	21Jun94	10Feb94	25Apr94	-38	29Apr94	HANSEN	0	49
12003720 20 12 Install LWFDU at USC	8Jun94	7Jul94	26Apr94	23May94	-30	27May94	NASH	0	0
12003721 20 12 Install LWFDU at USC	22Jun94	21Jul94	26Apr94	23May94	-39	27May94	HANSEN	0	0
12003730 20 12 Perform Water Run	8Jul94	4Aug94	24May94	21Jun94	-29	30Jun94	NASH	0	0
12003731 20 12 Perform Water Run	22Jul94	18Aug94	24May94	21Jun94	-38	30Jun94	HANSEN	0	0
12003750 70 42 Demonstrate Primary Filter	5Aug94	11Nov94	22Jun94	30Sep94	-28		NASH	0	0
12003751 70 42 Demonstrate Primary Filter	19Aug94	29Nov94	22Jun94	30Sep94	-40		HANSEN	0	0
12003760 50 30 Issue Primary Filter Interim Rep	14Nov94	27Jan95	30Oct94	13Dec94	-30	30Dec94	NASH	0	0
12003761 50 30 Issue Primary Filter Interim Rep	30Nov94	10Feb95	30Oct94	13Dec94	-39	30Dec94	HANSEN	0	0
12003780 200 120 Perform Alternative Filter Tests	30Jan95	10Nov95	14Dec94	29Sep95	-28	30Sep95	NASH	0	0
12003781 200 120 Perform Alternative Filter Tests	13Feb95	24Nov95	14Dec94	29Sep95	-37	30Sep95	HANSEN	0	0
12003799 1 0 Complete LWFDU	27Nov95	27Nov95	20Nov95	20Nov95	-4			0	0
Primary Task.. LATE WASH									
Subtask..... VISCOSITY									
Organization... PTD									
12002300 22 0 Det. LW Steams Viscosity vs. Temp	7Jul94	5Aug94	5Jul94	25Jul94	-7			0	0
12002310 50 8 Det. Irrad. LW Feed Viscosity	7Jul94	29Sep94	5Jul94	13Sep94	-10	5Jul94	SHOOK	2 SHOOK	0
12002320 50 8 Det. LW Permeate Viscosity	7Jul94	29Sep94	5Jul94	13Sep94	-10		SHOOK	0	0
12002330 14 4 Doc. Result/Update WSRC-PR-92-793	18Jul94	4Aug94	5Jul94	22Jul94	-8		SHOOK	7 SHOOK	0
12002399 1 0 Compl. Det. LW Streams Viscosity	5Aug94	5Aug94	25Jul94	25Jul94	-7			0	0

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Number	Durn	M/D	Description	Start	Comp	Start	Comp	Flt.	Date	Del.	Resource	Com	M
Primary Task.. LATE WASH													
Subtask..... 180G KTPB													
Organization.. PTD													
12003060	159	0	Irrad. Batch 1 KTPB (LMFUDU)	29Dec93	16Aug94	29Dec93	21Jun94	-37				0	0
12003063	120	10	Prep.180 gal KTPB Sim. for Irrad	25Mar94	20Jun94	25Mar94	20Jun94	0			MONSON	0	50
12003066	80	0	Irrad.180 gal KTPB (50 megarad)	25Mar94	20Jun94	3Feb94	29Apr94	-34	11Jul94		ARGONNE	0	25
12003069	5	1	Reprecipitate at USC	21Jun94	27Jun94	2May94	6May94	-34			HANSEN	0	0
12003072	20	4	Perform Chemical Characteriztn	29Jun94	28Jul94	9May94	6Jun94	-34			EIBLING	1	0
12003075	10	3	Doc. Results (180gal KTPB Irrad)	2Aug94	15Aug94	7Jun94	20Jun94	-37			MONSON	2	0
12003079	1	0	Compl.Irrad.Batch 1 KTPB (LMFUDU)	16Aug94	16Aug94	21Jun94	21Jun94	-37	8Aug94			0	0

Primary Task.. LATE WASH
Subtask..... 3KGAL KTPB
Organization.. PTD

12004300	131	0	Irrad. 3000 gal KTPB Simulant	24Mar94	29Sep94	29Mar94	30Oct94	-31	20Jun94		PROCUREMENT	0	0
12004310	80	0	Award Subcontract	25Mar94	19Jul94	9Feb94	23Jun94	-29	15Aug94		VENDOR	0	2
12004320	50	0	Irradiate 3000gal.KTPB Sim.	20Jul94	28Sep94	3Jun94	15Jun94	50			MONSON	0	0
12004340	30	5	Prep. KTPB Hg Trim Simulants	25Mar94	6May94	8Apr94	21Jun94	48			BIBLERN	0	0
12004350	30	5	Modify Ga.Tech. Contract	9May94	20Jun94	22Jun94	18Jun94	48			GA TECH	0	0
12004360	20	5	Irrad. KTPB Hg Trim Simulant	21Jun94	20Jul94	28Sep94	7Oct94	2				0	0
12004399	1	0	Compl. Irrad. 3k gal KTPB sim.	29Sep94	29Sep94	30Oct94	30Oct94					0	0

Primary Task.. MERCURY RUN
Subtask..... ARCHIVING
Organization.. GTG

14008500	140	0	HLC Glass Sample Archiving Act.	25Mar94	13Oct94	15Mar95	15May95	142			BEAN	0	x
14008510	40	8	Dev.Proc.for Glass Sample Archvg	25Mar94	12Oct94	15Mar95	12May95	141				0	x
14008599	1	0	Compl.Glass Sample Archiving Act	13Oct94	13Oct94	15May95	15May95	142	15May95			0	x

Primary Task.. MERCURY RUN
Subtask..... CAN TEST
Organization.. GTG

14008800	368	0	Canister Receipt/Testing	31May94	14Nov95	1Jun94	23Jun95	-96				0	x
14008810	265	159	Coord. Canister Receipt/Testing	25Oct94	13Nov95	1Jun94	22Jun95	-96	28May94		HARBOR	102	x
14008811	265	159	Coord. Canister Receipt/Testing	31May94	21Jun95	1Jun94	22Jun95	0	28May94		HERMAN	0	x
14008899	1	0	Compl.Canister Receipt/Test Prep	14Nov95	14Nov95	23Jun95	23Jun95	-96	25Jun95			0	x

Primary Task.. MERCURY RUN
Subtask..... MOG CS
Organization.. GTG

14001200	66	0	Non-rad. Cesium in MOG	25Mar94	28Jun94	22Apr94	27Jul94	19				0	0
14001210	65	0	Determine Non-rad. Cs in MOG	25Mar94	27Jun94	22Apr94	26Jul94	19			ANDREWS	0	0
14001299	1	1	Complete Non-rad. Cesium in MOG	28Jun94	28Jun94	27Jul94	27Jul94	19	27Jul94			0	0

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Primary Task.. MERCURY RUN									
Subtask..... MWT/PUMP									
Organization.. LSE									
11009150 89 0 Hg Pump & Recvry/Water Wash Tank	14Feb94	21Jun94	14Feb94	30Oct94	69		HUTSON	0	0 x
11009160 40 1 Run Hg Cleanliness Tests	25Mar94	12Apr94	17Aug94	1Sep94	94		EIBLING	0	70 x
11009165 10 0 Evaluate Hg Cleanliness	25Mar94	12Apr94	19Aug94	1Sep94	94		EIBLING	0	0 x
11009170 40 0 Eval/Irrad/Eval.IDMS Orgnic Comp	25Mar94	20May94	8Jul94	1Sep94	69		HUTSON	0	30 x
11009175 20 1 Issue Final Report	3May94	20Jun94	13Sep94	30Sep94	88		HUTSON	0	0 x
11009180 20 0 Create New TI (if necessary)	23May94	20Jun94	23Sep94	30Sep94	68		HUTSON	0	0 x
11009199 1 0 Complete Hg Pump & Recovery/MWT	21Jun94	21Jun94	30Oct94	30Oct94	69	30Oct94		0	0 x

Primary Task.. MERCURY RUN
Subtask..... NH4+ GEN
Organization.. PTD

12003300 265 0 NH4+ Generation/Fate of NH3	25Mar94	13Apr95	21Dec93	13Jan95	84		LEE	0	0
12003305 30 15 Expr.Det.Fate of NH4+ across ITP	25Mar94	6May94	21Dec93	13Jan95	81		LEE	0	0
12003310 30 15 Det. Steady State Conc.--Tk 49	9May94	20Jun94	4Feb94	25Mar94	-62		LEE	0	0
12003315 45 22 Det. Fate of NH4+ across LW--PH	21Jun94	24Aug94	25Mar94	25Mar94	-62		MONSON	0	0
12003316 45 10 Det. Fate of NH4+ across LW--PH	21Jun94	24Aug94	21Mar94	25Mar94	-62		LEE	0	0
12003320 45 22 Det.Fate of NH4+ (LW)-Ref.Flwsh	25Aug94	27Oct94	24May94	28Jul94	-60		MONSON	0	0
12003321 45 10 Det.Fate of NH4+ (LW)-Ref.Flwsh	25Aug94	27Oct94	24May94	28Jul94	-60		LEE	0	0
12003325 32 8 Update NH3 Scrubber Source Terms	28Oct94	14Dec94	29Jul94	13Sep94	-64		LEE	0	0
12003330 32 8 Det.NH4+ Recycle Flow to Tk Farm	15Dec94	1Feb95	14Sep94	27Oct94	-64		LEE	0	0
12003333 40 10 Calc.NH3 Purge to Tk Farm Scenar	2Feb95	29Mar95	28Oct94	28Dec94	-60		LEE	0	0
12003336 10 5 Document Results	30Mar95	12Apr95	29Dec94	12Jan95	-60	15Jan95	LEE	0	0
12003339 1 0 Compl. NH4+ Generatr/Fate of NH3	13Apr95	13Apr95	13Jan95	13Jan95	-60	15Jan95		0	0

Primary Task.. MERCURY RUN
Subtask..... PCCS 3.1
Organization.. PMC

13004600 218 0 PCCS version 3.1	25Mar94	7Feb95	25Mar94	6Dec94	-42		BROWN	0	0
13004603 5 2 Issue TTR for v3.1	1Nov94	7Nov94	29Nov94	5Dec94	18	15Oct95	DMPF	0	0
13004605 75 0 Gather and Measure WQR Data	25Mar94	13Jul94	25Mar94	13Jul94	0	21Apr95	BROWN	0	0
13004610 30 8 Analyze WQR Information	6Sep94	24Oct94	14Jul94	24Aug94	-40		DMPF	0	0
13004615 25 0 Gather and Measure WP 17 Data	25Oct94	30Nov94	25Aug94	29Sep94	-41	6Jul95	BROWN	0	0
13004620 20 5 Analyze WP 17 Information	1Dec94	30Dec94	30Sep94	27Oct94	-42		REEVE	0	0
13004625 5 4 Update Cover. Matrices for v3.1	3Jan95	9Jan95	28Oct94	3Nov94	-44		BROWN	0	0
13004630 10 4 Det. Sampling Reqts per v3.1	10Jan95	23Jan95	11Nov94	28Nov94	-37		BROWN	0	0
13004635 20 10 Update v3.1 and Documentation	10Jan95	6Feb95	4Nov94	5Dec94	-42		DMPF	0	0
13004640 5 0 Update LIMS per v3.1 Reqts.	24Jan95	30Jan95	29Nov94	5Dec94	-37	15Nov95		0	0
13004699 1 0 Complete PCCS version 3.1	7Feb95	7Feb95	6Dec94	6Dec94	-42	15Nov95		0	0

Primary Task.. MERCURY RUN
Subtask..... PHP CLEAN
Organization.. GTG

14006600 96 0 PHP Fouled Surface Cleanup	6Jul94	17Nov94	31Jan95	19Jun95	142		FERRARA	0	0
14006610 75 8 PHP Fouling -- HLC Work	6Jul94	19Oct94	31Jan95	18May95	140			0	0

