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Annotated Bibliography of
Safety-Related Occurrences in
BOILING-WATER NUCLEAR POWER PLANTS
as Reported in 1975

R. L. Scott

R. B. Gallaher

PREPARED FOR THE U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REGULATORY RESEARCH
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J. K. Buchanan, Assistant Director
Nuclear Safety Information Center

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**ANNOTATED BIBLIOGRAPHY OF SAFETY-RELATED OCCURRENCES IN
BOILING-WATER NUCLEAR POWER PLANTS
AS REPORTED IN 1975**

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FOREWORD

The Nuclear Safety Information Center (NSIC), which was established in March 1963 at Oak Ridge National Laboratory, is principally supported by the U.S. Nuclear Regulatory Commission's Office of Nuclear Regulatory Research. Support is also provided by the Division of Reactor Development and Demonstration of the U.S. Energy Research and Development Administration. NSIC is a focal point for the collection, storage, evaluation, and dissemination of safety information to aid those concerned with the analysis, design, and operation of nuclear facilities. A system of key words is used to index the information cataloged by the Center. The title, author, installation, abstract, and key words for each document reviewed are recorded at the central computing facility in Oak Ridge. The references are cataloged according to the following categories:

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PUBLICATION DATE
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RABIN SA • ATRA, BG • BADER MD • BUSBORN HJ • HAZEL, VE
EXAMINATION AND EVALUATION OF RUPTURE IN EV-SR SUPERHEAT FUEL ROD WITH
0.012-IN.-THICK INCOLOY-800 CLADDING
GENERAL ELECTRIC CO., SABBIVALE, CALIF. ADVANCED PRODUCTS OPERATION
GEAP-5416 • 72 PAGES, FIGURES, TABLES, REFERENCES, JANUARY 1968

PREMATURE FAILURES WERE OBSERVED IN ONE 0.008-IN.-WALL ROD AND IN
ONE 0.012-IN.-WALL ROD OF THE MARK-III EXPERIMENTAL FUEL. CLADDING
IS INCOLOY-800. FAILURES WERE IN REGION OF MAXIMUM POWER IN PEAK-
POWER ROD. MOST REASONABLE EXPLANATION IS LOW-CYCLE FATIGUE,
ACCELERATED BY HIGHER-THAN-DESIGN CLADDING TEMPERATURES. NO SIGNS
OF RAPID CORROSION, SUCH AS HAVE BEEN ASSOCIATED WITH TYPE-304 SS,
WERE FOUND.

ABSTRACT
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KEYWORD INDEX WITH THE ACCESSION
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PREVIOUS REPORTS IN THIS SERIES

1. W. R. Casto and E. N. Cramer, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1967 and 1968*, ORNL/NSIC-69 (July 1970) (available from NTIS for \$3.00).
2. R. L. Scott and W. R. Casto, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1969*, ORNL/NSIC-87 (August 1971) (available from NTIS for \$3.00).
3. R. L. Scott, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1970*, ORNL/NSIC-91 (December 1971) (available from NTIS for \$10.00).
4. R. L. Scott and K. B. Gallaher, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1971*, ORNL/NSIC-106 (September 1972) (available from NTIS for \$12.00).
5. R. L. Scott and R. B. Gallaher, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1972*, ORNL/NSIC-109 (December 1973) (available from NTIS for \$15.00).
6. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Occurrences in Nuclear Power Plants as Reported in 1973*, ORNL/NSIC-114 (November 1974) (available from NTIS for \$15.00).
7. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Occurrences in Nuclear Power Plants as Reported in 1974*, ORNL/NSIC-122 (May 1975) (available from NTIS for \$15.00).

ANNOTATED BIBLIOGRAPHY OF SAFETY-RELATED OCCURRENCES IN
BOILING-WATER NUCLEAR POWER PLANTS
AS REPORTED IN 1975

R. L. Scott R. B. Gallaher

ABSTRACT

This bibliography contains 100-word abstracts of reports to the U.S. Nuclear Regulatory Commission concerning operational events that occurred at boiling-water reactor nuclear power plants in 1975. The report includes 1169 abstracts, arranged alphabetically by reactor name and then chronologically for each reactor, that describe incidents, failures, and design or construction deficiencies that were experienced at the facilities. Key-word and permitted-title indexes are provided to facilitate location of the subjects of interest, and tables that summarize the information contained in the bibliography are provided. The information listed in the tables includes instrument failures, equipment failures, system failures, causes of failures, deficiencies noted, and the time of occurrence (i.e., during refueling, operation, testing, or construction). Seven of the unique events that occurred during the year are reviewed in detail.

INTRODUCTION

This report (along with ORNL/NUREG/NSIC-127) represents the eighth of a series issued annually by the Nuclear Safety Information Center (NSIC), each of which presents abstracts of safety-related occurrences reported by light-water reactor licensees in the United States during the previous year. In particular, this report contains abstracts of 1169 occurrences reported by licensees of boiling-water reactor nuclear power plants in the United States during 1975. The seven previous reports¹⁻⁷ covered the period 1967 through 1974. In addition, four related NSIC reports⁸⁻¹¹ contain information on reactor operating experiences reported by the U.S. Nuclear Regulatory Commission (formerly AEC) for the period 1966 through 1974.

Previous reports in this series contained the occurrences for both pressurized- and boiling-water reactor facilities; however, due to the

continual growth in the number of facilities and consequently in the number of reports, it has become necessary to issue this year's occurrences in two reports. The report that contains the occurrences at pressurized-water reactor nuclear power plants is ORNL/NUREG/NSIC-127, *Annotated Bibliography of Safety-Related Occurrences in Pressurized-Water Nuclear Power Plants as Reported in 1975*.

The occurrence reports listed in this bibliography were submitted by power plant licensees to NRC in accordance with requirements. The reporting requirements for nuclear facility licensees are included in Parts 20, 40, 50, 70, and 73 of Title 10 of the *Code of Federal Regulations* and described in detail in *AEC Regulatory Guide No. 1.16*.¹² The requirements for reporting design or construction deficiencies of facilities that have construction permits are given in 10 CFR 50.55, paragraph e.¹³

The information for this report was obtained from the computer files of NSIC in the form of 100-word abstracts of reports from power reactor licensees. Technical specialists at NSIC prepared the abstracts, with appropriate key words for computer storage and retrieval. Input to the computer is a continuing process; therefore, persons desiring an updating of the information on operating experiences at nuclear power plants may obtain a literature search by contacting NSIC.

The NSIC computer also provides a bimonthly printout of the current experiences at operating plants; these are published in each issue of the *Nuclear Safety* journal. Information on the current experiences at reactors undergoing startup testing or under construction can also be obtained by contacting the NSIC.

The 100-word abstracts in this report are arranged alphabetically according to the name of the reactor and then chronologically for each reactor. In addition, tables are presented that indicate the number of times a piece of equipment, an instrument, or a system was reported as having been involved in a malfunction. Included in the tables are causes, deficiencies, and time of occurrence (i.e., during operation, testing, refueling, or construction). This summary is followed by a brief discussion of seven occurrences that were considered to be the most interesting of those reported during the year.

In addition to the abstracts describing each event, key-word and permuted-title indexes are provided for quickly determining abstracts that discuss a particular item of interest. For example, persons interested in the problems with flow sensors may find the abstracts listed under the key word "sensors, flow"; or, using the permuted-title index, they can find the abstracts listed with the word "sensor" or with the word "flow."

Before reviewing the bibliography, it may also be helpful to review the "Parts and Methods of Indexing Abstracts," which shows a typical abstract with its component parts identified (p. vii). Note the list of key words, which gives a quick indication of the contents of the abstract. The availability of the material is indicated for all abstracts except those that appear in sources such as technical journals, which are available in most technical libraries. In these cases, the name of the journal, issue, date, and page numbers are given above the abstract. Generally the material related to licensed facilities may be found in the U.S. NRC Public Document Room, 1717 H Street, Washington, D.C. 20545, and/or the material may be purchased from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22151.

SUMMARY OF OCCURRENCE DATA

The 1169 abstracts in the bibliography were reviewed and tabulations made of significant items to indicate the total number of reports concerned with those items. These tabulations indicate items that should receive more attention by reactor operators, designers, or other interested parties.

Table 1 lists the equipment, instrument, and system malfunctions. As the table indicates, the larger and more complicated systems experience the most malfunctions. As observed in past years, valves, pipes, seals, and pumps experience failures most frequently. Switches also continue as the instrument experiencing problems most frequently. Most of these troubles are attributable to set-point drift or calibration problems.

Table 1. Number of IRR problems by component and system^a

Component	Percent	Number	System	Percent	Number
Equipment					
Valves	29	294	Containment isolation	14	130
Pipes	10	99	Main cooling	10	97
Seals	7	72	Reactor protection	10	93
Pumps	7	66	Shutdown cooling	8	76
Valve operators	6	60	HPCI	7	69
Diesel generator	5	50	Core spray	6	56
Turbine	4	41	Torus	6	52
Control rod drive	3	31	Containment	5	49
Check valve	3	30	Pressure relief	4	41
Fasteners	3	29	Coolant purification	3	31
Motors	3	28	Emergency power	3	31
Shock absorbers	3	27	Auxiliary cooling	3	28
Tubing	2	20	HCIC	3	28
Pressure vessels	2	19	LPCI	3	26
Blowers	2	19	Off-gas	3	25
Condenser	2	18	Feedwater	2	21
Filters	2	17	Standby gas treatment	2	21
Containment vacuum breaker	2	17	Pneumatic	2	19
Fuel element	1	15	Cooling tower	2	18
Bearing	1	14	Condenser cooling	1	14
Storage containers	1	13	Containment penetration	1	14
Control rod	1	12	Containment spray	1	8
Heat exchanger	<1	8			
Containment air lock	<1	6			
Flange	<1	6			
Accumulators	<1	4			
Batteries	<1	4			
Hoist	<1	3			
Transformers	<1	2			
Instrumentation					
Switch	35	282			
Pressure sensor	14	124			
Level sensor	7	58			
Cables and connectors	5	42			
Radiation monitors	5	40			
Relays	5	38			
Breakers	4	35			
Flow sensor	4	30			
Solenoid	4	28			
Temperature sensor	3	25			
Electronic function units	3	23			
In-core instrument	3	20			
Recorders	2	18			
Analog meters	2	13			
Stick meters	2	12			
Solid-state device	<1	7			
Computer	<1	2			

^aHPCI = high-pressure coolant injection; HCIC = reactor core isolation cooling; LPCI = low-pressure coolant injection.

Table 2 lists the causes of malfunctions, deficiencies noted, and the time at which an event occurred. Again, as in past years, equipment failures and maintenance and design errors were the most numerous. As expected, design errors are quite numerous since the design encompasses the entire plant and also involves conceptual thinking. Instrument calibration problems and set-point drift continue to head the list of deficiencies, followed closely by piping and seal leaks. Procedural deficiencies most frequently involved deficient procedures, but failure of operators to follow procedures is included. The listing under "time of occurrence" shows that many defective items were found during surveillance testing, and thus their adverse effect on reactor operation was prevented.

Table 2. Classification of BWR problems by cause, deficiency, and time of occurrence

	Percent	Number
Cause		
Equipment failure	30	250
Maintenance error	21	182
Design error	15	125
Administrative error	13	108
Operator error	10	82
Installation error	8	64
Fabrication error	2	22
Weather	1	11
Deficiency		
Instrument calibration	24	202
Set-point drift	20	172
Leak	16	135
Procedures	9	75
Failure to test	6	52
Crud	6	50
Welds	4	36
Vibration	4	34
Lubrication	3	24
Radioactivity release	2	17
Corrosion	1	11
Fatigue	1	11
Stress	<1	6
Quality assurance	<1	6
Fire	<1	6
Erosion	<1	4
Stress corrosion	<1	3
Time of occurrence		
Testing	45	332
Operation	43	303
Refueling	10	112
Construction	2	22

REVIEW OF SELECTED OCCURRENCES

A review of the reported occurrences indicated that most were of a routine inconsequential nature; however, a few were significant or unique. Seven of those occurrences that were considered to be the most interesting are presented here to illustrate the types of experiences that occurred in 1975.

Fuel Cladding Ruptured by Rapid Flux Change

At Commonwealth Edison's Dresden 3 BWR, operation for the last two cycles had been with the peak of the neutron flux and exposure toward the top of the core. Therefore it was decided to redistribute the flux, and the resulting sequence of events led to some ruptures of fuel cladding.

The procedure for flux redistribution was started on Oct. 30, 1974, by lowering the power to 50% of full power. At 2:40 a.m. the next day, the control-rod sequence was initiated to alter the rod positions. By 5:00 a.m. the resulting load was 520 MW(e), and the power distribution in the core was satisfactory with the power peaked toward the bottom of the core. However, during this time, the xenon (poison) transient had reached its peak. When the xenon started burning out (introducing positive reactivity), the power peak increased rapidly, and by 6:24 a.m. excessive power peaking occurred in the lower region of the core. In an attempt to increase the effective volume of the core and thereby decrease the power peaking, the operator followed instructions and withdrew the control rods. This action, however, resulted in a 10% increase in the power peak, and the high off-gas radiation alarm sounded and caused the nuclear engineer to call for an immediate insertion of control rods. Even though the reactor power and peaking were reduced, the "hi-hi" off-gas radiation alarm tripped and started the 15-min isolation timer. Additional control rods were inserted, and at 7:35 a.m. the hi-hi off-gas radiation alarm cleared. An off-gas sample taken at 2:21 p.m. showed a release rate of 81,634 $\mu\text{Ci/sec}$. The estimated maximum instantaneous off-gas release rate during the transient was about 300,000 Ci/sec. For the day, October 31, the estimated average release rate was about 45,000 $\mu\text{Ci/sec}$, which is less than half of the Technical Specifications limit.

Since this occurrence, it has been necessary to operate at 50% or less of full power in order to control the release rate to desirable levels. It appears that the cladding of several fuel rods ruptured during this event owing to rapid changes in local power in areas of low fuel exposure. The cause is evidently a fuel and cladding interaction since no fuel safety limits were even approached. An isotopic analysis of the off-gas disclosed an approximate 75% "recoil" distribution which implies little or no holdup in the pellet or fuel column of fission-product gases. Therefore probably a few relatively large cladding perforations occurred during the power-peaking transient.

The nuclear engineers will be retrained in the physics of nuclear reactors. Also, a new procedure for the review and approval of control-

rod sequences for insertions and withdrawal has been placed in effect along with a new procedure for changing control-rod-sequence schedules.^{14,15}

Cracks in Primary-System Piping

On Jan. 28, 1975, Commonwealth Edison notified the NRC's Region III Office of Inspection and Enforcement that five through-wall cracks had been found in the 10-in.-diam core spray piping system at Dresden 2. In view of previous cracking problems, the Nuclear Regulatory Commission (NRC) responded on January 30 with an IE Bulletin requiring the operators of 23 licensed BWRs to complete within 20 days a prescribed inspection and test program on affected piping. The NRC subsequently announced that inspections at 21 of the 23 reactors revealed no cracks in either the primary reactor piping or backup emergency core-cooling-system piping. However, an additional through-wall crack was discovered at Dresden 2 in the core spray system. The last of the 23 plants, Dresden 1, asked for and received an extension of time for the required inspection. The pipe cracking, which is apparently limited to Dresden 2, is discussed in more detail below.¹⁶⁻¹⁸

Cracks in Core Spray System

In its January 28 report to the NRC, the licensee, Commonwealth Edison Company, reported that three cracks were identified in the A core spray loop and two in the B core spray loop. The cracks were revealed when moisture was observed seeping from them after the pipe insulation was removed in preparation for in-service inspection. The cracks ranged from 1/8 to 3/4 in. in length on the outside surface.

The three cracks in the A loop are in an approximately 9-in.-long "dutchman" insert that is welded on one end to the reactor-vessel nozzle safe end and on the other end to the core spray inlet piping. The safe end and dutchman insert are reportedly fabricated from 316 stainless steel, and the core spray piping is 304 stainless steel. Two of these cracks are longitudinal and in the heat-affected zone of the weld between the safe end and dutchman insert. The other crack is circumferential and

in the heat-affected zone of the weld between the inlet piping and dutchman insert.

The two cracks in the B loop are circumferential and on the pipe side of the heat-affected zone of the weld between the inlet piping and the dutchman insert.

The additional through-wall crack at Dresden 2 was discovered on Feb. 9, 1975, in the core spray-injection line in the heat-affected zone of the butt weld. Ultrasonic testing showed the crack to be about 1 1/2 in. long on the inside of the pipe from about 10 to 12 o'clock.

The exact cause of the failures at Dresden 2 has not been determined, but the investigation is continuing.¹⁹

Cracks in 4-in. Bypass Lines

The several cracks found in the 4-in. bypass lines around the discharge valves of the recirculating pumps all resulted in small leaks. The latest crack (Dec. 13, 1974) was in the weld at a 4- to 6-in. Weldolet. Since the crack was downstream of the bypass valve, it could not be isolated from the reactor vessel. Leaks were visible at 8 and 6 o'clock around the circumference of this pipe. Ultrasonic and radiographic testing revealed that the cracks started at the inside of the pipe and progressed to the outside surface.

Although the exact cause of these failures is still unknown, intergranular stress-corrosion cracking was indicated by the analysis of specimens taken from the lines that failed on Unit 2 in September 1974. The investigation of the problem continues.²⁰

Cable Fire at Browns Ferry Nuclear Plant

On Mar. 22, 1975, a fire started at the Browns Ferry Plant in the cable spreading room at a cable penetration through the wall between the cable spreading room and the reactor building for Unit 1. There are three BWRs at this site, which is owned and operated by the Tennessee Valley Authority. A slight differential pressure is maintained as designed across this wall around the Unit 1 reactor, with the higher pressure being on the cable-spreading-room side. The penetration seal originally present had been breached to install additional cables

required by a design modification. Site personnel were resealing the penetration after cable installation and checking the air flow through a temporary seal with a candle flame prior to installing the permanent sealing material. The temporary sealing material was highly combustible and caught fire. Efforts were made by the workers to extinguish the fire at its origin, but they apparently did not recognize that the fire, under the influence of the draft through the penetration, was spreading on the reactor-building side of the wall. The extent of the fire in the cable spreading room was limited to a few feet from the penetration; however, the presence of the fire on the other side of the wall from the point of ignition was not recognized until significant damage to cables related to the control of Units 1 and 2 had occurred.

Although control circuits for many of the systems which could be used for Unit 1 were ultimately disabled by the fire, the station operating personnel were able to institute alternative measures by which the primary system could be depressurized and adequate cooling water supplied to the reactor vessel. Unit 1 was shut down manually and cooled using remote manual relief-valve operation, a condensate booster pump, and control-rod-drive-system pumps. Unit 2 was shut down and cooled for the first hour by the reactor core isolation coolant system. After depressurization, Unit 2 was placed in the residual heat-removal shutdown cooling mode, with makeup water available from the condensate booster pump and control-rod-drive-system pump.

All reactor licensees were directed to take a variety of actions intended to minimize the possibility of the occurrence of this type event elsewhere. Further action may be required once the accident and its ramifications have been fully investigated and evaluated. Detailed information on the cause of the fire and the operability of the various reactor systems during the fire is being developed by NRC inspectors. Information developed thus far indicates the following facts:

1. Although some instrumentation was lost, certain critical instrumentation (such as reactor water level, and temperature and pressure indicators) continued to function, and both plants were safely shut down.
2. The nuclear fuel remained covered by cooling water at all times.

3. Control of some systems normally used for cooling the reactors was impaired or lost owing to the fire, and alternate methods of cooling, principally the control-rod-drive pumps and the redundant condensate booster pumps, were used. The reactors were depressurized.

4. On Unit 1, although a loss-of-coolant accident had not occurred, the emergency core-cooling system (ECCS) was activated, and that system then supplied additional water to the reactor. The ECCS was manually shut down to prevent overfilling. Later, during cooldown, when the ECCS was called for manually as one of several alternate means of supplying cooling water, it did not activate; the alternate methods had more than sufficient capability to cool the core. The ECCS behavior is under specific investigation.

5. On Unit 2, although four pumps in the low-pressure ECCS were inoperable, adequate cooling from the ECCS was available since redundant pumps were functional. Emergency core-cooling water was provided initially as in Unit 1, but emergency core-cooling systems were not called back into operation to cool the reactor. The core was cooled during the first several hours by a high-capacity pump. After several hours the pump was shut off, and Unit 2 was cooled essentially as was Unit 1.²¹⁻²⁴

Relief-Valve Discharge to Suppression Pool

On Nov. 14, 1974, the Atomic Energy Commission (now NRC) issued Bulletin 74-11 to all boiling-water reactor (BWR) operators to alert them to a potential problem that could be caused by extended discharge from one or more steam-relief valves into the suppression pool. This problem was highlighted to all BWR operators because of difficulties experienced in Europe at two BWRs designed by General Electric Company (GE) and because of similar recent blowdowns at two U.S. facilities. An operating-experience bulletin issued on April 18, 1975, summarized these events and the actions requested of BWR operators by NRC.

The first incident occurred in Germany while a relief valve was being tested with the reactor at 60% power. When the valve was given a signal to close, it did not respond. Attempts were made to close the valve for about 30 min while the reactor remained at power. During this

period, the suppression-pool temperature continued to rise owing to the discharge of steam from the open relief valve. When the suppression-pool temperature exceeded 160°F, excessive vibrations occurred and increased until the suppression-pool metal liner separated from the reinforcing beams that had been bolted to the inside of the liner. The relief-valve discharge pipe at this facility is directed downward into the pressure-suppression pool; this design is different from that used in BWRs operating in the United States.

The second incident occurred in Switzerland while relief valves were being tested with the reactor at 40% power. While one relief valve was being operated for 5 min, a second adjoining valve was opened by the operator. Within 2 min, suppression-pool vibration was heard; approximately 1 min later the test was terminated by closing both valves. The vibrations caused displacement of the catwalk sections and failure of an instrument line in the suppression pool.

The vibrations at both foreign reactors were associated with steam condensation when the steam jetted into the suppression-pool water when the pool temperature was at or about 160°F. The high-temperature condensation created destructive impulses produced by the rapid collapse and formation of steam bubbles in the hot suppression-pool water.

In two events at U.S. BWRs, stuck relief valves caused suppression-pool temperatures to rise to at least 120°F. One of these two events was at the Peach Bottom Atomic Power Station, Unit 2, owned by the Philadelphia Electric Company and located in York County, Pa. The other event was at the Cooper Nuclear Power Station, located in Nemaha County, Nebr., and owned by the Nebraska Public Power District. Neither resulted in vibration or damage to the pool because temperatures remained within a range of 120 to 145°F, which is about 15°F below what appears to be the critical temperature.

The NRC requested BWR licensees to review operating procedures applicable to this problem to determine if those procedures should be modified in any of the following ways:

1. Limiting bulk suppression-pool temperatures during normal operation and during controllable transients.

2. Requiring reactor trips if the bulk suppression-pool temperature exceeds that established as a limit of controllable transients or if one or more relief valves fails to reseal properly.

3. Taking prompt steps in case of inadvertent relief-valve actuation or failure to reseal to minimize the duration of steam discharge to the suppression pool; in case of relief-valve discharge, promptly initiating suppression-pool circulation to dissipate local peaking of water temperatures.

4. Conducting visual internal and external inspection of the suppression-pool structure for evidence of damage in instances where one or more relief valves fail to reseal properly or discharge to the suppression pool for an extended period of time.

Licensees also were requested to ensure that procedural changes made to minimize the effects of steam discharge to the suppression pool had no adverse effects in other areas.

In addition to the operating-experience bulletin, licensees received information from GE on interim operating procedures and pool temperature limits to assist them in relating this problem to their own operation. Specifically, GE recommended a limit of 110°F for the torus temperature, followed by a scram.^{25,26}

Fuel Failure and Off-Gas Release

On May 22, 1975, at Quad Cities Nuclear Power Station Unit 2, an unplanned off-gas release occurred as a result of fuel failure due to pellet-cladding interaction. Following a 24-hr forced outage, the reactor had been brought up to power [560 MW(e)] using a combination of in-sequence rod withdrawals that produced abnormally high power peaking at the bottom of the core due to a low-xenon condition; this was followed by a power increase with core flow to 700 MW(e) [2120 MW(t)]. The net effect was a local power-level increase at a rate greater than that which would allow the fuel pellet-to-cladding stresses to relax without cladding failure.

Since no fuel safety limits were exceeded, the primary cause must be attributed to equipment failure (fuel damage). High-exposure fuel

is evidently subject to failure from the pellet-cladding mechanical interaction if the local rate of power increase is excessive.

As a result of the fuel failure, the instantaneous peak release of off-gas was estimated to have been 0.19 Ci/sec, which is below the Technical Specification (license) limit of 0.506 Ci/sec. There were no effects on the health and safety of the public.

The initial corrective action to the off-gas release was to decrease reactor power with flow and to insert control rods to reduce the power peaking at the bottom of the core. The final corrective action will take the form of more detailed and formal instructions and information for use by the operating department in determining when a power increase should be slowed or halted owing to the possibility of causing fuel failure. Consideration is also being given to the possibility of reduced ramp rates or power soaks following outages of 25 hr or more in order to allow the buildup of a larger xenon inventory during nonemergency load conditions.^{27,28}

Feedwater Line Breaks on BWR

At the Quad Cities Nuclear Power Station, owned by Commonwealth Edison Company, Chicago, Ill., Unit 2 suffered a break in the body of a 4- by 6-in. reducer on the downstream side of the low-flow regulator valve in the feedwater system. Unit 2 was coming up in power after an outage and was producing 170 MW(e) at the time of the incident. Operators were on the scene observing the transfer of flow from the low-flow feedwater regulating valve to the main feedwater regulating valve because problems in vibration during this operation had been experienced. A feedwater vibration alarm sounded when both valves were partially opened. The unit was manually scrammed when the low-flow line just downstream of the low-flow regulating valve started to sever. Not only did the line break, but cracks occurred in the low-flow piping at the low-flow riser junction with the main feedwater line and in the reducer upstream of the regulating valve.

All reactor systems responded satisfactorily. There was no excessive exposure to plant personnel or contamination to the environs.

An estimated 12,500 gal of water was released, about 8500 from the severed line and about 4000 from the service-water deluge system. An estimated 2500 gal of water with an average activity about 1.9×10^{-2} $\mu\text{Ci/ml}$ flowed to the Unit 2 oil separator. This water was released by batches, so that the activity at the release point was less than the technical-specifications limit of 10^{-7} $\mu\text{Ci/ml}$.

The following immediate corrective actions were taken:

1. Four snubbers were added to the piping at the feedwater regulating station to restrict the motion of the 6-in. low-flow line to mitigate the consequences of potential future vibrations.

2. New 4- by 6-in. reducers were installed on both sides of the low-flow regulating valve to replace the damaged reducers. The lower carbon content of the new reducers (0.23% actual), compared to that of the old reducers (0.32% actual), should provide greater ductility with less susceptibility to cracking.

3. The cracks in the low-flow piping at the connection to the main feedwater line were repaired by welding. The header pipe was sleeved with 8-in. schedule-160 pipe to eliminate mechanical stresses from line vibration.

4. All new welds were blended into the base metal to reduce stresses and were magnetic particle inspected and radiographed.

A future corrective action will include the installation of a "drag valve" to replace one of the main feedwater regulating valves. This valve should provide more adequate flow control over a wider range of flow conditions and reduce low-induced vibrations at the regulating station. The low-flow control valve line is to be repiped to provide a less rigorous path as another measure to reduce the flow-induced vibrations. These modifications are scheduled to be made during refueling outages in 1976.

The flow drains that conduct water to the storm-sewer system have been capped to prevent any future flows of contaminated water to the oil separators.^{29,30}

H₂ Explosion Injures Two

On Nov. 5, 1975, an explosion occurred at the Cooper Nuclear Station, which is located at Brownville, Neb. This BWR is operated by the Nebraska Public Power District. The explosion was in a sump that had become pressurized. The explosion occurred during the removal of the manhole cover at the moment the health physicist turned on an air sampler to check for air contamination. One person sustained major injuries and became contaminated enough to have a reading of 3 m/hr at contact. A second person who was working adjacent to the injured man received a minor burn. Both were rushed to the hospital, where a reading of only 1 mr/hr could be found on the contaminated man. After his clothing was removed and the burned areas were cleaned, there was no contamination. The second man was released from the hospital without treatment. The six people who were in the vicinity of the explosion were exposed to less than 15 mrem during the day of the accident. The appropriate areas were roped off as determined by surveys for contamination and hydrogen, and the reactor was shut down until the source of the hydrogen and the cause of explosion could be determined and evaluated.

An isolation valve in the off-gas system was found closed instead of open. This forced off-gas from the steam jet air ejector through a loop-seal drain line from the 48-in.-diam holdup line to this sump and back to the dilution fans prior to being discharged up the Elevated Release Point.

The valve was found closed even though the control room valve position indicating lights and control switch showed the valve to be open. Changes had been made on the electrical wiring to this valve during the previous outage. Approval had been given to red-line drawings of the valve and some associated valves that are part of the additional off-gas treatment equipment that will be put in service later this year. But authorization had not been given to change any wiring associated with the valve. Personnel involved in making the wiring change thought they had verified the proper position of the valve by observing the position of the slotted notch at the top of the stem. The butterfly valve gate, however, was not parallel to the slot as they had believed.

An explosive meter was not used to sample the gases flowing from the sump because no indication of hydrogen had been found in the past when this sump had been opened.

Wiring for the position indicating lights and for actuating the valve was corrected. Also the top of the metal lining for the sump had been separated by the explosion from the side wall liner. This too was repaired. The personnel responsible for the unauthorized wiring changes were reminded of the procedures, which require appropriate review and approval of such changes before they are made.^{31,32}

CONCLUSION

We can all profit by the experiences of others as long as there is free communication among the interested parties. This compilation was prepared with this objective in mind and is intended to provide some guidance as to where additional effort can be expended to minimize the occurrence and the recurrence of incidents. In this way, the safety, reliability, and availability of nuclear facilities should be improved.

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CAUSE - CALIBRATION ERROR. DURING TESTING OF THE MAIN STEAM LINE HIGH FLUX PRESSURE DIFFERENTIAL INDICATING SWITCHES, 2 SWITCHES ACTUATED ABOVE THE 114 PSIG LIMIT. SET POINTS WERE 114 PSIG. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCHES WERE IMMEDIATELY RESET.

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IOWA ELECTRIC LIGHT AND POWER COMPANY
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CAUSE - PROVEN SAMPLE LINE. WITH THE REACTION AT 1000 PSI, THE SC WAS SAMPLED FROM THE MAIN STEAM LINE. THE INSTRUMENTIC SAMPLE LINE WAS PLUGGED WITH FROZEN CONDENSATE. AFTER A SIMULATED INSULATION FAILURE, THE SAMPLE LINE WAS HEAT TRACED OUT FOR INSULATION. WHEN THE LINE WAS HEATED, AND THE LINE INSULATED.

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CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE REACTION LOW PRESSURE (HMR) SWITCHES, 2 WERE FOUND WITH SET POINTS BELOW THE 932.2 PSIG LIMIT. THE TRIP SETTINGS WERE 899 AND 900 PSIG RESPECTIVELY. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCHES WERE RECALIBRATED IMMEDIATELY.

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093561

SET POINT DRIFT IN PRESSURE SWITCH AT ARNOLD
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000002

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• INSTRUMENT, PUMP • MEASUREMENT, MEASUREMENT • MEASUREMENT, MEASUREMENT • MEASUREMENT, MEASUREMENT

[illegible]

CAUSE - INSTRUMENT DRIFT DURING A REVIEW OF TEST RESULTS, IT WAS NOTED THAT THE UPSCALE AND DOWNSCALE TEST RESULTS OF SPAN CHANNEL 4 CORRESPONDING TO 30.30 RECIRCULATION LOOP FLOW WAS 43.258 WHICH IS OUTSIDE THE 0.1 TO 0.35 LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE CHANNEL WAS IMMEDIATELY RECALIBRATED.

AVAILABILITY - THE PUBLIC DOCUMENT NUMBER, 1010-4 Street, WASHINGTON, D. C. 20540 130 CENTS/PAGE -- 41 MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION • REACTION CONTROL • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY
• ALARM • INSTRUMENT, POWER RANGE • SET POINT • ANNUNCIATOR • DRIFT

102153
UNIDENTIFIED CUMULATIVE LEAKAGE INCREASED ABOVE LIMIT AT APPROX
1.000 ELECTRIC LIGHT & POWER CO.
3 PAGES. LETTER WITH AKA 750410 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, NEWTON 3, MARCH 31, 1975, SUBJECT 50-
531, TYPE--MAY. HQ--C.E.C. AT--COMMUNALISM ASSOC.

CAUSE - VALVE INTERNAL PACKING LEAK. WHILE OPERATING AT 400 GPM, THE LEAK RATE INTO THE ORTHWELL EQUIPMENT DRAIN AND FLOOR DRAIN INCREASED TO 10.0 AND 4.0 GPM, RESPECTIVELY. THE REACTION WAS SHUT DOWN. THE CAUSE WAS AN INTERNAL PACKING LEAK ON A RECIRCULATION LOOP DISCHARGE VALVE. THE VALVE WAS BALANCESTED AND THE DRAIN LINE FROM THE INTERNAL PACKING TO THE ORTHWELL EQUIPMENT DRAIN SUMP WAS ISOLATED. THE OUTER PACKING WAS NOT LEAKING. ANY FUTURE LEAKAGE FROM THE OUTER PACKING WILL BE DETECTED BY THE ORTHWELL FLOOR DRAIN SUMP AND CLASSIFIED AS UNIDENTIFIED LEAKAGE.

*AVAILABILITY - RAL PUBLIC LEXURE-1 ROOM, 1717 N STREET, WASHINGTON, D. C. 20543 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00)

FAILURE, EQUIPMENT SEAL • MAIN CHILLING SYSTEM • LEAK • ANNUAL (HOUR) • REACTOR SHUTDOWN • VALVES

101550
CONTAINMENT ATMOSPHERE OXYGEN CONCENTRATION HIGH AT ARMED

101990 PLANTINQUIRY
IOWA ELECTRIC LIGHT & POWER COMPANY
3 PAGES, LETTER WITH AIR 75/10 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 3, 1975, DOCKET
50-331, TYPE--BUR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT ERROR. DURING A UNIT STARTUP THE CONTAINMENT ATMOSPHERE GASEOUS CONCENTRATION
WAS 10.08 IN MEANS AFTER THE REACTION WAS PLACED IN THE RUN MODE. THE LIMIT AT THIS TIME IS 0.8.
AN IMMEDIATE PURSUIT WAS MADE UNTIL THE REQUIRED CONCENTRATION WAS OBTAINED. WHEN IT BECAME
APPARENT THAT ADJUSTING THE REACTOR WOULD NOT BE POSSIBLE WITHIN THE 24 HOUR PERIOD BECAUSE NITROGEN
WAS NOT AVAILABLE, A SIMULATION WAS INITIATED. HOWEVER, OPERATING PERSONNEL UNDERTAKES AT THE
TIME REQUIRED TO LOCATE THE REACTOR POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, OPERATING ERROR • CONTAINMENT ATMOSPHERE, TEST • ANALYST ERROR • REACTOR SHUTDOWN • CONCENTRATION

101991
INCONVENIENT RELEASE OF GASEOUS RADIOACTIVITY AT ARNOLD
IOWA ELECTRIC LIGHT & POWER COMPANY
2 PAGES, LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, APRIL 4, 1975, DOCKET 50-331, TYPE--BUR, NRC--
G.E., AE--COMMONWEALTH ASSOC.

CAUSE - MAINTENANCE ERROR. AN INCONVENIENT GASEOUS RELEASE OCCURRED THAT, WHEN INTEGRATED OVER A
ONE HOUR PERIOD, EXCEEDED THE RELEASE RATE LIMIT BY A FACTOR OF 2.97. THE RELEASE OCCURRED WHEN
THE LOOP SEAL ON THE 6-IN. LINE FROM THE AIR EJECTORS TO THE OFF GAS SYSTEM BLEW HIGH
PRESSURE. THE PRESSURE SWITCHES WHICH NORMALLY CAUSE ISOLATION OF THE LOOP SEAL WHEN THE
PRESSURE REACHES 0.7 PSIG HAD BEEN RESET TO 0.5 PSIG DURING ATTEMPTS TO REMOVE WATER FROM THE OFF
GAS SYSTEM. THE SWITCHES INADEQUATELY WERE NOT ADJUSTED BACK TO NORMAL WHEN WORK WAS COMPLETED.
THEY WERE RESET IMMEDIATELY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

INCONVENIENT RELEASE • MAINTENANCE AND REPAIR • INSTRUMENT, SWITCH • FAILURE, MAINTENANCE ERROR • OFF GAS • SEAL •
SET POINT • ANALYST ERROR • SENSORS, PRESSURE

101992
INTRELL FLOOR DRAIN ISOLATION VALVE FAILS TO CLOSE AT ARNOLD
IOWA ELECTRIC LIGHT & POWER COMPANY
3 PAGES, LETTER WITH AIR 75/10 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 4, 1975,
DOCKET 50-331, TYPE--BUR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - UNKNOWN. DURING A TEST, THE INTRELL FLOOR DRAIN AUTOMATED ISOLATION VALVE DID NOT FULLY
CLOSE. THE ISOLATION VALVE WAS CLOSED IMMEDIATELY. THE VALVE OPERATED SATISFACTORILY
DURING TESTING. NO CAUSE WAS FOUND FOR THE OCCURRENCE. THE VALVE WAS RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CONTAINMENT • FAILURE, EQUIPMENT • CONTAINMENT ISOLATION • TEST, SYSTEM OPERABILITY • ARNOLD (HOUR) • VALVES

102150
SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD
IOWA ELECTRIC LIGHT AND POWER COMPANY
2 PAGES, LETTER WITH AIR 75/10 TO NRC OFFICE OF INSPECTION AND ENFORCEMENT, REGION 3, APRIL 11, 1975, DOCKET
50-331, TYPE--BUR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING A SURVEILLANCE TEST, AN MPC1 STEAM LINE HIGH DIFFERENTIAL
PRESSURE SWITCH WAS FOUND TO BE SET AT 90 INCHES OF WATER. THE LIMIT RANGE IS 93 TO 107 INCHES.
THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • SET POINT •
ARNOLD (HOUR) • DRIFT • SENSORS, PRESSURE • MPC1

102154
EMERGENCY SERVICE WATER PUMP FLOW RATES BELOW LIMIT AT ARNOLD
IOWA ELECTRIC LIGHT & POWER COMPANY
3 PAGES, LETTER WITH AIR 75/10 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 17, 1975, DOCKET 50-
331, TYPE--BUR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - NORMAL WEAR ON IMPELLERS. DURING TESTING OF THE EMERGENCY SERVICE WATER SYSTEM, FLOW
RATES FOR 2 PUMPS WERE FOUND TO BE 1130 AND 1125 GPM AT 73.5 PSIG TQM, RESPECTIVELY. THE
REQUIRED FLOW RATE IS 1700 GPM. THE CAUSE WAS NORMAL WEAR OF THE PUMP IMPELLERS. A CONTRIBUTING
CAUSE WAS THE USE OF THE WRONG PUMP FLOW RATES DURING PREVIOUS TESTING. IMPELLER CLEARANCES WERE
REDUCED. FLOW RATES WERE THEN 1200 AND 1230 GPM. THE PROPER CURVE WAS INCORPORATED IN THE

102154 CONTINUOUS
PROCEDURES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT • TEST, SYSTEM OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL • EMERGENCY COOLING • PLUM •
ARNOLD (400) • PUMP.

102403

EMERGENCY SERVICE WATER PUMP FLOW RATES LOW AT ARNOLD

IDA ELECTRIC LIGHT & POWER CO.

3 PAGES, LETTER WITH ACR 75-18 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 17, 1975, DOCKET 50-
331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - NORMAL WEAR ON IMPELLERS. DURING TESTING OF THE EMERGENCY SERVICE WATER SYSTEM, THE FLOW
RATES FOR 2 PUMPS WERE 1130 AND 1125 GPM. REQUIRED FLOW RATE IS 1200 GPM. TESTS WERE MADE WHEN
IT WAS FOUND THAT THE WRONG FLOW ELEMENT ORIFICE CURVE HAD BEEN USED DURING PREVIOUS TESTING.
THE CAUSE WAS NORMAL WEAR OF THE PUMP IMPELLERS. A CONTRIBUTING CAUSE WAS THE USE OF THE WRONG
FLOW CURVES. AFTER THE IMPELLER CLEARANCES IN THE PUMPS WERE REDUCED, RETESTS SHOWED FLOW RATES
OF 1200 AND 1230 GPM. THE PROPER CURVE WAS INCORPORATED IN THE PROCEDURES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ARNOLD (400) • OPERA • PHASE • PUMPS • AUXILIARY COOLING • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT •
FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS

102499

SUPPRESSION CHAMBER WATER VOLUME EXCEEDS LIMIT AT ARNOLD

IDA ELECTRIC LIGHT & POWER CO.

3 PAGES, LETTER WITH ACR 75/22 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 23, 1975, DOCKET 50-
331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - OPERATOR ERROR. PREPARATION FOR A TEST TO VERIFY MPC PUMP FLOW CAPABILITIES INCLUDED
DRAINING THE CONDENSATE STORAGE TANK TO THE SUPPRESSION CHAMBER. ALTHOUGH SUPPRESSION CHAMBER
WATER LEVEL WAS BEING OBSERVED ON A LEVEL RECORDER, PERSONNEL INCORRECTLY READ THE SCALE ON THE
RECORDER. THE VOLUME REACHED 65,200 CU FT WHICH EXCEEDS THE 61,500 CU FT LIMIT. WHEN THE ERROR
WAS DISCOVERED AN HOUR LATER, THE WATER VOLUME WAS RETURNED TO LIMITS. A DESIGN CHANGE TO
PROVIDE A LEVEL ALARM HAD ALREADY BEEN INITIATED. PROCEDURES WILL BE REVISED TO CLARIFY THE
PROPER METHOD OF READING THE WATER LEVEL RECORDER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ARNOLD (400) • OPERA • WATER • SYSTEM CAPACITY • FAILURE, OPERATOR ERROR • TESTING

102498

MPCI CHECK VALVE DISASSEMBLY WITH REACTOR TEMPERATURE ABOVE SPECS AT ARNOLD

IDA ELECTRIC LIGHT & POWER CO.

3 PAGES, LETTER WITH ACR 75-24 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 25, 1975, DOCKET 50-
331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - SUPERVISOR ERROR. DURING A PLANT COOLDOWN FROM HOT SHUTDOWN, PLANT PERSONNEL BEGAN
DISASSEMBLY OF A MPC1 STOP CHECK VALVE TO SEARCH FOR A NUT AND WASHER MISSING FROM THE UPSTREAM
CHECK VALVE. PRIMARY COOLANT TEMPERATURE WAS 325 F WHEN THE VALVE CAP WAS REMOVED. TECH SPECS
REQUIRE THE TEMPERATURE TO BE LESS THAN 212 F. THE SHIFT SUPERVISOR SIGNED THE AUTHORIZATION FOR
MAINTENANCE AND FAILED TO ATTACH INSTRUCTIONS CONCERNING THE TEMPERATURE LIMIT. MAINTENANCE
PERSONNEL WERE UNAWARE OF THE TEMPERATURE RESTRICTION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ARNOLD (400) • CONTAINMENT INTEGRITY • TEMPERATURE • MAINTENANCE AND REPAIR • MPC1 • FAILURE, ADMINISTRATIVE
CONTROL • PROCEDURES AND MANUALS

102496

SCRAM DISCHARGE VOLUME LEVEL SWITCH FAILS TO OPERATE AT ARNOLD

IDA ELECTRIC LIGHT & POWER CO.

2 PAGES, LETTER WITH ACR 75-20 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 24, 1975, DOCKET 50-
331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - UNKNOWN. DURING TESTING OF THE DISCHARGE VOLUME HIGH WATER LEVEL, A LEVEL SWITCH DID NOT
OPERATE. IT WAS STUCK IN THE UNTRIPPED CONDITION. THE CAUSE IS UNKNOWN. THE SWITCH INCLUDING
THE FLOAT RESERVOIR WAS CLEANED AND LUBRICATED. ANOTHER LEVEL SWITCH FAILED THE FOLLOWING DAY.
INSPECTION INDICATED A PROBABLE CAUSE WAS A PIECE OF PLASTIC IN THE FLOAT RESERVOIR THAT WEDGED
BETWEEN THE FLOAT AND THE WALL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

102496 *CONTINUED*
CHARGE \$2.00

ARNOLD (OWN) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • *SEVENS, LEVEL • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • *CAUSE • CONTROL ROD DRIVE MECHANISMS

102500

MPCI LOCAL LEAK RATE TEST LINE CRACKS AT ARNOLD
IONA ELECTRIC LIGHT & POWER CO.

3 PAGES, LETTER WITH AOR 75/21 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 28, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - UNKNOWN. DURING A MPCI SUBSYSTEM VALVE LINEUP VERIFICATION, THE 3/4 INCH LOCAL LEAK RATE TEST LINE THAT CONNECTS TO THE 10 INCH TURBINE EXHAUST LINE WAS OBSERVED TO HAVE FRACTURED. THE FRACTURE WAS ON THE TEST LINE IMMEDIATELY ADJACENT TO THE WELD BETWEEN THE TC LINE AND WELDOLET. A VISUAL EXAMINATION INDICATED THE FRACTURE PROBABLY RESULTED FROM AN EXTERNAL LATERAL FORCE APPLIED TO THE TEST LINE. THE DEFECTIVE STUD AND OLD WELD WERE REMOVED FROM THE WELDOLET SCKET. THE TEST LINE WAS DRESSED AND REWELDED TO THE WELDOLET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (OWN) • PIPES AND PIPE FITTINGS • TESTING • MPCI • *FAILURE, PIPE • *CRACK

102517

MPCI LEAK RATE TEST LINE FOUND TO BE FRACTURED AT ARNOLD
IONA ELECTRIC LIGHT & POWER COMPANY

3 PAGES, LETTER WITH AOR 75-21 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 28, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - UNKNOWN. DURING A MPCI SUBSYSTEM VALVE LINEUP VERIFICATION, THE 3/4 INCH LOCAL LEAK RATE TEST LINE THAT CONNECTS TO THE 10 INCH MPCI TURBINE EXHAUST LINE WAS OBSERVED TO HAVE FRACTURED ADJACENT TO THE WELD BETWEEN THE LINE AND WELDOLET. THE CAUSE IS UNKNOWN. VISUAL EXAMINATION INDICATED THAT IT PROBABLY RESULTED FROM AN EXTERNAL LATERAL FORCE TO THE TEST LINE. THE OLD WELD AND STUD WERE REMOVED. THE LINE DRESSED AND REWELDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (OWN) • PIPES AND PIPE FITTINGS • MPCI • *FAILURE, PIPE • WELDS • TESTING

102518

MPCI SHING CHECK VALVE FAILS AT ARNOLD

IONA ELECTRIC LIGHT & POWER COMPANY

4 PAGES, LETTER WITH AOR 75-23 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, APRIL 29, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - MANUFACTURING DEFICIENCY. DURING A MANUAL START OF THE MPCI SUBSYSTEM FOR TESTING, HIGH PRESSURE WAS OBSERVED IN THE MPCI TURBINE EXHAUST LINE. THE VALVE DISK OF THE SHING CHECK VALVE HAD BECOME SEPARATED FROM THE HINGE ARM AND WAS ON THE BOTTOM OF THE VALVE. THE DISK RETAINING NUT AND WASHER WERE IN THE TORUS. THE RETAINING NUT APPARENTLY HAD NOT BEEN WELDED TO THE DISK STUD AS INDICATED ON THE DRAWING. THE RETAINING NUT AND DISK STUD WERE TACK WELDED IN 2 LOCATIONS. IN THE STOP CHECK VALVE, THE TACK WELDS BETWEEN THE VALVE DISK AND DISK RETAINING NUT WERE BROKEN. THEY WERE TACK WELDED IN 4 LOCATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (OWN) • VALVE, CHECK • MPCI • *FAILURE, FABRICATION ERROR • WELDS • FLOW BLOCKAGE • STEAM • FAILURE, EQUIPMENT

102593

RHR PUMP START LOGIC RELAY MALFUNCTIONS AT ARNOLD

IONA ELECTRIC LIGHT & POWER COMPANY

3 PAGES, LETTER WITH AOR 75-25 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, MAY 2, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - UNKNOWN. DURING A STANDBY DIESEL GENERATOR SIMULATED AUTOMATIC START TEST, A RHR PUMP START LOGIC RELAY DID NOT TRIP AS REQUIRED AND AS A RESULT, THE RHR PUMP DID NOT START. THE CAUSE IS UNKNOWN. NO CORRUPTION WAS FOUND TO CAUSE THE MALFUNCTION. THE RELAY WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (OWN) • RELAYS • *SHUTDOWN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • CONTROL SYSTEM

103008
SET POINT DRIFT IN RHR PUMP TIMER AT ARNOLD
IOWA ELECTRIC LIGHT & POWER COMPANY
1 PAGE. LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, MAY 9, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE LPCI SYSTEM, RHR PUMP START TIMER TRIPPED AT 11.5 SEC. EXCEEDING THE 11 SEC UPPER LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE START LOGIC RELAY WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + INSTRUMENTS, MISC. + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + SHUTDOWN COOLING SYSTEM

103009
DISCHARGE CANAL WATER TEMPERATURE NOT RECORDED AT ARNOLD
IOWA ELECTRIC LIGHT & POWER COMPANY
2 PAGES. LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 13, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - PROCESS COMPUTER MALFUNCTION. DUE TO A MALFUNCTION OF THE PROCESS COMPUTER, DISCHARGE CANAL WATER TEMPERATURES WERE NOT RECORDED DURING A 6 HOUR PERIOD. TECH SPECS REQUIRE "GROSS" LOGGING. A DESIGN REVIEW OF DISCHARGE CANAL TEMPERATURE MONITORING TECHNIQUES HAS BEEN INITIATED. PENDING COMPLETION OF THE REVIEW, PERSONNEL HAVE BEEN DIRECTED TO INITIAL MANUAL MONITORING WHEN THE PROCESS COMPUTER IS NON-OPERATIVE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + TEMPERATURE + RECORDS + EFFLUENT + CONDENSER COOLING SYSTEM + COMPUTER, DIGITAL + FAILURE, EQUIPMENT + FAILURE, ADMINISTRATIVE CONTROL

103192
SET POINT DRIFT IN PRESSURE SWITCHES AT ARNOLD
IOWA ELECTRIC LIGHT & POWER CO.
3 PAGES. LETTER WITH AD 75-27 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, MAY 16, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE REACTOR HIGH PRESSURE SWITCHES, 4 SWITCHES WERE FOUND WITH SET POINTS WHICH EXCEEDED LIMITS. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE STATIC-O-RINGS, MODEL 9A-4445-1974, SWITCHES WERE RECALIBRATED. A NONCONFORMANCE EVALUATION HAS BEEN INITIATED TO VERIFY THAT THE SWITCHES ARE COMPATIBLE WITH DESIGN CONDITIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + REACTOR SAFETY SYSTEM

103136
SET POINTS OF UNDER-PRESSURE RELAYS IN ERROR AT ARNOLD
IOWA ELECTRIC LIGHT & POWER COMPANY
3 PAGES. LETTER WITH ATTACHMENT TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 29, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - PROCEDURAL DEFICIENCY. DURING TESTING THAT IS REQUIRED ONCE PER OPERATING CYCLE, 8 UNDERVOLTAGE RELAYS WERE FOUND TO BE SET BELOW THE REQUIRED SET POINTS. THEY WOULD STILL PERFORM THEIR REQUIRED FUNCTION. THE PREOPERATIONAL TEST PROCEDURE DID NOT INCLUDE THE REQUIREMENTS FOR VERIFYING THAT THE SET POINTS WERE IN CONFORMANCE WITH TECH SPECS. ALL OF THE SUBJECT RELAYS WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + SET POINT + FAILURE, ADMINISTRATIVE CONTROL + PROCEDURES AND MANUALS + TEST, PREOPERATIONAL + TEST, SYSTEM OPERABILITY + RELAYS + INSTRUMENT, PROTECTIVE

103478
MPCI SUBSYSTEM FLOW LESS THAN REQUIRED AT ARNOLD
IOWA ELECTRIC LIGHT AND POWER CO., CEDAR RAPIDS
3 PAGES. LETTER WITH AD REPORT 75-19 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, MAY 30, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - FLOW CONTROLLER ERROR. DURING TESTING, THE MPCI SUBSYSTEM FLOW WAS DETERMINED TO BE 2350 GPM WHEN THE FLOW CONTROLLER WAS INDICATING 3000 GPM. A FLOW ELEMENT ORIFICE WAS NOT SIZED PROPERLY FOR THE FLOW TRANSMITTER AND FLOW CONTROLLER COMBINATION. THE VENDOR HAD SUPPLIED AN

103470 *CONTINUUM

IMPROPER ORIFICE. THE REACTOR WAS SHUTDOWN. AN ORIFICE OF THE CORRECT DIMENSION WAS INSTALLED IN THE FLUX ELEMENT. THE MCP1 SUBSYSTEM THEN DELIVERED THE REQUIRED 3000 GPM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) * FLUX * MCP1 * FAILURE, COMPONENT * ORIFICE * FAILURE, FABRICATION ERROR * CONTROL SYSTEM * TEST, SYSTEM OPERABILITY * REACTOR SHUTDOWN

103492

CORE SPRAY PUMP FAILS TO START AT ARNOLD

IONA ELECTRIC LIGHT & POWER CO.

3 PAGES, LETTER WITH AOR 75-30 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JUNE 23, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - DIRTY CONTACTS ON BREAKER. DURING CORE SPRAY SYSTEM TESTING WITH THE PLANT IN REFUEL MODE FOR INSPECTION OF FUEL ASSEMBLIES AND IN-CORE MONITORS, A PUMP DID NOT START ON SIGNAL. THE APPARENT CAUSE WAS DIRTY AUXILIARY CONTACTS ON THE 4160V CIRCUIT BREAKER SUPPLYING POWER TO THE PUMP. THE AUXILIARY CONTACTS WERE BURNISHED AND CLEANED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) * PUMPS * CORE SPRAY * FAILURE, COMPONENT * BREAKER * TEST, SYSTEM OPERABILITY

103467

CONTROL BUILDING INTAKE RADIATION MONITOR INOPERABLE AT ARNOLD

IONA ELECTRIC LIGHT & POWER COMPANY

2 PAGES, LETTER WITH AOR 75-32 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JUNE 30, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - DEFECTIVE RADIATION DETECTOR. WHILE TESTING THE CONTROL BUILDING AIR INTAKE MONITOR, STANDBY FILTER UNIT B DID NOT INITIATE AS REQUIRED. A RADIATION DETECTOR WAS DEFECTIVE. IT WAS REPLACED. THE REACTOR WAS IN REFUEL MODE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) * RADIATION MONITORS * TEST, SYSTEM OPERABILITY * VENTILATION SYSTEM * REFUELING

104074

SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCHES AT ARNOLD

IONA ELECTRIC LIGHT & POWER COMPANY

3 PAGES, LETTER WITH AOR 75-33 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 3, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE PRESSURE SUPPRESSION CHAMBER TO REACTOR BUILDING VACUUM BREAKERS, 2 PRESSURE DIFFERENTIAL SWITCHES WERE FOUND TO OPERATE AT 0.95 AND 1.0 PSID, RESPECTIVELY. THE LIMIT RANGE IS 0.4 TO 0.6 PSID. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. BOTH WERE RECALIBRATED AND RETESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * SET POINT * DRIFT * PLANT PROTECTIVE SYSTEM

104070

SET POINT DRIFT IN LEVEL SWITCH AT ARNOLD

IONA ELECTRIC LIGHT & POWER COMPANY

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 4, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE REACTOR VESSEL SHROUD LEVEL (4MR) INSTRUMENTATION, ONE SWITCH FAILED TO TRIP. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, LEVEL * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * SET POINT * DRIFT * SHUTDOWN COOLING SYSTEM * CORE SPRAY

104389

SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD

IONA ELECTRIC LIGHT & POWER COMPANY, CECAR RAPIDS

104700 PC-MITINGUO
3 PAGES, LETTER WITH ADR 75-36 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 17, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT UNIFT. DURING A MPC1 STEAM LINE HIGH DIFFERENTIAL PRESSURE TEST, THE TRIP SETTING OF A SWITCH WAS 84 INCHES OF WATER WHICH IS LESS THAN THE 93 INCH LUMER LIMIT. THE APPARENT CAUSE WAS INSTRUMENT UNIFT. THE SWITCH WAS RECALIBRATED AND TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + RESET POINT + DRIFT + MPC1 + EMERGENCY COOLING SYSTEM

104705
SET POINT UNIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD
IONA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS
3 PAGES, LETTER WITH ADR 75-36 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 17, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT UNIFT. DURING TESTING OF THE MPC1 STEAM LINE HIGH DIFFERENTIAL PRESSURE SWITCH, THE TRIP SETTING WAS FOUND TO BE 84 INCHES OF WATER WHICH IS BELOW THE 93 INCH LIMIT. THE APPARENT CAUSE WAS INSTRUMENT UNIFT. THE SWITCH WAS RECALIBRATED AND FUNCTIONALLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + FAILURE, INSTRUMENT + RESET POINT + DRIFT + MPC1 + TEST, SYSTEM OPERABILITY

104691
SEISMIC SHOCKER ON MPC1 TURBINE STEAM LINE INOPERABLE AT ARNOLD
IONA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS
3 PAGES, LETTER WITH ADR 75-36 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 21, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - IMPROPER INSTALLATION. DURING ROUTINE INSPECTION, THE STEM ON A MPC1 TURBINE STEAM EXHAUST LINE THERMAL GROWTH LOOP SEISMIC SHOCKER WAS FOUND TO BE BROKEN. THE MOUNTING BRACKET WAS INSTALLED 90 DEGREES FROM THE CORRECT ORIENTATION SO THAT WHEN THE LINE MOVED THE STEM CONTACTED THE BRACKET AND BROKE. THE BRACKET WAS INSTALLED PROPERLY AND A NEW SHOCKER INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + SHOCK ABSORBER + SUPPORT STRUCTURE + PIPES AND PIPE FITTINGS + MPC1 + TURBINE + FAILURE, INSTALLATION ERROR + SURVEILLANCE PROGRAM

104692
DOWELL FLOOR MAIN ISOLATION VALVE FAILED TO CLOSE COMPLETELY AT ARNOLD
IONA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS
3 PAGES, LETTER WITH ADR 75-37 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 22, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - UNEQUAL SPRING TENSION. DURING A VALVE FUNCTIONAL TEST, A DOWELL FLOOR MAIN OUTWARD ISOLATION VALVE DID NOT FULLY CLOSE. THE APPARENT CAUSE WAS UNEQUAL TENSION ON THE SPRINGS WHICH OPERATE BETWEEN THE VALVE AND THE AIR OPERATOR. THE UNEQUAL TENSION CAUSED THE SLIDING METAL PLATE TO BIND ON THE RODS AND FAIL TO FULLY CLOSE. THE TENSION WAS ADJUSTED SO THAT IT WAS EQUAL ON ALL SPRINGS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) + VALVES + CONTAINMENT ISOLATION + CONTAINMENT + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + FAILURE, MAINTENANCE ERROR

104704
SET POINT UNIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD
IONA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS
2 PAGES, LETTER WITH ADR 75-39 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 24, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT UNIFT. DURING A TEST, THE COME SPRAY SPARGER/PRESSURE VESSEL DIFFERENTIAL PRESSURE TRIP LEVEL SETTING WAS FOUND TO BE 3.2 PSID WHICH EXCEEDS THE 2.99 PSID LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS IMMEDIATELY RECALIBRATED AND FUNCTIONALLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

104704 *CONTINUED*
 ARNOLD (DNR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * FAILURE, INSTRUMENT * TEST, SYSTEM OPERABILITY * SET POINT * DRIFT * CORE SPRAY

104804
 SET POINT OF TEMPERATURE SENSORS FOUND TO BE HIGH AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS
 4 PAGES, LETTER WITH AD REPORT 74-32 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 20, 1975.
 DOCKET 50-331, TYPE--DNR, NPG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - HIGH AMBIENT TEMPERATURES. DURING TESTING OF THE REACTOR CLEANUP AREA DIFFERENTIAL HIGH TEMPERATURE INSTRUMENTATION, 4 OF THE 6 SET POINTS EXCEEDED THE 14 F DIFFERENTIAL LIMIT. THIS SYSTEM IS TO DETECT A 5 GPM LEAK. THE MEASURED TEMPERATURE DIFFERENCE REFLECTED THE INCREASE IN AMBIENT TEMPERATURE DUE TO NORMAL OPERATING CONDITIONS. THE SENSORS HAVE BEEN RELOCATED TO MORE ACCURATELY DETECT A LEAK. SET POINTS HAVE BEEN READJUSTED TO 14 F PLUS THE AVERAGE AMBIENT TEMPERATURE WISE ACROSS THE AREA.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (DNR) * SET POINT * SENSORS, TEMPERATURE * LEAK RATE * CONTAINMENT LEAK MONITOR * FAILURE, ADMINISTRATIVE CONTROL * MODIFICATION * OPERATING EXPERIENCE * TEST, SYSTEM OPERABILITY