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Primary Task.. MERCURY RUN										
Subtask..... PHP CLEAN										
Organization.. GTG										
.14006620 20 5 Document Results	20Oct94	16Nov94	19May95	16Jun95	141		FERRARA	0		0
.14006699 1 0 Compl.PHP Fouled Surface Cleanup	17Nov94	17Nov94	19Jun95	19Jun95	142	19Jun95		0		0
Primary Task.. MERCURY RUN										
Subtask..... PHP DEMO										
Organization.. GTG										
.14006500 189 0 PHP Demonstration	30Sep93	5Jul94	30Sep93	30Jan95	139		FERRARA	0		0
.14006510 61 6 PHP Demonstration-HLC Work	25Mar94	25Mar94	28Oct94	29Dec94	146		FERRARA	0		33
.14006520 20 5 Document Results	3Jun94	3Jun94	30Dec94	27Jan95	140		FERRARA	7	FERRARA	0
.14006599 1 0 Complete PHP Demonstration	5Jul94	5Jul94	30Jan95	30Jan95	139			0		0
Primary Task.. MERCURY RUN										
Subtask..... PVVS CLEAN										
Organization.. LSE										
.11009200 250 0 CPC VVS Cleaning	15Dec93	14Dec94	15Dec93	29Nov94	-10		MILLER	0		0
.11009220 200 35 Quantify Buildup in PVVS	25Mar94	13Dec94	25Mar94	28Nov94	-10		ZAMECHNIK	0		15
.11009230 80 3 Issue LW/NA Evaluation Report	25Mar94	12Apr94	7Nov94	28Nov94	153			0		85
.11009299 1 0 Complete CPC VVS Cleaning	14Dec94	14Dec94	29Nov94	29Nov94	-10			0		0
Primary Task.. MERCURY RUN										
Subtask..... SLDG SURF.										
Organization.. PTD										
.12004500 79 0 Dow Corning 544 across SRAT/SME	25Mar94	19Jul94	22Apr94	10Aug94	14		EIBL	0		0
.12004510 30 6 Dev. Method for Dow C.544 Cond.	25Mar94	6May94	22Apr94	3Jun94	18		NSU	0		0
.12004520 30 4 Det.Fate of Dow C.544 across MFP	12May94	23Jun94	6Jun94	19Jul94	17		NSU	0		0
.12004530 15 2 Document Results	24Jun94	18Jul94	20Jul94	9Aug94	14		NSU	0		0
.12004599 1 0 Compl. Dow Corning 544 Fate	19Jul94	19Jul94	10Aug94	10Aug94	14	10Aug94		0		0
Primary Task.. MERCURY RUN										
Subtask..... SOLID CONC										
Organization.. PTD										
.12003130 229 0 Rheology Studies (WP 17)	25Mar94	22Feb95	25Mar94	12Apr95	32		MAREK	0		0
.12003131 35 1 Obtain WP 17 sludge Feed Simitnt	25Mar94	13May94	25Mar94	13May94	0		BAICH	0		0
.12003132 15 5 Prepare WP17 Mltr Feed (1/200 s)	23May94	23Jun94	16May94	6Jun94	-11		MAREK	20	MAREK	0
.12003133 15 5 Def.Solids Operat'g Range (WP17)	26Jul94	15Aug94	7Jun94	27Jun94	-32		MAREK	11	MAREK	0
.12003134 20 5 Document WP 17 Rheology Results	25Jan95	21Feb95	15Mar95	11Apr95	32			0		0
.12003135 1 0 Complete WP 17 Rheology	22Feb95	22Feb95	12Apr95	12Apr95	32	12Apr95		0		0

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Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del. Resource	Com M
Primary Task.. MERCURY RUN									
Subtask..... SURF FATE									
Organization.. PTD									
12003340 11 0 Surfynol Fate across LM/PHP/MFP	25Mar94	11Apr94	25Mar94	10Nov94	142			0	0
12003345 15 3 Det. Fate across PH--LW Prod Sim	25Mar94	15Apr94	25Mar94	15Apr94	0		MAREK	0	0
12003350 15 3 Det. Fate in PHA--SRAT/SME	3May94	23May94	18Apr94	6May94	-11		HSU	11 HSU	0
12003355 10 2 Det. Irrad. PHA Surfynol Effect	26Jun94	9Jun94	9May94	20May94	-13		EIBLING	2 EIBLING	0
12003360 0 0 Det. Fate across LM--LW Feed	10Jun94	10Jun94	23May94	23May94	-12		MONSON	0	0
12003365 0 0 Det. Fate in LW Prod. across PH	25Mar94	25Mar94	27Oct94	27Oct94	144		MAREK	0	0
12003370 0 0 Det. Fate in PHA across SRAT/SME	25Mar94	25Mar94	27Oct94	27Oct94	144		HSU	0	0
12003375 10 2 Document Results	25Mar94	8Apr94	27Oct94	9Nov94	143		MONSON	0	0
12003399 1 0 Compl.LM/PHP/MFP Surfactant Fate	11Apr94	11Apr94	10Nov94	10Nov94	142	10Nov94		0	0

Primary Task.. MLTR TEST
 Subtask..... CU(N03)2
 Organization.. PTD

12003800 323 0 Copper Nitrate Replacement	16Aug93	29Nov94	16Aug93	16Aug94	-112		RAMSEY	0	0 x
12003835 16 12 Doc. #3 Glass Durability Results	13Oct94	3Nov94	28Apr94	19May94	-112		BATCH	0	0 x
12003837 6 0 Doc. 1/200 SRAT Cycle/Glass Prod	25Mar94	4Apr94	12May94	19May94	30		LONDON	0	0 x
12003840 14 10 Prepare Summary Tech. Basis Doc.	17Oct94	3Nov94	2May94	19May94	-112		LONDON	0	0 x
12003841 10 5 Issue Summary Tech. Basis Doc.	11Nov94	28Nov94	27May94	10Jun94	-114		MILLER	0	0
12003845 19 0 Run IDMS PX7	25Mar94	21Apr94	16May94	10Jun94	-112	22Jul94	RAMSEY	129 RAMSEY	0
12003848 10 5 Perform Confirmatory Run (774-A)	29Sep94	12Oct94	14Apr94	27Apr94	-112	13Jun94		0	0
12003849 1 0 Compl.Copper Nitrate Replacement	29Nov94	29Nov94	13Jun94	13Jun94	-112	13Jun94		0	0

Primary Task.. MLTR TEST
 Subtask..... DEMO FEED
 Organization.. GTG

14006350 101 0 Demonstrate Initial DMFF Feed	2Dec93	28Apr94	2Dec93	27May94	19		RAMSEY	0	0 x
14006360 100 5 Demonstrate Initial DMFF Feed	25Mar94	27Apr94	26Apr94	26May94	19	28May94		0	0 x
14006399 1 0 Complete Initial DMFF Feed Demo.	28Apr94	28Apr94	27May94	27May94	19			0	0

Primary Task.. MLTR TEST
 Subtask..... DOC.
 Organization.. GTG

14008900 110 0 Startup Analyses/Documentation	28Jan94	7Jul94	7Jan94	19Apr94	-52		HARBOUR	0	0
14008910 90 5 Doc. Ceramic Ring Qualification	25Mar94	7Jun94	3Feb94	18Apr94	-33		HARBOUR	0	0
14008920 40 5 Doc. Parametric Welding Study	25Mar94	6May94	7Mar94	18Apr94	-12		HARBOUR	0	0
14008930 70 5 Revise Canister Disposition Plan	25Mar94	6Jul94	7Jan94	18Apr94	-52		HARBOUR	0	0
14008940 40 5 Revise Canister Process Reqs.	25Mar94	8Apr94	5Apr94	18Apr94	6		HARBOUR	0	0
14008999 1 0 Compl.Startup Analyses/Doc.	7Jul94	7Jul94	19Apr94	19Apr94	-52	19Apr94		0	0

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Primary Task.. MLTR TEST										
Subtask..... FA 10.02										
Organization.. PMC										
13001700 237 0 Melter Feed Loop Sampl'g Repts.	19Jan94	29Dec94	19Jan94	19Apr94	-169			0		0
13001710 5 0 Stat. Analyze Samplr Comp Sampla	25Mar94	30Mar94	16Mar94	21Mar94	-6		EDWARDS	0		20
13001715 15 10 Issue Samplr Comp. Final Report	3Nov94	28Dec94	31Mar94	18Apr94	-169		GILL	154	GILL	20
13001725 15 0 Chem. Analy. Settling/Respn Samples	25Mar94	15Apr94	28Feb94	18Mar94	-18		BEST	0		0
13001730 5 0 Stat. Analy. Settling/Respn Samples	18Apr94	22Apr94	21Mar94	25Mar94	-18		EDWARDS	0		0
13001735 15 10 Issue Settling/Respn Final Report	27Oct94	20Dec94	22Mar94	18Apr94	-164		GILL	129	GILL	0
13001740 8 0 Issue Prelim. Feed System Reports	25Mar94	6Apr94	14Mar94	15Feb94	-33		SHADDAY	0		0
13001765 10 1 Stat. Analyze Phase 2 Samples	25Mar94	8Apr94	14Mar94	25Mar94	-9		EDWARDS	0		0
13001770 15 10 Issue Ph.2 Samplr Comp Final Rep	20Oct94	13Dec94	28Mar94	18Apr94	-159		GILL	134	GILL	20
13001775 40 20 Generate Variations to Feed Mltr	11Apr94	20Apr94	20Apr94	18Apr94	-24		SMITHF	10	SMITHF	0
13001785 15 0 Issue Consultant Contract	25Mar94	15Apr94	25Mar94	18Apr94	-169	2 Mar94	GILL	0		0
13001799 1 0 Compl. MF Loop Sampl'g Repts.	29Dec94	29Dec94	19Apr94	19Apr94	-169	19Apr94		0		0

Primary Task.. MLTR TEST
 Subtask..... HT XFER
 Organization.. GTG

14009300 41 0 Melter Cooling Water Mt. Transfr	17Mar94	13May94	17Mar94	17Mar94	-48			0		0
14009310 40 20 Det. Intermed. Mltr. H2O Mt. Xfer	25Mar94	12May94	11Jan94	20Mar94	-48		HARDY	0		17
14009399 1 1 Compl. Melter Cooling Mt. Xfer	13May94	13May94	1Mar94	1Mar94	-48	1Mar94		0		0

Primary Task.. MLTR TEST
 Subtask..... LAYUP
 Organization.. PTD

12006200 354 0 Melter/Ppt. Layup Impact Analy.	18Apr94	13Sep95	29Apr94	18Apr95	-98			0		0
12006205 35 10 Issue Task/QA Plans	18Apr94	6Jun94	29Apr94	17Jun94	7		MAREK	0	MAREK	0
12006210 65 15 Def. Batch 1 Sludge Composition	25Mar94	27Jun94	25Mar94	27Jun94	0	11Jul94	BIBLE	0		0
12006215 70 12 Test w/o NMs or Hg (FA 13)/Doc.	7Jun94	20Oct94	6Jan95	13Apr95	116		MAREK	0		0
12006220 70 12 Test w/o NMs or Hg (WP 15)/Doc.	8Nov94	22Feb95	6Jan95	13Apr95	33		MAREK	0	MAREK	0
12006225 70 12 Test w/o NMs or Hg (WP 16)/Doc.	27Dec94	5May95	6Jan95	13Apr95	-14		MAREK	0		0
12006230 70 17 Test w/NMs and Hg (WP 17)/Doc.	16Aug94	10Dec94	28Jun94	6Oct94	-37		MAREK	0		0
12006235 130 27 Test w/Irrad. Feed w/NH/Hg /Doc.	20Dec94	13Jun95	7Oct94	13Apr95	-40		MAREK	0		0
12006240 0 0 Monitor Comp. of PRFT Contents	7Jun94	7Jun94	20Jun94	20Jun94	8	20Jun94	YOUNG	0		0
12006245 130 22 Test SPC Feed Decomposition/Doc.	16Aug94	21Feb95	4Apr94	6Oct94	-92		MAREK	98	MAREK	0
12006250 120 20 Analy. SPC Feed/Hyd. Layup Impact	22Feb95	14Aug95	7Oct94	30Mar95	-91		EIBLING	0		0
12006251 120 20 Analy. SPC Feed/Hyd. Layup Impact	22Feb95	29Aug95	7Oct94	30Mar95	-101		BAHNOCHIE	0		0
12006255 10 2 Doc. SPC Feed/Hyd. Layup Impact	15Aug95	29Aug95	31Mar95	13Apr95	-92		EIBLING	0		0
12006256 10 2 Doc. SPC Feed/Hyd. Layup Impact	30Aug95	12Sep95	31Mar95	13Apr95	-101		BAHNOCHIE	0		0
12006260 0 0 Monitor PRBT PHA Quality/Doc.	7Jun94	7Jun94	18Apr95	18Apr95	210		YOUNG	0		0
12006265 0 0 Char. HLC PHA for Layup Effect/Doc	7Jun94	7Jun94	18Apr95	18Apr95	210		FERRARA	0		0
12006270 130 14 Irrad. PHA - Composition/Doc.	22Aug94	27Feb95	7Oct94	13Apr95	30		EIBLING	0		0
12006275 38 7 Comp. SRAT Cycle w/Layup PHA/Doc	19Sep94	9Nov94	21Feb95	13Apr95	103		HSU	19	HSU	0
12006299 1 0 Complete Melter/Ppt. Layup Analy	13Sep95	13Sep95	18Apr95	18Apr95	-98			0		0