104805
 SUPPRESSION CHAMBER WATER VOLUME EXCEEDS LIMIT AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS
 3 PGS, LTR WITH AD REPORT 75-60 TO NRC OFFICE OF I & E, REGION 3, JULY 31, 1975, DOCKET 50-331, TYPE--DNR, NPG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - MISALIGNMENT OF VALVES. WITH THE REACTOR AT 972 MWt, THE CORE SPRAY PUMP TEST BYPASS VALVE WAS STUCKED TO DETERMINE IF IT WOULD CLOSE TIGHTLY. SINCE THIS PARTIALLY DRAINED THE CORE SPRAY SYSTEM, IT WAS BEING REFILLED BY PUMPING WATER FROM THE CONDENSATE SERVICE SYSTEM THROUGH THE DNR SYSTEM. LATER, IT WAS NOTED THAT THE SUPPRESSION CHAMBER WATER VOLUME WAS 61000 CU FT, WHICH EXCEEDS THE LIMIT BY 100 CU FT. PUMPING WAS IMMEDIATELY TERMINATED AND THE VOLUME RETURNED TO NORMAL. A MISALIGNMENT OF VALVES ALLOWED A DIRECT FLOW PATH TO THE SUPPRESSION CHAMBER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (DNR) * SYSTEM CAPACITY * ROTORS * WATER * FAILURE, OPERATOR ERROR * PROCEDURES AND MANUALS

104806
 SET POINT DRIFT IN PRESSURE SWITCH AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS
 2 PAGES, LETTER WITH AD REPORT 75-61 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 31, 1975, DOCKET 50-331, TYPE--DNR, NPG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING, A REACTOR HIGH PRESSURE TRIP SETTING WAS FOUND TO BE 1060 PSIG. THE UPPER LIMIT IS 1073 PSIG. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS IMMEDIATELY RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (DNR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * SET POINT * DRIFT * REACTOR SAFETY SYSTEM

104807
 SET POINT DRIFT IN PRESSURE SWITCHES AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS
 2 PAGES, LETTER WITH AD REPORT 75-62 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, JULY 31, 1975, DOCKET 50-331, TYPE--DNR, NPG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING, TWO REACTOR PRESSURE PERMISSIVE TRIP LEVEL SETTINGS WERE FOUND TO EXCEED THE 1064 PSIG UPPER LIMIT BY 6 PSI AND 11 PSI, RESPECTIVELY. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. BOTH SWITCHES WERE IMMEDIATELY RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (DNR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * SET POINT * DRIFT * REACTOR SAFETY SYSTEM

104808
 SURVEILLANCE TEST RESULTS DISCREPANCIES FOUND AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS
 2 PGS, LTR TO NRC OFFICE OF I & E, REGION 3, AUG. 1, 1975, DOCKET 50-331, TYPE--DNR, NPG--G.E., AE--

100614 RADIATION
COMMONWEALTH ASSOC.

CAUSE - OPERATOR OVERSIGHT. DURING A ROUTINE MAJOR SURVEILLANCE TEST RESULTS, TWO DISCREPANCIES WERE FOUND. (1) THE MPC SYSTEM INCOMPLETE TEST PACKAGE FOR ONE DAY THAT THE MPC SYSTEM WAS INOPERABLE SHOULD NOT BE FOUND. THE LOG BOOK INDICATES THAT THE TESTS WERE COMPLETED. THIS ONE PACKAGE WAS MISPLACED. (2) A QUARTERLY SURVEILLANCE TEST WAS NOT COMPLETED ON TIME. THE TEST WAS STARTED BUT A PROBLEM PREVENTED COMPLETION. WHEN THE PROBLEM WAS CORRECTED A WEEK LATER, THE INCOMPLETE TEST WAS OVERLOOKED UNTIL THE TIME LIMIT HAD BEEN EXCEEDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • OPERATING • TEST INTERVAL • TEST, SYSTEM OPERABILITY • REVIEW • FAILURE, OPERATOR ERROR • EMERGENCY SAFETY FEATURE

100609

APPROXIMATE FLOW READ OUT-OF-SPECIFICATION AT ARNOLD

EDNA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS

2 PGS. LTR TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 3, AUG. 12, 1975, Docket 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT UNIT. DURING TESTING OF THE APPROXIMATE FLOW DIAS, FLOW UNIT 2 SET POINT WAS FOUND ABOVE THE MAXIMUM VOLTAGE LIMIT SPECIFIED IN PROCEDURES. THE APPARENT CAUSE WAS INSTRUMENT UNIT. THE UNIT WAS RECALIBRATED. IN THE INITIAL NOTIFICATION OF THIS OCCURRENCE, IT WAS REPORTED THAT UNIT 1 WAS OUT OF CALIBRATION. IT WAS OUT IN THE CONSERVATIVE DIRECTION AND THEREFORE NOT REPEATABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • SENSORS, FLOW • INSTRUMENT, POWER RANGE • TEST, SYSTEM OPERABILITY • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • SET POINT • UNIT • REACTOR SAFETY SYSTEM • INSTRUMENT, SWITCH

100520

2ND CONTROL RODS FAIL TO FULLY INSERT AT ARNOLD

EDNA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS

3 PGS. LTR W/AMR 75-45 TO NRC OFFICE OF I & E, REGION 3, AUG. 22, 1975, Docket 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - WORN PISTON SEAL RINGS. WHILE PERFORMING A CONTROL ROD VERIFICATION FOLLOWING AN AUTOMATIC REACTOR SCRAM, IT WAS DETERMINED THAT 2 CONTROL RODS HAD NOT FULLY INSERTED. THEY WERE ONE NOTCH OUT. THE CAUSE IS BELIEVED TO BE WORN OR LEAKING PISTON SEAL RINGS IN THE DRIVE MECHANISMS. THEY WERE SUCCESSFULLY SCRAM TIME TESTED. FURTHER TESTS WILL BE MADE TO VERIFY THE CAUSE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • CONTROL RODS • CONTROL ROD DRIVE MECHANISMS • FAILURE, SCRAM MECHANISM • FAILURE, EQUIPMENT • REACTOR CONTROL

100509

CONNECTOR ON EMERGENCY SERVICE WATER PUMP BREAKER LOOSE AT ARNOLD

EDNA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS

3 PGS. LTR W/AMR 75-44 TO NRC OFFICE OF I & E, REGION 3, AUG. 22, 1975, Docket 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INADEQUATE TIGHTENING. WHILE OPERATING AT 900 MW, THE 400 V SUPPLY BREAKER TO EMERGENCY SERVICE WATER PUMP A SUSTAINED AN ELECTRICAL ARC ACROSS THE LINE SIDE CONNECTORS RESULTING IN A REACTOR SCRAM AND GROUP 1 ISOLATION. THE CAUSE WAS INADEQUATE TIGHTENING OF THE LINE SIDE CONNECTORS DURING INITIAL INSTALLATION OF THE BREAKER. THE LINE SIDE CONNECTORS SUSTAINED PARTIAL MELTING. THE BREAKER WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • BREAKER • ELECTRICAL ARC • FAILURE, INSTALLATION ERROR • FAILURE, EQUIPMENT • PUMPS • EMERGENCY COOLING • SCRAM, SPURIOUS • REACTOR SHUTDOWN • CABLES AND CONNECTORS • DAMAGE

100730

STANDBY GAS TREATMENT SYSTEM NOT TESTED ON SCHEDULE AT ARNOLD

EDNA ELECTRIC LIGHT & POWER COMPANY, CEDAR RAPIDS

1 PG LTR TO NRC OFFICE OF I & E, REGION 3, AUG. 26, 1975, Docket 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - OVERSIGHT. SURVEILLANCE TEST IN THE STANDBY GAS TREATMENT SYSTEM AND STANDBY FILTER UNIT OPERATION WAS NOT PERFORMED FOR JUNE 1975. OPERATING PERSONNEL HAVE BEEN REINSTRUCTED AS TO THE IMPORTANCE OF TESTING ON SCHEDULE.

129736 UNCONTINUED
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (DNR) • REACTION, PWR • OSTENSIVE GAS TREATMENT • FILTERS • FILTER SYSTEM • FAILURE, OPERATOR ERROR • DESIGN • PRESET INTERVAL

130044
 SET POINT DRIFT IN APPARENT FLUX RIAS CHANNEL AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER CO., IOWA
 3 PGS. LTR W/AM 50-331/75-66 TO NRC OFFICE OF I & E, REGION III, SEPT. 6, 1975, DCKET 50-331, TYPE--DNR, REG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING, 1 OF THE 2 SQUARE ROOT CUR. REAS IN FLUX UNIT C OF APPARENT FLUX RIAS CHANNEL WAS FOUND OUT-OF-CALIBRATION IN THE NON-CORRECTIVE DIRECTION. THE AS-FORMED SET POINT WAS 0.667 VOLTS. THE MAXIMUM LIMIT IS 0.667 VOLTS. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. FLUX UNIT C WAS RECALIBRATED.

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ARNOLD (DNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, FLUX • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • PRESET POINT • DRIFT • REACTION SAFETY SYSTEM

106590
 SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER CO., IOWA
 2 PGS. LTR W/AM 50-331/75-67 TO NRC OFFICE OF I & E, REGION III, SEPT. 12, 1975, DCKET 50-331, TYPE--DNR, REG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING A TEST, THE TRIP LEVEL SET POINT OF A PRESSURE DIFFERENTIAL INDICATING SWITCH FOR NPCL STEAM LINE HIGH FLUX WAS 112.5 INCHES OF WATER. THE LIMITING SET POINT IS 100 ± 34 - 7 INCHES. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS RECALIBRATED AND FUNCTIONALLY TESTED.

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ARNOLD (DNR) • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • PRESET POINT • DRIFT • NPCL

106650
 CAD NITROGEN SUPPLY FOUND TO BE INSUFFICIENT AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER CO., IOWA
 3 PGS. LTR W/AM 50-331/75-68 TO NRC OFFICE OF I & E, REGION III, SEPT. 20, 1975, DCKET 50-331, TYPE--DNR, REG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - SUPPLY LINES DISCONNECTED. DURING RECHARGING OF THE CONTAINMENT ATMOSPHERE DILUTION SYSTEM, THE SUPPLY LINE CONNECTING 2 NITROGEN STORAGE BOTTLES TO THE SYSTEM WERE FOUND TO HAVE BEEN DISCONNECTED. UNKNOWN PLANT PERSONNEL FAILED TO COMPLY WITH ADMINISTRATIVE CONTROL PROCEDURES FOR CONTROL OF PLANT WORK. THE LINES WERE REMOVED WITHOUT PROPER DOCUMENTATION AND APPROVAL. THE LINES WERE RECONNECTED.

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ARNOLD (DNR) • SYSTEM CAPACITY • NITROGEN • CONTAINMENT ATMOSPHERE, INERT • STORAGE CONTAINER • FAILURE, OPERATOR ERROR • PROCEDURES AND MANUALS • PIPES AND PIPE FITTINGS

106999
 SET POINT DRIFT IN TEMPERATURE SENSORS AT ARNOLD
 IOWA ELECTRIC LIGHT & POWER CO., IOWA
 3 PGS. LTR W/AM 75-69 TO NRC OFFICE OF I & E, REGION III, OCT. 4, 1975, DCKET 50-331, TYPE--DNR, REG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - UNKNOWN. DURING TESTING OF THE MAIN STEAM LINE AREA HIGH TEMPERATURE SWITCHES, 3 SWITCHES WERE FOUND TO HAVE TRIP SETTINGS OF 206, 207, AND 227 F. RESPECTIVELY. THE LIMIT IS 206 F. THE DEFINITE CAUSE IS UNKNOWN. IT IS SUSPECTED THAT THE SWITCHES WERE NOT PROPERLY CALIBRATED DURING TESTING THE PREVIOUS MONTH. THEY WERE RECALIBRATED. PERSONNEL PERFORMING THE CALIBRATION WILL BE MONITORED.

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ARNOLD (DNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, TEMPERATURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • PRESET POINT • DRIFT • REACTION SAFETY SYSTEM • FAILURE, MAINTENANCE ERROR • FAILURE, COMMON MODE

107603
SET POINT DRIFT IN PRESSURE SWITCH AT ARNOLD
IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
2 PGS. LTR W/NO 50-331/75-31 TO NRC OFFICE OF I & E, REGION III, OCT. 6, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E.,
AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE MAIN STEAM LINE LOW PRESSURE SWITCHES, ONE SWITCH TRIPPED AT 802 PSIG WHICH IS LESS THAN THE 905 PSIG LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS RECALIBRATED.

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ARNOLD (BWR) • INSTRUMENT • SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • POINT • REACTOR SAFETY SYSTEM

107601
SUPPLEMENTAL REPORT ON DROPPING OF A FUEL ASSEMBLY AT ARNOLD
IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
3 PGS. LTR W/SUPPLEMENTAL RPT AC 50-331/75-31A TO NRC OFFICE OF I & E, REGION III, OCT. 6, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - DESIGN DEFICIENCY. DURING THE REMOVAL OF FUEL ASSEMBLIES AROUND INSTRUMENT DETECTOR TUBE FOR INSPECTION, A FUEL ASSEMBLY WAS INADVERTENTLY DROPPED FROM THE FULL UP POSITION ONTO THE CURB, ABOUT A 30 FT. FREE FALL. IT LANDED ON A SECOND FUEL ASSEMBLY. THE AS-BUILT FUEL GRAPPLE DID NOT PROVIDE AN ADEQUATE METHOD FOR POSITIVE IDENTIFICATION OF PROPER ENGAGEMENT. AN UNDERWATER TV CAMERA WAS USED FOR THE REST OF THIS OUTAGE TO CONFIRM ENGAGEMENT. THE GRAPPLE WILL BE MODIFIED. FOUR DAMAGED FUEL ASSEMBLIES WERE REPLACED. ALSO, THE FUEL SUPPORT PIECE, A CONTROL ROD GUIDE TUBE, AND A CONTROL ROD WERE REPLACED.

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ARNOLD (BWR) • FUEL HANDLING MACHINE • DAMAGE • FAILURE, DESIGN ERROR • SUPPORT STRUCTURE • FUEL ELEMENTS

107629
2ND CONTROL RODS FAIL TO FULLY INSERT AT ARNOLD
IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
3 PGS. LTR W/NO 50-331/75-31 TO NRC OFFICE OF I & E, REGION III, OCT. 9, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - WORN PISTON SEAL RINGS. WHILE PERFORMING CONTROL ROD VERIFICATION FOLLOWING AN AUTOMATIC REACTOR SHUTDOWN, 2 CONTROL RODS DID NOT FULLY INSERT. THEY STOPPED ONE NOTCH OUT. THE CAUSE WAS WORN OR LEAKING PISTON SEAL RINGS IN THE DRIVE MECHANISMS. THE RINGS WILL BE INSPECTED AND REPLACED AS APPROPRIATE DURING THE NEXT REFUEL OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) • CONTROL ROD DRIVE MECHANISMS • TEST, SYSTEM OPERABILITY • SEAL • LEAK • FAILURE, COMPONENT

107775
MPCI ROOM VENTILATION SYSTEM INADEQUATE AT ARNOLD
IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
2 PGS. LTR W/NO 50-331/75-31 TO NRC OFFICE OF I & E, REGION III, OCT. 22, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - DESIGN DEFICIENCY. DURING NORMAL PLANT OPERATION, MPCI ROOM VENTILATION HAS NOT BEEN SUFFICIENT TO PREVENT EXCESSIVE AMBIENT TEMPERATURES. CONTINUOUS OPERATION OF THE MPCI ROOM COOLERS HAS BEEN REQUIRED. THE PROBLEM RESULTED WHEN PENETRATIONS TO THE ROOM WERE SEALED DURING PLANT CONSTRUCTION. THE INITIAL DESIGN ASSUMED AIR FLOW THROUGH THE PENETRATIONS. THE SEALANT WILL BE REMOVED. THE ADDITION OF INSULATION TO HEAT SOURCES WILL BE STUDIED.

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ARNOLD (BWR) • VENTILATION SYSTEM • COOLING • MPCI • COMPARTMENT • FAILURE, DESIGN ERROR • MODIFICATION

107770
SET POINT DRIFT IN PRESSURE SWITCHES AT ARNOLD
IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
3 PGS. LTR W/NO 50-331/75-31 TO NRC OFFICE OF I & E, REGION III, OCT. 24, 1975, DOCKET 50-331, TYPE--BWR, MFG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING A TEST, 2 REACTOR LOW PRESSURE SWITCHES WERE FOUND TO HAVE TRIP SETTINGS OF 930 PSIG AND 895 PSIG RESPECTIVELY. THE LIMIT FOR BOTH IS 902.2 PSIG. THE CAUSE WAS INSTRUMENT DRIFT. BOTH WERE IMMEDIATELY RESET.

107770 CONTINUOUS

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • LPEI • DRIFT

107771

CONTAINMENT ATMOSPHERE OXYGEN ANALYZERS INOPERABLE AT ARNOLD

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA

3 PGS. LTR W/AD 50-331/75-56 TO NRC OFFICE OF I & E, REGION III, OCT. 24, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - OXYGEN CELL DEGRADATION. DURING TESTING, OXYGEN ANALYZERS A AND B WERE DETERMINED TO BE INOPERABLE. THE OXYGEN CELLS IN EACH HAD DEGRADED. THE CELLS WERE REPLACED WITH NEW ONES. A SEMI-DAILY INSPECTION OF THE CELLS IN THE ANALYZERS WILL BE MADE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • MONITOR • PURGEN • CHEMICAL ANALYSIS • CONTAINMENT ATMOSPHERE, INERT • FAILURE, INSTRUMENT • FAILURE, COMPONENT • TEST, SYSTEM OPERABILITY

107772

SECONDARY CONTAINMENT VIOLATED AT ARNOLD

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA

3 PGS. LTR W/AD 50-331/75-56 TO NRC OFFICE OF I & E, REGION III, OCT. 24, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - MISSING POWER FUSE IN INTERLOCK CIRCUIT. WHILE TESTING PERSONNEL AIRLOCK INTERLOCK FUNCTIONS DURING A ROUTINE PLANT INSPECTION, AN NRC INSPECTOR DETERMINED THAT HE COULD OPEN SIMULTANEOUSLY BOTH PERSONNEL DOORS TO THE RAILROAD ACCESS. A POWER FUSE WAS MISSING IN THE INTERLOCK CIRCUIT. A FUSE WAS INSTALLED. A DESIGN CHANGE TO PROVIDE POSITIVE INTERLOCKING IS BEING IMPLEMENTED. PERSONNEL FROM NRC WILL BE REQUESTED TO CONTACT THE ON-DUTY ENGINEER PRIOR TO PERFORMING A TEST INVOLVING AN ATTEMPT TO OPEN 2 AIRLOCK DOORS SIMULTANEOUSLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • CONTAINMENT INTEGRITY • CONTAINMENT AIR LOCK • TEST, SYSTEM OPERABILITY • INSTRUMENT, INTERLOCK • INSTRUMENT, PROTECTIVE • FAILURE, MAINTENANCE ERROR

107961

INSUFFICIENT NITROGEN SUPPLY IN LAD SYSTEM AT ARNOLD

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA

3 PGS. LTR W/AD 50-331/75-56 TO NRC OFFICE OF I & E, REGION III, OCT. 30, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - PERSONNEL ERROR. DURING A SURVEILLANCE TEST, THE VOLUME OF NITROGEN STAYED IN THE CONTAINMENT ATMOSPHERE DILUTION SYSTEM WAS FOUND TO BE ABOUT 49000 SCF WHICH IS LESS THAN THE 50000 SCF LIMIT. THE CAUSE WAS PERSONNEL ERROR. THE PREVIOUS WEEK'S TEST SHOWED ABOUT 50000 SCF. PERSONNEL SHOULD HAVE WORKED MORE. THE NEWLY APPOINTED ADMINISTRATIVE SUPERVISOR WAS NOT ADVISED THAT HE WAS TO MONITOR THE VOLUME DAILY AND ORDER NITROGEN WHEN NEEDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • SYSTEM CAPACITY • NITROGEN • DILUTION • CONTAINMENT ATMOSPHERE, INERT • FAILURE, OPERATOR ERROR • TEST, SYSTEM OPERABILITY

107978

MPCI TURBINE SPEED CONTROLLER RELAY FAILS AT ARNOLD

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA

3 PGS. LTR W/AD 50-331/75-57 TO NRC OFFICE OF I & E, REGION III, OCT. 31, 1975, DOCKET 50-331, TYPE--BWR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - DIRTY CONTACTS AND INADEQUATE SPRING TENSION. DURING A MPCI SYSTEM OPERABILITY TEST, THE MPCI TURBINE WOULD NOT RESPOND TO ANY SPEED CHANGE SIGNAL IN EITHER THE MANUAL OR AUTO MODE. SPEED REMAINED CONSTANT AT THE MINIMUM SETTING OF 1000 RPM. THE SPEED CONTROL RELAY HAD INADEQUATE SPRING TENSION AND DIRTY CONTACTS. CONTACTS WERE CLEANED AND SPRING TENSION WAS INCREASED. THE SYSTEM WAS TESTED SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (HWR) • RELAYS • MPCI • TURBINE • FAILURE, INSTRUMENT • FAILURE, EQUIPMENT • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR

107904
 RAMP AND RAPID LIMITS EXCEEDED AT ARCAD
 LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
 3 PGS. LTR #741 50-331/75-01 TO SAC OFFICE OF I & E, REGION III, NOV. 16, 1975, DOCKET 50-331, TYPE--BWR, RFG--
 GLENN AE--COMMERCIAL ASSOC.

CAUSE - RAPID CHANGES WITH SHUTDOWN. SINCE THE DECEMBER 1974 LICENSE REQUALIFICATION, A COLD LIMIT VIOLATIONS HAVE OCCURRED. UNDER RAMP WAS 1.0002 WHILE THE LIMIT IS 1.0001 AT SWR FACTORY. THERE WERE 3 MAXIMUM VIOLATIONS. THE RAPID/RAMP WAS 1.0002, 1.0003, AND 1.0004 WHILE THE LIMIT IS 1.0001. DUE TO THE RAMP LIMITS CHANGING RAPIDLY WITH CHARGES, AN ADMINISTRATIVE LIMIT CONSERVATIVE TO THE LICENSE LIMIT WILL BE ESTABLISHED.

AVAILABILITY - SAC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARCAD (CONT) - POWER DISTRIBUTION - FAILURE, ADMINISTRATIVE CONTROL - PROCEDURES AND MANUALS - RFG CHANNEL

108273
 SET POINT UNSET IN PRESSURE SWITCH AT ARCAD
 LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
 3 PGS. LTR #741 50-331/75-01 TO SAC OFFICE OF I & E, REGION III, NOV. 16, 1975, DOCKET 50-331, TYPE--BWR, RFG--
 GLENN AE--COMMERCIAL ASSOC.

CAUSE - INSTRUMENT UNSET. DURING TESTING OF THE MPCL STEAM LINE HIGH FLOW TRIP CAPABILITY, 1 OF THE 2 DIFFERENTIAL PRESSURE SWITCHES WAS FOUND TO TRIP OUT SIDE THE LIMITING BAND OF 93 TO 107 INCHES OF WATER. THE 2 SECOND SET POINT WAS 112 INCHES. THE APPARENT CAUSE WAS INSTRUMENT UNSET. THE SWITCH WAS RECALIBRATED.

AVAILABILITY - SAC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARCAD (CONT) - INSTRUMENT, SWITCH - INSTRUMENT CALIBRATION - SENSORS, PRESSURE - TEST, SYSTEM OPERABILITY - FAILURE, INSTRUMENT - SET POINT - PURITY - MPCL

108282
 CONTAINMENT ATMOSPHERE OXYGEN CONCENTRATION HIGH AT ARCAD
 LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
 3 PGS. LTR #741 50-331/75-01 TO SAC OFFICE OF I & E, REGION III, NOV. 17, 1975, DOCKET 50-331, TYPE--BWR, RFG--
 GLENN AE--COMMERCIAL ASSOC.

CAUSE - TRANSPORTATION DELAY. FOLLOWING A SIX-HOUR SHUTDOWN, THE REACTOR WAS PLACED IN THE RUN MODE AND 26 HOURS LATER THE CONTAINMENT ATMOSPHERE OXYGEN CONCENTRATION WAS 20%. A PROPER SHUTDOWN WAS INITIATED. NITROGEN FOR INERTING WAS ORDERED IN SUFFICIENT TIME BOTH THE DELIVERY TRUCK WOULD HAVE DELAYED THE DELIVERY. CONCENTRATION WAS REDUCED TO LESS THAN 1% IN ABOUT 13 HOURS AFTER THE START OF THE SHUTDOWN.

AVAILABILITY - SAC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARCAD (CONT) - CONTAINMENT ATMOSPHERE, INERT - CONCENTRATION - OXYGEN - REACTOR SHUTDOWN - ACCIDENT, TRANSPORTATION - TRANSPORTATION AND HANDLING

108280
 PRIMARY CONTAINMENT VIOLATED AT ARCAD
 LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
 3 PGS. LTR #741 50-331/75-59 TO SAC OFFICE OF I & E, REGION III, NOV. 16, 1975, DOCKET 50-331, TYPE--BWR, RFG--
 GLENN AE--COMMERCIAL ASSOC.

CAUSE - INSUPERABLE HIR VALVE. WHILE PLACING THE REACTOR IN A COLD SHUTDOWN CONDITION, AN SHUTDOWN CIRCUIT VALVE WAS OPENED MANUALLY. TESTS IN SEPTEMBER DETERMINED THAT THE VALVE WAS INSUPERABLE AND COULD NOT BE CLOSED REMOTELY. SINCE THE AUTOMATIC ISOLATION FUNCTION WAS INSUPERABLE, CONTAINMENT INTEGRITY WAS VIOLATED UNTIL THE REACTOR WAS PLACED IN COLD SHUTDOWN. THE VALVE WAS REQUIRED TO REACH THIS CONDITION. INSPECTION OF THE VALVE FOUND NO ABNORMALITIES.

AVAILABILITY - SAC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARCAD (CONT) - CONTAINMENT INTEGRITY - VALVES - SHUTDOWN CIRCUIT SYSTEM - FAILURE, EQUIPMENT - FAILURE, ADMINISTRATIVE CONTROL

108421
 SECONDARY CONTAINMENT INTEGRITY VIOLATED AT ARCAD
 LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA
 3 PGS. LTR #741 50-331/75-02 TO SAC OFFICE OF I & E, REGION III, NOV. 21, 1975, DOCKET 5331, TYPE--BWR, RFG--
 GLENN AE--COMMERCIAL ASSOC.

CAUSE - MAINTENANCE ERROR. WHILE THE REACTOR WAS OPERATING, MECHANICAL MAINTENANCE PERSONNEL OPENED BOTH PERSONNEL DOORS TO THE RG SET ROOM AFTER SIMULTANEOUSLY IN ORDER TO RUN A WELDING

100231 - CONTINUED

CAUSE - THE FUSE IN THE UCLA INTERLOCK SYSTEM WAS PARTIALLY UNSCREWED IN ORDER TO BYPASS THE INTERLOCK. PERSONNEL INVOLVED HAVE BEEN REINSTRUCTED AS TO THE IMPORTANCE OF STRICT ADHERENCE TO LOCKOUT/TAAG REQUIREMENTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNDT (NMR) • PLANT/UNIT INTEGRITY • FAILURE, MAINTENANCE ERROR • INSTRUMENT, INTERLOCK • BYPASS

100516

REACTOR DISCHARGE CANAL WATER TEMPERATURE NOT VERIFIED AT ARNDT
IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA

3 PGS. LTR W/AD 50-331/75-43 TO NRC OFFICE OF I & E, REGION III, NOV. 26, 1975, DOCKET 50-331, TYPE--NMR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - OPERATOR ERROR. DUE TO A MALFUNCTION OF THE PROCESS COMPUTER, DISCHARGE CANAL WATER TEMPERATURES WERE NOT RECORDED FOR 5 HOURS. OPERATORS FAILED TO VERIFY THAT THE HOURMETER READINGS WERE BEING RECORDED. MANUAL METHODS WERE INITIATED WHEN THE ERROR WAS DISCOVERED. THERE WERE NO PLANT DISCHARGES DURING THE PERIOD THE READINGS WERE MISSED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNDT (NMR) • TEMPERATURE • CONDENSED COOLING SYSTEM • REFLUENT • FAILURE, OPERATION ERROR

100532

PRESSURE SWITCHES SET IMPROPERLY AT ARNDT

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IOWA

3 PGS. LTR W/AD 50-331/75-43 TO NRC OFFICE OF I & E, REGION III, NOV. 26, 1975, DOCKET 50-331, TYPE--NMR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - FAILURE TO FOLLOW PROCEDURES. DURING SURVEILLANCE TESTING OF THE REACTOR LOW PRESSURE SWITCHES WHICH ISOLATE THE RHM SHUTDOWN COOLING SYSTEM, MAINTENANCE PERSONNEL INCORRECTLY CALIBRATED 2 SWITCHES. THEY USED DECREASING PRESSURE INSTEAD OF INCREASING PRESSURE AS SPECIFIED. AS A RESULT, THE TRIP POINT WAS ABOUT 100 PSIG WHICH EXCEEDS THE 125 PSIG LIMIT. THE SWITCHES WERE RECALIBRATED. THE REACTOR WAS OPERATING AT 1295 WMT AT THE TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNDT (NMR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SEVS/MS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • SET POINT • PROCEDURES AND MANUALS • SHUTDOWN COOLING SYSTEM

100074

SET POINT DRIFT IN LEVEL SWITCH AT ARNDT

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA

3 PGS. LTR W/AD 50-331/75-44 TO NRC OFFICE OF I & E, REGION III, DEC. 12, 1975, DOCKET 50-331, TYPE--NMR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING A REACTOR LOW LOW LOW WATER LEVEL INSTRUMENT TEST, THE TRIP SETTING ON A LEVEL INDICATING SWITCH WAS FOUND TO BE 196 INCHES OF COLD WATER WHICH EXCEEDS THE 192.4 INCH LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE INSTRUMENT WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNDT (NMR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SEVS/MS, LEVEL • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM

100250

MECHANICAL SEISMIC SHOCKER FOUND TO BE INOPERABLE AT ARNDT

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA

3 PGS. LTR W/AD 50-331/75-44 TO NRC OFFICE OF I & E, REGION III, DEC. 19, 1975, DOCKET 50-331, TYPE--NMR, NRC--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - FAULTY WELD. DURING A DRYWELL INSPECTION WHILE THE PLANT WAS IN COLD SHUTDOWN, A MECHANICAL SEISMIC SHOCKER ON AN INSTRUMENT LINE WAS DETERMINED TO BE INOPERABLE DUE TO A BENT ROD. THE WELD BETWEEN THE ROD AND CLEVIS MOUNTING PLATE APPEARED TO BE AN INCOMPLETE FILLET INSTEAD OF A FULL PENETRATION WELD. IT WAS BROKEN ABOUT HALFWAY AROUND THE ROD CAUSING THE ROD TO BEND WHEN FORCE WAS APPLIED. A NEW SHOCKER WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNDT (NMR) • SHOCK ABSORBER • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • FAILURE, INSTALLATION ERROR • PERIODS • SURVEILLANCE PROGRAM

109255

MAIN STEAM ISOLATION VALVE CLOSING SPRING SEIZED AT ANNOLD

LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA

1 PAGES LHM NO. 50-33175-07 TO NRC OFFICE OF E. C. REGION III, DEC. 19, 1975, Docket 50-331, TYPE--QMR, RFG--
JED: AC--COMMONWEALTH ASSOC.