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Primary Task.. MLTR TEST										
Subtask..... METHOD--CU										
Organization.. PMC										
13001100 238 0 Improve Copper Analysis	7Feb94	19Jan95	7Feb94	20May94	-162		BEST	0		0
13001110 30 10 Issue Cu Task and QA Plans	25Mar94	8Apr94	2Feb94	15Feb94	-34		BEST	0		67
13001120 40 20 Perform Cu Tests	11Apr94	9Dec94	16Feb94	14Apr94	-159		BEST	0		0
13001130 10 4 Perform Statistical Analysis	12Dec94	27Dec94	15Apr94	28Apr94	-162		EDWARDS	0		0
13001140 15 5 Document Cu Results	28Dec94	18Jan95	29Apr94	19May94	-162		BEST	0		0
13001199 1 0 Compl. Copper Analy. Improvement	19Jan95	19Jan95	20May94	20May94	-162	20May94		0		0
Primary Task.. MLTR TEST										
Subtask..... METHOD--DA										
Organization.. PMC										
13001300 228 0 Improve Dilute Acid Analysis	7Feb94	5Jan95	7Feb94	14May94	-156		BEST	0		0
13001310 5 2 Issue Dilute Acid Study Plan	25Mar94	31Mar94	25Mar94	31Mar94	-15		BEST	0		0
13001320 20 10 Perform Dilute Acid Tests	4Apr94	16Dec94	4Apr94	28Apr94	-154		BEST	0		0
13001340 10 5 Document Dilute Acid Results	19Dec94	4Jan95	2May94	14May94	-157		BEST	0		0
13001399 1 0 Compl. Dilute Acid Improvement	5Jan95	5Jan95	14May94	14May94	-156			0		0
Primary Task.. MLTR TEST										
Subtask..... MOG MODEL										
Organization.. PMC										
13010200 296 0 MOG Dynamics Simulation	5Oct93	9Dec94	5Oct93	26Sep94	-49		CHOI	0		0
13010220 61 30 Dev. Dynamics Model Phase 2	25Mar94	26Apr94	2Mar94	31Mar94	-17	1Apr94	CHOI	0		64
13010230 180 20 Retune MOG Dynamics Model	25Mar94	8Dec94	25Mar94	23Sep94	-50			0		30
13010299 1 0 Compl. MOG Dynamics Simulation	9Dec94	9Dec94	26Sep94	26Sep94	-49			0		0
Primary Task.. MLTR TEST										
Subtask..... NON-RAD CS										
Organization.. PMC										
13002100 212 0 Dev. Recovrd Org. Non-Rad. Cs Methd	4Nov93	12Sep94	4Nov93	1Aug94	-28		POLICKE	0		0
13002115 100 20 Analyze Standards/ADS	5Apr94	7Sep94	15Apr94	29Jul94	-26		POLICKE	56		27
13002120 50 10 Dev. Cs in Recovrd Organic Proc.	15Jun94	11Aug94	11May94	29Jun94	-28		POLICKE	0		30
13002125 20 5 Issue Cs in Recovrd Organic Rep.	12Aug94	9Sep94	30Jun94	29Jul94	-28		POLICKE	0		0
13002139 1 0 Compl. Recovrd Org. Non-Rad Cs Det	12Sep94	12Sep94	1Aug94	1Aug94	-28	1Aug94		0		0
Primary Task.. MLTR TEST										
Subtask..... SOLID CONC										
Organization.. PTD										
12003100 58 0 Rheology Studies (FA 13/MP 14)	25Mar94	16Jun94	7Mar94	19Apr94	-38		MAREK	0		0
12003102 30 6 Issue Task/QA Plans	25Mar94	6May94	7Mar94	18Apr94	-12		MAREK	0		0
12003112 15 5 Def. Solids Conc. Opr. Range-to-MP14	25Mar94	31Mar94	14Mar94	18Mar94	-8		MAREK	27		73
12003114 20 5 Doc. FA 13/MP 14 Rheology Results	18May94	15Jun94	21Mar94	18Apr94	-38			0		0
12003115 1 0 Complete FA 13/MP 14 Rheology	16Jun94	16Jun94	19Apr94	19Apr94	-38	19Apr94		0		0

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Primary Task.. MLTR TEST										
Subtask..... SPC CLEAN										
Organization.. PTD										
12001100	148	0	SPC Vessel Cleaning Techniques	14Dec93	19Jul94	14Dec93	27May94	-35		0
12001125	20	0	Eval. Soln Combatibility w/Mat'l	25Mar94	22Apr94	31Mar94	28Apr94	4	ZAPP	0
12001130	20	10	Doc.Recomm. Clean. Tech/Disposal	17Jun94	18Jul94	29Apr94	26May94	-35	MAREK	38
12001139	1	0	Complete SPC Vessel Cleaning	19Jul94	19Jul94	27May94	27May94	-35	28May94	0
Primary Task.. MLTR TEST										
Subtask..... TNX PREP										
Organization.. GTG										
14008700	254	0	Canister Receipt/Testing Prep.	12Oct93	17Oct94	12Oct93	19Apr94	-120		0
14008730	40	14	Repair Deficiencies	25Mar94	16Oct94	7Mar94	18Apr94	-119	HARBOR	0
14008731	40	20	Repair Deficiencies	25Mar94	17May94	7Mar94	18Apr94	-19	HERMAN	0
14008799	1	0	Complete Canister Receipt/Test Prep	17Oct94	17Oct94	19Apr94	19Apr94	-120	19Apr94	0
Primary Task.. MLTR TEST										
Subtask..... WP19 ANALY										
Organization.. PMC										
13002300	273	0	WP-19 Analyzes and Report	10Sep93	12Oct94	10Sep93	9May94	-104		0
13002340	30	8	Issue Supplemental SHE Final Rep	17May94	11Oct94	5Apr94	6May94	-105	GILL	36
13002345	30	4	Issue Supplementl SRAT Final Rep	27May94	24Jun94	21Apr94	6May94	-32	GILL	44
13002350	30	6	Issue Supplemental MFT Final Rep	25Mar94	14Jul94	25Mar94	6May94	-46	GILL	0
13002399	1	0	Complete WP 19 Analyzes	12Oct94	12Oct94	9May94	9May94	-104		0
Primary Task.. MLTR TEST										
Subtask..... 1/200 SRAT										
Organization.. PTD										
12003200	195	0	SRAT Coil Fouling w/Batches	23Jul93	3May94	23Jul93	2May94	0		0
12003260	25	5	Document Results for TI 4.12	25Mar94	2May94	25Mar94	29Apr94	-2	BAICH	0
12003299	1	0	Complete SRAT Coil Fouling w/Batches	3May94	3May94	2May94	2May94	0		0
Primary Task.. OTD										
Subtask..... ACTINIDE										
Organization.. GTG										
14014700	1	0	Actinide Waste Activities	25Mar94	25Mar94	25Mar94	25Mar94	0		0
14014710	0	0	Obtain Sample of Actinide Waste	25Mar94	25Mar94	25Mar94	25Mar94	0	RANSEY	0
14014799	1	0	Complete Actinide Waste Activities	25Mar94	25Mar94	25Mar94	25Mar94	0		0
Primary Task.. OTD										
Subtask..... AM-CIF ASH										
Organization.. GTG										
14015500	75	0	Advanced Melter (Clamson)	8Aug94	21Nov94	14Jun94	2Sep94	-53		0

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Primary Task.. OTD										
Subtask..... AM-CIF ASH										
Organization.. GTG										
14015510 3 1 Pre-Certify Feed	8Aug94	10Aug94	14Jun94	16Jun94	-36	13Jun94	CICERO	38	CICERO	0
14015530 10 2 Provide Vitrification Support	15Aug94	26Aug94	20Jun94	5Jul94	-34		BICKFORD	0		0
14015531 10 2 Provide Vitrification Support	15Aug94	30Aug94	20Jun94	5Jul94	-37		CICERO	0		0
14015532 10 2 Provide Vitrification Support	24Aug94	21Sep94	20Jun94	5Jul94	-52		HERMAN	7	HERMAN	0
14015540 10 1 Perform PCT Tests	26Sep94	7Oct94	8Jul94	21Jul94	-52		ANDREWS	0		0
14015541 10 1 Perform PCT Tests	26Sep94	7Oct94	8Jul94	21Jul94	-52		CICERO	0		0
14015580 40 1 Issue Final Report	26Sep94	18Nov94	8Jul94	1Sep94	-52		BICKFORD	0		0
14015581 40 1 Issue Final Report	26Sep94	18Nov94	8Jul94	1Sep94	-52		CICERO	0		0
14015599 1 0 Complete Advanced Melter Study	21Nov94	21Nov94	28Sep94	28Sep94	-53	5Sep94		0		0

Primary Task.. GTD
Subtask..... AM-IX FEED
Organization.. GTG

14015100 111 0 Advanced Melter (Clemson)	18Feb94	29Jul94	18Feb94	28Jun94	-20		HERMAN	0		0
14015120 25 6 Modify Melter/Perform Maintenance	25Mar94	25Mar94	25Mar94	25Mar94	0		BICKFORD	3	BICKFORD	0
14015130 20 2 Provide Vitrification Support	31Mar94	28Apr94	28Mar94	25Apr94	-2		CICERO	12	CICERO	0
14015131 20 2 Provide Vitrification Support	14Apr94	11May94	28Mar94	25Apr94	-10		HERMAN	3	HERMAN	0
14015132 20 2 Provide Vitrification Support	31Mar94	3May94	28Mar94	25Apr94	-5		ANDREWS	5	ANDREWS	0
14015140 10 2 Perform PCT Tests	25May94	15Jul94	2May94	13May94	-27		CICERO	6	CICERO	0
14015141 10 2 Perform PCT Tests	26May94	23Jun94	2May94	13May94	-18		BICKFORD	0		0
14015180 40 1 Issue Final Report	26May94	25Jul94	2May94	27Jun94	-20		CICERO	3	CICERO	0
14015181 40 1 Issue Final Report	1Jun94	28Jul94	2May94	27Jun94	-20			0		0
14015199 1 0 Complete Advanced Melter Study	29Jul94	29Jul94	28Jun94	28Jun94	-20			0		0

Primary Task.. OTD
Subtask..... AM-LANL
Organization.. GTG

14015400 186 0 Advanced Melter (Clemson)	18Feb94	14Nov94	18Feb94	1Aug94	-70		ANDREWS	0		0
14015410 30 12 Perform Batch & Melt Cruc. Study	31Mar94	8Apr94	11Mar94	18Mar94	-14		CICERO	4	CICERO	83
14015411 30 12 Perform Batch & Melt Cruc. Study	31Mar94	13Apr94	11Mar94	18Mar94	-17		ANDREWS	6	ANDREWS	63
14015420 40 6 Analyze Crucible Studies	11Apr94	29Apr94	16Mar94	6Apr94	-15		CICERO	3	CICERO	63
14015421 40 6 Analyze Crucible Studies	14Apr94	4May94	16Mar94	6Apr94	-18		ANDREWS	7	ANDREWS	0
14015430 20 4 Issue Crucible Studies Report	2May94	27May94	23Mar94	20Apr94	-24		CICERO	10	CICERO	0
14015431 20 4 Issue Crucible Studies Report	5May94	7Jun94	23Mar94	20Apr94	-32		CICERO	40	CICERO	66
14015440 7 7 Issue Task Plan for Demonstration	30Jun94	4Aug94	17Mar94	20Apr94	-70		CICERO	2	CICERO	0
14015450 3 1 Pre-certify Feed	29Aug94	31Aug94	11May94	13May94	-73		BICKFORD	0		0
14015460 10 2 Provide Vitrification Support	1Sep94	15Sep94	16May94	27May94	-74		CICERO	0		0
14015461 10 2 Provide Vitrification Support	1Sep94	15Sep94	16May94	27May94	-74		HERMAN	0		0
14015462 10 2 Provide Vitrification Support	1Sep94	15Sep94	16May94	27May94	-74		ANDREWS	0		0
14015470 10 1 Perform PCT Tests	19Sep94	30Sep94	2Jun94	15Jun94	-71		CICERO	0		0
14015471 10 1 Perform PCT Tests	19Sep94	30Sep94	2Jun94	15Jun94	-71		BICKFORD	0		0
14015480 40 1 Issue Final Report	19Sep94	11Nov94	2Jun94	29Jul94	-70		CICERO	0		0
14015481 40 1 Issue Final Report	19Sep94	11Nov94	2Jun94	29Jul94	-70			0		0
14015499 1 0 Complete Advanced Melter Study	14Nov94	14Nov94	1Aug94	1Aug94	-70	1Aug94		0		0

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D Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del.	Resource	Com M
Primary Task... OTD										
Subtask..... AM-MISC.										
Organization... GTG										
314015700 346 0 Adv. Melter Misc. (Clemson)	3Jan94	19May95	3Jan94	15Nov94	-123		ANDREWS	0		0
314015710 60 12 Perform Long Term PCT Tests	25Mar94	28Mar94	7Mar94	8Mar94	-13		CICERO	0		97
314015711 60 12 Perform Long Term PCT Tests	25Mar94	28Mar94	7Mar94	8Mar94	-13		ANDREWS	0		97
314015730 140 28 Perform Additional PCT Tests	29Mar94	19Dec94	15Mar94	30Oct94	-51		CICERO	0		0
314015731 140 28 Perform Additional PCT Tests	29Mar94	14Dec94	15Mar94	30Oct94	-48		CICERO	0		0
314015740 20 12 Doc. Results	27Mar95	18May95	4Oct94	31Oct94	-132	31Oct94	ANDREWS	66	ANDREWS	0
314015741 20 12 Doc. Results	20Dec94	19Jan95	4Oct94	31Oct94	-53	31Oct94	BICKFORD	0		0
314015742 20 12 Doc. Results	20Dec94	19Jan95	4Oct94	31Oct94	-53	31Oct94	CICERO	0		0
314015750 100 0 Perform XRF on Glasses	25Mar94	17Mar94	8Mar94	29Jul94	-12	29Jul94	ADS	10	ANDREWS	0
314015750 80 16 Perform PCT on Glasses	11Apr94	30Oct94	6Apr94	29Jul94	-45	29Jul94	ANDREWS	13	CICERO	0
314015761 80 16 Perform PCT on Glasses	14Apr94	10Oct94	6Apr94	29Jul94	-48	29Jul94	CICERO	0		0
314015770 80 8 Analyze TCLP and GCA Tests	25Mar94	16Sep94	6Apr94	29Jul94	-32	29Jul94	CICERO	0		0
314015799 1 0 Complete Advanced Melter Misc.	19May95	9May95	15Nov94	15Nov94	-123			0		0

Primary Task... OTD
Subtask..... AM-OR WETF
Organization... GTG

314015200 103 0 Advanced Melter (Clemson)	2Feb94	29Jun94	2Feb94	25Feb94	-24		ANDREWS	0		0
314015210 40 16 Perform Additional Crucible Study	25Mar94	30Mar94	22Feb94	25Feb94	-28		CICERO	0		92
314015211 40 16 Perform Additional Crucible Study	25Mar94	30Mar94	22Feb94	25Feb94	-28		CICERO	1	CICERO	0
314015220 3 1 Pre-Certify Feed	6Apr94	8Apr94	3Mar94	7Mar94	-21		CICERO	0		0
314015230 10 2 Provide Vitrification Support	11Apr94	22Apr94	8Mar94	21Mar94	-21		BICKFORD	0		0
314015231 10 2 Provide Vitrification Support	11Apr94	22Apr94	8Mar94	21Mar94	-21		CICERO	0		0
314015232 10 2 Provide Vitrification Support	13Apr94	26Apr94	8Mar94	21Mar94	-24		HERMAN	2	HERMAN	0
314015240 10 2 Perform PCT Tests	3May94	16May94	28Mar94	11Apr94	-23		ANDREWS	0		0
314015241 10 2 Perform PCT Tests	3May94	16May94	28Mar94	11Apr94	-23		CICERO	0		0
314015280 40 1 Issue Final Report	3May94	28Jun94	28Mar94	23May94	-24		BICKFORD	0		0
314015281 40 1 Issue Final Report	3May94	28Jun94	28Mar94	23May94	-24		CICERO	0		0
314015299 1 0 Complete Advanced Melter Study	29Jun94	29Jun94	24May94	24May94	-24	24May94		0		0

Primary Task... OTD
Subtask..... AM-REPORTS
Organization... GTG

314015600 211 0 Adv. Melter Reports (Clemson)	9Feb94	12Dec94	9Feb94	30Oct94	-46			0		0
314015620 13 2 Issue Mid-Year Report	25Mar94	13Apr94	15Mar94	31Mar94	-8	31Mar94	BICKFORD	0		0
314015621 13 2 Issue Mid-Year Report	25Mar94	13Apr94	15Mar94	31Mar94	-8	31Mar94	CICERO	0		0
314015630 12 2 Issue Third Quarter Report	25Mar94	12Apr94	15Jun94	30Jun94	52	30Jun94	BICKFORD	0		0
314015631 12 2 Issue Third Quarter Report	25Apr94	24Aug94	15Jun94	30Jun94	-36	30Jun94	CICERO	20	CICERO	0
314015640 22 5 Issue Composn Glass Limits Rep	25Mar94	28Apr94	1Jun94	30Jun94	42	30Jun94	BICKFORD	0		0
314015641 22 5 Issue Composn Glass Limits Rep	24Jun94	26Aug94	1Jun94	30Jun94	-38	30Jun94	CICERO	63	CICERO	0
314015650 23 5 Issue Advanced Melter Comparison	14Apr94	16May94	1Aug94	31Aug94	71	31Aug94	BICKFORD	13	BICKFORD	0
314015651 23 5 Issue Advanced Melter Comparison	11Oct94	10Nov94	1Aug94	31Aug94	-47	31Aug94	CICERO	137	CICERO	0
314015660 85 20 Issue Delisting Plan	25Mar94	27Jul94	1Jun94	30Sep94	43		BICKFORD	0		0
314015661 85 20 Issue Delisting Plan	8Jul94	9Dec94	1Jun94	30Sep94	-46		CICERO	71	CICERO	0
314015670 12 2 Issue Final Report	25Mar94	4May94	15Sep94	30Sep94	99		BICKFORD	0		0
314015671 12 2 Issue Final Report	30Oct94	16Nov94	15Sep94	30Sep94	-31		CICERO	131	CICERO	0

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Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del. Resource	Com M			
Primary Task.. OTD												
Subtask..... AM-REPORTS												
Organization.. GTG												
14015699	1	0	Complete Advanced Melter Reports	12Dec94	12Dec94	30Oct94	30Oct94	-46	30Oct94	0	0	
Primary Task.. OTD												
Subtask..... AM-RFP												
Organization.. GTG												
14015300	210	0	Advanced Melter (Clemson)	26Oct93	29Aug94	26Oct93	5Jul94	-36		0	0	
14015330	10	6	Issue Crucible Studies Report	31May94	12Jun94	25Mar94	8Apr94	-44	ANDREWS	45	ANDREWS	0
14015331	10	6	Issue Crucible Studies Report	12May94	25Mar94	25Mar94	8Apr94	-31	CICERO	33	CICERO	0
14015340	90	9	Issue Task Plan for Demonstratn	25Mar94	25Mar94	11Mar94	24Apr94	-10	CICERO	0		89
14015350	3	1	Pre-certify Feed	26May94	14Apr94	14Apr94	18Apr94	-28	CICERO	19	CICERO	0
14015360	10	2	Provide Vitrification Support	3Jun94	16Jun94	21Apr94	18Apr94	-28	BICKFORD	0		0
14015361	10	2	Provide Vitrification Support	8Jun94	21Apr94	21Apr94	18Apr94	-34	CICERO	3	CICERO	0
14015362	10	2	Provide Vitrification Support	13Jun94	24Jun94	21Apr94	18Apr94	-40	HERMAN	6	HERMAN	0
14015370	10	1	Perform PCT Tests	30Jun94	18Jul94	5May94	18Apr94	-38	ANDREWS	3	ANDREWS	0
14015371	10	1	Perform PCT Tests	30Jun94	15Jul94	5May94	18Apr94	-38	CICERO	3	CICERO	0
14015380	40	1	Issue Final Report	30Jun94	26Aug94	5May94	30Jun94	-38	BICKFORD	0		0
14015381	40	1	Issue Final Report	30Jun94	26Aug94	5May94	30Jun94	-38	CICERO	0		0
14015399	1	0	Complete Advanced Melter Study	29Aug94	29Aug94	5Jul94	11Jul94	-34		0		0
Primary Task.. OTD												
Subtask..... ASPEN												
Organization.. GTG												
14001600	259	0	ASPEN Modeling Activities	27Sep93	70Oct94	27Sep93	30Sep94	-4		0		0
14001620	252	25	Model Clemson Runs with ASPEN	25Mar94	28Sep94	28Mar94	29Sep94	0	KIELPASKI	0		49
14001621	160	16	Model Clemson Runs with ASPEN	31Mar94	60Oct94	6May94	29Sep94	-4	HERMAN	0	HERMAN	37
14001699	1	0	Complete ASPEN Model Activities	70Oct94	70Oct94	30Sep94	30Sep94	-4		0		0
Primary Task.. OTD												
Subtask..... DEMO PREP												
Organization.. GTG												
14014500	427	0	Field Demo. Preparation	19Oct93	5Jul95	19Oct93	30Jun95	-3		0		0
14014510	370	20	Construct Field Vitr. Facility	25Mar94	4Jul95	22Mar94	29Jun95	-3	JANTZEN	0		14
14014530	140	15	Prepare Delineating Petition	25Mar94	18Aug94	25Mar94	29Jul94	-13	JANTZEN	0		38
14014540	20	2	Issue Interim Report on Facility	25Mar94	22Apr94	2Sep94	30Sep94	107	JANTZEN	0		0
14014550	80	15	Facilitate MOU(Memo.of Underst.)	21Jun94	28Oct94	8Jun94	30Sep94	-18	JANTZEN	7	JANTZEN	0
14014599	1	0	Complete Field Demo. Preparation	5Jul95	5Jul95	30Jun95	30Jun95	-3		0		0
Primary Task.. OTD												
Subtask..... FIELD DEMO												
Organization.. GTG												
14014600	360	0	Field Vitrification Demonstratn	25Apr94	28Sep95	1Dec94	29Sep95	0		0		0
14014610	20	2	Issue Interim Report on Facility	25Apr94	20May94	1Dec94	30Dec94	149	JANTZEN	20	JANTZEN	0

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Primary Task.. OTD											
Subtask..... FIELD DEMO											
Organization.. GTG											
14014620	20	5	Checkout Meltr (Surrogate Waste)	120ct94	8Nov94	3Apr95	3May95	117	JANTZEN	78 JANTZEN	0
14014630	100	25	Checkout MOG (Surrogate Waste)	21Jun94	20Jan95	7Dec94	3May95	68	JANTZEN	0	0
14014640	20	10	Perform ORR or Equivalent	23Jan95	17Feb95	4May95	1Jun95	69	1Jun95 JANTZEN	0	0
14014650	60	10	Demo. Vitrification in Facility	5Jul95	27Sep95	6Jul95	28Sep95	0	JANTZEN	0	0
14014660	40	10	Perform Glass Waste Form Tests	5Jul95	30Aug95	3Aug95	28Sep95	19	JANTZEN	0	0
14014699	1	0	Compl. Field Vitrification Demo.	28Sep95	28Sep95	28Sep95	29Sep95	0	30Sep95	0	0
Primary Task.. OTD											
Subtask..... GLASS FORM											
Organization.. GTG											
14014900	1	0	Glass Char. and Durability	25Mar94	25Mar94	25Mar94	25Mar94	0		0	0
14014910	0	0	Det. Best Glass Forming System	25Mar94	25Mar94	25Mar94	25Mar94	0	RAMSEY	0	0
14014920	0	0	Det. Solubility of Np,Pu,Am,Cm	25Mar94	25Mar94	25Mar94	25Mar94	0	RAMSEY	0	0
14014930	0	0	Det. Optimum Glass Composition	25Mar94	25Mar94	25Mar94	25Mar94	0	RAMSEY	0	0
14014940	0	0	Issue Final Report	25Mar94	25Mar94	25Mar94	25Mar94	0	RAMSEY	0	0
14014999	1	0	Compl. Glass Char. and Durability	25Mar94	25Mar94	25Mar94	25Mar94	0		0	0
Primary Task.. OTD											
Subtask..... ION EXCHNG											
Organization.. GTG											
14001300	1	0	Ion Exchange Activities	25Mar94	25Mar94	25Mar94	25Mar94	0		0	0
14001310	0	0	Perform Ion Exchange Runs/PCTs	25Mar94	25Mar94	25Mar94	25Mar94	0	BEAN	0	0
14001399	1	1	Complete Ion Exchange Activities	25Mar94	25Mar94	25Mar94	25Mar94	0		0	0
Primary Task.. OTD											
Subtask..... PLASMA-GIT											
Organization.. GTG											
14002100	401	0	Plasma--GIT Vitrification	25Mar94	27Oct95	25Mar94	27Oct95	0		0	0
14002110	40	10	Issue ERDA	25Mar94	20May94	25Mar94	20May94	0	SCHUMACHER	0	0
14002120	360	36	Perform Vitrification Runs	23May94	26Oct95	23May94	26Oct95	0	SCHUMACHER	0	0
14002199	1	0	Complete GIT Plasma Vitrificatn	27Oct95	27Oct95	27Oct95	27Oct95	0		0	0
Primary Task.. OTD											
Subtask..... PLASMA-GR.											
Organization.. GTG											
14002200	401	0	Plasma--Graphite Vitrifctn	25Mar94	27Oct95	7Mar94	20Oct95	-4		0	0
14002210	25	10	Issue ERDA	25Mar94	2May94	7Mar94	11Apr94	-14	SCHUMACHER	0	0
14002220	120	12	Procure Graphite Melter	3May94	21Oct94	12Apr94	30Sep94	-14	30Sep94 SCHUMACHER	0	0
14002230	250	63	Perform Vitrification Runs	28Oct94	26Oct95	21Oct94	19Oct95	-4	SCHUMACHER	4 SCHUMACHER	0
14002299	1	0	Complete Graphite Plasma Vitr.	27Oct95	27Oct95	20Oct95	20Oct95	-4		0	0