CAUSE - CORROSION. DURING A ROUTINE INSPECTION WITH THE REACTOR IN COLD SHUTDOWN, ONE SECTION OF THE MAIN STEAM ISOLATION SPRING ON A MAIN STEAM ISOLATION VALVE WAS INSPECTED TO BE COMPRESSED WITH THE VALVE IN THE CLOSED POSITION. IT SHOULD HAVE BEEN EXPANDED. THE CLOSING SPRING SLEEVE WAS DAMAGED ON THE MAIN COILING SPART. THE SPRING PART WHICH WAS POLISHED AND COATED WITH A PROTECTIVE LUBRICANT. A SLEEVE WAS INSTALLED UNDERNEATH THE PIPE HANGER TO PREVENT CORROSION FROM OCCURRING ON THE WELD. ALL OTHER VENTS WERE INSPECTED TO VERIFY THAT SIMILAR CORROSIVE CONDITIONS DID NOT EXIST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ANNOLD (HWR) • COMPONENTS • VALVES • MAIN COILING SYSTEM • CONTAINMENT ISOLATION • FAILURE, COMPONENT •
ACCOMPLISH

109260

MAIN CLOSURE TIME FOUND TO BE LESS THAN LIMIT AT ANNOLD

LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA

1 PAGES LHM NO. 50-33175-08 TO NRC OFFICE OF E. C. REGION III, DEC. 19, 1975, Docket 50-331, TYPE--QMR, RFG--
JED: AC--COMMONWEALTH ASSOC.

CAUSE - GULF OF ADJUSTMENT. DURING MAIN STEAM ISOLATION VALVE TRIP/CLOSURE TIME TESTING, ONE WSWI CLOSED IN 2.97 SECONDS WHICH IS OUT OF THE 3 TO 5 SECOND LIMIT BAND. THE CLOSE THROTTLE WAS OUT OF ADJUSTMENT. CLOSURE TIME WAS READJUSTED TO 4 SECONDS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ANNOLD (HWR) • RESPONSE TIME • VALVES • CONTAINMENT ISOLATION • MAIN COILING SYSTEM • TEST, SYSTEM
OPERABILITY • UNIT • SET POINT • FAILURE, MAINTENANCE - HANG • STEAM

109261

SET POINT ADJUST IN DIFFERENTIAL PRESSURE SWITCHES AT ANNOLD

LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA

1 PAGES LHM NO. 50-33175-09 TO NRC OFFICE OF E. C. REGION III, DEC. 19, 1975, Docket 50-331, TYPE--QMR, RFG--
JED: AC--COMMONWEALTH ASSOC.

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE MAIN STEAM LINE HIGH FLOW PRESSURE DIFFERENTIAL SWITCHES, 2 SWITCHES WERE FOUND TO HAVE TRIP SETTINGS OF 12.65 AND 12.0 PSIG, RESPECTIVELY. THESE EXCEEDED THE 11.0 PSIG LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. BOTH WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ANNOLD (HWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, FLOW • TEST, SYSTEM OPERABILITY •
FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM • MAIN COILING SYSTEM

109267

LHM PRESSURE INSTRUMENT LINE VALVE FOUND CLOSED AT ANNOLD

LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA

1 PAGES LHM NO. 50-33175-09 TO NRC OFFICE OF E. C. REGION III, DEC. 22, 1975, Docket 50-331, TYPE--QMR, RFG--
JED: AC--COMMONWEALTH ASSOC.

CAUSE - PERSONNEL ERROR. DURING A ROUTINE PLANT INSPECTION FOLLOWING A REACTOR SHUTDOWN, THE LHM PRESSURE VALVE ON THE INSTRUMENT LINE TO THE RECALCULATION PUMP DELTA PRESSURE SWITCH WAS FOUND TO BE CLOSED. THIS MADE THE SWITCH INOPERATIVE. THE VALVE APPARENTLY WAS NOT OPENED FOLLOWING COMPLETION OF THE LAST TEST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ANNOLD (HWR) • VALVES • SENSORS, PRESSURE • INSTRUMENT, SWITCH • FAILURE, MAINTENANCE FROM • PROCEDURES AND
MANUALS • PLANT PROTECTIVE SYSTEM • LPCI

109268

BREAKER FOR EMERGENCY SERVICE WATER PUMP TRIPS AT ANNOLD

LINA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA

1 PAGES LETTER WITH AD 50-33175-71 TO NRC OFFICE OF E. C. REGION III, DEC. 31, 1975, Docket 50-331, TYPE--
QMR, RFG--G.E., AC--COMMONWEALTH ASSOC.

CAUSE - DIRTY CONTACT MECHANISM. DURING TESTING OF A DIESEL GENERATOR DUE TO THE OTHER DG BEING INOPERABLE, THE 480-V BREAKER FOR THE EMERGENCY SERVICE WATER PUMP TRIPPED AND COULD NOT BE RESET. AN UNDESIRABLE PLANT SHUTDOWN WAS INITIATED. A DIRTY CONTACT MECHANISM IN THE MOTOR STARTING

109636 (CONTINUED)

UNIT WAS THE CAUSE. THE MOVABLE CONTACT MECHANISM WAS CLEANED AND THE BREAKER RETURNED TO OPERATION IN ABOUT 2 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) • BREAKER • PUMPS • EMERGENCY COOLING • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR

109637

FIRE OCCURS ON EXHAUST MANIFOLD OF DIESEL GENERATOR AT ARNOLD

IOWA ELECTRIC LIGHT & POWER CO., CEDAR RAPIDS, IA.

3 PAGES, LETTER WITH AD 50-331/75-70 TO NRC OFFICE OF ICE, REGION III, DEC. 31, 1975, DOCKET 50-331, TYPE--BWR, NPG--G.E., AE--COMMONWEALTH ASSOC.

CAUSE - OIL LEAKAGE INTO INSULATION. DURING A TEST OF THE STANDBY DIESEL GENERATOR, A SMALL FIRE OCCURRED ON THE SURFACE OF THE EXHAUST MANIFOLD. IT WAS QUICKLY EXTINGUISHED BY NEARBY OPERATING PERSONNEL. OIL LEAKAGE FROM THE DIESEL FRONT COVER PLATE AND SOFT PLUGGED HOLES WAS ABSORBED BY THE INSULATION OF THE EXHAUST MANIFOLD. OPERATION OF THE DIESEL CAUSED THE OIL TO IGNITE. THE OIL-SOAKED INSULATION WAS REMOVED AND TEMPORARY REPLACEMENT INSTALLED. NO OTHER FIRE DAMAGE WAS FOUND. INSULATION SHIELDING MAY BE INSTALLED TO PREVENT REOCCURRENCE OF OIL ABSORPTION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ARNOLD (BWR) • OIL • OTHERMAL INSULATION • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, INSTALLATION ERROR • LUBRICATION • LEAK

093277

CORE SPRAY INSTRUMENTATION DEFICIENCY AT BIG ROCK POINT

CONSUMERS POWER COMPANY, MICHIGAN

3 PAGES, LETTER WITH AD REPORT 1/75 TO NRC DIVISION OF REACTOR LICENSING, JANUARY 27, 1975, DOCKET 50-155, TYPE--BWR, NPG--G.E., AE--OFFICIAL

CAUSE - PROCUREMENT DEFICIENCY. A DESIGN REVIEW OF EXISTING CORE SPRAY INITIATING INSTRUMENTATION REVEALED THAT THE B REACTOR WATER LEVEL SWITCHES AND THE B REACTOR PRESSURE SWITCHES WERE NOT QUALIFIED TO MEET THE HIGH-TEMPERATURE SPECS FOR THE LUCA CONDITIONS. THE REACTOR HAS BEEN SHUTDOWN UNTIL ALL INSTRUMENTATION AND EQUIPMENT WILL OPERATE PROPERLY UNDER THESE CONDITIONS. THE APPARENT CAUSE WAS A PROCUREMENT DEFICIENCY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • CONTROL SYSTEM • CORE SPRAY • DESIGN CRITERIA • INSTRUMENT, SWITCH • REVIEW • FAILURE, INSTALLATION ERROR • REACTOR SHUTDOWN • INSTRUMENTS, MISL.

093505

CONTROL ROD DRIVE TIMING LESS THAN LIMIT AT BIG ROCK POINT

CONSUMERS POWER COMPANY, MICHIGAN

3 PAGES, LETTER WITH AD REPORT 3/75 TO NRC DIVISION OF REACTOR LICENSING, JANUARY 31, 1975, DOCKET 50-155, TYPE--BWR, NPG--G.E., AE--BENTLEY

CAUSE - UNKNOWN. DURING ROD WITHDRAWAL TIMING TESTS WITH THE REACTOR IN COLD SHUTDOWN, 3 DRIVES WERE TIMED AT 21 SEC. THE CAUSE IS UNKNOWN. MOST PREVIOUS TIMING DEFICIENCIES HAVE BEEN ASSOCIATED WITH HOT CONDITION TIMING FOLLOWING ADJUSTMENT OF TIMING AT COLD CONDITIONS. EXCEPT DURING TESTING, THE CONTROLS TO OPERATE THE DRIVES IN THE RUN MODE ARE DEFEATED. THE TIMING WAS ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • RESPONSE TIME • TEST, CONTROL ROD DRIVE • TEST, SYSTEM OPERABILITY • CONTROL ROD DRIVE MECHANISMS

093506

UNCONTROLLED RELEASE OF LIQUID TO THE CANAL AT BIG ROCK POINT

CONSUMERS POWER COMPANY, MICHIGAN

2 PAGES, LETTER WITH AD REPORT 2/75 TO NRC DIVISION OF REACTOR LICENSING, JANUARY 31, 1975, DOCKET 50-155, TYPE--BWR, NPG--G.E., AE--BENTLEY

CAUSE - FAILURE OF ADMINISTRATIVE CONTROL. AN ISOLATED SECTION OF THE FEEDWATER SYSTEM IN THE TURBINE BUILDING WAS BEING DRAINED FOR MAINTENANCE WORK. THE WORKMEN CARRIED SEVERAL PAILS (ABOUT 50 GALLONS) OF THIS LOW-ACTIVITY WATER TO A FLOOR DRAIN WHICH DISCHARGES DIRECTLY TO THE DISCHARGE CANAL. TOTAL RELEASE TO THE LAKE WAS ABOUT 0.83 MICROCURIES. THE CAUSE WAS FAILURE OF ADMINISTRATIVE CONTROL. ALL FLOOR DRAINS THAT DISCHARGE TO THE CANAL WILL BE IDENTIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

095500 *CONTINUED*
BIG ROCK POINT (BHR) * MAINTENANCE AND REPAIR * REACTOR COOLANT * RADIOACTIVITY RELEASE * FAILURE.
ADMINISTRATIVE CONTROL * LAKE * FEEDWATER

095504
AUGMENT SAFETY EVALUATION NOT PERFORMED FOR CHANGE AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICHIGAN
3 PAGES, LETTER WITH UC REPORT 4/75 TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 26, 1975, DOCKET 50-155.
TYPE--BHR, MFG--G.E., AE--BECHTEL

CAUSE - ADMINISTRATIVE FAILURE. A RECENT REVIEW OF THE SHUTTING TECHNIQUES USED AT THE PLANT REVEALED THAT THE SAFETY EVALUATION PERFORMED IN 1966 AT THE TIME OF IMPLEMENTATION OF THESE TECHNIQUES DID NOT PROPERLY TAKE INTO ACCOUNT POTENTIAL EFFECTS. OFFSITE DOSE LIMITS MIGHT BE EXCEEDED. CALCULATIONS WILL BE REPERFORMED USING CORRECT ASSUMPTIONS. NO FUEL WILL BE SHIPPED UNTIL THE CALCULATIONS HAVE BEEN COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

AIRBORNE RELEASE * BIG ROCK POINT (BHR) * INSTRUMENT, DETECTION FAILED FUEL ELEMENT * MODIFICATION * FAILURE.
ADMINISTRATIVE CONTROL * SAFETY EVALUATION

095602
CONTROL ROD DRIVE FAILS TO WITHDRAW AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICHIGAN
3 PAGES, LETTER WITH UC REPORT 1/75 TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 11, 1975, DOCKET 50-155.
TYPE--BHR, MFG--G.E., AE--BECHTEL

CAUSE - LOOSE BOLT IN DRIVE THIMBLE. DURING THE SEMIANNUAL CONTROL ROD DRIVE TESTING IN THE COLD SHUTDOWN CONDITION, A CONTROL ROD DRIVE COULD NOT BE WITHDRAWN FROM THE FULLY-INSERTED POSITION. DURING THE INSPECTION, A 1/2-INCH BOLT-AND-NUT COMBINATION WAS RETRIEVED FROM THE THIMBLE OR GUIDE CUP. IT IS FELT THAT THE NUT AND BOLT WERE FROM A TOP GUIDE REPAIR PERFORMED IN 1966.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BHR) * MAINTENANCE AND REPAIR * TEST, SYSTEM OPERABILITY * FAILURE, MAINTENANCE ERROR * OBSTRUCTION * CONTROL ROD DRIVE MECHANISMS

095711
ADDITIONAL INFORMATION ON ECCS EQUIPMENT AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICHIGAN
3 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 19, 1975, DOCKET 50-155, TYPE--BHR, MFG--G.E., AE--BECHTEL

CAUSE - DESIGN DEFICIENCIES. THIS IS THE FIRST UPDATE REPORT ON THE INVESTIGATION OF INSTRUMENTATION/EQUIPMENT REQUIRED DURING AND AFTER A LOCA. SOME DIFFICULTY HAS BEEN EXPERIENCED IN CONVERTING THE SEISMIC VALUES CONTAINED IN THE ORIGINAL SPECIFICATIONS TO VALUES THAT VENDORS USED. INTEGRATED RADIATION DOSE VALUES SPECIFIED ARE SO LARGE THAT THEY ARE NOT REALISTIC AND VENDORS DO NOT DESIGN EQUIPMENT TO MEET THEM. A REEVALUATION BY EQUIPMENT LOCATION AND USE RATE IS NEARLY COMPLETE TO PROVIDE REASONABLE SPECIFICATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BHR) * DESIGN CRITERIA * FAILURE, DESIGN ERROR * REVIEW * EQUIPMENT * EMERGENCY COOLING SYSTEM * SEISMIC DESIGN * RADIATION EFFECT * INSTRUMENTS, MISC.

100044
TWO DEFICIENCIES IN THE LOCKING DEVICE FOR LOWER GRID BARS AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICHIGAN
3 PAGES, LETTER WITH UC REPORT 2/75 TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 21, 1975, DOCKET 50-155.
TYPE--BHR, MFG--G.E., AE--BECHTEL

CAUSE - DESIGN AND INSTALLATION ERRORS. DURING CORE INTERNALS RECONSTITUTION, THE LOWER GRID BARS LOCKING BAR COULD NOT BE PLACED IN THE UNLOCKED POSITION. A BOLT WAS MISSING FROM THE JOINT OF THE BAR BEAM CLAMPOCK. DURING MANIPULATION TO REALIGN THE LOCKING BAR, THE MAIN BEAM CLAMPOCK SLIPPED OFF ITS LOCKING BAR. THE LOOSE BOLT ASSEMBLY WAS RECOVERED AND REMOVED. THE MAIN BEAM CLAMPOCK WAS MODIFIED TO PREVENT ITS SLIPPING. THE LOOSE BOLT RESULTED FROM A DESIGN DEFICIENCY. THE MAIN BEAM CLAMPOCK HAD NOT BEEN INSTALLED PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BHR) * MAINTENANCE AND REPAIR * FASTENER * FAILURE, DESIGN ERROR * REMOTE MANIPULATING AND VIEWING * CORE COMPONENTS * FAILURE, INSTALLATION ERROR

100044
 DEFECT FOUND IN EMERGENCY CONDENSER OUTLET PIPE AT BIG ROCK POINT
 CONSUMERS POWER COMPANY, MICH.
 2 PAGES, LETTER WITH AD REPORT 7/75 TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 26, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - FABRICATION DEFECT. DURING INSPECTION ASSOCIATED WITH A REPAIR JOB ON THE EMERGENCY CONDENSER PIPE WELDING, A SURFACE DEFECT WAS FOUND ON THE 4-INCH OUTLET PIPE THAT WAS ABOUT 30 INCHES LONG. IT EXTENDED FROM ONE WELD TO WITHIN A FEW INCHES OF A SECOND WELD. EXAMINATIONS INDICATE THAT AN OCCUSION OCCURRED DURING THE MANUFACTURING STAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 106 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • MAINTENANCE AND REPAIR • FAILURE, PIPE • FLAW • FAILURE, FABRICATION ERROR • EMERGENCY COOLING • CONDENSER • PIPES AND PIPE FITTINGS

100570
 ADDITIONAL INFORMATION ON INSTRUMENTATION REVIEW AT BIG ROCK POINT
 CONSUMERS POWER CO., MICH.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 16, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - DESIGN ERROR. EVALUATION OF THE INSTRUMENTATION AND EQUIPMENT REQUIRED TO BE OPERABLE DURING AND AFTER A LOCA CONTINGENCY WITH THE REACTOR IN COLD SHUTDOWN. THE THERMAL OVERLOAD PROTECTION IN A VALVE CONTROL BREAKER MAY TRIP SPONTANEOUSLY AT THE CONTAINMENT DESIGN TEMPERATURE OF 235 F. THIS EQUIPMENT WILL BE MOVED OUT OF THE CONTAINMENT. ALSO, A PRESSURE TRANSMITTER WILL NOT MEET ENVIRONMENTAL CONDITIONS. IT WILL BE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 106 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • CONTAINMENT • MODIFICATION • FAILURE, DESIGN ERROR • ENVIRONMENT • REVIEW • EQUIPMENT • INSTRUMENTS, MISC.

101151
 CONTAINMENT SUPPLY VALVE LEAKAGE HIGH AT BIG ROCK POINT
 CONSUMERS POWER COMPANY, MICHIGAN
 3 PAGES, LETTER WITH AD REPORT 08/75 TO NRC DIVISION OF REACTOR LICENSING, MARCH 31, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - IMPROPER SEATING. DURING CONTAINMENT COMPONENT LEAK TESTING, A SUPPLY VENT VALVE (AN AIR-OPERATED BUTTERFLY VALVE) WAS FOUND TO HAVE EXCESSIVE LEAKAGE CAUSED BY IMPROPER SEATING OF THE VALVE RUBBER SEAT. READJUSTMENT OF THE RUBBER SEAT RESULTED IN A LEAKAGE RATE JUST WITHIN LIMITS. FURTHER ADJUSTMENTS ARE PLANNED. THE REACTOR WAS IN COLD SHUTDOWN AT THIS TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 106 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • CONTAINMENT • TEST, LEAK RATE • VENTILATION SYSTEM • CONTAINMENT INTEGRITY • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • LEAK RATE • VALVE, CHECK

102299
 EMERGENCY DIESEL GENERATOR FAILS TO START AT BIG ROCK POINT
 CONSUMERS POWER COMPANY, MICH.
 2 PAGES, LETTER WITH AD REPORT 9/75 TO NRC DIVISION OF REACTOR LICENSING, APRIL 21, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - FUEL SUPPLY DEFICIENCY. DURING TESTING WHILE THE REACTOR WAS IN COLD SHUTDOWN, TWO COMPLETE CRANKING CYCLES DID NOT START THE UNIT. FOLLOWING HAND PUMP PRIMING OF THE FUEL LINES, THE UNIT STARTED SATISFACTORILY. THE EXACT CAUSE OF FAILURE IS UNKNOWN. AN INVESTIGATION OF COMPONENTS IS IN PROGRESS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 106 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • FUEL, FOSSIL • EMERGENCY POWER, ELECTRIC • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

103070
 SET POINT DRIFT IN PRESSURE SWITCH AT BIG ROCK POINT
 CONSUMERS POWER COMPANY, MICH.
 2 PAGES, LETTER WITH AD 11-75 TO NRC DIV. OF REACTOR LICENSING, MAY 30, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - SWITCH MISAPPLICATION. DURING TESTING WHILE THE PLANT WAS IN COLD SHUTDOWN, THE PRESSURE SWITCH ON THE CONDENSER LOW VACUUM SCRAM INTERLOCK ACTUATED AT 302 PSIG WHICH EXCEEDS THE 350 PSIG LIMIT. THE CAUSE IS THAT A WIDE RANGE SWITCH HAS BEEN USED WITH A SET POINT AT THE EXTREME

103670 *CONTINUED*

LOW END. ALSO, THE SWITCH CANNOT BE SET MUCH BELOW 350 PSIG BECAUSE OF THE RESTRICTIVE RESET CHARACTERISTICS. IT WAS SET TO OPERATE AT 339 PSIG.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) * PERMANENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * RESET POINT * DRIFT * REACTOR SAFETY SYSTEM * FAILURE, DESIGN ERROR

103186

CORE SPRAY VALVE OPERATOR LOCKNUTS LOOSE AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICH.

2 PAGES, LETTER WITH AD 012-75 TO NRC DIVISION OF REACTOR LICENSING, JUNE 2, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - DESIGN DEFICIENCY. EXCESSIVE OPERATOR FREE PLAY WAS NOT DURING VALVE REVERSAL DURING TESTS ON 2 PRIMARY CORE SPRAY VALVES. A LOCKWING UNIT HAD LOOSENED SEVERAL TURNS IN EACH VALVE OPERATOR. THE LOCKING NUT WAS TIGHTENED AND STAFFED WITH A PIN PUNCH TO THE DRIVE SLEEVE. THIS IS A PROBLEM WITH THESE VALVE OPERATORS. THE DESIGN IS BEING REVIEWED BY THE VENDOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) * VALVES * CORE SPRAY * VALVE OPERATORS * FASTENER * FAILURE, DESIGN ERROR * TEST, SYSTEM OPERABILITY

103187

EMERGENCY CONDENSER OUTLET VALVE OPERATOR LOCKNUT LOOSE AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICH.

2 PAGES, LETTER WITH AD 13-75 TO NRC DIVISION OF REACTOR LICENSING, JUNE 2, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - DESIGN DEFICIENCY. FOLLOWING FAILURES OF LOCKNUTS ON VALVE OPERATORS IN THE CORE SPRAY SYSTEM, VALVES WITH SIMILAR OPERATORS WERE INSPECTED. THE LOCKNUT ON AN EMERGENCY CONDENSER OUTLET VALVE WAS FOUND LOOSE AND WAS TIGHTENED AND STAKED. THE CAUSE WAS A DESIGN DEFICIENCY. A MODIFICATION IS BEING REVIEWED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) * VALVES * CONDENSER * EMERGENCY COOLING * VALVE OPERATORS * FASTENER * FAILURE, DESIGN ERROR * TEST, SYSTEM OPERABILITY

103206

CONTAINMENT VENTILATION SUPPLY VALVE LEAK RATE EXCESSIVE AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICH.

2 PAGES, LETTER WITH AD 14-75 TO NRC DIV. OF REACTOR LICENSING, JUNE 5, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - OUT OF ADJUSTMENT. DURING VENTILATION VALVE LEAK RATE TESTING WITH THE REACTOR IN COLD SHUTDOWN, EXCESSIVE LEAKAGE WAS NOTED FOR ONE VALVE. THE ACTUATION MECHANISM BOLTED FITTING HAD SHIFTED DUE TO ROTATIONAL STRESSES DURING PREVIOUS VALVE OPERATIONS. THIS PREVENTED THE DISC FROM ROTATING TO ITS FULL TRAVEL POSITION. THE ACTUATION MECHANISM WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) * VALVES * LEAK RATE * CONTAINMENT * VENTILATION SYSTEM * TEST, SYSTEM OPERABILITY * TEST, LEAK RATE * FAILURE, MAINTENANCE ERROR

103402

CONTAINMENT ISOLATION VALVE LEAK RATE EXCESSIVE AT BIG ROCK POINT
CONSUMERS POWER CO., JACKSON, MICHIGAN

2 PAGES, LETTER WITH AD REPORT 75-15 TO NRC DIVISION OF REACTOR LICENSING, JUNE 10, 1975, DOCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INSUFFICIENT SPRING FORCE. DURING A TEST WITH THE PLANT IN COLD SHUTDOWN, A FUEL POOL AND REACTOR DRAIN ISOLATION VALVE LEAKED AT A RATE OF 190 ML/MIN UNDER TEST PRESSURE. INSUFFICIENT SPRING FORCE EXISTED SO THAT THE VALVE DID NOT SEAT PROPERLY. THE CAUSE WAS A COMPONENT DEFECT AND/OR PROCEDURAL DEFICIENCY. THE VALVE OPERATOR COUPLING WAS ADJUSTED. THIS IS A BLACK, SIVALLS AND BAYSWIN VALVE MODEL 70-14-2 DRT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) * VALVES * CONTAINMENT ISOLATION * LEAK RATE * TEST, SYSTEM OPERABILITY * TEST, LEAK RATE * FAILURE, MAINTENANCE ERROR

103702

DEFICIENCY IN AUTOMATIC CURE SPRAY FLOW ESTABLISHMENT AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICH.

3 PAGES, LETTER WITH UER 3-75 TO NRC DIV. OF REACTOR LICENSING, JUNE 30, 1975, DOCKET 50-155, TYPE--BWR, NRG--G.E., AE--BECHTEL

CAUSE - DESIGN DEFICIENCY. WHILE THE PLANT WAS SHUT DOWN FOR MODIFICATIONS, A REVIEW OF EXISTING AND PROPOSED CHANGES TO PROCEDURES ON THE POST-INDUENT SYSTEM REVEALED A CONFLICT IN ESTABLISHMENT OF CURE SPRAY FLOW AT ADEQUATE PRESSURE. A STATIC HEAD CORRECTION OF 23 PSI HAD BEEN NEGLECTED IN PREVIOUS ANALYSES. ALSO, ADDITIONAL MEANS OF STARTING THE FINE PUMP DURING SMALL AND INTERMEDIATE BREAK LOCA WERE NEVER ESTABLISHED, ASSUMING LOSS OF OFF-SITE POWER. PROCEDURAL MEANS HAVE BEEN ESTABLISHED FOR STARTING THE FINE PUMP REMOTE MANUALLY AND LOCAL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • CURE SPRAY • FLOW • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • ACCIDENT, LOSS OF COOLANT • MODIFICATION • REVIEW

104210

VALVE INSPECTION AND REPAIR PROCEDURE DEFICIENT AT BIG ROCK POINT
CONSUMERS POWER COMPANY, MICH.

3 PAGES, LETTER WITH UER 10-75 TO NRC DIVISION OF REACTOR LICENSING, JULY 17, 1975, DOCKET 50-155, TYPE--BWR, NRG--G.E., AE--BECHTEL

CAUSE - ADMINISTRATIVE ERROR. A QA AUDIT OF SAFETY-RELATED MAINTENANCE ACTIVITIES IDENTIFIED DEFICIENCIES IN SIGN-OFF OF PORTIONS OF THE PROCEDURE. THE PROCEDURE WAS GENERIC IN NATURE AND DOES NOT PROVIDE ADEQUATE DETAIL TO COVER ADJUSTMENTS NEEDED. ALL MAINTENANCE PROCEDURES ARE BEING REVIEWED FOR ADEQUACY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • PROCEDURES AND MANUALS • MAINTENANCE AND REPAIR • FAILURE, ADMINISTRATIVE CONTROL • QUALITY ASSURANCE • REVIEW

104809

DISCHARGE CANAL WATER NOT ANALYZED AT BIG ROCK POINT

CONSUMERS POWER COMPANY, JACKSON, MICH.

2 PGS, LTR W/UR 17-75 TO NRC DIV. OF REACTOR LICENSING, JULY 31, 1975, DOCKET 50-155, TYPE--BWR, NRG--G.E., AE--BECHTEL

CAUSE - FAILURE TO PERFORM ROUTINE DUTY. THE DAILY DISCHARGE CANAL WATER SAMPLE WAS NOT TAKEN ON JULY 18 AND, THEREFORE, WAS NOT ANALYZED. A CHECKLIST FOR DAILY ACTIVITIES WAS NOT FOLLOWED. THE RESPONSIBLE TECHNICIAN WAS INFORMED OF THE DEFICIENCY. A SUPERVISORY OVERCHECK OF TESTS WAS BEEN INITIATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • SAMPLING • CANAL • DISCHARGE • FAILURE, OPERATOR ERROR • PROCEDURES AND MANUALS

105553

CONTROL ROD DRIVE FAILS TO WITHDRAW AT BIG ROCK POINT

CONSUMERS POWER COMPANY, JACKSON, MICHIGAN

2 PGS, LTR W/UR 4-75 TO NRC DIV. OF REACTOR LICENSING, AUG. 25, 1975, DOCKET 50-155, TYPE--BWR, NRG--G.E., AE--BECHTEL

CAUSE - UNKNOWN. DURING ROD DRIVE EXERCISING WHILE THE REACTOR WAS OPERATING, A ROD WOULD NOT WITHDRAW PROPERLY. IT WAS VALVED OUT AT POSITION 19 PREVENTING NORMAL INSERTION WHILE STILL PERMITTING NORMAL COOLING AND SCRAM CAPABILITY. THE CAUSE OF FAILURE IS UNKNOWN. PREVIOUS SYMPTOMS OF THIS TYPE INDICATED A SMALL FOREIGN OBJECT LODGED BETWEEN THE DRIVE INDEX TUBE AND THE INTERNAL ESSEL DRIVE HOUSING. THE DRIVE WILL BE TESTED AT A CONVENIENT OUTAGE TO DETERMINE FAILURE MECHANISM.

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BIG ROCK POINT (BWR) • CONTROL ROD DRIVE MECHANISMS • TEST, SYSTEM OPERABILITY • REACTOR CONTROL • FAILURE, EQUIPMENT

105842

CONTROL ROD WORTH CALCULATION ERROR FOUND AT BIG ROCK POINT

CONSUMERS POWER COMPANY, MICHIGAN

2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, SEPT. 4, 1975, DOCKET 50-155, TYPE--BWR, NRG--G.E., AE--BECHTEL

CAUSE - LACK OF PROCEDURES. A GENERAL OFFICE REVIEW OF WIDECYCLE 13 INPUT DATA FOR CONTROL ROD CALCULATIONS REVEALED ERRORS WHICH AFFECTED THE RESULTS OF COLD AND HOT STANDBY CONTROL ROD WORTH

106292 REACTOR

CALCULATIONS PERFORMED FOR ALL 12 CYCLE 13 IN JULY 1976 AND DISCOVERED FOLLOWING STARTUP ON JUNE 1, 1976. THE CAUSE WAS LACK OF WRITTEN ADMINISTRATIVE PROCEDURES DEFINING GENERAL OFFICE REVIEW REQUIREMENTS. RECALCULATED SPENTURGE MARGIN WAS AS GREAT AS ORIGINALLY CALCULATED. NO RECALCULATED MGR MARGIN DIFFERED BY MORE THAN 1.28 DELTA K/R FROM ORIGINAL CALCULATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (OWN) • MATHEMATICAL TREATMENT • COOLANT MGR MARGIN • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • REVIEW • SPENTURGE MARGIN

106294

REACTOR CLEAN-UP SYSTEM VALVE DESIGN FOUND DEFICIENT AT BIG ROCK POINT

CONSUMERS POWER CO., MICH.

2 PAGES, LETTER WITH AD-19-75 TO NRC DIV. OF REACTOR LICENSING, SEPT. 18, 1975, DCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - ORIGINAL PLANT DESIGN DEFICIENCY. REVIEW OF VALVE APPLICATION DATA FOR 3 VALVES AND 2 MANUAL ISOLATION VALVES IN THE REACTOR CLEAN-UP SYSTEM REVEALED THAT THESE WORMESTER, MODEL 400 1-1/2 INCH BALL VALVES HAVE 1 OF 2 DEFICIENCIES. VALVES CONTAINING NYLON-PROPYLENE SEATS AND SEALS ARE RATED AT 100 PSI. THEY SHOULD BE RATED TO AT LEAST 235 PSI. VALVES CONTAINING TEFLON SEATS AND SEALS ARE RATED AT 1000 PSI WHILE PRIMARY SYSTEM PRESSURE DESIGN REQUIRES 1700 PSI. ALL 5 VALVES WERE LEAK TESTED SATISFACTORILY. VALVE REQUIREMENTS ARE BEING REVIEWED TO DETERMINE IF REPLACEMENT VALVES CAN BE OBTAINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (OWN) • REACTOR, PWR • VALVES • COOLANT PURIFICATION SYSTEM • DESIGN CRITERIA • FAILURE, DESIGN ERROR • SEAL • MATERIAL • REVIEW

106297

UNAUTHORIZED LOAD ADDED TO EMERGENCY LIGHTING PANEL AT BIG ROCK POINT

CONSUMERS POWER CO., MICH.

2 PAGES, LETTER WITH AD-20-75 TO NRC DIV. OF REACTOR LICENSING, SEPT. 19, 1975, DCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - ADMINISTRATIVE CONTROL DEFICIENCY. THE CONCEPT OF A MINOR NONSAFETY-RELATED LIGHTING CIRCUIT CHANGE HAD BEEN REVIEWED BY THE PLANT REVIEW COMMITTEE. WORK WAS COMPLETED WITHOUT PROPER REVIEW RESULTING IN A SMALL LOAD (2 AMPS) BEING ADDED TO THE EMERGENCY LIGHTING BUS WHICH IS FED FROM THE STATION BATTERY DURING A LOSS OF 480V AC POWER. THE CAUSE WAS FAILURE OF ADMINISTRATIVE CONTROLS. THE IMPROPER LOAD WILL BE REMOVED FROM THE PANEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (OWN) • PURIFICATION • EMERGENCY POWER, ELECTRIC • SYSTEM CAPACITY • BATTERIES & CHARGERS • FAILURE, ADMINISTRATIVE CONTROL

106299

CONTAINMENT ISOLATION VALVES TEST PROCEDURES FOUND DEFICIENT AT BIG ROCK POINT

CONSUMERS POWER CO., MICH.

2 PAGES, LETTER WITH AD-21-75 TO NRC DIV. OF REACTOR LICENSING, SEPT. 19, 1975, DCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - PLANT DRAWING DEFICIENCY. WHILE TRACING THE REACTOR CLEAN-UP RESIN SLUICE SYSTEM PIPING AND VALVES, IT WAS NOTED THAT A TELLTALE CONNECTION USED AS PART OF THE ISOLATION VALVE TEST WAS NOT INSTALLED AS SHOWN ON PLANT DRAWINGS. SINCE THE TELLTALE TAP WAS NOT IN THE PROPER LINE, THE TEST, USED SINCE 1973, HAS NOT BEEN A VALID TEST FOR 3 VALVES. THE CAUSE WAS A DEFICIENCY IN A PLANT DRAWING PROBABLY DATING BACK TO CONSTRUCTION PERIOD IN 1962. TEST PROCEDURES AND MINOR EQUIPMENT CHANGES WERE MADE TO PROPERLY LEAK TEST THESE AUTOMATIC ISOLATION VALVES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (OWN) • PROCEDURES AND MANUALS • TEST, LEAK RATE • TESTING • VALVES • CONTAINMENT ISOLATION • FAILURE, DESIGN ERROR • COOLANT PURIFICATION SYSTEM

106302

UNAUTHORIZED LOAD ADDED TO EMERGENCY AL PWR PANEL AT BIG ROCK POINT

CONSUMERS POWER CO., MICH.

2 PAGES, LETTER WITH AD-22-75 TO NRC DIVISION OF REACTOR LICENSING, SEPT. 22, 1975, DCKET 50-155, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - ADMINISTRATIVE CONTROL DEFICIENCY. DURING INSTALLATION OF THE SITE PHYSICAL SECURITY SYSTEM, SECURITY SYSTEM ELECTRICAL EQUIPMENT WAS CONNECTED TO EMERGENCY POWER PANEL #1 WITHOUT PROPER AUTHORIZATION. THIS ADDED A MAXIMUM OF 1.25 KVA COMPARED TO A TOTAL OUTPUT OF 250 KVA FOR THE EMERGENCY DIESEL GENERATION. A PORTION OF THIS LOAD HAS BEEN REMOVED. THE PORTION PROMISED

100452 PLUTONIUM
TO BE LEFT PERMANENTLY WILL BE REVIEWED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • MODIFICATION • FAILURE, ADMINISTRATIVE CONTROL • EQUIPMENT • SECURITY • EMERGENCY POWER, ELECTRIC

100453
OFF-GAS MONITOR FAILS TO TRIP AT BIG ROCK POINT
CONSUMERS POWER CO., JACKSON, MICH.

2 PGS. LTR W/AM 23-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, SEPT. 23, 1975, DUCRET 50-155, TYPE--BWR, REG--
W.C.E., AE--DECHTEL

CAUSE - ELECTRIC CIRCUIT FAULT. DURING TESTS OF OFF-GAS MONITOR TO THE HIGH-LEVEL TRIP FUNCTION FAILED TO OPERATE ON 3 SUCCESSIVE TESTS. THE CIRCUIT RELAY WAS UNPLUGGED AND THEN RECONNECTED IN ITS SOCKET. SUBSEQUENT TESTING PROVED SATISFACTORY. THE SPARE MONITOR IS NOW IN SERVICE. TESTS ARE PLANNED IN AN ATTEMPT TO DETERMINE THE EXACT DEFECT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • MONITOR • OFF GAS • MONITOR, STACK • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT

100454
UNLICENSED REACTOR FUEL RECEIVED AT BIG ROCK POINT
CONSUMERS POWER CO., JACKSON, MICH.

2 PGS. LTR W/AM 23-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, OCT. 9, 1975, DUCRET 50-155, TYPE--BWR, REG--
W.C.E., AE--DECHTEL

CAUSE - FAILURE OF ADMINISTRATIVE CONTROLS. THE PLANT RECEIVED 20 BUNDLES OF URANIUM FUEL WHICH HAD NOT BEEN AUTHORIZED FOR USE BY TECH SPEC CHANGES. THE ERROR WAS DISCOVERED PRIOR TO PLACING THE FUEL IN THE NEW FUEL STORAGE FACILITY. THE FUEL HAS BEEN STORED IN THE CONTAINMENT BUILDING IN THE SHIPPING CONTAINERS PENDING TECH SPEC CHANGES. THE PROCEDURE FOR NEW FUEL HANDLING WILL BE REVISED TO INCLUDE A SIGNOFF TO VERIFY LICENSING PRIOR TO STORAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • TRANSPORTATION AND HANDLING • FAILURE, ADMINISTRATIVE CONTROL • REACTIVITY EFFECT • FUEL STORAGE • FUEL ELEMENTS

100455
IMPROPERLY AUTHORIZED LOAD ADDITION TO SAFETY-RELATED BUS AT BIG ROCK POINT
CONSUMERS POWER CO., JACKSON, MICH.

3 PGS. LTR W/AM 24-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, NOV. 17, 1975, DUCRET 50-155, TYPE--BWR, REG--
W.C.E., AE--DECHTEL

CAUSE - WEARNESS IN CHANGE SYSTEM. A REVIEW OF A PROPOSED ADDITIONAL LOAD ON BREAKER 52-2A-B3 CIRCUIT REVEALED THAT NO DESIGN ANALYSIS HAD BEEN DONE IN THE ADDITION OF THE BREAKER AND THE NEW SECURITY SYSTEM LOAD. SINCE THIS IS THE SECOND OCCURRENCE OF THIS TYPE, IT IS CONCLUDED THAT A WEARNESS EXISTS IN THE FACILITY CHANGE CLASSIFICATION SYSTEM AND THE SCREENING AND REVIEWING OF FACILITY CHANGES PRIOR TO IMPLEMENTATION. THE PLANT O LIST IS NOT FULLY DEVELOPED. A MORE DETAILED O LIST IS BEING DEVELOPED. A CIRCUIT DESIGN ANALYSIS WILL BE PERFORMED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • REVIEW • MODIFICATION • EMERGENCY POWER, ELECTRIC • FAILURE, ADMINISTRATIVE CONTROL

100456
RUD DRIVE SCRAM ACCUMULATOR REMOVED FROM SERVICE AT BIG ROCK POINT
CONSUMERS POWER CO., JACKSON, MICH.

2 PGS. LTR W/AM 25-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, NOV. 24, 1975, DUCRET 50-155, TYPE--BWR, REG--
W.C.E., AE--DECHTEL

CAUSE - MISUNDERSTANDING OF ORDERS. WHILE THE REACTOR POWER AND PRESSURE WAS BEING REDUCED FOR MAINTENANCE ON THE MAIN CONDENSER, THE ACCUMULATOR FOR DRIVE E-4 WAS REMOVED FROM SERVICE FOR REPAIR. THE ERROR WAS DISCOVERED 1 HOUR 40 MINUTES LATER AND THE ACCUMULATOR RETURNED TO SERVICE. THE CAUSE OF THE ERROR WAS A MISUNDERSTANDING OF A SEPT. 1975 MEMO REQUIRING ALL CONTROL RODS TO BE OPERABLE SINCE A ONE-ROD SHUTDOWN MARGIN HAD BEEN DEMONSTRATED FOR CORE CYCLE 13. THE ACCUMULATOR IS REQUIRED FOR SCRAM F34 CORE PRESSURE BELOW 450 PSI.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • ACCUMULATORS • CONTROL ROD DRIVE MECHANISMS • FAILURE, OPERATOR ERROR • COMMUNICATION • PROCEDURES AND MANUALS • SHUTDOWN MARGIN

100251

CHANGE TO FIRE SYSTEM NOT PROPERLY AUTHORIZED AT BIG ROCK POINT

CONSUMERS POWER CO., JACKSON, MI

2 PGS. LTR W/AD-26-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, NOV. 26, 1975, DOCKET 50-155, TYPE--BWR, WPG--WUE., AE--BCHTEL

CAUSE - DEFICIENT ADMINISTRATIVE CONTROLS. REVIEW MODIFICATIONS WERE MADE ON OCTOBER 26 TO THE SPINNAKER SYSTEM PIPING IN THE STACKROOM AS PART OF THE M/S PROJECT. THIS WAS NOT PART OF AN APPROVED WMA PACKAGE. THE CAUSE WAS FAILURE OF ADMINISTRATIVE CONTROLS RELATING TO REVIEW AND APPROVAL OF PLANT MODIFICATIONS. REVIEW PROCEDURES HAVE BEEN REVISED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • PREVIEW • MODIFICATION • PIPES AND PIPE FITTINGS • FIRE PROTECTION • FAILURE, ADMINISTRATIVE CONTROL

100255

CONTROL ROD SCRAM TESTS WITHOUT USE OF PROPER PROCEDURES AT BIG ROCK POINT

CONSUMERS POWER CO., JACKSON, MI

2 PGS. LTR W/AD-27-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, DEC. 16, 1975, DOCKET 50-155, TYPE--BWR, WPG--WUE., AE--BCHTEL

CAUSE - OPERATOR ERROR. WHILE THE PLANT WAS SHUT DOWN, CONTROL ROD DRIVE SCRAM TESTS WERE STARTED WITHOUT USE OF THE WRITTEN PROCEDURE. THE FOLLOWING SHIFT NOTED THE ERROR AND HALTED TESTING UNTIL WRITTEN PROCEDURES WERE PUT INTO USE. THIS TEST HAS BEEN CONDUCTED HISTORICALLY WITHOUT THE USE OF A WRITTEN TEST PROCEDURE. OPERATIONS DID NOT REALIZE THAT A WRITTEN PROCEDURE WAS AVAILABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • TESTING • CONTROL RODS • FAILURE, OPERATOR ERROR • PROCEDURES AND MANUALS

100260

ROD DRIVE WITHDRAWAL TIME LESS THAN LIMIT AT BIG ROCK POINT

CONSUMERS POWER CO., JACKSON, MI

2 PGS. LTR W/AD-28-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, DEC. 16, 1975, DOCKET 50-155, TYPE--BWR, WPG--WUE., AE--BCHTEL

CAUSE - UNKNOWN. JUNIOR ROD DRIVE WITHDRAWAL TIMING TESTS WHILE THE REACTOR WAS SHUT DOWN. 16 DRIVES EXHIBITED WITHDRAWAL TIMES OF LESS THAN 23 SECONDS AT 170 P. THE EXACT CAUSE IS UNKNOWN. THE DRIVE TIMING VALVES WERE READJUSTED FOR PROPER TIMING PRIOR TO START UP. THIS PROBLEM HAS OCCURRED BEFORE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • CONTROL ROD DRIVE MECHANISMS • RESPONSE TIME • FAILURE, EQUIPMENT • FAILURE, COMMON MODE • TEST, SYSTEM OPERABILITY • TEST, CONTROL ROD DRIVE

100277

LEAK FOUND IN CONTROL ROD DRIVE PUMP DISCHARGE PIPING AT BIG ROCK POINT

CONSUMERS POWER CO., JACKSON, MI

2 PGS. LTR W/AD-29-75 TO NRC DIRECTOR OF NUCLEAR REACTOR REGULATION, DEC. 16, 1975, DOCKET 50-155, TYPE--BWR, WPG--WUE., AE--BCHTEL

CAUSE - PROBABLY VIBRATION INDUCED FATIGUE. WHILE THE PLANT WAS SHUT DOWN, A THROUGH WALL WATER LEAK WAS OBSERVED IN A THREADED 1 INCH SCH 160 PIPE NIPPLE AT THE INLET TO THE PUMP DISCHARGE RELIEF VALVE ON SYSTEM 1. THE PROBABLE CAUSE WAS VIBRATION INDUCED FATIGUE. THE PIPE NIPPLE AND ASSOCIATED FLANGE WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BIG ROCK POINT (BWR) • PIPES AND PIPE FITTINGS • CONTROL ROD DRIVE MECHANISMS • LEAK • FAILURE, PIPE • FAILURE, FATIGUE • VIBRATION

100196

PREPARATION AND REVIEW OF CONSTRUCTION ACTIVITY INADEQUATE AT BIG ROCK POINT

CONSUMERS POWER CO., JACKSON, MI

2 PGS. LTR W/AD-30-75 TO NRC DIRECTOR OF REACTOR REGULATION, DEC. 26, 1975, DOCKET 50-155, TYPE--BWR, WPG--WUE., AE--BCHTEL

CAUSE - ADMINISTRATIVE CONTROL DEFICIENCY. A CONSTRUCTION CREW USING A POWER SHOVEL WAS DIGGING IN AN AREA BETWEEN THE TURBINE BUILDING AND REACTOR CONTAINMENT AND CONTACTED A 30-INCH VENTILATION PIPE THAT WAS 2 FEET BELOW THE SURFACE. A WORK PACKAGE COVERING THE EXCAVATION PROJECT DID NOT EXIST. THE DRAWINGS USED BY THE CONTRACTOR DID NOT IDENTIFY ANY INTERFERENCES.

10910 CONTINUED

AN EVALUATION HAS NOT BEEN CONDUCTED BY THE PLANT STAFF. WORK ACTIVITY WAS STOPPED. AN ENGINEERING REVIEW HAS BEEN REQUESTED THROUGH THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REG FOUR POINT (EQUIP) • REVIEW • CONSTRUCTION • MAINTENANCE AND REPAIRS • MODIFICATION • FAILURE, ADMINISTRATIVE CONTROL

000704

OFF GAS SAMPLING POSITION INOPERABLE AT BROWN'S FERRY 1

IVA, CHATTANOOGA, TENN.

2 PAGES, LETTER TO ACTING DIRECTOR OF LICENSING (ARCT), JANUARY 3, 1975, DISCRET 53-259, TYPE--BWR, NRC--G.E., AE--IVA

CAUSE - LEAK IN SAMPLE LINE. WHILE THE UNIT WAS OPERATING AT 42% POWER, ABNORMAL FLOW OCCURRED IN THE OFF GAS SAMPLE FLOW WHICH WAS CORRECTED BY CLEANING THE ROTAMETER. HOWEVER, 20 MINUTES LATER, HIGH RADIATION ALARMS WERE RECEIVED. AN O-RING IN THE FLOW ROTAMETER FAILED TO SEAL PROPERLY UPON REASSEMBLY CAUSING AN INCREASED FLOW RATE AND A CORRESPONDING INCREASED ACTIVITY INCREASED UNIT TO AN INCREASE OF SHORT-LEAD RADIATION. REACTOR POWER WAS DECREASED UNTIL MAINTENANCE WAS COMPLETED. A REDUNDANT OFF GAS SAMPLE FLOW ROTAMETER WILL BE INSTALLED IN EACH UNIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CAUSE • MODIFICATION • FAILURE, MAINTENANCE ERROR • OFF GAS • LEAK • BROWN'S FERRY 1 (EQUIP) • SENSORS, FLOW

000712

DAMPENING PINS INSTALLED WITHOUT PROPER REVIEW AT BROWN'S FERRY 1

IVA, CHATTANOOGA, TENN.

1 PAGE, LETTER TO ACTING DIRECTOR OF LICENSING (ARCT), JANUARY 6, 1975, DISCRET 53-259, TYPE--BWR, NRC--G.E., AE--IVA

CAUSE - PROCEDURAL INEFFICIENCY. DAMPENING PINS WERE INSTALLED IN THE MAIN STEAMLINE HIGH-FLOW PRESSURE SWITCH SENSORS WITHOUT PROPER REVIEW AND AUTHORIZATION. THE CHANGE WAS MADE TO ELIMINATE THE CAUSE OF SPURIOUS ISOLATIONS. RESPONSE TIME WAS INCREASED FROM 3.1 SECONDS TO 3.3 SECONDS FOR ONE FULL SCALE. A SAFETY ANALYSIS WAS THEN PERFORMED WHICH AUTHORIZED SNUBBER PROVIDING 1-2 SECONDS FOR ONE FULL SCALE RESPONSE. PROCEDURES FOR REVIEWING AND APPROVING MODIFICATIONS HAVE BEEN REVISED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

RESPONSE TIME • MODIFICATION • FAILURE, ADMINISTRATIVE CONTROL • SAFETY ANALYSIS • BROWN'S FERRY 1 (EQUIP) • SENSORS, PRESSURE

000900

IMPROPER SETTING ON TIME DELAY RELAY AT BROWN'S FERRY 1

IVA, CHATTANOOGA, TENN.

1 PAGE, LETTER TO NRC ACTING DIRECTOR OF LICENSING, FEBRUARY 13, 1975, DISCRET 53-259, TYPE--BWR, NRC--G.E., AE--IVA

CAUSE - MAINTENANCE ERROR. DURING TESTING WITH THE REACTOR AT RATED POWER, A MAIN SERVICE WATER PUMP START SEQUENCE TIME DELAY RELAY ACTUATED IN 6.14 SECONDS INSTEAD OF THE 13 TO 15 SECONDS REQUIRED. THE TIME DELAY SETTING ON THE RELAY WAS FOUND TO BE 6 SECONDS. DATA SHEETS RECORDED THE AS-LEFT SETTING AS 13.71 SECONDS. THE SETTING HAD APPARENTLY BEEN MOVED INADVERTENTLY SINCE THE PREVIOUS TEST. THE RELAY WAS RECALIBRATED. PROCEDURES WERE MODIFIED TO ALSO CALL FOR AS-FOUND AND AS-LEFT RELAY DIAL KNOB SETTINGS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • SET POINT • EMERGENCY COOLING SYSTEM • BROWN'S FERRY 1 (EQUIP) • RELAYS

000907

CARBON STEEL TEST LINE ON CORE SPRAY LOOP CRACKS AT BROWN'S FERRY 1

IVA, CHATTANOOGA, TENN.

2 PAGES, LETTER WITH AN REPORT 7526 TO NRC ACTING DIRECTOR OF LICENSING, FEB. 15, 1975, DISCRET 53-259, TYPE--BWR, NRC--G.E., AE--IVA

CAUSE - VIBRATION. DURING A LEAK TEST OF THE CORE SPRAY PIPING WHILE THE UNIT WAS IN COLD SHUTDOWN, A LEAK WAS DISCOVERED IN A 3/4 INCH CARBON STEEL TEST CONNECTION ON THE PUMP FLOW TEST LOOP PIPING OUTSIDE THE CONTAINMENT BOUNDARY. THE APPARENT CAUSE OF THE CRACK WAS METAL FATIGUE DUE TO VIBRATION OF THE TEST CONNECTION LINE. THE CRACK WAS WOUND OUT AND REPAIRED BY WELDING. ADDITIONAL SUPPORT WAS ADDED TO INHIBIT VIBRATION.

100777 PLANTING

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CAUSE - SPRAY + FAILURE, PIPE + TESTING + MELOS + TEST, SYSTEM OPERABILITY + VIBRATION + FAILURE, INSTALLATION
ERRORS + LEAK + BROWNS FERRY 1 (OWN) + PIPES AND PIPE FITTINGS

100266

UNPLANNED RELEASE OF GASEOUS RADIOACTIVITY FROM VENTS AT BROWNS FERRY 1 AND 2

TVA, CHATTANOOGA, TENN.

3 PAGES, LETTER TO U.S. NRC, FEBRUARY 26, 1975, DUKET 50-259/263, TYPE--DNR, NEG--G.E., AE--TVA

CAUSE - BACKFLOW FROM STACK. UNEXPECTED RADIOACTIVE MATERIAL WAS FOUND BEING RELEASED FROM THE
GROUP VENTS ON THE STANBY GAS TREATMENT BUILDING. A SMALL FLOW PATH EXISTS FOR GASES IN THE
PLANT STACK TO BACKFLOW THROUGH AT IDLE SITES AND ESCAPE THROUGH ANY LEAKAGE PATH THAT MIGHT BE
PRESENT. THE SITS WAS PUT INTO OPERATION TO STOP THE RELEASE. A DESIGN TO PREVENT BACKFLOW IS
BEING DEVELOPED. CALCULATED MAXIMUM CREDIBLE TOTAL DOSE TO A WORKER STANDING AT THE VENT FOR 40
MINUTES IS 0.01 REM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

REACTOR RELEASE + GASE CALCULATION, INTERNAL + FAILURE, DESIGN ERROR + BROWNS FERRY 2 (OWN) + BROWNS FERRY 1
(OWN) + STANBY GAS TREATMENT

100302

PREMATURE LIFT OF MAIN STEAM RELIEF VALVE AT BROWNS FERRY 1

TVA, CHATTANOOGA, TENN.

3 PAGES, LETTER WITH NO REPORT 7500 TO NRC ACTING DIRECTOR OF LICENSING, MARCH 7, 1975, DUKET 50-759, TYPE--
DNR, NEG--G.E., AE--TVA

CAUSE - PILOT VALVE LEAKAGE SUSPECTED. DURING STARTUP FOLLOWING A TRIP, A MAIN STEAM RELIEF VALVE
LIFTED AT 800 PSIG AND DID NOT RESEAT UNTIL 400 PSIG. THIS VALVE HAD BEEN MANUALLY ACTUATED
IMMEDIATELY FOLLOWING THE TRIP. THIS VALVE AND ANOTHER WHICH SHOWED ERATIC DISCHARGE
TEMPERATURES WERE REPLACED WITH SPARES. THE REACTOR WAS RESTARTED. THE OTHER RELIEF VALVES
LIFTED PREMATURELY. THEY WERE REPLACED ALSO. NITROGEN BUBBLE CHECKS IN THE REMAINING 7 VALVES
INDICATED EXCESSIVE PILOT-STAGE LEAKAGE. THESE 7 WERE REPLACED WITH SPARES. PILOT-STAGE LEAKAGE
IS SUSPECTED FOR ALL FAILURES. THE VALVES WILL BE DISASSEMBLED TO HELP DETERMINE CORRECTIVE
MEASURES TO BE TAKEN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT + STEAM + PRESSURE RELIEF + BROWNS FERRY 1 (OWN) + MAIN COOLING SYSTEM + REACTOR SHUTDOWN + BROWNS
FERRY 1 (OWN) + FAILURE, COMMON MODE + VALVES

100146

DRYWELL OXYGEN CONCENTRATION EXCEEDS 48 AT BROWNS FERRY 1

TVA, CHATTANOOGA, TENN.

2 PAGES, LETTER WITH NO REPORT 7500 TO NRC ACTING DIRECTOR OF LICENSING, MARCH 20, 1975, DUKET 50-259, TYPE--
DNR, NEG--G.E., AE--TVA

CAUSE - INCOMPLETE INITIAL MIXING. DURING A TEST WITH THE REACTOR OPERATING AT 1055 PHE, A TEST
INDICATED THAT THE DRYWELL OXYGEN CONCENTRATION WAS ABOUT 6%. TWO DAYS EARLIER, BEFORE GOING
INTO RUN MODE, READINGS INDICATED LESS THAN 48. THE INCREASE WAS APPARENTLY CAUSED BY MIXING OF
AIR FROM STAGNANT AREAS OF THE DRYWELL, SUCH AS PIPING INSULATION VOID, AND FROM A SLIGHT PURGE
AIRFLOW TO THE TIP SYSTEM. NO OTHER AIR INLEAKAGE WAS FOUND. THE UNIT WAS SHUT DOWN UNTIL THE
CONCENTRATION WAS BROUGHT BELOW 48. THE DRYWELL ATMOSPHERE WILL BE MONITORED MORE FREQUENTLY
FOLLOWING INERTING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

SAMPLING + FAILURE, ADMINISTRATIVE CONTROL + CONTAINMENT ATMOSPHERE, INERT + REACTOR SHUTDOWN + BROWNS FERRY 1
(OWN) + COMPOSITION

100305

CABLE FIRE AT BROWNS FERRY 1 AND 2

U.S. NRC, REGION 3

2 PAGES, LETTER WITH NO HULLFILL NO. 75234, MARCH 25, 1975, DUKETS 50-259/263, TYPE--DNR, NEG--G.E., AE--TVA

PRELIMINARY INFORMATION FROM TVA INDICATES THAT A FIRE WAS STARTED AS A RESULT OF CONSTRUCTION
ACTIVITIES. THE FIRE RESULTED IN THE SHUTDOWN OF 2 OPERATING REACTORS AND MADE SEVERAL SAFETY
SYSTEMS INOPERABLE, INCLUDING SYSTEMS NORMALLY USED FOR DECAY HEAT REMOVAL. DURING INSTALLATION
AND TESTING OF CABLE THROUGH-WALL PENETRATIONS AN OPEN FLAME IGNITED A FLAMMABLE MATERIAL USED
IN THE PENETRATION SEALS. ACTION IS REQUIRED OF LICENSERS WITH OPERATING FACILITIES AND MAJOR
CONSTRUCTION ACTIVITIES AT A COMMON SITE TO PREVENT A SIMILAR OCCURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

100505 OROUINGED
CHARGE \$2.00

FIRE • FAILURE, INSTALLATION ERROR • BROWN PERRY 2 (BWR) • INEXPERIENCE • ENGINEERED SAFETY FEATURE • CONTAINMENT PENETRATION, ELECTRICAL • CABLES AND CONNECTIONS • BROWN PERRY 1 (BWR) • SCRAM, SHUT • PENETRATION, PRIMARY CONTAINMENT

101426

INSUFFICIENT NUMBER OF SENIOR REACTOR OPERATORS ON SHIFT AT BROWN PERRY 1 AND 2 (CHATTANOOGA, TENN.)

IVA, CHATTANOOGA, TENN.

1 PAGE, LETTER TO NRC ACTING DIRECTOR OF LICENSING, MARCH 27, 1975, Docket 50-259, TYPE--BWR, PPG--G.E., AE--IVA

CAUSE - SCHEDULING ERROR. AN ASSISTANT SHIFT ENGINEER WITH A SENIOR LICENSE WAS ON EMERGENCY LEAVE AND WAS REPLACED BY AN ASSISTANT SHIFT ENGINEER HOLDING ONLY A REACTOR OPERATOR LICENSE. THIS LEFT THE SHIFT WITH ONLY 1 SENIOR OPERATOR INSTEAD OF THE REQUIRED 2. BOTH UNITS WERE OPERATING AT LOW POWER. THE SITUATION OCCURRED AS A RESULT OF A SCHEDULING ERROR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

LICENSE STATUS • FAILURE, ADMINISTRATIVE CONTROL • BROWN PERRY 2 (BWR) • STAFFING • BROWN PERRY 1 (BWR)

101446

CABLE TRAY FIRE CAUSES EXTENSIVE DAMAGE AT BROWN PERRY 1 AND 2

IVA, CHATTANOOGA, TENN.