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Primary Task... OTD											
Subtask..... PLASMA-T.T											
Organization.. GTG											
314002300	360	0 Plasma--Transport. Torch Vitr.	25Mar94	31Aug95	1Aug94	31Aug95	0			0	0
314002310	0	0 Issue ERDA	25Mar94	25Mar94	1Aug94	1Aug94	86		SCHUMACHER	0	0
314002320	180	45 Design Transportable Torch	1Aug94	19Apr95	1Aug94	19Apr95	0	1Aug94	SCHUMACHER	0	0
314002330	252	25 Procure Transportable Torch	29Aug94	30Aug95	29Aug94	30Aug95	0	30Sep95	SCHUMACHER	0	0
314002340	180	45 Assemble Transportable Torch	12Dec94	30Aug95	12Dec94	30Aug95	0	30Sep95	SCHUMACHER	0	0
314002350	0	0 Perform Vitrification Runs	31Aug95	31Aug95	31Aug95	31Aug95	0		SCHUMACHER	0	0
314002399	1	0 Compl. Transport. Torch Vitr.	31Aug95	31Aug95	31Aug95	31Aug95	0			0	0
Primary Task... OTD											
Subtask..... SALT SOLUB											
Organization.. GTG											
314013800	259	0 Salt Solubility Studies (LL/MW)	24Nov93	8Dec94	24Nov93	29Sep94	-46		ANDREWS	0	0
314013820	90	18 Perform Initial Crucible Tests	25Mar94	22Jul94	25Jan94	19Apr94	-42		ADS	0	10
314013830	10	0 ADS Analyze Samples	25Jul94	5Aug94	20May94	31Jun94	-42		ANDREWS	5	0
314013840	50	10 Evaluate & Perform Further Tests	15Aug94	24Oct94	14Jun94	16Aug94	-46		ADS	0	0
314013850	10	0 ADS Analyze Samples	25Oct94	7Nov94	17Aug94	30Aug94	-46		ANDREWS	0	0
314013860	20	4 Document Results	8Nov94	7Dec94	31Aug94	29Sep94	-46			0	0
314013899	1	0 Complete Salt Solubility (LL/MW)	8Dec94	8Dec94	29Sep94	29Sep94	-46			0	0
Primary Task... OTD											
Subtask..... STIR MLTR											
Organization.. LSE											
311007100	585	0 Stirred Melter	6Jan93	9May95	6Jan93	26Jan95	-68		SMITH	0	95
311007120	85	25 Approve Vendor Drawings	25Mar94	12Apr94	25Mar94	31Mar94	-8		SMITH	2	9
311007130	55	20 Issue Final Design	29Mar94	14Jun94	25Mar94	7Jun94	-4		SMITH	38	0
311007135	30	15 Write Checkout Job Plans	26Aug94	31Oct94	11Aug94	22Sep94	-26		SMITH	0	0
311007140	60	6 Issue Operating Procedures	5Jul94	27Sep94	28Jun94	22Sep94	-3		SMITH	0	0
311007150	260	100 Construct Stirred Melter Room	19Apr94	2Aug95	19Apr94	3May95	-60		SMITH	0	0
311007160	40	30 Checkout Stirred Melter System	23Nov94	9Mar95	13Oct94	9Dec94	-60	1May95	SMITH	2	0
311007170	30	16 Startup Stirred Melter	23Mar95	8May95	12Dec94	25Jan95	-68		SMITH	9	0
311007199	1	0 Complete Stirred Melter	9May95	9May95	26Jan95	26Jan95	-68			0	0
Primary Task... OTD											
Subtask..... TREAT VITR											
Organization.. GTG											
314014400	189	0 Treatability Vitrification Demo	25Jan94	24Oct94	25Jan94	30Sep94	-16		JANTZEN	0	36
314014410	28	4 Issue Task Plans	25Mar94	20Apr94	25Jul94	17Aug94	79		JANTZEN	0	44
314014420	85	10 Get CRADA Approval	25Mar94	9Jun94	30Mar94	7Jun94	-1		JANTZEN	0	70
314014430	60	10 Get ORNL/M-Area Waste/METF Sludge	25Mar94	20Apr94	13Apr94	6May94	10		JANTZEN	14	0
314014440	70	30 Test Glass Optimization and Doc.	11May94	9Sep94	9May94	17Aug94	-15		JANTZEN	0	0
314014450	30	5 Treatability Scale Mltr Demo/Doc	12Sep94	21Oct94	18Aug94	29Sep94	-14		JANTZEN	0	0
314014499	1	0 Compl. Treatability Vitr. Demo.	24Oct94	24Oct94	30Sep94	30Sep94	-16	30Sep94		0	0

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Primary Task.. OTD										
Subtask..... WASTE CHAR										
Organization.. GTG										
14014800 1 0 Waste Characterizatin Activities	25Mar94	25Mar94	25Mar94	25Mar94	0			0		0
14014810 0 0 Obtain Sample of Actinide Waste	25Mar94	25Mar94	25Mar94	25Mar94	0		RAMSEY	0		0
14014899 1 0 Complete Waste Char. Activities	25Mar94	25Mar94	25Mar94	25Mar94	0			0		0
Primary Task.. RAD OPS										
Subtask..... ANAL.METHD										
Organization.. GTG										
14001100 188 0 Analytical Methods Development	30Sep93	30Jun94	30Sep93	19May95	212			0		0 x
14001110 110 66 Dev. Analytical Methods	28Jun94	29Jun94	11May95	12May95	211		BIBLERN	65	BIBLERN	99 x
14001199 1 0 Complete Analyt. Methods Dev.	30Jun94	30Jun94	15May95	15May95	212	15May95		0		0 x
Primary Task.. RAD OPS										
Subtask..... BATCH 1										
Organization.. GTG										
14006150 212 0 Demo. Batch 1 Targt in HLC	9Dec93	13Oct94	9Dec93	1Aug94	-48			0		0 x
14006151 80 12 Cycle 1,2 Tank 42 Sludge Washing	25Mar94	6Apr94	14Feb94	26Feb94	-27		FERRARA	0		91 x
14006155 20 10 Tank 42 Sludge Rheology Studies	26Apr94	23May94	25Feb94	24Mar94	-8		HA	13	HA	0 x
14006165 60 0 Provide PHA for Sludge Process'g	25Mar94	12Apr94	11Feb94	1Mar94	-28	1Mar94	HAREK	0		80 x
14006170 85 13 Perform Batch 1 Demonstration	24May94	23Sep94	29Mar94	29Jul94	-37		FERRARA	0		0 x
14006171 40 5 Perform Batch 1 Demonstration	26Jul94	12Oct94	2Jun94	29Jul94	-50		ANDREWS	83	ANDREWS	2 x
14006172 80 0 Perform Batch 1 Demonstration	24May94	16Sep94	6Apr94	29Jul94	-32		BIBLERN	0		0 x
14006173 20 8 Perform Batch 1 PCTs	27Oct94	23Nov94	9Aug94	6Sep94	-52		BRAN	30	BRAN	0 x
14006175 40 20 Tank 51 Sludge Rheology Studies	23Jun94	30Oct94	2Jun94	29Jul94	-44		HA	0		0 x
14006195 20 5 Document Results	15Sep94	12Oct94	30Jun94	29Jul94	-50		FERRARA	0		0 x
14006199 1 0 Compl.Demo. Batch 1 Targt in HLC	13Oct94	13Oct94	1Aug94	1Aug94	-48	1Aug94		0		0 x
Primary Task.. RAD OPS										
Subtask..... CHAR COUPN										
Organization.. GTG										
14008600 124 0 Characterize Enameled Can Coupon	7Jun94	2Dec94	25Jul95	15Nov95	232			0		0 x
14008610 40 8 Re-characterize Canister Coupons	7Jun94	3Aug94	25Jul95	19Sep95	274	7Jun94	SCHUMACHER	0		0 x
14008620 40 10 Doc. Canister Coupons Characteriztn	4Aug94	1Dec94	20Sep95	14Nov95	232		SCHUMACHER	0		0 x
14008699 1 0 Compl.Glass Sample Archiving Act	2Dec94	2Dec94	15Nov95	15Nov95	232	15Nov95		0		0 x
Primary Task.. RAD OPS										
Subtask..... FUJIKIN										
Organization.. PMC										
13005100 217 0 Sampler Valve Replacement Testg	18Feb94	3Jan95	18Feb94	26Apr94	-168			0		0 x
13005130 10 2 Issue Final Report	25Mar94	25Mar94	22Mar94	22Mar94	-2	22Mar94	GILL	0		90 x
13005131 10 2 Issue Final Report	25Mar94	25Mar94	22Mar94	22Mar94	-2	22Mar94	HANSEN	0		90 x
13005140 10 5 Perform Further Testing	12Oct94	30Nov94	28Mar94	11Apr94	-155		GILL	137	GILL	0 x
13005141 10 5 Perform Further Testing	16May94	8Jun94	28Mar94	11Apr94	-38		HANSEN	34	HANSEN	0 x

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D Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del. Resource	Com M		
Primary Task.. RAD OPS											
Subtask..... FUJIKIN											
Organization.. PMC											
13005150	10	2	Issue Supplemental Report	15Dec94	30Dec94	12Apr94	25Apr94	-166	GILL	10 GILL	0 x
13005151	10	2	Issue Supplemental Report	9Jun94	22Jun94	12Apr94	25Apr94	-38	HANSEN	0	0 x
13005199	1	0	Compl. Sampler Valve Rep'. Test.	3Jan95	3Jan95	26Apr94	26Apr94	-168		0	0 x
Primary Task.. RAD OPS											
Subtask..... FULLY LOAD											
Organization.. GTG											
14008100	159	0	Fully Loaded Glass Processing	24Mar94	8Apr94	26Mar94	15May95	125	FERRARA	0	0
14008110	49	10	Run Fully Loaded Glass Process	7Apr94	7Jul94	3Feb95	11Apr95	185	ANDREWS	8 FERRARA	4
14008111	20	4	Vitrify Fully Loaded Glass	18Jul94	7Nov94	12Apr95	12Apr95	124		6 ANDREWS	0
14008199	1	0	Complete Fully Loaded Glass	8Nov94	8Nov94	15May95	15May95	425		0	0
Primary Task.. RAD OPS											
Subtask..... NEW BATCH1											
Organization.. GTG											
14008400	252	0	New Batch 1 Study Activities	4Oct93	5Oct94	4Oct93	15May95	148	SCHUMACHER	0	0 x
14008410	75	17	Perform Batching and Melting	25Mar94	4Apr94	18Feb94	28Feb94	48	SCHUMACHER	5 SCHUMACHER	93 x
14008420	125	26	Measure PCT Results	4Apr94	11May94	19Jan94	28Feb94	48	SCHUMACHER	26 SCHUMACHER	78 x
14008430	185	37	Characterize Glass	3May94	8Aug94	18Nov93	28Feb94	107	SCHUMACHER	0	64 x
14008440	40	8	Document New Batch 1 Study	9Aug94	4Oct94	1Mar94	26Apr94	-107	SCHUMACHER	0	0 x
14008499	1	0	Complete New Batch 1 Study Act.	5Oct94	5Oct94	15May95	15May95	148		0	0 x
Primary Task.. RAD OPS											
Subtask..... NEW SRAT											
Organization.. GTG											
14006800	118	0	New SRAT Construction	2Dec93	23May94	2Dec93	23May94	0	FERRARA	0	0 x
14006840	20	4	Setup SRAT	25Mar94	22Apr94	25Feb94	24Mar94	-19	FERRARA	0	0 x
14006850	20	4	Document Results	25Apr94	20May94	25Apr94	20May94	0		0	0 x
14006899	1	0	Complete New SRAT Construction	23May94	23May94	23May94	23May94	0		0	0 x
Primary Task.. RAD OPS											
Subtask..... NH3 SCRUBBR											
Organization.. LSE											
11009570	54	0	NH3 Scrubber Demo Final Report	24Aug94	8Nov94	22Sep94	1Nov94	-4	LAMBERT	0	0 x
11009575	29	15	Test Scrubbers w/PX7 Run	24Aug94	4Oct94	22Sep94	1Nov94	18	LAMBERT	11 LAMBERT	0 x
11009580	25	15	Issue Final Report	5Oct94	8Nov94	28Sep94	1Nov94	-4	LAMBERT	25 LAMBERT	0 x
11009599	1	0	Compl.NH3 Scrubbr Demo Final Rep	8Nov94	8Nov94	1Nov94	1Nov94	-4		0	0 x

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Primary Task.. RAD OPS
Subtask..... OP PARAMTR
Organization.. PTD

312006100	184	0	Def.Ppt.Hydolysis Opr. Parametra	15Dec94	8Sep95	23Sep94	13Jan95	-158			0		0
312006110	20	15	Perf.Lab-Scale Ppt.Hyd.Runaw/Hg	22Feb95	21Mar95	23Sep94	20Oct94	-101		MAREK	69	MAREK	0
312006111	20	15	Perf.Lab-Scale Ppt.Hyd.Runaw/Hg	15Dec94	16Jan95	23Sep94	20Oct94	-58		BANNOCHIE	23	BANNOCHIE	0
312006120	10	10	Analyze Data	14Jun95	27Jun95	21Oct94	3Nov94	-157		MAREK	56	MAREK	0
312006121	10	10	Analyze Data	28Mar95	10Apr95	21Oct94	3Nov94	-105		BANNOCHIE	4	BANNOCHIE	0
312006130	10	0	PNEF Demo-Revised Hyd.Proc.Param	28Jun95	11Jul95	4Nov94	17Nov94	-157		PNEF	0		0
312006140	5	5	Issue Updated Hyd.Process Param.	20Jul95	26Jul95	1Nov94	28Nov94	-160	21Aug95	MAREK	6	MAREK	0
312006150	30	5	Issue Ppt.Hydrolysis Tech. Bases	27Jul95	27Jul95	29Nov94	12Jan95	-158		MAREK	0		0
312006151	30	5	Issue Ppt.Hydrolysis Tech. Bases	27Jul95	27Jul95	29Nov94	12Jan95	-158		BANNOCHIE	0		0
312006199	1	0	Compl.Intg.Ppt. Hydrolysis Analy	8Sep95	15Sep95	13Jan95	13Jan95	-158			0		0