1 PAGE, LETTER WITH AOR 7526 TO NRC ACTING DIRECTOR OF LICENSING, APRIL 1, 1975, Docket 50-259, TYPE--BWR, PPG--G.E., AE--IVA

CAUSE - LEAK TESTING WITH CANOLE FLAME. TO REDUCE THE AIR LEAKAGE RATE OF THE SECONDARY CONTAINMENT, PERSONNEL WERE SEALING CABLE TRAY PENETRATIONS BETWEEN THE CONTROL RAY SPREADING ROOM AND THE REACTOR BUILDING. THE CANOLE FLAME USED FOR LEAK CHECKING IGNITED THE SEALANT MATERIALS INITIATING A CABLE TRAY FIRE. THE FIRE WAS EXTINGUISHED 7 HOURS LATER. AS THE INSULATION ON CABLES BURNED AWAY, THE CABLES BECAME SHORTED AND CAUSED CAUSING EQUIPMENT MALFUNCTIONS. A FOLLOWUP REPORT WILL BE ISSUED. THE EXTENT OF DAMAGE HAS NOT YET BEEN DETERMINED. WITH UNITS TRIPPED FROM LOW POWER WITHIN 20 MINUTES OF THE START OF THE FIRE. NO REACTOR OPERATION ERRORS OCCURRED DURING THE EMERGENCY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL SYSTEM • FIRE • SCRAM, REAL • INCIDENT • FAILURE, FABRICATION ERROR • BROWN PERRY 2 (BWR) • ENGINEERED SAFETY FEATURE • CONTAINMENT PENETRATION, ELECTRICAL • EMERGENCY COOLING SYSTEM • REACTOR SHUTDOWN • CABLES AND CONNECTIONS • BROWN PERRY 1 (BWR)

102207

LPCT INJECTION VALVE FAILS AT BROWN PERRY 1

IVA, CHATTANOOGA, TENN.

2 PAGES, LETTER WITH AOR 7526 TO NRC DIRECTORATE OF NUCLEAR REACTOR REGULATION, APRIL 25, 1975, Docket 50-259, TYPE--BWR, PPG--G.E., AE--IVA

CAUSE - BOLTS FAIL. DURING VALVE OPERABILITY TESTING WITH THE UNIT IN COLD SHUTDOWN, A LPCT INJECTION VALVE FAILED TO OPERATE ELECTRICALLY. THE FOUR BOLTS SECURING THE DRIVE MOTOR TO THE VALVE BECAME LOOSE PERMITTING THE MOTOR TO VIBRATE. VIBRATION CAUSED FATIGUE FAILURE OF THE BOLTS. THE VALVE COULD BE OPERATED MANUALLY. A SPARE MOTOR WAS INSTALLED. A VISUAL INSPECTION FOR LOOSE FASTENERS AND MOTORS WAS MADE ON BOTH UNITS. IF ALL AWR VALVES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • FASTENER • TEST, SYSTEM OPERABILITY • FAILURE, FATIGUE • FAILURE, MAINTENANCE ERROR • VIBRATION • SHUTDOWN COOLING SYSTEM • BROWN PERRY 1 (BWR) • VALVES • LPCT

102803

FOLLOWUP REPORT ON RELEF VALVE FAILURES AT BROWN PERRY 1

IVA, CHATTANOOGA, TENN.

2 PAGES, LETTER WITH AOR 7536 (FOLLOWUP REPORT) TO NRC DIR. OF NUCLEAR REACTOR REGULATION, MAY 16, 1975, Docket 50-259, TYPE--BWR, PPG--G.E., AE--IVA

CAUSE - PILOT LEAKAGE. THE TARGET ROCK CRIP. RELIEF VALVES WHICH MALFUNCTIONED WERE INSPECTED. THE PILOT DISC AND SEAT OF PLV-1-4 WERE DAMAGED DUE TO STEAM LEAKAGE. THE REMAINING 10 VALVES SHOWED VARYING DEGREES OF PILOT LEAKAGE. IT APPEARED THAT THEY HAD BEEN LEAKING FOR AN EXTENDED PERIOD OF TIME. THERE WERE ACCUMULATIONS OF FOREIGN MATERIAL WHICH HAD BEEN FILTERED OUT OF THE STEAM AS IT LEAKED THROUGH THE PILOT VALVE. ALL 11 VALVES WERE REBUILT BY THE VENDOR REPRESENTATIVE AT THE PLANT. NEW SEATING SURFACES WERE MACHINED ON THE PILOT DISCS TO REMOVE DAMAGE. DISCS WERE LAPPED TO THE SEAT. NEW SECOND STAGE DISCS WERE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

102863 - CONTINUING

BRUNNEN FERRY 1 (UNIT) • OPERATOR • OPERATIONAL VALUE • MAIN ENGINE SYSTEM • START • FAILURE, EQUIPMENT • LEAK • DAMAGE • MAINTENANCE AND REPAIR

103124

JENSEN GENERATION PAIRS IN START AT BRUNNEN FERRY 1

TENNESSEE VALLEY AUTHORITY, CHATTANOOGA

2 PAGES, LETTER WITH REPORT FROM TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 20, 1975, DOCKET 50-259, TYPE--NRC, NRC--TVA

CAUSE - FIRST IN AIR START MOTORS. AN ATTEMPT WAS MADE TO START DIESEL GENERATOR A. THE STARTING VALVES ON BOTH BANKS OF STARTERS ACTIVATED NORMALLY AND THE PISTON PANS ENGAGED. THE STARTING MOTORS ON BANK 2 DID NOT TURN AT ALL AND ON BANK 1 THEY TURNED A FEW TURNS AND STOPPED. THE STARTING VALVE ON BANK 1 DID NOT RESET, PREVENTING THE AIR FROM THE AIR TANK. THE AIR TANKING MOTORS CONTAINED MUST AND JET OIL WHICH PREVENTED FREE MOVEMENT. THIS WAS EVIDENTLY CAUSED BY A FAILURE IN THE AIR SYSTEM AND INADEQUATE OPERATION OF THE LUBRICATION. THE SOLENOID VALVES AND AIR START MOTORS WERE CHECKED. LUBRICATION WILL BE IMPROVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNNEN FERRY 1 (UNIT) • BRUNNEN FERRY 2 (UNIT) • OPERATOR • DIESEL • ENGINE, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • OPERATIONAL SYSTEM • LOAD • LUBRICATION • EMERGENCY POWER, ELECTRIC

103605

SHIPS HAVE IMPROVED AT BRUNNEN FERRY 1

TENNESSEE VALLEY AUTHORITY, CHATTANOOGA

2 PAGES, LETTER WITH REPORT FROM TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 6, 1975, DOCKET 50-259, TYPE--NRC, NRC--TVA

CAUSE - LACK OF COMMUNICATION WITH THE UNIT IN CASE SHUTDOWN FOR CLEANUP FOLLOWING THE FIRE. 2 OF THE 4 SHIPS WERE INADEQUATELY MADE IMPROVED. AN ELECTRICIAN, NRC WAS ASSIGNED THE TASK OF VACUATING AND BRUSHING OUT THE CORROSION PENETRATIONS CONTAINING THE 2 SHIP CABLES. DISCONNECTED THE CONNECTORS IN THE PENETRATIONS. THE CABLES WERE RECONNECTED. THERE WAS INADEQUATE COMMUNICATION BETWEEN THE FOREMAN AND CHIEFMAN AND LACK OF PROBLEM CONTROL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNNEN FERRY 1 (UNIT) • PENETRATION, STARTUP RANGE • FAILURE, MAINTENANCE ERROR • CABLES AND CONNECTIONS • COMMUNICATION • MAINTENANCE AND REPAIR

103606

CABLE THAT FIRE CAUSES EXTENSIVE DAMAGE AT BRUNNEN FERRY 1 AND 2

TENNESSEE VALLEY AUTHORITY, CHATTANOOGA

2 PAGES, LETTER WITH REPORT TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 9, 1975, DOCKET 50-259, TYPE--NRC, NRC--TVA

CAUSE - LEAK TESTING WITH OPEN FLAME. A FIRE OCCURRED IN CABLE TRAYS IN UNITS 1 AND 2 CABLE TRAYS. THE FIRE CAUSED EXTENSIVE CABLE DAMAGE. EXTENSIVE CABLE DAMAGE RESULTED IN IMPROVABILITY OF VARIOUS SYSTEMS ON BOTH UNITS. BOTH UNITS WERE OPERATING AT FULL POWER AT THE TIME. THE FIRE RESULTED FROM USE OF A CANDLE TO DETECT LEAKS THROUGH CABLE PENETRATIONS. RESULTS OF FIRE TESTS, MADE PRIOR TO STARTUP OF EITHER UNIT, INDICATED THAT FIRE PROPAGATION THROUGH A PENETRATION WAS AN UNLIKELY EVENT. AN HISTORICAL REVIEW OF THE DESIGN REQUIREMENTS IS GIVEN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNNEN FERRY 1 (UNIT) • BRUNNEN FERRY 2 (UNIT) • FIRE • CONTAINMENT PENETRATIONS, ELECTRICAL • CABLES AND CONNECTIONS • INSULATION • CONTROL SYSTEM • REACTOR SHUTDOWN • SCRAM, REAR • INCIDENT • FAILURE, MAINTENANCE ERROR • SUPPORT STRUCTURE • PENETRATIONS, PRIMARY CONTAINMENT

103529

CUMULATIVE IN RAINWATER EXCEEDS CONTROL STATION VALUE AT BRUNNEN FERRY STATION

TENNESSEE VALLEY AUTHORITY, TN

2 PAGES, REPORT TO NRC DIVISION OF REACTOR LICENSING, SEPT. 3, 1975, DOCKET 50-259/250/295, TYPE--NRC, NRC--G.E., NRC--TVA

CAUSE - UNUSUAL WEATHER CONDITIONS. TWELVE RAINWATER SAMPLES WERE TAKEN FROM 12 DIFFERENT LOCATIONS ON RAIN 4 AND 5. THE CUMULATIVE CONCENTRATION IN ONE WAS ABOUT 6 TIMES THAT OF THE CONTROL STATION. ALL OTHER VALUES WERE LOW. EXHAUSTS FROM THE STATION HAD BEEN HIGHER THAN NORMAL BUT NEVER EXCEEDED REPORTABLE LEVELS. SAMPLES DURING THE WEEK 2 WEEKS WERE NORMAL. IT IS BELIEVED THAT CUMULATIVE RELEASED FROM THE STATION WAS CAUGHT UP BY A PASSING STORMCLOUD AND WASHED OUT IN THE AIRS AREA. THIS WAS A UNUSUAL PHENOMENON.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNNEN FERRY 1 (UNIT) • BRUNNEN FERRY 2 (UNIT) • BRUNNEN FERRY 3 (UNIT) • OPERATOR • MAINTENANCE PROGRAM

100624 PLANTING
ENVIRONMENTAL • OCCIDENT • AIRBORNE RELEASE • SAMPLING

100647
WATER PUMP IN SERVICE WITHOUT BEING AUTOMATICALLY AVAILABLE AT BROWNS FERRY 1
TENNESSEE VALLEY AUTHORITY, TVA.
1 PAGE, LETTER WITH REPORT 7536 TO ACTING DIRECTOR OF NUCLEAR REACTOR REGULATION, JAN. 23, 1975, DOCKET 50-259, TYPE--
BWR, NRC--G.E., AE--TVA

CAUSE - FAILURE TO FOLLOW WORK INSTRUCTIONS. WHILE PUMP FROM BOTH UNITS WAS STOPPED IN THE SPENT
FUEL PANS, THE AIR SERVICE WATER PUMP WAS RUNNING TO SUPPLY WATER TO THE NORTH EMERGENCY
EQUIPMENT COOLING WATER HEATER. IT DID NOT HAVE DIESEL GENERATOR POWER AVAILABLE AUTOMATICALLY
AS REQUIRED. PLANT MODIFICATIONS WERE IN PROGRESS THAT CHANGED THE CONTROL AND POWER SUPPLIES
TO THE WASH PUMPS. INSTRUCTIONS SPECIFIED THAT WASH IN ONE PHASE BE COMPLETED AND TESTED
BEFORE PROCEEDING TO THE NEXT PHASE. THESE INSTRUCTIONS WERE VIOLATED. PERSONNEL INVOLVED IN
THIS ERROR WERE REQUIRED TO ATTEND RETRAINING CLASSES. A PUMP WRITING REQUIREMENTS WAS PLACED
IN SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 130 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BROWNS FERRY 1 (BROWNS FERRY 1) • FREQUENCY POWER, ELECTRIC • PUMPS • AUXILIARY COOLING • MAINTENANCE AND REPAIR •
FAILURE, MAINTENANCE ERROR • MODIFICATION • PROCEDURES AND MANUALS

099199
ACIC FAILS TO OPERATE AT BROWNS FERRY 2
TVA, CHATTANOOGA, TENN.
1 PAGE, LETTER TO ACTING DIRECTOR OF LICENSING, JANUARY 17, 1976, DOCKET 50-263, TYPE--BWR, NRC--
G.E., AE--TVA

CAUSE - RESISTOR FAILURE. A TURBINE TRIP HAD JUST BEEN INITIATED AT FULL LOAD AS PART OF STARTUP
TESTING. ACIC WAS INITIATED FOLLOWING THE SCRAM AND IMMEDIATELY TRIPPED. THERE WAS NO SPEED
INDICATION BUT STEAM FLOW WAS OBSERVED. A DRIPPING RESISTOR WAS OPEN CIRCUITED IN THE RESISTOR
BOX WHICH PROVIDES A 40-VOL PUMP SUPPLY FOR THE ECM CONTROL BOX. THE ECM CONTROL BOX WAS UNABLE
TO GIVE THE CONTROL VALVE A CLOSING SIGNAL RESULTING IN AN OVERSPEED TRIP. THE RESISTOR WAS
REPLACED AND VOLTAGE TO THE ECM CONTROL BOX VERIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 130 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, COMPONENT • CONTROL SYSTEM • CONTAINMENT ISOLATION • REACTION STARTUP EXPERIENCE • TEST, SYSTEM
OPERABILITY • BROWNS FERRY 2 (BROWNS FERRY 2) • COILING • ELECTRONIC FUNCTION UNITS

093200
ACIC TURBINE TRIPPING DURING OPERATION AT BROWNS FERRY 2
TVA, CHATTANOOGA, TENN.
1 PAGE, LETTER TO NRC ACTING DIRECTOR OF LICENSING, JANUARY 26, 1976, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--
TVA

CAUSE - MISPOSITION OF OVERSPEED LINKAGE. THE UNIT WAS IN HOT SHUTDOWN WITH THE ACIC BEING
OPERATED TO REMOVE DELAY HEAT FROM THE REACTOR. THE ACIC TRIPPED. MOVEMENT OF THE OVERSPEED
LINKAGE ALLOWED THE TURBINE TO BE RESET AND MANUALLY STARTED. THE MECHANICAL OVERSPEED EMERGENCY
TAPPET NUT HAD ROTATED OUT OF ALIGNMENT RESULTING IN THE TRIP. THE NUT WAS PROPERLY ALIGNED AND
LINKAGES CHECKED FOR FREEDOM OF MOVEMENT. SET SCREWS WERE TIGHTENED. THE ACIC WAS INOPERABLE
FOR 25 MINUTES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 130 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CONTAINMENT ISOLATION • FASTENER • REACTOR STARTUP EXPERIENCE • FAILURE, MAINTENANCE ERROR • BROWNS FERRY 2
(BROWNS FERRY 2) • TURBINE • COILING

093564
RELIEF VALVE OPERATES SPONTANEOUSLY SEVERAL TIMES AT BROWNS FERRY 2
TVA, CHATTANOOGA, TENNESSEE
2 PAGES, LETTER WITH REPORT 7536 TO ACTING DIRECTOR OF LICENSING, JANUARY 29, 1975, DOCKET 50-260, TYPE--
BWR, NRC--G.E., AE--TVA

CAUSE - PILOT LEAKAGE. DURING POWER ASCENSION, A MAIN STEAM RELIEF VALVE OPERATED SEVERAL TIMES
WHILE REACTOR PRESSURE WAS NORMAL. BOTH SECOND-STAGE AND PILOT-STAGE LEAKAGE WAS FOUND. THE
PILOT-STAGE LEAKAGE RESULTED FROM AN INDENTATION IN THE SEAT AND DISC. IT APPEARS THAT THE
PILOT CLOSED ON A FOREIGN OBJECT. NO FOREIGN MATERIAL WAS FOUND. THE RELIEF VALVE WAS REPLACED.
REPAIRS WERE MADE TO THE VALVE THAT WAS REMOVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 130 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

OPERATION • STEAM • LEAK • PRESSURE RELIEF • DAMAGE • MAIN COOLING SYSTEM • BROWNS FERRY 2 (BROWNS FERRY 2) • LEAK •
VALVES

095521
 BRIDGE PATERSON SMOKE ARRESTORS FAIL AT BRIGGS PERRY 2
 TVA, CHATTANOOGA, TENN.
 3 PAGES, LETTER WITH AN REPORT FROM TO NRC ACTING DIRECTOR OF LICENSING, JANUARY 31, 1975, DOCKET 50-262, TYPE--
 SMO, REF--G... AT--TVA

CAUSE - SEAL FAILURES. DURING AN INSPECTION OF ALL BRIDGEMAN AND BRIDGE PATERSON SMOKE ARRESTORS WITH THE REACTION IN COOL SHUTDOWN, BRIDGE PATERSON UNITS WERE FOUND WITH AN UNACCEPTABLE LOW OIL LEVEL. ON 2 UNITS A SMALL NICK WAS FOUND IN THE SEALING SURFACE TO THE ACCUMULATED PISTON SEAL. THE OTHER 2 UNITS CONTAINED SEALS THAT HAD NOT BEEN REPLACED, THROUGH ERROR, DURING THE REBUILDING PROGRAM. THESE SEALS HAD DETRIMENTED. ALL FAILED SEALS WERE REPLACED AND THE UNITS RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SMOKE ARRESTOR + FAILURE, MAINTENANCE ERROR + SEAL + SUPPORT STRUCTURE + BRIGGS PERRY 2 (SMO) + SURVEILLANCE PROGRAM + LEAK + BACKFIT + PIPES AND PIPE FITTINGS

095691
 POWER SUPPLY TO 4 KV SHUTDOWN BOARD BUS LOST AT BRIGGS PERRY 2
 TVA, CHATTANOOGA, TENN.
 3 PAGES, LETTER WITH AN REPORT FROM TO NRC ACTING DIRECTOR OF LICENSING, FEB. 1, 1975, DOCKET 50-262, TYPE--
 SMO, REF--G... AT--TVA

CAUSE - PROCEDURAL EFFICIENCY. WITH UNIT 1 IN COOL SHUTDOWN AND UNIT 2 AT 55% POWER, UNIT 250-W BATTERY BOARD 1 WAS ISOLATED FROM ALL PLANT LINES FOR BATTERY DISCHARGE TEST. LATER, AN INVESTIGATION OF AN ALARM REVEALED THAT THE EMERGENCY CONTROL BUS IN 4-KV SHUTDOWN BOARD D WAS VERNERIFIED. THIS REQUIRED AUTOMATIC STARTING CAPABILITY OF SEVERAL PUMPS. CONTROL VOLTAGE WAS IMMEDIATELY RESTORED TO THE EMERGENCY BUS. THE TEST INSTRUCTION DID NOT CONTAIN A SPECIFIC STEP FOR TRANSFERRING THE 250 VOL POWER SUPPLY TO 4 KV SHUTDOWN BOARD D EMERGENCY CONTROL BUS BEFORE THE TEST. PROCEDURES WERE MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL SYSTEM + ALARM, PWR + PROCEDURES AND MANUALS + ELECTRIC POWER + TEST, SYSTEM OPERABILITY + FAILURE, ADMINISTRATIVE CONTROL + BRIGGS PERRY 2 (SMO) + CONTROL PANEL/ROOM + EMERGENCY CONTROL SYSTEM + BATTERIES & CHARGERS

100336
 LOSS OF 120 V POWER SUPPLY TO SEVERAL INSTRUMENTS AT BRIGGS PERRY 2
 TVA, CHATTANOOGA, TENN.
 3 PAGES, LETTER WITH AN REPORT FROM TO NRC ACTING DIRECTOR OF LICENSING, MARCH 3, 1975, DOCKET 50-262, TYPE--
 SMO, REF--G... AT--TVA

CAUSE - SELECTOR SWITCH MISPOSITIONED. WHILE THE REACTOR WAS OPERATING AT 107% PWR, ALARMS SOUNDED FOR SUPPRESSION POOL LEVEL ABNORMAL AND CONTAINMENT SPRAY INITIATION. INDICATIONS WERE LOST FOR SUPPRESSION POOL LEVEL AND OUTLET PRESSURE. A SELECTOR SWITCH IN 4-KV SHUTDOWN BOARD ROOM WAS IN THE OFF POSITION. THIS SWITCH IS LOCATED IN A LOCKED ROOM WHERE ACCESS IS NOT PERMITTED WITHOUT AUTHORIZATION OF THE SHIFT ENGINEER. NO EVIDENCE CAN BE FOUND THAT THIS ROOM WAS UNLOCKED AND ENTERED AT THE TIME OF THIS OCCURRENCE. THERE WAS NO POSSIBILITY OF THE SWITCH MOVING POSITIONS OF ITS OWN ACCORD. THE SWITCH WAS TURNED TO ON.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ELECTRIC POWER + INSTRUMENTS, SWITCH + BRIGGS PERRY 2 (SMO) + CONTROL PANEL/ROOM + EMERGENCY CONTROL SYSTEM + SECURITY

100608
 INTERIM REPORT ON VALVE YORE NEED FAILURES AT BRIGGS PERRY 2 AND 3
 TVA, CHATTANOOGA, TENN.
 2 PAGES, LETTER WITH ENCLOSURE TO NRC OFFICE OF INSPECTION & ENFORCEMENT, MARCH 17, 1975, DOCKETS 50-260/266, TYPE--
 SMO, REF--G... AT--TVA

CAUSE - DESIGN EFFICIENCY. CONTINUED TESTING INDICATES THAT A VIBRATION PROBLEM IS BELIEVED TO BE THE CAUSE OF FAILURE OF THE WELD BETWEEN THE YORE AND YOTON MOUNTING PLATE FOR FLOW CONTROL VALVES AND PERHAPS CERTAIN OTHER RELATED PROBLEMS. VIBRATION IS CAUSED BY AN EXCESSIVE PRESSURE DROP ACROSS THE FLOW CONTROL VALVE WHEN THE DISCHARGE INTO THE SUPPRESSION CHAMBER. THE LOW DOWNSTREAM PRESSURE IS A CONTRIBUTING FACTOR. TESTS WILL BE MADE IN UNIT 3 BEFORE FINAL ACTION IS DETERMINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

TESTING + NEEDS + CONTROL + REACTOR STARTUP EXPERIENCE + FAILURE, DESIGN ERROR + PRESSURE DROP + VIBRATION + BRIGGS PERRY 2 (SMO) + FLOW + BRIGGS PERRY 3 (SMO) + VALVES

103071
 VALVE IN DRIVE WATER SUPPLY TO A CONTROL ROD DRIVE OPEN AT BROWNS FERRY 2
 TENNESSEE VALLEY AUTHORITY, CHATTANOOGA
 2 PAGES, LETTER WITH AD 7596 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 30, 1975, Docket 50-260, TYPE--
 BWR, NRG--G.E., AE--TVA

CAUSE - UNKNOWN. THE MANUAL VALVE IN THE DRIVE WATER SUPPLY ON CONTROL ROD DRIVE MODULE 50-15 WAS FOUND IN THE OPEN POSITION INSTEAD OF SHUT AS REQUIRED BY THE TEMPORARY TECH SPECS. THE UNIT WAS IN COOLD SHUTDOWN WITH THE MUSE SWITCH LOCKED IN THE SHUTDOWN POSITION. NO REASON IS KNOWN FOR THE VALVE BEING OPEN. THE VALVE WAS VERIFIED AS BEING SHUT 4 DAYS EARLIER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BROWNS FERRY 2 (BWR) • VALVES • CONTROL ROD DRIVE MECHANISMS • HYDRAULIC SYSTEM

103036
 REACTOR WATER LEVEL DECREASES BELOW NORMAL DURING TESTING AT BROWNS FERRY 2
 TENNESSEE VALLEY AUTHORITY, CHATTANOOGA
 3 PAGES, LETTER WITH AD 7596 TO NRC DIRECTORATE OF NUCLEAR REACTOR REGULATION, JUNE 16, 1975, Docket 50-260, TYPE--BWR, NRG--G.E., AE--TVA

CAUSE - ABNORMAL CONDITIONS. DURING A FUNCTIONAL TEST THAT REQUIRED INTERRUPTION OF THE RPS POWER SUPPLIES WITH THE REACTOR IN COOLD SHUTDOWN, A REACTOR SCRAM WAS INITIATED AND THE RWA LPT INJECTION VALVE ISOLATED. VALVE CLOSURE AND SUBSEQUENT OPENING OF THE MINIMUM FLOW VALVE IN THAT RWA LOOP PERMITTED THE REACTOR WATER LEVEL TO DECREASE 17 INCHES. CRD PUMP TRIPPED DUE TO A LOW SUCTION PRESSURE. THIS EVENT OCCURRED AS A RESULT OF A PROGRESSION OF STEPS CONSISTENT WITH THE PRESENT PLANT CONFIGURATION REQUIRED FOR THE FIRE RESTORATION ACTIVITIES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BROWNS FERRY 2 (BWR) • REACTOR WATER LEVEL TRANSIENT • MAINTENANCE AND REPAIR • TEST, SYSTEM OPERABILITY • ENGINEERED SAFETY FEATURE

104058
 MAIN STEAM RELIEF VALVE SECOND-STAGE STEM BREAKS AT BROWNS FERRY 2
 TENNESSEE VALLEY AUTHORITY, CHATTANOOGA
 3 PAGES, LETTER WITH AD 7596 TO NRC DIRECTORATE OF NUCLEAR REACTOR REGULATION, JULY 19, 1975, Docket 50-260, TYPE--BWR, NRG--G.E., AE--TVA

CAUSE - DESIGN DEFICIENCY. WHEN THE UNIT WAS SCRAMMED DUE TO FIRE, THE RELIEF VALVES WERE OPERATED TO RELIEVE AND CONTROL REACTOR PRESSURE. DURING SUBSEQUENT REPAIRS, THE SECOND-STAGE PISTON AND STEM LOCKNUT WERE FOUND LOOSE IN THE AIR ACTUATOR CHAMBER ON ONE VALVE. EXAMINATION SHOWED THAT THE STEM AND NUT HAD BEEN DRILLED AND PINNED TWICE. ALTHOUGH THE FRACTURE DID NOT OCCUR UNTIL THE VALVE OPERATED, THE STEM WAS OVERSTRESSED WHEN THE LOCKNUT WAS REMOVED AFTER THE INITIAL LOCKING PIN HAD BEEN DRILLED OUT. THE DRILLED THREADS READILY CREATES A WEAK LINK SITUATION. A NEW-TYPE LOCKING DEVICE WILL BE INSTALLED.

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BROWNS FERRY 2 (BWR) • VALVES • PRESSURE RELIEF • MAIN COOLING SYSTEM • FAILURE, DESIGN ERROR • FASTENER • MAINTENANCE AND REPAIR • MODIFICATION • STRESS

105102
 SUPPORTS ON RELIEF VALVE TAILPIPE DAMAGED DURING BLOWDOWN AT BROWNS FERRY 2
 TENNESSEE VALLEY AUTHORITY, CHATTANOOGA
 2 PGS, LTR W/AD 7596 TO NRC OFFICE OF E & E, REGION 2, AUG. 22, 1975, DOCKETS 50-259/260, TYPE--BWR, NRG--G.E., AE--TVA

CAUSE - DESIGN DEFICIENCY. DURING AN INSPECTION OF THE SUPPRESSION POOL FOLLOWING FAILURE OF A RELIEF VALVE TO RESEAT, 2 VERTICAL AND 1 HORIZONTAL SUPPORTS ON THE TAILPIPE OF THE RELIEF VALVE WERE FOUND TO HAVE TURN LOOSE. THE TAILPIPE DISCHARGE T SUPPORTS WERE LOOSE AND BENT. A DESIGN REVISION IS BEING CONSIDERED TO PREVENT RECURRENCE.