Primary Task.. RAD OPS
Subtask..... PCCS ALT
Organization.. PMC

313003300	500	0	Alternative PCCS Platform Dev.	29Dec93	21Dec95	29Dec93	15Nov95	-24			0		0
313003310	400	40	Issue TAR	16May94	20Dec95	12Jul94	15Nov95	-24		BROWN	35	BROWN	15
313003399	1	0	Compl. Alt. PCCS Platform Dev.	21Dec95	21Dec95	15Nov95	15Nov95	-24	15Nov95		0		0

Primary Task.. RAD OPS
Subtask..... PCCS 4.0
Organization.. PMC

313004700	532	0	PCCS version 4.0	25Mar94	7May96	25Mar94	18Oct95	-134			0		0
313004703	5	2	Issue TTR for v4.0	10Nov94	16Nov94	11Oct95	17Oct95	223	3Jan96	BROWN	150	BROWN	0
313004705	25	0	Gather and Measure FA 18 Data	25Mar94	29Apr94	25Mar94	29Apr94	0	2Feb96	DMPF	0		0
313004710	20	5	Analyze FA 18 Information	18Apr94	25Sep94	4Apr94	29Apr94	-84		BROWN	10	BROWN	0
313004715	5	4	Update v4.0 Covariance Matrices	2May94	6May94	5Sep95	11Sep95	328		REEVE	0		0
313004725	5	0	Update LIMS per v4.0 Repts	10Jan95	16Jan95	11Oct95	17Oct95	182		DMPF	0		0
313004730	200	100	Update v4.0 and Documentation	8Feb95	7Feb96	7Dec94	22Sep95	-92		BROWN	0		0
313004735	6	5	Issue v4.0 Test Case and Results	11Apr96	18Apr96	25Sep95	20Oct95	-132		BROWN	43	BROWN	0
313004740	2	0	Complete v4.0 Verification Proc.	19Apr96	22Apr96	30Oct95	40Oct95	-134		DMPF	0		0
313004745	10	2	Perform ver 4.0 Self Assessment	23Apr96	7May96	50Oct95	18Oct95	-134		RANDALL	0		0
313004799	1	0	Complete PCCS version 4.0	7May96	7May96	18Oct95	18Oct95	-134	3Feb96		0		0

Primary Task.. RAD OPS
Subtask..... PCCS 4.1
Organization.. PMC

313004800	610	0	PCCS version 4.1	25Mar94	27Aug96	12Oct95	8Feb96	-134			0		0
313004805	25	0	Gather and Measure FA 20 Data	25Mar94	29Apr94	12Oct95	15Nov95	376	10Mar96	DMPF	0		0
313004810	20	5	Analyze Initial FA 20 Informa	8May96	5Jun96	19Oct95	15Nov95	-135		BROWN	0		0
313004815	5	4	Update v4.1 Covariance Matrices	6Jun96	12Jun96	16Nov95	22Nov95	-135		REEVE	0		0
313004820	10	4	Det. Sampling Repts. per v4.1	13Jun96	26Jun96	18Jan96	31Jan96	-98		BROWN	0		0
313004825	22	11	Update v4.1 and Documentation	13Jun96	12Jul96	23Nov95	22Dec95	-135		BROWN	0		0
313004830	5	0	Update LIMS per v4.1 Repts.	27Jun96	3Jul96	1Feb96	7Feb96	-98		DMPF	0		0
313004835	30	15	Complete PCCS DMPF Installation	15Jul96	23Aug96	27Dec95	7Feb96	-132		BROWN	0		0

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Primary Task.. RAD OPS									
Subtask..... PCCS 4.1									
Organization.. PMC									
13004899	1	0	Complete PCCS version 4.1	27Aug96	27Aug96	8Feb96	8Feb96 -134	0	0
Primary Task.. RAD OPS									
Subtask..... PCCS4.0									
Organization.. PMC									
13004720	5	4	Det. Sampling Reqts. per v4.0	3Jan95	9Jan95	8Sep95	14Sep95 165	BROWN	164 BROWN 0
Primary Task.. RAD OPS									
Subtask..... PROCES VAR									
Organization.. GTG									
14010200	255	0	Process Variability Study Ph.III	7Jan94	13Jan95	7Jan94	15Nov95 204	HA	0 0 x
14010210	72	40	Det. Process Variability Phase 2	15Dec94	12Jan95	20Oct95	14Nov95 204	HA	182 HA 76 x
14010299	1	0	Compl. Process Variability Study	13Jan95	13Jan95	15Nov95	15Nov95 204 15Nov95	HA	0 0 x
Primary Task.. RAD OPS									
Subtask..... QR GLASS									
Organization.. GTG									
14008300	827	0	Char. QR Canister Glass Samples	16Sep93	30Dec96	16Sep93	15Nov95 -274	ANDREWS	0 0 x
14008310	150	20	Prepare to Char. Glass Samples	25Mar94	29Apr94	25Mar94	22Apr94 -4	ANDREWS	0 87 x
14008320	250	125	Char. FA 13, WQR Can Glass Sample	14Jun94	8Nov95	27Apr94	26Apr95 -130	ANDREWS	30 ANDREWS 0 x
14008321	250	63	Char. FA 13, WQR Can Glass Sample	1Jun94	5Jul95	25Apr94	24Apr95 -48	CICERO	24 CICERO 0 x
14008322	50	25	Char. WP 17 Canistr Glass Sample	9Nov95	22Jan96	27Apr95	7Jul95 -132	ANDREWS	0 0 x
14008323	50	13	Char. WP 17 Canistr Glass Sample	9Nov95	22Jan96	27Apr95	7Jul95 -132	ANDREWS	0 0 x
14008325	280	140	Evaluate QR Can Glass Sampl Data	9Oct95	13Nov96	23Aug94	30Oct95 -271	HARDY	247 HARDY 0 x
14008330	30	20	Document Glass Samples Char.	14Nov96	27Dec96	40Oct95	14Nov95 -272	ANDREWS	0 0 x
14008399	1	0	Compl. QR Can. Glass Sample Char.	30Dec96	30Dec96	15Nov95	15Nov95 -274 15Nov95	ANDREWS	0 0 x
Primary Task.. RAD OPS									
Subtask..... SIM. PHA									
Organization.. PTD									
12003450	536	0	PHA Simulant, Sldge-only & LW S/U	8Feb93	29Mar95	8Feb93	14Jul95 71	SHOOK	0 0
12003480	60	15	Def. PHA Sim. w/Min. H2O Content	7Jul94	25Oct94	11Apr95	29Jun95 164	SHOOK	70 SHOOK 18
12003484	10	5	Issue PHA Sim. w/Min. H2O Content	17Nov94	2Dec94	30Jun95	13Jul95 148	SHOOK	16 SHOOK 0
12003488	30	5	Def. LW Feed Sim. for LW Run In	6Oct94	30Nov94	25May95	6Jul95 145	1Aug94 HAREK	47 HAREK 0
12003492	5	2	Issue LW Feed Sim. to DMPF	22Mar95	28Mar95	7Jul95	13Jul95 71	HAREK	76 HAREK 0
12003499	1	0	Compl. PHA Sim, Sldg-only & LW S/U	29Mar95	29Mar95	14Jul95	14Jul95 71 15Jul95	HAREK	0 0

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Primary Task.. RAD OPS										
Subtask..... SMPLE CHAR										
Organization.. GTG										
14008200 251	0	HLC Upgrade for Sample Character	13Jan94	13Jan95	13Jan94	26Apr95	68		0	0 x
14008210 120	0	Resolve Waste Compliance Issues	25Mar94	6Jul94	8Jul94	14Oct94	66	HLC	0	42 x
14008220 130	0	Upgrade HLC for Sample Character	7Jul94	12Jan95	17Oct94	25Apr95	68	BEAM	0	0 x
14008299 1	0	Compl. Upgrade Sample Character	13Jan95	13Jan95	26Apr95	26Apr95	68	10May95	0	0 x
Primary Task.. RAD OPS										
Subtask..... SOLID CONC										
Organization.. PTD										
12003145 289	0	Rheology Studies (FA 20, etc.)	25Mar94	22May95	3May95	13Oct95	96		0	0
12003146 35	1	Obtain FA 20 Sludge Feed Simlnt	25Mar94	13May94	3May95	21Apr95	269	BIBLERN	0	0
12003148 30	5	Irradiate FA 20 Sludge Feed Sim.	16May94	27Jun94	22Jun95	2Aug95	267	BIBLERN	0	0
12003150 15	5	Prepare FA20 Mitr Feed (1/200 S)	19Aug94	1Sep94	3Aug95	23Aug95	232	BAICH	36	BAICH
12003154 15	5	Def. Solids Operat'g Range (FA20)	29Mar95	20Apr95	24Aug95	14Oct95	98	MAREK	137	MAREK
12003158 20	5	Document FA 20 Rheology Results	21Apr95	19May95	15Sep95	12Oct95	97	BIBLERN	0	0
12003199 1	0	Complete Rheology Studies (FA20)	22May95	22May95	13Oct95	13Oct95	96	13Oct95	0	0
Primary Task.. RAD OPS										
Subtask..... SPC CLEAN										
Organization.. PTD										
12001140 331	0	SPC Vessel Cleaning Techniques	25Mar94	20Jul95	5Apr94	14Jul95	-4		0	0
12001150 160	10	Demo. Clean'g Tech. on Irrad. Dep.	25Mar94	10Nov94	5Apr94	18Nov94	5	MAREK	0	0
12001155 120	5	SRS Char. Soln Composn (Irrad.)	11Nov94	9May95	21Nov94	17May95	5	EISENH	0	0
12001160 0	0	Comp/Doc. HLC Validation Tests	11Nov94	11Nov94	18May95	18May95	125	FERRARA	0	0
12001175 40	10	Doc. Cleaning Methods/Disposal	10May95	19Jul95	18May95	13Jul95	-4	MAREK	0	0
12001199 1	0	Compl. SPC Cleaning Techniques	20Jul95	20Jul95	14Jul95	14Jul95	-4	15Jul95	0	0
Primary Task.. RAD OPS										
Subtask..... TECH BASES										
Organization.. PTD										
12004100 394	0	Melter Feed Prep Tech Bases	25Mar94	18Oct95	22Feb94	15Sep95	-22		0	0
12004110 328	33	Issue Draft of MF Tech Bases	25Mar94	17Jul95	22Feb94	14Jun95	-22	HSU	0	0
12004120 35	6	Review/Resolve Comments	18Jul95	5Sep95	15Jun95	2Aug95	-22	HSU	0	0
12004130 30	5	Issue Final MF Tech Bases	6Sep95	17Oct95	3Aug95	14Sep95	-22	HSU	0	0
12004199 1	0	Complete MFP Tech Bases	18Oct95	18Oct95	15Sep95	15Sep95	-22	15Sep95	0	0
Primary Task.. RAD OPS										
Subtask..... TK 13 PHP										
Organization.. GTG										
14006400 191	0	Tank 13 PHP Analysis	25Mar94	29Dec94	25Mar94	29Dec94	0		0	0
14006410 170	51	Tank 13 PHP Analysis-HLC Work	25Mar94	28Nov94	25Mar94	28Nov94	0	FERRARA	0	0
14006420 20	5	Document Results	25Nov94	28Dec94	29Nov94	28Dec94	0	FERRARA	0	0
14006499 1	0	Complete Tank 13 PHP Analysis	29Dec94	29Dec94	29Dec94	29Dec94	0		0	0