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BACKFIT • SUPPORT STRUCTURE • VALVES • PRESSURE RELIEF • MAIN COOLING SYSTEM • STEAM • DAMAGE • FAILURE, DESIGN ERROR • TORUS • BLOWDOWN • BROWNS FERRY 2 (BWR) • HYDRAULIC EFFECT

102996
 FINAL REPORT ON AUXILIARY SWITCHES IN BREAKER COMPARTMENTS AT BROWNS FERRY 3
 TENNESSEE VALLEY AUTHORITY
 2 PAGES, LETTER WITH ATTACHMENT TO NRC OFFICE OF INSPECTION AND ENFORCEMENT, MAY 9, 1975, Docket 50-296, TYPE--
 BWR, NRG--G.E., AE--TVA

102940 - MULTINUCLEAR

CAUSE - INSTALLATION ERROR. DURING A FUNCTIONAL TEST OF THE SHUTDOWN DEVICES, THE ARM SWITCHES OF THE SHUTDOWN DEVICES WERE FOUND TO BE OVERTRAVELLING PAST THE CLUSING PLATE AND OPENING THE SWITCH CONTACTS. THE MOVEMENT ARMS HAD NOT BEEN CONSISTENTLY SET AT THE PROPER 45 DEGREE ANGLE AND THEREFORE OVERTRAVELLED CAUSING THE SWITCH CONTACT TO OPEN. NEW ARMS HAVE BEEN INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BROWN FERRY 3 (UNIT) - CONSTRUCTION - MISWIREMENT, SWITCH - FAILURE, INSTALLATION ERROR - OVERTRAVEL - ENGINEERED SAFETY FEATURE

103476

CONCUSSION FROM MAIN STEAMLINE ISOLATION VALVE OPERATIONS AT BROWN FERRY 3

TENNESSEE VALLEY AUTHORITY, CHATTANOOGA

2 PAGES, LETTER WITH REPORT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, MAY 19, 1975, Docket 50-296, TYPE--BWR, NRC--G.E., AE--TVA

CAUSE - IMPROPER STORAGE. WHILE REPLACING SEALS IN THE MAIN STEAMLINE ISOLATION VALVE OPERATORS, THE AIR CYLINDERS ON ALL OPERATORS WERE FOUND TO BE SEVERELY CORRUDED. EACH CYLINDER CONTAINED EXCESSIVE MOISTURE AND MUST PROBABLY RESULTING FROM IMPROPER STORAGE BEFORE INSTALLATION. ALL 8 CYLINDERS WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BROWN FERRY 3 (UNIT) - CONSTRUCTION - VALVES - CONTAINMENT ISOLATION - MAIN COOLING SYSTEM - FAILURE, EQUIPMENT - CORRUSION - TRANSPORTATION AND HANDLING - VALVE OPERATORS

104492

CORE SPRAY INJECTION VALVE MOTOR BRAKE WERE IMPROPERLY AT BROWN FERRY 3

TENNESSEE VALLEY AUTHORITY, CHATTANOOGA

6 PAGES, LETTER WITH ATTACH. TO NRC OFFICE OF INSPECTION & ENFORCEMENT, JUNE 30, 1975, Docket 50-296, TYPE--BWR, NRC--G.E., AE--TVA

CAUSE - MANUFACTURER'S ERROR. WHILE PERFORMING PREOPERATIONAL TESTS, A CORE SPRAY INBOARD INJECTION VALVE LOCKED IN POSITION AND WOULD NOT WIRE OPEN OR CLOSE. THE VALVE BRAKE SOLENOID WAS SPRING HEAVILY. THE MOTOR WAS WIRED FOR 480 VOLTS, 3 PHASE, BUT THE BRAKE WAS CONNECTED WITH 2 V CONNECTIONS IN PARALLEL. THUS THE BRAKE WAS RECEIVING 480 VOLTS, 3 PHASE, ON A 240 VOLT SCHEME. THE OTHER 3 VALVES IN UNIT 3 WERE FOUND TO HAVE SOLENOID WIRES IMPROPERLY CONNECTED. THE VALVES WERE IMPROPERLY CONNECTED BY THE MANUFACTURER. THE VALVES WERE REWIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BROWN FERRY 3 (UNIT) - CONSTRUCTION - CORE SPRAY - VALVE OPERATORS - FAILURE, FABRICATION ERROR - CABLES AND CONNECTORS - TEST, SYSTEM OPERABILITY - TEST, PREOPERATIONAL - VALVES

104823

LEAK OF INTERLOCKS ON TURBINE HCOUP SUPPLY AND EXHAUST FANS AT BROWN FERRY 3

TENNESSEE VALLEY AUTHORITY, CHATTANOOGA

3 PAGES, LETTER WITH REPORT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, JULY 11, 1975, Docket 50-296, TYPE--BWR, NRC--G.E., AE--TVA

CAUSE - DESIGN DEFICIENCY. WHILE PERFORMING PREOPERATIONAL TESTS, IT WAS DISCOVERED THAT THERE WERE NO INTERLOCKS BETWEEN THE SUPPLY AND EXHAUST FANS IN THE TURBINE ROOM. THE PSAN SPECIFIES THAT THE BUILDING BE MAINTAINED AT A SLIGHT NEGATIVE PRESSURE. WITHOUT INTERLOCKS, IT IS POSSIBLE TO HAVE MORE SUPPLY THAN EXHAUST CAPACITY THUS PRESSURIZING THE BUILDING. THIS VIOLATION WAS A DESIGN DEFICIENCY. THE SUPPLY FAN FAST SPEED MODE WILL BE INTERLOCKED WITH 2 EXHAUST FANS. SLOW SPEED MODE WILL BE INTERLOCKED WITH ONE EXHAUST FAN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BROWN FERRY 3 (UNIT) - CONSTRUCTION - INSTRUMENT, INTERLOCK - PULMONES - TURBINE - BUILDING - FAILURE, DESIGN ERROR - MODIFICATION - PRESSURE, SUBATMOSPHERIC - TEST, PREOPERATIONAL - TEST, SYSTEM OPERABILITY

109649

PROVISIONS FOR PRIMARY CONTAINMENT ISOLATION FOUND INADEQUATE AT BROWN FERRY 3

TENNESSEE VALLEY AUTHORITY, CHATTANOOGA, TN

6 PAGES, LETTER WITH REPORT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, JULY 29, 1975, Docket 50-296, TYPE--BWR, NRC--G.E., AE--TVA

CAUSE - ONLY ONE VALVE IN LINE. WHILE EXAMINING DESIGN DRAWINGS OF THE DEMINERALIZED WATER SYSTEM PIPING, AN ENGINEER DISCOVERED THAT THE SYSTEM HAD ONLY A CHECK VALVE OUTSIDE THE UPWELL PENETRATION AND NO VALVE IMMEDIATELY INSIDE THE PENETRATION. A NORMALLY CLOSED HAND VALVE WILL BE ADDED IMMEDIATELY OUTBOARD OF THE CHECK VALVE. PROVISION FOR LEAK CHECKING WILL BE MADE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

107649 CONTINUED
CHARGE \$2.00

BRUNSWICK 1 (ENR) • CONSTRUCTION • PLANT/INSTRUMENT ISOLATION • OPERATIONS, PRIMARY CONTINENT • AVAILABLE
• VALVES • PIPES AND PIPE FITTINGS • CONTAINMENT PENETRATION, PIPE • FAILURE, DESIGN ERROR

103140
SEISMIC QUALIFICATION OF RELAYS AND TERMINAL CABINETS MISSING AT BRUNSWICK 1
CAROLINA POWER & LIGHT CO., NATION
3 PAGES, LETTER WITH REPORT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, MAY 9, 1975, Docket 50-324, TYPE--
ENR, NRC--G.E., AR--UECC

CAUSE - NOT STATED. A REVIEW DETERMINED THAT 373 SEISMICALLY UNQUALIFIED RELAYS HAD BEEN USED IN
IN CLASS I ELECTRICAL SYSTEMS. ONE RELAYS CAME FROM 3 DIFFERENT VENDORS. SOME TERMINATION
CABINETS AND PANELS HAD NOT BEEN SEISMICALLY ANALYZED. THE VARIOUS TYPES OF RELAYS WERE SENT
OFF SITE FOR TESTING. ANALYSIS WAS MADE OF THE TERMINATION CABINETS. ALL RELAYS AND CABINETS
UTILIZED IN CLASS I ELECTRICAL SYSTEM ARE NOW QUALIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 1 (ENR) • CONSTRUCTION • RELAYS • PLANT/INSTRUMENT • SEISMIC DESIGN • TESTING • FAILURE,
INSTALLATION ERROR • QUALITY ASSURANCE • DESIGN CRITERIA

106016
CAMERON INSPECTION NOT PERFORMED AT BRUNSWICK 1
CAROLINA POWER & LIGHT CO., NATION
4 PGS, LTR W/MT TO NRC OFFICE OF I & E, JULY 9, 1975, Docket 50-324, TYPE--ENR, NRC--G.E., AR--UECC

CAUSE - OVERSIGHT BY CONSTRUCTION PERSONNEL. QUALITY CONTROL INSPECTION WAS NOT COMPLETED ON 44
CAMERON SPICES IN THE REACTOR BUILDING PRIOR TO CONCRETE PLACEMENT DURING CLOSURE OF A TEMPORARY
OPENING. HOWEVER, THE SPICES WERE INSPECTED BY A RESPONSIBLE CIVIL CONSTRUCTION ENGINEER. HE
CHECKED SLAB ALIGNMENT AND THAT THE CAMERONS WERE COMPLETED. BASED ON AVAILABLE RECORDS, IT
WAS BEEN REASONABLY ESTABLISHED THAT THE INSTALLED CAMERONS PROVIDE STRUCTURAL INTEGRITY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 1 (ENR) • CONSTRUCTION • QUALITY ASSURANCE • CONCRETE, REINFORCED • STEEL • PANELS • TEST,
NONDESTRUCTIVE • FAILURE, INSTALLATION ERROR • CONTAINMENT INTEGRITY • STRUCTURAL INTEGRITY

106056
OFF GAS RADIATION MONITORS REMOVED FROM SERVICE AT BRUNSWICK 1
CAROLINA POWER & LIGHT CO., NATION, NC
2 PGS, LTR W/MT TO U.S. NRC, REGION II, DEC. 26, 1975, Docket 50-324, TYPE--ENR, NRC--G.E., AR--UECC

CAUSE - INSTALL A DRAIN VALVE. WITH THE REACTOR RUNNING AT 52% POWER, THE OFF GAS RADIATION
MONITORS WERE REMOVED FROM SERVICE TO INSTALL A CAPPED MOISTURE DRAIN VALVE ON THE SAMPLE CHAMBER
AT THE TUMBLE BUILDING SAMPLE STATION. THE SYSTEM WAS OUT OF SERVICE FOR 4-25 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 2 (ENR) • RADIATION MONITORS • MODIFICATION • SAMPLING • PIPES AND PIPE FITTINGS

093607
RE-AY MODULE FAILS IN REACTOR MANUAL CONTROL SYSTEM AT BRUNSWICK 2
CAROLINA POWER & LIGHT COMPANY
7 PAGES, LETTER WITH EVENT REPORT TO DIRECTORATE OF REGULATORY OPERATIONS NRC, REGION 2, JANUARY 29, 1975,
Docket 50-324, TYPE--ENR, NRC--G.E., AR--UECC

CAUSE - DEFECTIVE ELECTRICAL CONNECTION. DURING TESTING PRIOR TO FUEL LOADING, THE RE-SELECT
INTERLOCK ON 4 CONTROL RODS WAS FOUND TO HAVE FAILED. ONE PIN IN A CONNECTOR HAD LOST THE
MECHANICAL CONNECTION WITH THE COPPER BUS TO WHICH IT IS NORMALLY ATTACHED. A TIGHT-POINT TOOL
WAS USED TO RESTORE CONTINUITY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, COMPONENT • CONTROL SYSTEM • INSTRUMENT, INTERLOCK • REACTOR STARTUP EXPERIENCE • FAILURE,
FABRICATION ERROR • TEST, SYSTEM OPERABILITY • BRUNSWICK 2 (ENR) • RELAYS • CONTROL ROD DRIVE MECHANISMS

100422
FAILURE TO PERFORM TEST ON SOURCE RANGE MONITORS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO.
3 PAGES, LETTER WITH AN REPORT 75/2 TO U.S. NRC, REGION 2, FEBRUARY 27, 1975, Docket 50-324, TYPE--ENR, NRC--
G.E., AR--UECC

100022 - CONTINGENCY

CAUSE - PROBABLY DEFICIENCY. THE REQUIRED SURVEILLANCE ON SOURCE RANGE MONITORS WAS NOT PERFORMED AFTER PERFORMING LINE ALTERATIONS. SURVEILLANCE WAS COMPLETED PRIOR TO THE START OF THE SPECIAL TEST PROCEDURE BUT, DUE TO ANTICIPATED DELAYS IN COMPLETING THE TEST, REQUIRED SURVEILLANCE WAS NOT PERFORMED. THE SPECIAL TEST PROCEDURE DID NOT MENTION THIS REQUIREMENT. PROCEDURES HAVE BEEN MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PROCEDURES AND MANUALS • TESTING • REACTOR STARTUP EXPERIENCE • FAILURE, ADMINISTRATIVE CONTROL • INSTRUMENT, STARTUP RANGE • TEST INTERVAL • BRUNSWICK 2 (BRN)

100071

SECURITY CONTAINMENT INTEGRITY NOT MAINTAINED AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

3 PAGES, LETTER WITH AIR REPORT 7573 TO U.S. NRC, REGION 2, MARCH 17, 1975, Docket 50-324, TYPE--BWR, NRC--

AE--URPL

CAUSE - CONSTRUCTION DEFICIENCY. WHILE PRESSURIZING THE REACTOR SYSTEM PRIOR TO INITIAL CRITICALITY, A SURVEILLANCE TEST TO VERIFY SECONDARY CONTAINMENT INDICATED EXCESSIVE AIR INFLUX. DEPRESSURIZATION WAS INITIATED. EMPERAGE WAS THROUGH REACTOR BUILDING PENETRATION CAUSING THROUGH WITH NEW ELECTRICAL CABLES HAD BEEN RUN. THE SPACE BETWEEN CABLES AND SLEEVES HAD NOT BEEN RESEALING. RESPONSIBLE PERSONNEL DID NOT TAKE THIS INTO ACCOUNT PRIOR TO THE TEST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT INTEGRITY • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • FAILURE, INSTALLATION ERROR • CONTAINMENT PENETRATION, ELECTRICAL • LEAK • BRUNSWICK 2 (BRN) • TEST, LEAK

100100

HPCL VALVE OPERATION FAILS AT BRUNSWICK 2

CAROLINA POWER & LIGHT COMPANY

2 PAGES, LETTER WITH AIR REPORT 7576 TO U.S. NRC, REGION 2, APRIL 5, 1975, Docket 50-324, TYPE--BWR, NRC--G.E.,

AE--URPL

CAUSE - PINCHED WIRE. DURING A QUICK START TEST OF HPCL, AFTER RUNNING NORMALLY AT RATED FLOW, A LOW FLOW ALARM WAS RECEIVED. THE HPCL PUMP DISCHARGE VALVE WAS FOUND TO BE FULLY CLOSED AND THE VALVE FUSES BLOWN. A PINCHED WIRE RESULTED IN A VALVE MOTOR OPERATOR SHUTTING WHICH CAUSED THE VALVE TO CLOSE. THE WIRE WAS REPAIRED AND THE VALVE RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • FAILURE, INSTALLATION ERROR • BRUNSWICK 2 (BRN) • CABLES AND CONNECTORS • VALVE OPERATIONS • VALVES • HPCL

100190

LOSS OF OFF SITE POWER AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

3 PAGES, LETTER WITH AIR 7575 TO U.S. NRC, REGION 2, APRIL 9, 1975, Docket 50-324, TYPE--BWR, NRC--G.E., AE--

URPL

CAUSE - SINGLE PHASE TO GROUND FAULT. WITH THE REACTOR IN COLD SHUTDOWN WITH OFF SITE POWER BEING FED FROM FIVE 230 KV SOURCES, A RECTOR LINE FAULT RESULTED IN A COMPLETE LOSS OF OFF SITE POWER. THE EMERGENCY GENERATORS OPERATED PROPERLY. THE INCIDENT WAS INITIATED BY A SINGLE PHASE TO GROUND FAULT ON ONE LINE. THE BUSES FOR BOTH REACTORS HAD BEEN TIED TOGETHER UNTIL COMPLETION OF UNIT 1. THIS RESULTED IN DOUBLE GROUNDING OF THE SYSTEM. WHEN A FAULT OCCURRED, THE DOUBLE GROUND CAUSED THE BUS DIFFERENTIAL CT CIRCUIT TO TRIP THE DIFFERENTIAL RELAY. A LOOSE CONNECTION IN THE TEMPORARY BUS DIFFERENTIAL CT CIRCUIT WAS A CONTRIBUTING FACTOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ACCIDENT, LOSS OF POWER • ELECTRIC POWER • REACTOR STARTUP EXPERIENCE • FAILURE, MAINTENANCE ERROR • OFF SITE • BRUNSWICK 2 (BRN)

100192

INCOMPLETE RECORD FOR REACTOR UNDER LINE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

3 PAGES, LETTER WITH AIR REPORT 7577 TO U.S. NRC, REGION 2, APRIL 9, 1975, Docket 50-324, TYPE--BWR, NRC--G.E.,

AE--URPL

CAUSE - MISINTERPRETATION OF SPECS. A REVIEW OF WLF EXAMINATION RECORDS FOR THE REACTOR DRAIN LINE REVEALED THAT RECORDS OF SHOP INSPECTIONS (SFI) OF SOME LINE SECTIONS WERE NONEXISTENT. A FATIGUE ANALYSIS WAS PERFORMED IN ACCORDANCE WITH ASME SECTION III, AND THE LINE QUALIFIED FOR CONTINUED SERVICE. THE LINE SUPPLIER HAD MISINTERPRETED THE SPECIFICATIONS AND FAILED TO PERFORM THE SPECIFIED VOLUMETRIC NDE EXAMINATIONS.

102154 *CONTINUED

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

LUDES AND STANDARDS • REACTOR STARTUP EXPERIENCE • FAILURE, FABRICATION ERROR • TEST, NONDESTRUCTIVE • COOLANT PURIFICATION SYSTEM • BRUNSWICK 2 (BNR) • ULTRASONICS • PIPES AND PIPE FITTINGS

102149

RCS BYPASSED FOR CONTROL ROD EXERCISE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

4 PAGES, 1 LETTER WITH ADR 75-6 TO U.S. NRC, REGION 2, APRIL 11, 1975, Docket 50-324, TYPE--BNR, NRC--G.E., AE--UECC

CAUSE - OPERATION OVERSIGHT. SEVERAL END TEMPERATURES WERE ABOVE THEIR NORMAL OPERATING LIMIT AND RISING. INCREASING COOLING WATER FLOW DID NOT BRING THEM BACK INTO A NORMAL RANGE. THE CRO'S REQUIRED EXERCISING TO CORRECT THE PROBLEM. SINCE THE A.S. WAS IN OPERATION, WITHDRAWN RODS ABOVE 50% ROD DENSITY HAD TO BE BYPASSED TO THE FULL IN POSITION BEFORE THE CRO'S COULD BE EXERCISED. THE OPERATORS ON DUTY WERE NOT AWARE THAT THIS VIOLATED CURRENT TECH SPECS. AFTER THE RODS WERE WITHDRAWN FROM POSITION 46 TO POSITION 36 AND RETURNED, TEMPERATURES DECREASED BELOW 200 F. A TECH SPEC CHANGE TO PERMIT THIS HAS BEEN REQUESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL SYSTEM • FAILURE, OPERATOR ERROR • REACTOR STARTUP EXPERIENCE • BYPASS • BRUNSWICK 2 (BNR) • THERMAL TRANSIENT • CONTROL ROD DRIVE MECHANISMS

102445

INCOMPLETE RECORDS FOR INSTRUMENT LINES AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

3 PAGES, 1 LETTER WITH ADR 75-8 TO U.S. NRC, REGION 2, APRIL 18, 1975, Docket 50-324, TYPE--BNR, NRC--G.E., AE--UECC

CAUSE - SPECS OMITTED FROM PURCHASE ORDER. DURING A ROUTINE DOCUMENTATION REVIEW, IT WAS DISCOVERED THAT 60 FT OF PIPE USED IN THE MAIN STEAM LINE FLOW INSTRUMENT SENSING LINES HAD BEEN PURCHASED WITHOUT OBTAINING THE REQUIRED ULTRASONIC INSPECTION. THE SPEC REQUIREMENT WAS INADVERTENTLY OMITTED FROM THE PURCHASE ORDER. RESULTS OF A FATIGUE ANALYSIS WAS USED TO QUALIFY THE LINE FOR CONTINUED SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • PIPES AND PIPE FITTINGS • CERTIFICATION • TEST, NONDESTRUCTIVE • ULTRASONICS • FAILURE, ADMINISTRATIVE CONTROL • REVIEW • REACTOR STARTUP EXPERIENCE • INSTRUMENTS, MISC. • SENSORS, FLOW

102484

COOLDOWN RATE EXCESSIVE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

4 PAGES, 1 LETTER WITH ADR 75-10 TO U.S. NRC, REGION 2, APRIL 29, 1975, Docket 50-324, TYPE--BNR, NRC--G.E., AE--UECC

CAUSE - OPERATOR ERROR. AFTER SCRAMMING THE REACTOR BECAUSE OF HIGH CONDENSER METALL CONDUCTIVITY, THE SUBSEQUENT COOLDOWN RATE OF THE REACTOR WAS 130 F FOR THE FIRST HOUR WHICH EXCEEDS THE 100 F/HR LIMIT. IN AN EFFORT TO ENSURE MAINTAINING REACTOR WATER LEVEL, A REACTOR FEED PUMP WAS UTILIZED WHILE RCL WAS IN OPERATION. DECAY HEAT WAS NEGLIGIBLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • THERMAL TRANSIENT • MAIN COOLING SYSTEM • COOLING • FAILURE, OPERATION ERROR • REACTOR STARTUP EXPERIENCE

102495

SET POINT ERROR FOUND ON 408 STEAM LINE HIGH FLOW AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

3 PAGES, 1 LETTER WITH ADR 75-12 TO U.S. NRC, REGION 2, APRIL 29, 1975, Docket 50-324, TYPE--BNR, NRC--G.E., AE--UECC

CAUSE - SET POINT NOT GIVEN. WHILE RESEARCHING THE BASIS FOR THE 1408 STEAM LINE HIGH FLOW ISOLATION, IT WAS FOUND THAT 408 STEAM LINE HIGH FLOW WAS SET TOO HIGH AT 75% FLOW. THE SET POINT HAD NOT BEEN SUPPLIED ON THE INSTRUMENT DATA SHEET AND THE VALUES SET INTO THE INSTRUMENT APPEAR TO BE A LINEAR INTERPOLATION OF THE 1408 VALUE. A NEW SET POINT WAS CALCULATED AND PLACED ON THE INSTRUMENT DATA SHEET. FLOW SWITCHES WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, FLOW • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • SET POINT • REVIEW • REACTOR STARTUP EXPERIENCE

102013

CAROLINA POWER & LIGHT COMPANY

CAROLINA POWER & LIGHT COMPANY

3 PAGES, LETTER WITH ACR 75-10 TO U.S. NRC, REGION 2, APRIL 29, 1975, DOCKET 50-326, TYPE--BWR, NRC--G.E., AE--BWR & AE

CAUSE - OPERATOR ERROR. WHEN THE CONDUCTIVITY IN THE CONDENSER HOTWELL BEGAN INCREASING, ATTEMPTS WERE MADE TO LOCATE AND ISOLATE THE LEAK. CONDUCTIVITY CONTINUED TO INCREASE AND THE UNIT WAS SHUT DOWN FROM 11% POWER. A REACTOR FEED PUMP WAS USED TO MAINTAIN THE REACTOR WATER LEVEL. NRC WAS ALSO PLACED IN OPERATION. THIS RESULTED IN A 130 F DECREASE IN TEMPERATURE DURING THE FIRST HOUR, EXCEEDING THE 100 F/HR LIMIT. THE OPERATOR WAS MORE CONCERNED WITH WATER LEVEL THAN WITH THE COOLDOWN RATE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + COOLING + PHASE + MAIN COOLING SYSTEM + SCRAM, REAL + FAILURE, OPERATOR ERROR + REACTOR STARTUP EXPERIENCE + THERMAL TRANSIENT

102741

CAROLINA POWER & LIGHT COMPANY

CAROLINA POWER & LIGHT COMPANY

3 PAGES, LETTER WITH ACR 75-11 TO U.S. NRC, REGION 2, APRIL 29, 1975, DOCKET 50-326, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - TECH SPEC MISINTERPRETED. WITH THE REACTOR AT 6% POWER, IEC PERSONNEL REQUESTED PERMISSION TO CALIBRATE MAIN STEAM LINE HIGH RADIATION MONITORS. THIS INCLUDED BYPASSING 1/2 SCRAM AND 1/2 GROUP 1 ISOLATION WITHOUT TRIPPING THE CHANNEL. THE SHIFT SUPERVISOR INTERPRETED TECH SPEC INCORRECTLY AND GRANTED APPROVAL FOR THIS DEGRADED MODE. CALIBRATION PROCEDURES WILL BE REVISED TO DELETE THE JUMPING STEPS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + RADIATION MONITORS + INSTRUMENT CALIBRATION + PROCEDURES AND MANUALS + FAILURE, ADMINISTRATIVE CONTROL + REACTOR STARTUP EXPERIENCE

102742

CAROLINA POWER & LIGHT COMPANY

CAROLINA POWER & LIGHT COMPANY

3 PAGES, LETTER WITH ACR 75-12 TO U.S. NRC, REGION 2, APRIL 29, 1975, DOCKET 50-326, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - SET POINT NOT SUPPLIED ON DATA SHEET. WHILE RESEARCHING THE BASIS FOR THE 1408 STEAM LINE HIGH FLOW ISOLATION, IT WAS DISCOVERED THAT THE SET POINT FOR 408 STEAM LINE HIGH FLOW WAS NOT GIVEN IN THE DATA SHEETS. THE AS FOUND SET POINTS CORRESPONDED TO 756 FLOW. A NEW SET POINT WAS CALCULATED AND PLACED ON THE DATA SHEETS. FLOW SWITCHES WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + SET POINT + SENSORS, FLOW + INSTRUMENT, SWITCH + MAIN COOLING SYSTEM + STEAM + MATHEMATICAL TREATMENT + FAILURE, ADMINISTRATIVE CONTROL + REACTOR STARTUP EXPERIENCE

102902

CAROLINA POWER & LIGHT COMPANY

CAROLINA POWER & LIGHT COMPANY

11 PAGES, LETTER WITH ACR 75-13, 14, 15 TO U.S. NRC, REGION 2, MAY 16, 1975, DOCKET 50-326, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - UNKNOWN. WHILE OPERATING AT 10% POWER, RELIEF VALVE FAILED OPEN AND COULD NOT BE CLOSED. IT IS THOUGHT THAT EXCESSIVE PILOT VALVE LEAKAGE WAS THE CAUSE. THE OPERATOR FAILED TO MANUALLY SCRAM THE REACTOR IN VIOLATION OF EMERGENCY INSTRUCTIONS. WHEN AN ATTEMPT WAS MADE TO PLACE MAIN LOOP B IN SERVICE, THE SERVICE WATER SUPPLY VALVE FAILED TO OPEN, CONTACTS ON THE OPEN COIL WERE DIRTY. THE CONTACTS WERE CLEANED. DURING THE BLINDOWN, VESSEL MODERATOR TEMPERATURE DROPPED FROM 517 F TO 314 F IN 10 MINUTES. THIS EXCEEDS THE 100 F/HR LIMIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

RELIEF VALVE + PRESSURE RELIEF + MAIN COOLING SYSTEM + BLINDOWN + THERMAL TRANSIENT + FAILURE, EQUIPMENT + SHUTDOWN COOLING SYSTEM + FAILURE, OPERATOR ERROR + SCRAM, REAL + REACTOR SHUTDOWN + REACTOR STARTUP EXPERIENCE + BRUNSWICK 2 (BWR)

103141

CAROLINA POWER & LIGHT COMPANY

CAROLINA POWER & LIGHT COMPANY

9 PAGES, LETTER WITH ACR 75-16 TO U.S. NRC, REGION 2, MAY 21, 1975, DOCKET 50-326, TYPE--BWR, NRC--G.E., AE--

103141 CONTINUED
UECC

CAUSE - SOLENOID VALVE ACTUATOR. WITH THE REACTOR OPERATING AT 98 AND 600 PSIG IN THE STARTUP MODE, RELIEF VALVE 6 FAILED TO OPEN RESULTING IN A REACTOR DEPRESSURIZATION AND A COOLDOWN RATE EXCEEDING 100 F/MIN. THE SOLENOID VALVE ACTUATION ON THE RELIEF VALVE MALFUNCTIONED. IT IS POSSIBLE FOR A MOMENTARY GROUND AND DISTRIBUTED GROUNDS ON THE DC SYSTEM TO KEEP THE SOLENOID VALVE IN SAME STAGE OF OPENING UNTIL A COMBINATION OF AIR PRESSURE IN THE ACTUATOR AND STEAM PRESSURE CAUSED THE RELIEF VALVE TO LIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • VALVES • PRESSURE RELIEF • MAIN COOLING SYSTEM • STEAM • BLOWDOWN • SOLENOID • CAUD • FAILURE, FABRICATION ERROR • REACTOR SHUTDOWN • REACTOR STARTUP EXPERIENCE • ELECTRICAL CONNECTION

103493

INSTRUMENT CALIBRATED WITHOUT USING APPROVED PROCEDURES AT BRUNSWICK 2

CAROLINA POWER & LIGHT COMPANY

3 PAGES, LETTER WITH AOR 75-17 TO U.S. NRC, REGION 2, JUNE 20, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - MAINTENANCE ERROR. WHILE OPERATING AT 150 RME, THE UNIT SCRAMMED AS A RESULT OF A PRESSURE SPIKE ON THE VARIABLE LEG OF 2 LEVEL INSTRUMENTS. DURING TROUBLESHOOTING A PROBLEM WITH THE WIDE RANGE LEVEL INDICATOR, THE INSTRUMENT WAS CALIBRATED WITHOUT USING APPROVED PROCEDURES. WHEN IT WAS RETURNED TO SERVICE, THE SPIKE OCCURRED. PERSONNEL WERE INSTRUCTED TO USE ONLY APPROVED PROCEDURES WHEN CALIBRATING Q-LISTED SYSTEM COMPONENTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • INSTRUMENT CALIBRATION • SCRAM, SPURIOUS • SENSORS, LEVEL • FAILURE, MAINTENANCE ERROR • PROCEDURES AND MANUALS • REACTOR SHUTDOWN

103471

INSTRUMENT CALIBRATED WITHOUT USING APPROVED PROCEDURE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO.