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Primary Task.. SAR									
Subtask..... CRITICLTY									
Organization.. GTG									
314007100 226 0 Assessment of DMPF Criticality	24Jan94	15Dec94	24Jan94	30Sep94	-50			0	0
314007110 15 5 Review/Approve NCSASR (Rev. 2)	25Mar94	15Apr94	26Apr94	16May94	20	16May94	HA	0	0
314007115 0 0 Revise Criticality Chapter	18Apr94	18Apr94	7Jun94	7Jun94	33		HA	0	0
314007120 50 20 Obtain LWF Information/Analyze	25Mar94	22Jun94	25Mar94	6Jun94	-10		HA	63 HA	96
314007130 45 20 Issue Task Plan for SPC Expr.	24Jun94	27Jun94	3Jun94	6Jun94	-14		HA	0	0
314007140 0 0 Perform SPC Experiments	28Jun94	28Jun94	7Jun94	7Jun94	-14		HA	0	0
314007150 80 45 Revise/Reissue/Approve Rev.3	5Jul94	14Dec94	14Dec94	29Sep94	-50		HA	3 HA	0
314007199 1 0 Complete DMPF Criticality	15Dec94	15Dec94	30Sep94	30Sep94	-50			0	0
Primary Task.. SLUDGE OPS									
Subtask..... GWSB MODEL									
Organization.. GTG									
314010100 479 0 GWSB Heat Transfer. Model	9Nov93	9Oct95	9Nov93	30Jun95	-67			0	0 x
314010110 400 320 Develop GWSB Heat Transfer Model	30Jun94	6Oct95	7Apr94	29Jun95	-66		HARDY	67 HARDY	23 x
314010199 1 0 Complete GWSB Heat Transfer Modl	9Oct95	9Oct95	30Jun95	30Jun95	-67	1Jul95		0	0 x
Primary Task.. SUPPORT									
Subtask..... CODE QA									
Organization.. GTG									
314010300 102 0 Code QA Activities	3Feb94	29Jun94	3Feb94	1Jun94	-18			0	0
314010310 90 28 Perform Code QA Activities	25Mar94	28Jun94	14Mar94	31May94	-18		HARDY	0	39
314010399 1 0 Complete Code QA Activities	29Jun94	29Jun94	1Jun94	1Jun94	-18	1Jun94		0	0
Primary Task.. SUPPORT									
Subtask..... GAMMA IRRD									
Organization.. GTG									
314010500 313 0 Gamma Irradiation Support	27Sep93	28Dec94	27Sep93	29Sep94	-60			0	0
314010510 252 38 Provide Gamma Irradiation Supprt	25Mar94	27Dec94	25Mar94	28Sep94	-60		BEAM	0	0
314010599 1 0 Compl. Gamma Irradiation Support	28Dec94	28Dec94	29Sep94	29Sep94	-60			0	0
Primary Task.. SUPPORT									
Subtask..... HLC UPGRAD									
Organization.. GTG									
314009100 253 0 Upgrades to HLC Support Activity	27Sep93	29Sep94	27Sep93	30Sep94	0			0	0
314009110 252 38 HLC Upgrade Support	25Mar94	28Sep94	28Mar94	29Sep94	0		FERRARA	0	49
314009199 1 0 Complete HLC Upgrade Support	29Sep94	29Sep94	30Sep94	30Sep94	0	30Sep94		0	0

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Primary Task.. SUPPORT										
Subtask..... HOLLEDGE										
Organization.. PMC										
313004200 470 0 Hollidge Support	29Apr93	15Mar95	29Apr93	2Mar95	-8			0		0
313004210 254 10 Repair Calibration Stand	29Mar94	6May94	29Jul94	78Sep94	82		WEEKS	2	WEEKS	89
313004220 90 2 Calibrate IDMS SRAT Level Probe	9May94	28Sep94	8Sep94	18Jan95	74		WEEKS	0		0
313004230 30 2 Calibrate PHEF AHT Level Probe	30Oct94	11Nov94	19Jan95	1Mar95	73		WEEKS	2	WEEKS	0
313004240 254 10 Resolve DMPF Level Meas. Probl	25Mar94	14Mar95	25Mar94	1Mar95	-8		WEEKS	0		8
313004299 1 0 Complete Hollidge Support	15Mar95	15Mar95	2Mar95	2Mar95	-8			0		0
Primary Task.. SUPPORT										
Subtask..... OTD										
Organization.. GTG										
314013500 283 0 OTD Support Activities	27Sep93	10Nov94	27Sep93	30Sep94	-27			0		0
314013510 252 126 OTD Support	9May94	9Nov94	28Mar94	27Sep94	-27		BEAM	30	BEAM	49
314013515 252 50 OTD Support	25Mar94	28Sep94	28Mar94	27Sep94	0		BIBLERN	0		49
314013530 252 126 OTD Support	21Apr94	24Oct94	28Mar94	27Sep94	-16		HARBOUR	18	HARBOUR	49
314013545 252 227 OTD Support	25Mar94	28Sep94	28Mar94	27Sep94	0		KIPLINSKI	0		49
314013555 252 76 OTD Support	25Mar94	28Sep94	28Mar94	27Sep94	0		PLDINEC	0		49
314013560 252 189 OTD Support	25Mar94	28Sep94	28Mar94	27Sep94	0		RAMSEY	0		49
314013599 1 0 Complete OTD Support Activities	10Nov94	10Nov94	30Sep94	30Sep94	-27			0		0
Primary Task.. SUPPORT										
Subtask..... TASK TEAM										
Organization.. PMC										
313012100 339 0 Misc. Task Team Activities	24Jun93	31Oct94	24Jun93	17Oct94	-9			0		0
313012130 180 10 FS SRAT/SHE PHR Response	25Mar94	28Oct94	11Mar94	30Sep94	-18	30Sep94	GILL	0		22
313012199 1 0 Compl. Misc. Task Team Act.	31Oct94	31Oct94	17Oct94	17Oct94	-9			0		0
Primary Task.. SUPPORT										
Subtask..... TASK TEAMS										
Organization.. GTG										
314011100 275 0 Misc. Task Team Activities	9Dec93	17Jan95	9Dec93	28Sep94	-74			0		0
314011110 200 35 Mixing Task Team	25Mar94	16Jan95	25Mar94	27Sep94	-74		HARDY	0		34
314011199 1 0 Compl. Misc. Task Team Activity	17Jan95	17Jan95	28Sep94	28Sep94	-74			0		0
Primary Task.. SUPPORT										
Subtask..... TASK TEAMS										
Organization.. PTD										
312012100 268 0 Misc. Task Team Activities	3Sep93	29Sep94	3Sep93	29Sep94	0			0		25
312012120 120 24 HLW Integrated Tech. Baseline	25Mar94	4May94	19Aug94	28Sep94	98	30Sep94	JACOBS	0		77
312012130 140 7 Ion Exchange Task Team	25Mar94	26May94	28Jul94	28Sep94	83	30Sep94	JACOBS	0		69
312012140 252 38 DMPF PR Lead Responsibility	25Mar94	28Sep94	25Mar94	28Sep94	0	30Sep94	JACOBS	0		49
312012150 252 25 American Chem. Society Chairmen	25Mar94	28Sep94	25Mar94	28Sep94	0	30Sep94	BAHNOCHIE	0		49
312012160 252 25 LWF Design Review Team	25Mar94	28Sep94	25Mar94	28Sep94	0		NASH	0		49

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D Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date		Del. Resource	Com M
Primary Task.. SUPPORT									
Subtask..... TASK TEAMS									
Organization.. PTD									
112012199 1 0 Compl. Misc. Task Team Activity	29Sep94	29Sep94	29Sep94	29Sep94	0			0	0
Primary Task.. SUPPORT									
Subtask..... XS MATL									
Organization.. PMC									
113001800 158 0 Waste Mgt. Excess Mat'l Activity	27Oct93	15Jun94	27Oct93	5May94	-27			0	0
113001810 120 8 Clean Out SFT (Tank 675)	25Mar94	14Jun94	25Mar94	4May94	-27	1Aug94	GILL	0	77
113001811 106 53 Clean Out SFT (Tank 675)	25Mar94	3May94	28Mar94	4May94	0	1Aug94	EES	0	75
113001820 120 8 Clean Out F Tank (Tank 671)	25Mar94	14Jun94	25Mar94	4May94	-27		GILL	0	77
113001821 128 75 Clean Out F Tank (Tank 671)	25Mar94	2May94	28Mar94	4May94	0		EES	0	79
113001899 1 0 Complete Excess Mat'l Activity	15Jun94	5Jun94	5May94	4May94	-27			0	0
Primary Task.. WQ REP									
Subtask..... VOL. 2									
Organization.. GTG									
114007400 426 0 Volume 2 Activities	14Jun94	21Feb96	27Apr94	21Feb96	0			0	0 x
114007410 335 1 Incorp. S/U Test Report Results	14Jun94	12Oct95	27Apr94	25Aug95	77	25Aug95	PLODINEC	0	0 x
114007420 12 1 Incorp. Not Run Data in Addendum	5Feb96	20Feb96	5Feb96	20Feb96	0	3Feb96	PLODINEC	0	0 x
114007499 1 0 Complete Volume 2 Activities	21Feb96	21Feb96	21Feb96	21Feb96	0			0	0 x
Primary Task.. WQ REP									
Subtask..... VOL. 4									
Organization.. GTG									
114007300 413 0 Volume 4 Activities	5Jul94	21Feb96	6Dec95	21Feb96	0			0	0 x
114007310 40 4 Gen. First Draft (Vol.4 pt.2)	5Jul94	29Aug94	6Dec95	2Feb96	348		PLODINEC	0	0 x
114007320 12 1 Incorp. Not Run Data in Addendum	5Feb96	20Feb96	5Feb96	20Feb96	0	3Feb96	PLODINEC	0	0 x
114007399 1 0 Complete Volume 4 Activities	21Feb96	21Feb96	21Feb96	21Feb96	0			0	0 x
Primary Task.. WQ REP									
Subtask..... VOL. 5									
Organization.. GTG									
114007500 348 0 Volume 5 Activities	5Oct94	21Feb96	27Apr94	21Feb96	0			0	0 x
114007510 335 1 Incorp. S/U Test Report Results	5Oct94	2Feb96	27Apr94	25Aug95	-107	25Aug95	PLODINEC	0	0 x
114007520 12 1 Incorp. Not Run Data in Addendum	5Feb96	20Feb96	5Feb96	20Feb96	0	3Feb96	PLODINEC	0	0 x
114007599 1 0 Complete Volume 5 Activities	21Feb96	21Feb96	21Feb96	21Feb96	0			0	0 x
Primary Task.. WQ REP									
Subtask..... VOL. 7									
Organization.. GTG									
114007200 171 0 Volume 7 Activities	28Sep93	3Jun94	28Sep93	26Apr95	218			0	0 x

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ID Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date	Resource	Del.	Resource	Com M
Primary Task.. WQ REP										
Subtask..... VOL. 7										
Organization.. GTG										
314007220 48 5 Incorp. S/U Test Report Results	25Mar94	2Jun94	15Feb95	25Apr95	218		PLODINEC	0		0 x
314007299 1 0 Complete Volume 7 Activities	3Jun94	3Jun94	26Apr95	26Apr95	218	26Apr95		0		0 x
Primary Task.. WQ REP										
Subtask..... VOL. 9										
Organization.. GTG										
314007600 13 0 Volume 9 Activities	1Sep95	1Sep95	1Sep95	19Sep95	0			0		0 x
314007610 12 1 Incorp. S/U Test Report Results	1Sep95	1Sep95	1Sep95	48Sep95	0	1Sep95	PLODINEC	0		0 x
314007699 1 0 Complete Volume 9 Activities	19Sep95	19Sep95	19Sep95	19Sep95	0			0		0 x
Primary Task.. WQR										
Subtask..... ANALYT PRS										
Organization.. PTD										
312010160 118 0 Prep. of Analyt. Process Reqts	22Apr94	10Oct94	15Jun94	12Sep94	-18			0		25 x
312010161 25 0 Review/Approve Revad PR Prel.Rep	22Apr94	26May94	15Jun94	21Jul94	37	22Apr94	JPRRG	0		0 x
312010163 36 0 Review/Approve Process Reqts.	19Aug94	10Oct94	22Jul94	12Sep94	-18	19Aug94	JPRRG	0		0 x
312010169 1 0 Complete Process Requirements	10Oct94	10Oct94	12Sep94	12Sep94	-18	12Sep94		0		0 x
Primary Task.. WQR										
Subtask..... DIPHENYL										
Organization.. PTD										
312006500 319 0 Ppt. Hydrolysis Diphenylmercury	30Nov93	9Mar95	30Nov93	27Jan95	-27			0		0
312006530 30 9 Document Results	31May94	13Jul94	13Dec94	26Jan95	131		BANNOCHIE	43	BANNOCHIE	0
312006550 75 40 Run/Analyze OE Test Results	25Jul94	25Jan95	27Oct94	12Dec94	-29		BANNOCHIE	83	BANNOCHIE	59
312006560 30 9 Document OE Results	26Jan95	8Mar95	13Dec94	26Jan95	-27		BANNOCHIE	0		0
312006599 1 0 Complete PH Diphenylmercury	9Mar95	9Mar95	27Jan95	27Jan95	-27	28Jan95		0		0
Primary Task.. WQR										
Subtask..... EDUCATOR										
Organization.. PMC										
313004300 177 0 Sample Overflow Mod. Support	21Sep93	6Jun94	21Sep93	22Apr94	-30			0		0 x
313004320 10 0 Test/Analyze New Design (TNX)	25Mar94	30Mar94	4Apr94	7Apr94	5		GILL	0		60 x
313004321 10 0 Test/Analyze New Design (TNX)	25Mar94	30Mar94	4Apr94	7Apr94	5		HANSEN	0		60 x
313004340 10 5 Perform Statistical Analysis	31Mar94	14Apr94	8Apr94	21Apr94	4		EDWARDS	0		5
313004350 20 4 Issue Tech. Data Report	5Apr94	3Jun94	25Mar94	21Apr94	-28		GILL	6	GILL	5
313004351 20 4 Issue Tech. Data Report	25Mar94	21Apr94	25Mar94	21Apr94	0		HANSEN	0		5
313004399 1 0 Complete Sample Overflow Mod.	6Jun94	6Jun94	22Apr94	22Apr94	-30			0		0

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D Number Durn M/D Description	Start	Comp	Start	Comp	Flt.	Reqd		Del.	Resource	Com M
Primary Task.. WQR										
Subtask..... GWSB PRS										
Organization.. PTD										
112010130 90 0 Prep. of GWSB Process Rqts	1Mar94	8Jul94	1Mar94	8Jul94	0		JPRRG	0		0 x
112010131 20 0 Review/Approve Preliminary Rep.	25Mar94	28Mar94	23May94	24May94	38	0 25May94	JPRRG	0		90 x
112010133 30 0 Review/Approve Process Rqts.	25May94	8Jul94	25May94	8Jul94	0	8Jul94		0		0 x
112010139 1 0 Complete Process Requirements	8Jul94	8Jul94	8Jul94	8Jul94	0			0		0 x
Primary Task.. WQR										
Subtask..... HGP&S PRS										
Organization.. PTD										
112010140 174 0 Prep. of HgP&S Process Rqts	26Aug93	6May94	26Aug93	15Apr94	-14		JPRRG	0		40 x
112010143 30 0 Review/Approve Process Rqts.	25Mar94	4May94	4Mar94	15Apr94	-14			0		0 x
112010149 1 0 Complete Process Requirements	6May94	6May94	15Apr94	15Apr94	-14	15Apr94		0		0 x
Primary Task.. WQR										
Subtask..... HNO3 METHD										
Organization.. GTG										
114006100 184 0 Nitric Acid Method	30Sep93	24Jun94	30Sep93	12Dec94	114		FERRARA	0		0
114006101 63 6 Nitric Acid Method HLC Work	25Mar94	25May94	12Sep94	28Nov94	112		FERRARA	0		32
114006103 20 5 Document Results	26May94	23Jun94	10Nov94	9Dec94	112			0		0
114006109 1 0 Complete Nitric Acid Method	24Jun94	24Jun94	12Dec94	12Dec94	114	12Dec94		0		0
Primary Task.. WQR										
Subtask..... HVAC PRS										
Organization.. PTD										
112010180 108 0 Preparation of HVAC Process Reqt	25Mar94	29Aug94	10Jun94	15Nov94	52		JPRRG	0		0 x
112010181 30 0 Review/Approve Preliminary Reprt	25Mar94	6May94	10Jun94	25Jul94	53		JPRRG	0		0 x
112010185 30 0 Review/Approve Process Rqts.	18Jul94	26Aug94	4Oct94	16Nov94	53		JPRRG	0		0 x
112010189 1 0 Complete Process Requirements	29Aug94	29Aug94	15Nov94	15Nov94	52	15Nov94		0		0 x
Primary Task.. WQR										
Subtask..... LPPP PRS										
Organization.. PTD										
112010120 79 0 Prep. of LPPP Process Rqts	25Apr94	16Aug94	2May94	20Jul94	-18		JPRRG	0		0 x
112010121 25 0 Review/Approve Revsd PR Prel.Rep	25Apr94	27May94	2May94	6Jun94	6	25Apr94	JPRRG	0		0 x
112010123 30 0 Review/Approve Revised PRs	6Jul94	16Aug94	7Jun94	20Jul94	-18	6Jul94	JPRRG	0		0 x
112010129 1 0 Complete Process Requirements	16Aug94	16Aug94	20Jul94	20Jul94	-18	20Jul94		0		0 x
Primary Task.. WQR										
Subtask..... MATCON PRS										
Organization.. PTD										
112010170 195 0 Prep. of Mat.Con. Process Rqts	27Aug93	8Jun94	27Aug93	10Jun94	1			0		0 x

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ID Number	Durn	M/D Description	Start	Comp	Start	Comp	Flt.	Reqd Date	Resource	Del.	Resource	Com M
Primary Task.. WQR												
Subtask..... MATCON PRS												
Organization.. PTD												
512010177	50	0 Draft & Revise Revised PRs	25Mar94	19Apr94	29Mar94	21Apr94	1		IYER	0		66 x
512010178	35	0 Review/Approve Process Reqts.	20Apr94	8Jun94	22Apr94	10Jun94	1	10Jun94	JPRRG	0		0 x
512010179	1	0 Complete Process Requirements	8Jun94	8Jun94	10Jun94	10Jun94	1	10Jun94		0		0 x
Primary Task.. WQR												
Subtask..... MFP PRS												
Organization.. PTD												
512010110	205	0 Prep. of MFP Process Reqts	24Aug93	17Jun94	26Aug93	17Jun94	0			0		33 x
512010113	41	0 Review/Approve Revsd PR Prel.Rep	25Mar94	11Mar94	22Apr94	25Apr94	18		JPRRG	0		90 x
512010115	54	0 Draft & Revise Revised PRs	25Mar94	20Apr94	25Mar94	25Apr94	0		MUTSON	0		57 x
512010117	35	0 Review/Approve Revised PRs	29Apr94	17Jun94	29Apr94	17Jun94	0	17Jun94	JPRRG	0		0 x
512010119	1	0 Complete Process Requirements	17Jun94	17Jun94	17Jun94	17Jun94	0	17Jun94		0		0 x
Primary Task.. WQR												
Subtask..... NITROARMTIC												
Organization.. PTD												
512003900	241	0 Nitroaromatic Content of Recycle	1Mar94	14Feb95	1Mar94	14Dec94	-41		NSU	0	NSU	0
512003910	90	9 Perf. Lab-Scale Scoping Studies	4Apr94	16Sep94	31Aug94	13Dec94	38		BAICH	0		20
512003915	30	5 Design, Install NH3 Scrub.--1/200	25Mar94	6Jun94	5Aug94	16Sep94	68		BAICH	0		0
512003920	30	5 1/200 SRAT/SME Cycle--Low NO2	7Jun94	1Aug94	19Sep94	28Oct94	58		BAICH	0		0
512003925	30	5 1/200 SRAT/SME Cycle--High NO2	2Aug94	13Sep94	31Oct94	13Dec94	60		NSU	78	NSU	0
512003930	30	5 Nitroar. Fate during RCT Treatment	19Jul94	29Aug94	31Oct94	13Dec94	70		NSU	30	NSU	10
512003935	180	10 Analy. Lab-Scale, 1/200, IDMS Sampl	9May94	13Feb95	22Apr94	13Dec94	-41	14Dec94	NSU	0		0
512003940	0	0 Document Results	14Feb95	14Feb95	14Dec94	14Dec94	-41	14Dec94		0		0
512003999	1	0 Compl. Nitroaromatic Analyses	14Feb95	14Feb95	14Dec94	14Dec94	-41	14Dec94		0		0
Primary Task.. WQR												
Subtask..... PCCS SOLUB												
Organization.. GTG												
514009200	240	0 Salt Solubility Studies (PCCS)	9Mar94	21Feb95	9Mar94	2Sep94	-114		ANDREWS	139	ANDREWS	0 x
514009220	60	36 Perform Batch Crucible Runs	13Oct94	21Dec94	28Apr94	7Jul94	-111		ADS	0		28 x
514009230	10	0 ADS Analyze Samples	22Dec94	9Jan95	8Jul94	21Jul94	-114		ANDREWS	0		0 x
514009240	30	7 Evaluate/Document Results	10Jan95	20Feb95	22Jul94	18Sep94	-114		ANDREWS	0		0 x
514009250	0	0 Determine Path Forward	21Feb95	21Feb95	2Sep94	2Sep94	-114		ANDREWS	0		0 x
514009299	1	0 Complete Salt Solubility (PCCS)	21Feb95	21Feb95	2Sep94	2Sep94	-114	2Sep94		0		0 x
Primary Task.. WQR												
Subtask..... PCCS 3.0												
Organization.. PMC												
513004500	661	0 PCCS v3.0	8Sep93	25Apr96	8Sep93	14Nov94	-352		BROWN	0		0 x
513004510	10	3 Issue TTR for v3.0	29Sep94	12Oct94	2Aug94	15Aug94	-38	15Aug94	BROWN	129	BROWN	0 x
513004520	10	3 Assess Impact of Inhomogeneity	13Oct94	26Oct94	10May94	23May94	-104		BROWN	0		0 x

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Primary Task.. WQR
Subtask..... PCCS 3.0
Organization.. PMC

313004530	120	30	Update Liquidus/Viscosity Corr.	25Mar94	11Oct94	28Mar94	16Sep94	-16	JANTZEN	0	0 x
313004535	77	19	Update Durability (PCT) Correlatn	21Apr94	5May94	18Aug94	15Sep94	79	JANTZEN	18 JANTZEN	87 x
313004540	0	0	Update Salt Solubility Limits	25Mar94	25Mar94	25Sep94	25Sep94	107	ANDREWS	0	0 x
313004545	20	0	Gather/Measure Melter Samples	25Mar94	22Apr94	22Apr94	19May94	18	19May94 DMPF	0	0 x
313004550	20	5	Analyze CCR, Avail. Melter Data	22Sep94	19Oct94	29Jul94	25Aug94	-36	BROWN	104 BROWN	0 x
313004555	5	4	Update v3.0 Covariance Matrices	20Oct94	26Oct94	26Aug94	16Sep94	-36	REEVE	0	0 x
313004560	10	1	Det. Sampling Reqts per v3.0	27Oct94	9Nov94	23Oct94	4Nov94	-3	BROWN	0	0 x
313004565	5	0	Update LIMS per v3.0 Reqts.	10Nov94	18Nov94	7Nov94	11Nov94	-3	DMPF	0	0 x
313004570	150	70	Update v3.0 and Documentation	9Aug95	18Mar96	28Feb94	30Sep94	-352	BROWN	325 BROWN	0 x
313004575	20	8	Issue v3.0 Test Case and Results	12Mar94	10Apr94	30Oct94	28Oct94	-353	BROWN	0	0 x
313004580	10	0	Complete v3.0 Verification Proc.	11Apr95	24Apr95	31Oct94	11Nov94	-353	DMPF	0	0 x
313004585	10	2	Perform ver 3.0 Self Assessment	11Apr95	24Apr95	31Oct94	11Nov94	-353	RANDALL	0	0 x
313004590	40	12	Issue Validation and Task Plans	20Oct94	16Oct94	19Sep94	11Nov94	-23	BROWN	144 BROWN	0 x
313004595	120	12	Revise v3.0 Algorithm Descriptn	15Jul94	18Aug94	14Oct94	11Nov94	80	BROWN	76 BROWN	83 x
313004599	1	0	Complete PCCS version 3.0	25Apr96	25Apr96	14Nov94	14Nov94	-352	14Nov94	0	0 x

Primary Task.. WQR
Subtask..... SOLID CONC
Organization.. PTD

312003116	176	0	Rheology Studies (WP 15)	25Mar94	6Dec94	22Aug94	22Dec94	10	MAREK	0	0
312003117	35	1	Obtain WP 15 Sludge Feed Simulnt	25Mar94	17May94	22Aug94	10Oct94	97	BAICH	26 BAICH	0
312003118	15	5	Prepare WP15 Mltr Feed (1/200 S)	24Jun94	28Jul94	11Oct94	31Oct94	63	MAREK	54 MAREK	0
312003119	15	5	Def.Solids Conc.Opr.Range (WP15)	14Oct94	3Nov94	1Nov94	21Nov94	12	MAREK	0	0
312003120	20	5	Document WP 15 Rheology Results	4Nov94	5Dec94	22Nov94	21Dec94	10	25Dec94	0	0
312003121	1	0	Complete WP 15 Rheology	6Dec94	6Dec94	22Dec94	22Dec94	10	0	0	0
312003122	209	0	Rheology Studies (WP 16)	25Mar94	25Jan95	30Sep94	9Feb95	10	MAREK	0	0
312003123	35	1	Obtain WP 16 Sludge Feed Simulnt	25Mar94	17May94	30Sep94	17Nov94	122	BAICH	49 BAICH	0
312003124	15	5	Prepare WP16 Mltr Feed (1/200 S)	29Jul94	18Aug94	18Nov94	12Dec94	77	MAREK	72 MAREK	0
312003125	15	5	Def.Solids Operat'g Range (WP16)	2Dec94	22Dec94	13Dec94	5Jan95	9	MAREK	0	0
312003126	20	5	Document WP 16 Rheology Results	27Dec94	24Jan95	12Jan95	8Feb95	10	MAREK	0	0
312003129	1	0	Complete WP 16 Rheology	25Jan95	25Jan95	9Feb95	9Feb95	10	9Feb95	0	0

Primary Task.. WQR
Subtask..... SPC PRS
Organization.. PTD

312010100	225	0	Prep. of SPC Process Reqts	3Sep93	29Jul94	3Sep93	2Aug94	2	JPRRG	0	0 x
312010103	20	0	Review/Approve Revsd PR Prel.Rep	25Mar94	5Apr94	29Mar94	7Apr94	1	LANBERT	0	0 x
312010105	50	0	Draft & Revise PRs	6Apr94	15Jun94	8Apr94	17Jun94	1	JPRRG	0	0 x
312010107	30	0	Review/Approve Revised PRs	16Jun94	29Jul94	20Jun94	2Aug94	2	2Aug94	0	0 x
312010109	1	0	Complete Process Requirements	29Jul94	29Jul94	2Aug94	2Aug94	2	2Aug94	0	0 x

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