3 PAGES, LETTER WITH AOR 75-17 TO U.S. NRC, REGION 2, JUNE 20, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - TECHNICIAN ERROR. WHILE TROUBLESHOOTING A PROBLEM WITH THE WIDE RANGE LEVEL INDICATOR, LOOP CALIBRATION WAS CHECKED WITHOUT USING APPROVED PROCEDURES. WHEN THE LOW SIDE OF THE TRANSMITTER WAS VALVED BACK INTO SERVICE, A PRESSURE SPIKE OCCURRED THAT SCRAMMED THE REACTOR FROM 100 POWER. ALL PERSONNEL WERE INSTRUCTED TO USE APPROVED PROCEDURES WHEN CALIBRATING Q-LISTED SYSTEM COMPONENTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • SCRAM, REAL • FAILURE, MAINTENANCE ERROR • INSTRUMENT, SWITCH • SENSORS, LEVEL • INSTRUMENT CALIBRATION • PROCEDURES AND MANUALS • REACTOR STARTUP EXPERIENCE • NOISE • REACTOR SHUTDOWN

103468

VALVE FOR RCIC STEAM LINE HIGH FLOW INSTRUMENT LEFT OPEN AT BRUNSWICK 2

CAROLINA POWER & LIGHT COMPANY

1 PAGES, LETTER WITH AOR 75-16 TO U.S. NRC, REGION 2, JULY 2, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - UNKNOWN. WHILE RUNNING THE REACTOR CORE ISOLATION COOLING SYSTEM AT RATED PRESSURE DURING THE STARTUP TEST, THE EQUALIZING VALVE FOR RCIC STEAM LINE HI FLOW INSTRUMENT WAS FOUND OPEN. THIS RENDERED THE INSTRUMENT INOPERABLE. RCIC WAS SECURED AND THE EQUALIZING VALVE WAS SHUT. NO RECORD WAS FOUND WHEN THE VALVE WAS LEFT OPEN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • VALVES • SENSORS, FLOW • CONTAINMENT ISOLATION • COOLING • INSTRUMENT, PROTECTIVE • TEST, SYSTEM OPERABILITY

103469

PERIODIC TESTS FOR MAY NOT PERFORMED AT BRUNSWICK 2

CAROLINA POWER & LIGHT COMPANY

4 PAGES, LETTER WITH AOR 75-20 TO U.S. NRC, REGION 2, JULY 2, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - TEST SCHEDULE LOST. WHILE SEARCHING FOR A SURVEILLANCE TEST THAT WAS TO BE DONE DURING MAY, IT WAS DISCOVERED THAT 16 TESTS REQUIRED BY TECH SPECS HAD NOT BEEN COMPLETED FOR MAY. THREE PAGES OF THE TEST SCHEDULE THAT IS PLACED IN DAILY SURVEILLANCE REPORT WERE LOST AND UNACCOUNTED FOR. THEREFORE, THE TESTS WERE NOT PERFORMED. THE OPERATIONS ENGINEERING AID WAS

103866 PLANT, AEC
BEEN ASSIGNED TO REVIEW THE MSR EACH WEEK DAY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (HWR) • PRETEST INTERVAL • PRETESTING • TEST, SYSTEM OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL

103870
PROCEDURES CONTROLLING RADIOACTIVE RELEASES VIOLATED AT BRUNSWICK 2
CAROLINA POWER & LIGHT COMPANY
3 PAGES, LETTER WITH ACR 75-19 TO U.S. NRC, REGION 2, JULY 2, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--UECC

CAUSE - OPERATOR ERROR. WHILE RELEASING THE CONTENTS OF FLOOR DRAIN SAMPLE TANK D, THE OPERATOR FAILED TO OBSERVE THE 70 GPM RELEASE RATE SPECIFIED ON THE RELEASE FORM. THE RELEASE OCCURRED AT 200 GPM. TECH SPEC LIMITS WERE NOT EXCEEDED. THE REACTOR WAS AT 20% POWER. THE RELEASE DRAINED 0.0275 CL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (HWR) • RELEASE RATE • WASTE DISPOSAL • WASTE DISPOSAL, LIQUID • FAILURE, OPERATOR ERROR • PROCEDURES AND MANUALS

106387
HEATUP RATE EXCEEDS THE 100 F/MR LIMIT AT BRUNSWICK 2
CAROLINA POWER & LIGHT COMPANY, RALEIGH
3 PAGES, LETTER WITH ACR 75-21 TO U.S. NRC, REGION 2, JULY 25, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--UECC

CAUSE - OPERATOR ERROR. DURING A NORMAL STARTUP, AN EXCESSIVE HEATUP RATE OF 135 F/MR AS INDICATED ON HEAR LOOP A SUNCTION TEMPERATURE RECORDER WAS ATTAINED EXCEEDING THE 100 F/MR LIMIT. WHILE ACCURATE TEMPERATURE READINGS WERE BEING LOGGED, THE RECORDER NORMALLY USED WAS UNDER MAINTENANCE. THE OPERATOR FAILED TO RECOGNIZE FROM THE DATA THAT HE WAS EXCEEDING THE HEATUP RATE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (HWR) • PHASE • TEMPERATURE • REACTOR STARTUP • FAILURE, OPERATOR ERROR • MAIN COOLING SYSTEM • THERMAL TRANSIENT • REACTOR STARTUP EXPERIENCE

104952
DIESEL GENERATOR BREAKER FAILS TO CLOSE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
3 PAGES, LETTER WITH REPORT TO NRC, REGION 2, JULY 31, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--UECC

CAUSE - UNKNOWN. WITH THE REACTOR IN STARTUP MODE, EMERGENCY DIESELS 3 AND 4 WERE MANUALLY STARTED IN PREPARATION FOR DEREGULATING BUSES 2C AND 2D. WHEN THE STARTUP TRANSFORMER WAS DEREGULATED, DG3 OUTPUT BREAKER CLOSED ONTO BUS E3 BUT DG4 OUTPUT BREAKER FAILED TO CLOSE ONTO BUS E4. THE SPECIFIC CAUSE HAS NOT BEEN DETERMINED. THE MOST PROBABLE CAUSE WAS A DIRTY BREAKER CONTACT. ALL DG CONTACTS HAVE BEEN CLEANED AND ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (HWR) • BREAKER • EMERGENCY POWER, ELECTRIC • GENERATOR, DIESEL • REACTOR STARTUP EXPERIENCE • FAILURE EQUIPMENT

104958
SECONDARY CONTAINMENT INTEGRITY LOST AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
3 PAGES, LETTER WITH AD REPORT 75-22 TO NRC, REGION 2, JULY 31, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--UECC

CAUSE - MAIN STEAM LINE SEAL FAILURE. WHILE OPERATING AT 5% POWER, STANDBY GAS TREATMENT TRAIN 2A WAS REMOVED FROM SERVICE TO REPAIR A RUBBING PAN. WHEN TRAIN 2B WAS TEST OPERATED, IT WAS FOUND THAT SECONDARY CONTAINMENT HAD BEEN VIOLATED. INVESTIGATION FOUND THAT A SITE FABRICATED RUBBER BOOT WHICH FORMS THE SEALS FOR MAIN STEAM LINE PENETRATIONS THROUGH SECONDARY CONTAINMENT HAD FAILED. SECONDARY CONTAINMENT WAS RE-ESTABLISHED BY CLOSING THE STEAM TUNNEL DOOR UNTIL THE BOOT WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (HWR) • PENETRATIONS, PRIMARY CONTAINMENT • CONTAINMENT PENETRATION, PIPE • SEAL • LEAK • TEST, SYSTEM OPERABILITY • CONTAINMENT INTEGRITY • REACTOR STARTUP EXPERIENCE

106953
 NOTING OF DIESEL GENERATOR AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 4 PGS. LETTER WITH REPORT OF NRC. REGION 2, AUG. 4, 1975, Docket 50-324, TYPE--DNR, WFG--G.E., AE--UECC

CAUSE - CONTROL POWER FUSES LOOSE. WITH THE REACTOR SHUTDOWN, THE 94 RELAY ON THE 2D TO E3 BREAKER WAS INADVERTENTLY SET, TRIPPING THE BREAKER. WITH BUS E3 DEAD, THE UC AUTOMATICALLY STARTED AND RE-ENERGIZED E3. TO RESTORE NORMAL POWER, THE 2D TO E3 BREAKER WAS CLOSED. THE UC OUTPUT BREAKER WAS GIVEN A TRIP SIGNAL BUT FAILED TO OPEN CAUSING THE UC TO MOTOR. CLOSING THE 94 INPUT BREAKER HAD ADDED THE CONTROL FUSES LOOSE RESULTING IN LOSS OF BALANCE CONTROL AND PROTECTION. FUSES WERE LOOSE IN THE FUSE BLOCK AND, UPON TIGHTENING AND REINSERTION, THE BREAKER IMMEDIATELY TRIPPED. CONTROL FUSES WERE SOLDERED INTO THE FUSE BLOCKS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + BREAKER + GENERATOR, DIESEL + INSTRUMENT, PROTECTIVE + FAILURE, DESIGN ERROR + REACTOR STARTUP EXPERIENCE + EMERGENCY POWER, ELECTRIC

106973
 DAILY JET PUMP OPERABILITY TEST NOT PERFORMED AT BRUNSWICK 2
 CAROLINA POWER & LIGHT COMPANY, N.C.
 3 PGS. LTR W/AD 75-37 TO NRC, REGION 2, AUG. 11, 1975, Docket 50-324, TYPE--DNR, WFG--G.E., AE--UECC

CAUSE - OPERATOR OVERSIGHT. WITH THE REACTOR CRITICAL AND IN STARTUP MODE, THE PERIODIC TEST ON JET PUMP OPERABILITY WAS NOT PERFORMED ONE DAY AS REQUIRED. THE DAILY SURVEILLANCE SHEET WAS INADVERTENTLY SIGNED WITHOUT PERFORMING THE TEST. THE ERROR WAS NOT DISCOVERED FOR 4 DAYS SINCE THE DATA ACCUMULATES FOR A WEEK FOR THIS TEST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + TESTING + PUMP, JET + REACTOR STARTUP EXPERIENCE + REVIEW + FAILURE, OPERATOR ERROR + PROCEDURES AND MANUALS + TEST INTERVAL

106394
 LPCI VALVE FOUND INOPERATIVE AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 2 PGS. LTR W/AD 75-26 TO U.S. NRC, REGION II, SEPT. 1975, Docket 50-324, TYPE--DNR, WFG--G.E., AE--UECC

CAUSE - GROSS PACKING LEAK. WITH THE REACTOR SHUT DOWN, A LPCI VALVE WAS FOUND INOPERATIVE. IT HAD A GROSS PACKING LEAK. THE VALVE WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + REACTOR STARTUP EXPERIENCE + VALVES + LPCI + SEAL + LEAK + FAILURE, EQUIPMENT

106441
 ADDITIONAL INFORMATION ON DAMAGE TO DIESEL GENERATOR AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 2 PGS. LTR W/SUPPL. APT ON AD 75-24 TO U.S. NRC, REGION II, SEPT. 8, 1975, Docket 50-324, TYPE--DNR, WFG--G.E., AE--UECC

CAUSE - MOTORMING. MOTORMING OF EMERGENCY DIESEL GENERATOR 3 WAS REPORTED IN AUG. 4, 1975. EXAMINATION FOUND 2 SILICON CONTROLLED RECTIFIERS AND 1 DIODE IN THE GENERATOR FIELD EXCITER CIRCUITRY TO BE SHORTED. THE MECHANICAL PORTION OF THE MOTORWIND GOVERNOR WAS LEAKING OIL AND WOULD NOT CONTROL SPEED AND LOAD PROPERLY. MOTORMING HAD DAMAGED INTERNAL SEALS. THE SCR'S, DIODES, AND GOVERNOR WERE REPLACED. THE UNIT WAS SUCCESSFULLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + GENERATOR, DIESEL + ENGINES, INTERNAL COMBUSTION + ELECTRONIC FUNCTION UNITS + SWITCH STATE DEVICE + CONTROL SYSTEM + DAMAGE + REACTOR STARTUP EXPERIENCE + FAILURE, COMPONENT

106362
 REACTOR WATER CLEANUP VALVE NOT CLOSED WHEN REQUIRED AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 3 PGS. LTR W/AD 75-28 TO U.S. NRC, REGION II, SEPT. 7, 1975, Docket 50-324, TYPE--DNR, WFG--G.E., AE--UECC

CAUSE - MISINTERPRETATION OF TECH SPECS. WITH THE REACTOR AT 55% POWER, A REACTOR WATER CLEANUP INBOARD ISOLATION VALVE FAILED TO CLOSE DURING TESTING. THE INBOARD VALVE WAS NOT CLOSED UNTIL 1 HR 20 MIN. LATER WHICH CONSTITUTES A TECH SPEC VIOLATION. OPERATORS MISINTERPRETED THE TECH SPECS BY ALLOWING THE VALVE TO REMAIN OPEN WITHOUT INITIATION OF AN ORDERLY SHUTDOWN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

100302 UNCONTAINED
BRUNSWICK 2 (BNR) • CONSTRUCTION • VALVES • CONTAINMENT ISOLATION • FAILURE, OPERATOR ERROR • COMMUNICATION
• COOLANT PURIFICATION SYSTEM

100301
RCIC REMOVED FROM SERVICE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-27 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BNR, MFG--G.E., AE--UECC

CAUSE - LEAK AROUND VALVE STEM. DURING ROUTINE SURVEILLANCE WITH THE REACTOR AT STE POWER, A STEAM LEAK WAS NOTED AROUND A GLOBE VALVE STEM. THE RCIC SYSTEM WAS TAKEN OUT OF SERVICE TO REPAIR THE VALVE STEM PACKING. THIS VIOLATED TECH SPECS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • REACTOR STARTUP EXPERIENCE • RCIC • VALVES • LEAK • SEAL • FAILURE, MAINTENANCE ERROR

100300
TESTABLE CHECK VALVES FAIL TO OPEN AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-27 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BNR, MFG--G.E., AE--UECC

CAUSE - VALVE LINKAGE IMPROPERLY ADJUSTED. WITH THE REACTOR AT SE POWER, DURING CORE SPRAY SYSTEM TESTS, TESTABLE CHECK VALVES INDICATED, FROM RIGIDITY, THAT THEY DID NOT OPEN. THE NPCL SYSTEM WAS IMPROPERLY ADJUSTED AT THE TIME. THE VALVE LINKAGES WERE IMPROPERLY ADJUSTED AT INSTALLATION. THE MECHANICAL LINKAGE FROM THE ACTUATOR TO THE VALVE SHAFT WAS RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • REACTOR STARTUP EXPERIENCE • VALVE, CHECK • TEST, SYSTEM OPERABILITY • CORE SPRAY • FAILURE, INSTALLATION ERROR

100309
RCIC VALVE PACKING GLAND FOUND TO BE LEAKING BADLY AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-29 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BNR, MFG--G.E., AE--UECC

CAUSE - PACKING DRIED OUT AND HARD. WITH THE REACTOR AT SE POWER, ROUTINE SURVEILLANCE FOUND THAT A RCIC SYSTEM VALVE PACKING GLAND WAS LEAKING BADLY. THE SYSTEM WAS REMOVED FROM SERVICE FOR VALVE REPAIR. ALL STEM PACKING WAS DRIED OUT AND HARDENED. THE PACKING WAS COMPLETELY RENEWED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • REACTOR STARTUP EXPERIENCE • VALVES • SEAL • LEAK • RCIC • TEST, SYSTEM OPERABILITY

100390
RCIC TURBINE TRIPPED FROM HIGH EXHAUST PRESSURE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-30 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BNR, MFG--G.E., AE--UECC

CAUSE - LIMB CHECK VALVE CLAPPER. WITH THE REACTOR AT SE POWER, THE RCIC TURBINE TRIPPED OUT DUE TO HIGH EXHAUST PRESSURE. THE EXHAUST LINE CHECK VALVE CLAPPER HAD BECOME DISCONNECTED FROM ITS ARM AND HAD JAMMED IN THE LINE BLOCKING EXHAUST FLOW. THE CHECK VALVE WAS REASSEMBLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • REACTOR STARTUP EXPERIENCE • RCIC • TURBINE • FAILURE, EQUIPMENT • VALVE, CHECK • FLOW BLOCKAGE • STEAM

100391
NRV VALVE FOUND INOPERATIVE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-32 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BNR, MFG--G.E., AE--UECC

CAUSE - THERMAL OVERLOAD OUT OF ADJUSTMENT. WITH THE REACTOR AT STE POWER, A NRV VALVE WAS FOUND INOPERATIVE. THE THERMAL OVERLOAD ON THE LIMITING MOTOR BREAKER WAS OUT OF ADJUSTMENT. IT WAS RECALIBRATED. THIS WAS THE SECOND FAILURE OF THIS UNIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BNR) • REACTOR STARTUP EXPERIENCE • VALVES • SHUTDOWN COOLING SYSTEM • FAILURE, INSTRUMENT • INSTRUMENT, PROTECTIVE • FAILURE, MAINTENANCE ERROR • VALVE OPERATORS

100392
RHR VALVE FOUND INOPERATIVE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-31 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DWR, NRC--G.E., AE--UEEC

CAUSE - DEFECTIVE THERMAL OVERLOAD. WITH THE REACTOR AT 33% POWER, A RHR VALVE WAS FOUND INOPERATIVE. THE THERMAL OVERLOAD ON THE LIMB TORQUE MOTOR BREAKER WAS OUT OF ADJUSTMENT. THIS WAS THE THIRD FAILURE OF THE UNIT. THE OVERLOAD UNIT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • REACTOR STARTUP EXPERIENCE • VALVES • SHUTDOWN COOLING SYSTEM • FAILURE, INSTRUMENT • INSTRUMENT, PROTECTIVE • FAILURE, MAINTENANCE ERROR • VALVE OPERATORS

100393
RHR VALVE FOUND INOPERATIVE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-33 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DWR, NRC--G.E., AE--UEEC

CAUSE - ADJUSTMENT OF THERMAL OVERLOAD. WITH THE REACTOR AT 31% POWER, A RHR VALVE WAS FOUND INOPERATIVE. THE THERMAL OVERLOAD ON THE LIMB TORQUE MOTOR BREAKER WAS OUT OF ADJUSTMENT. THE OVERLOAD UNIT WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • REACTOR STARTUP EXPERIENCE • VALVES • SHUTDOWN COOLING SYSTEM • FAILURE, INSTRUMENT • INSTRUMENT, PROTECTIVE • FAILURE, MAINTENANCE ERROR • VALVE OPERATORS

100395
SET POINT DRIFT IN IRR AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-35 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DWR, NRC--G.E., AE--UEEC

CAUSE - INSTRUMENT DRIFT. WHILE PERFORMING A REACTOR SHUTDOWN, INTERMEDIATE RANGE MONITOR C WAS FOUND OUT OF CALIBRATION. RPS CHANNEL A WAS MANUALLY TRIPPED. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE IRR WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • REACTOR STARTUP EXPERIENCE • INSTRUMENT, INTERMEDIATE RANGE • INSTRUMENT CALIBRATION • SET POINT • DRIFT • REACTOR SAFETY SYSTEM • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH

100396
TWO ADJACENT CONTROL RODS DECLARED INOPERABLE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-36 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DWR, NRC--G.E., AE--UEEC

CAUSE - BURR ON COUPLING AND LOW ACCUMULATOR PRESSURE. DURING OPEN VESSEL TESTING, 2 ADJACENT CONTROL RODS WERE DECLARED INOPERABLE. ONE HAD LOW ACCUMULATOR PRESSURE CAUSED BY A LEAK AT THE CHARGING CONNECTION. THE OTHER COULD NOT BE MOVED BECAUSE OF A BURR ON THE DRIVE COUPLING. THE FITTINGS WERE REPLACED AND THE BURR REMOVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • REACTOR STARTUP EXPERIENCE • CONTROL RODS • PRESSURE, INTERNAL • LEAK • OBSTRUCTION • CONTROL ROD DRIVE MECHANISMS • ACCUMULATORS

100397
REACTOR WATER CONDUCTIVITY EXCEEDS LIMITS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-37 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DWR, NRC--G.E., AE--UEEC

CAUSE - RHR VALVE WOULD NOT CLOSE. WITH THE REACTOR AT 20% POWER, REACTOR WATER EXCEEDED 2 MICROMHOS. THE REACTOR WATER CLEANUP SYSTEM INBOARD ISOLATION VALVE COULD NOT BE CLOSED. CONSEQUENTLY OUTBOARD ISOLATION VALVE HAD TO BE CLOSED. THE CONDUCTIVITY HAS RETURNED TO LIMITS PRIOR TO REQUIRING ANY ACTION.

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BRUNSWICK 2 (DWR) • REACTOR STARTUP EXPERIENCE • COOLANT QUALITY • COOLANT PURIFICATION SYSTEM • VALVES • CONTAINMENT ISOLATION • MAIN COOLING SYSTEM

100390

REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., INC.

2 PGS. LTR W/AD 75-30 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--WEC

CAUSE - RESIN FINES RELEASED TO REACTOR. WITH THE REACTOR AT 50 POWER, REACTOR WATER CONDUCTIVITY INCREASED TO A MAXIMUM OF 2.7 MICROMHOS. THIS RESULTED FROM RESIN FINES FROM CPO 20 PASSING INTO THE REACTOR. OPERATING THE REACTOR WATER CLEANUP SYSTEM CORRECTED THE CONDITION PRIOR TO REQUIRING FURTHER ACTION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + REACTOR STARTUP EXPERIENCE + COOLANT QUALITY + RESIN + COOLANT PURIFICATION SYSTEM + MAIN COOLING SYSTEM

100399

REACTOR WATER CONDUCTIVITY EXCEEDS LIMITS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., INC.

2 PGS. LTR W/AD 75-30 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--WEC

CAUSE - RESIN FINES RELEASED TO REACTOR. WITH THE REACTOR AT 35% POWER, REACTOR WATER CONDUCTIVITY REACHED A MAXIMUM OF 11 MICROMHOS. THE MOST PROBABLE CAUSE WAS RESIN INJECTION TO THE VESSEL RESULTING FROM FINES GENERATED BY PLUFFING THE CPO'S COUPLED WITH A FEEDWATER TRANSIENT. A REACTOR SHUTDOWN TO HOT STANDBY WAS COMMENCED. THE REACTOR WATER CLEANUP SYSTEM WAS OPERATED TO REMOVE THE FINES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + REACTOR STARTUP EXPERIENCE + COOLANT QUALITY + COOLANT PURIFICATION SYSTEM + RESIN + MAIN COOLING SYSTEM + REACTOR SHUTDOWN

100400

REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., INC.

2 PGS. LTR W/AD 75-40 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--WEC

CAUSE - RUCV VALVE FAILURES. WITH THE REACTOR AT 50 POWER, PROBLEMS WITH THE REACTOR WATER CLEANUP SYSTEM RESULTED IN REACTOR WATER CONDUCTIVITY EXCEEDING 2 MICROMHOS. A REACTOR SHUTDOWN WAS COMMENCED. HOWEVER, CHEMISTRY CAME INTO LIMITS PRIOR TO COMPLETION OF THE SHUTDOWN. VALVE FAILURES PREVENTED OPERATION OF THE REACTOR WATER CLEANUP SYSTEM. ALSO, HIGH TEMPERATURE CAUSED ISOLATION OF PUMP 20. THIS PROBLEM IS UNDER INVESTIGATION BY THE VALVE VENDOR AND THE AE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + REACTOR STARTUP EXPERIENCE + COOLANT QUALITY + FAILURE, EQUIPMENT + VALVES + COOLANT PURIFICATION SYSTEM + PUMPS + MAIN COOLING SYSTEM

100401

REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., INC.

2 PGS. LTR W/AD 75-41 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--WEC

CAUSE - RUCV VALVE PROBLEMS. WITH THE REACTOR AT 50 POWER, PROBLEMS WITH THE REACTOR WATER CLEANUP SYSTEM RESULTED IN REACTOR WATER CONDUCTIVITY EXCEEDING 2 MICROMHOS FOR 12 HOURS. RUCV FILTER 20 COULD NOT BE BACKWASHED UNTIL A VALVE WAS REPAIRED. THE PROBLEM IS BEING ANALYZED BY THE VENDOR, SUPPLIER, AND AE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + REACTOR STARTUP EXPERIENCE + COOLANT QUALITY + FAILURE, EQUIPMENT + COOLANT PURIFICATION SYSTEM + VALVES + FILTERS + MAIN COOLING SYSTEM

100402

REACTOR WATER CLEANUP SYSTEM REMOVED FROM SERVICE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., INC.

2 PGS. LTR W/AD 75-42 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--DNR, NRC--G.E., AE--WEC

CAUSE - VALVE PROBLEMS. WITH THE REACTOR AT 10% POWER, THE REACTOR WATER CLEANUP SYSTEM COULD NOT BE KEPT IN SERVICE BECAUSE NUMEROUS VALVE LEAKS HAVE REQUIRED RUCV ISOLATION FOR MAINTENANCE. THIS COMPOUNDED WITH A CONDENSER TUBE LEAK RESULTED IN CONDUCTIVITY EXCEEDING 2 MICROMHOS DURING STARTUP. THE REACTOR WAS MANUALLY SCRAMMED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

106402 PLANTING JO
BRUNSWICK 2 (SMB) + REACTOR STARTUP EXPERIENCE + COOLANT QUALITY + FAILURE, EQUIPMENT + COOLANT PURIFICATION SYSTEM + VALVES + LEAK + CONDENSER + FAILURE, TUBING + MAIN COOLING SYSTEM + REACTOR SHUTDOWN

106403
REACTOR SYSTEM REMOVED FROM SERVICE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., INC.
2 PGS, LTR WAO 75-45 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - NUMEROUS VALVE LEAKS, WITH THE REACTOR AT 58 POWER, THE REACTOR WATER CLEANUP SYSTEM COULD NOT BE KEPT IN SERVICE. THIS COMPOUNDED WITH A CONDENSER TUBE FAILURE REQUIRED THE REACTOR TO BE SHUT DOWN FOR CHEMISTRY CONSIDERATIONS. NUMEROUS VALVE LEAKS RESULTED IN HAVING TO ISOLATE REACTOR FOR MAINTENANCE. ISOLATIONS DUE TO FLOW MISMATCH CONTRIBUTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMB) + REACTOR STARTUP EXPERIENCE + COOLANT QUALITY + COOLANT PURIFICATION SYSTEM + VALVES + LEAK + MAIN COOLING SYSTEM + REACTOR SHUTDOWN + FAILURE, EQUIPMENT

106404
REACTOR WATER CLEANUP SYSTEM REMOVED FROM SERVICE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., INC.
2 PGS, LTR WAO 75-45 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - PLUM ORIFICE IMPROPERLY SIZED. WITH THE REACTOR AT 58 POWER, THE REACTOR WATER CLEANUP SYSTEM COULD NOT BE KEPT IN SERVICE BECAUSE THE PLUM ORIFICES WERE IMPROPERLY SIZED. THE REACTOR WAS SHUT DOWN FOR CHEMISTRY CONSIDERATIONS. PROPERLY DESIGNED ORIFICES WERE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMB) + REACTOR STARTUP EXPERIENCE + COOLANT PURIFICATION SYSTEM + FAILURE, DESIGN ERROR + ORIFICE + COOLANT QUALITY + MAIN COOLING SYSTEM + REACTOR SHUTDOWN

106405
REACTOR WATER CLEANUP SYSTEM TAKEN OUT OF SERVICE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., INC.
2 PGS, LTR WAO 75-45 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - IMPROPER LEAKAGE CALIBRATION. WITH THE REACTOR AT 58 POWER, THE REACTOR WATER CLEANUP SYSTEM COULD NOT BE KEPT IN SERVICE. THE LEAKAGE CALIBRATION WAS IMPROPERLY ADJUSTED. NUMEROUS ISOLATIONS RESULTED FROM SPURIOUS HIGH LEAKAGE INDICATIONS. THE REACTOR WAS SHUT DOWN FOR CHEMISTRY CONSIDERATIONS. THE LOOP WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMB) + REACTOR STARTUP EXPERIENCE + COOLANT PURIFICATION SYSTEM + LEAK RATE + INSTRUMENT CALIBRATION + INSTRUMENTS, VISC. + COOLANT QUALITY + MAIN COOLING SYSTEM + REACTOR SHUTDOWN

106406
HPCI INOPERABLE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., INC.
2 PGS, LTR WAO 75-45 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - DEFECT IN DRAIN PLUG. WITH THE REACTOR IN HOT SHUTDOWN, HPCI WAS DECLARED INOPERABLE. A DEFECTIVE PLUG ON THE INLET STEAM DRAIN TRAP RESULTED IN A LEAKAGE PATH. THE PLUG WAS REPLACED WITH A NEW ONE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMB) + HPCI + PIPES AND PIPE FITTINGS + LEAK + STEAM + FAILURE, COMPONENT + REACTOR STARTUP EXPERIENCE

106407
REQUIRED TESTING NOT PERFORMED AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., INC.
2 PGS, LTR WAO 75-45 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - SHIFT SUPERVISOR ERROR. WITH THE REACTOR IN HOT SHUTDOWN, HPCI WAS REMOVED FROM SERVICE FOR MINOR MAINTENANCE. THE SHIFT SUPERVISOR FELT THE JOB WOULD ONLY REQUIRE MINUTES TO COMPLETE AND DECIDED NOT TO PERFORM THE TESTS REQUIRED BY TECH SPECS. THE JOB REQUIRED 5.25 HOURS. PERSONNEL WERE COUNSELED TO PERFORM REQUIRED TESTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

100407 PLANTINTEGRATION
CHARGE 02.000

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + TESTING + MAINTENANCE AND REPAIR + NPIC + FAILURE, ADMINISTRATIVE CONTROL

100408
NPIC TURBINE STOP VALVE FAILED TO OPEN FULLY AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-49 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - IMPROPER ADJUSTMENT OF NEEDLE VALVES. WITH THE REACTOR AT 85 POWER, NPIC TURBINE STOP VALVE FAILED TO FULLY OPEN DURING A QUICK-START TEST. THE NEEDLE VALVES ON THE VALVE OPERATOR WERE NOT PROPERLY ADJUSTED DURING PREOPERATIONAL TESTING. THEY WERE READJUSTED SO THAT THE VALVE OPERATED AT PROPER SPEED AND STROKE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.000

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + NPIC + TURBINE + VALVES + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR

100409
NPIC MADE INOPERATIVE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-51 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - INSTALLATION OF FLANGES. WITH THE REACTOR AT 78 POWER, NPIC WAS MADE INOPERATIVE TO INSTALL FLANGES IN THE INLET STEAM TRAPS TO FACILITATE ANY FUTURE MAINTENANCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.000

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + NPIC + FAILURE, MAINTENANCE ERROR + MODIFICATION + PIPES AND PIPE FITTINGS

100410
ADS FUNCTION OF SAFETY RELIEF VALVE BLOCKED AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-52 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - MOVING OF A THERMOCOUPLE. WITH THE REACTOR IN HOT STANDBY THE ADS FUNCTION OF SAFETY RELIEF VALVE FOI3A WAS BLOCKED TO ALLOW MOVING THE LEAK DETECTION THERMOCOUPLE. THE THERMOCOUPLE WAS LOCATED TOO CLOSE TO THE VALVE SO THAT CONDUCTIVE HEAT KEPT IT IN AN ALARM CONDITION. THIS MODIFICATION CORRECTED THE PROBLEM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.000

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + VALVES + OPRESSURE RELIEF + MAIN COOLING SYSTEM + FAILURE, ADMINISTRATIVE CONTROL + MODIFICATION + THERMOCOUPLE

100411
ADS FUNCTION OF SAFETY RELIEF VALVE BLOCKED AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-53 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - MOVING THERMOCOUPLE. WITH THE REACTOR IN HOT STANDBY, THE ADS FUNCTION OF SAFETY RELIEF VALVE FOI3C WAS BLOCKED TO ALLOW MOVING THE LEAK DETECTION THERMOCOUPLE. THE THERMOCOUPLE WAS LOCATED TOO CLOSE TO THE VALVE SO THAT CONDUCTIVE HEAT KEPT IT IN AN ALARM CONDITION. THIS MODIFICATION CORRECTED THE PROBLEM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.000

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + VALVES + OPRESSURE RELIEF + MAIN COOLING SYSTEM + FAILURE, ADMINISTRATIVE CONTROL + MODIFICATION + THERMOCOUPLE

100412
MAIN STEAM SAFETY-RELIEF VALVE BELLWIS LEAKS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-54 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - SMALL GASKET LEAK. WITH THE REACTOR AT 18 POWER, THE BELLWIS LEAK DETECTOR FOR MAIN STEAM SAFETY-RELIEF VALVE FOI3A INDICATED A FAILURE. THE RELIEF BELLWIS HAD A SMALL GASKET LEAK. THE VALVE WAS REPAIRED.

100412 CONTINUED

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (NHR) • REACTOR STARTUP EXPERIENCE • VALVES • PRESSURE RELIEF • MAIN COOLING SYSTEM • STEAM • SEAL • LEAK • FAILURE, COMPONENT

100413

DIESEL GENERATOR HEAT EXCHANGER PIPE FITTING FAILS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-55 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - RUBBER LINING NOT APPLIED PROPERLY. WITH THE REACTOR AT 18 POWER, THE DRAIN VALVE PIPE STUB ON DIESEL GENERATOR 3 JACKET WATER COOLING HEAT EXCHANGER CORRODED THROUGH RESULTING IN A LEAK. THE UG WAS DECLARED INOPERATIVE FOR REPAIR. THE HEAT EXCHANGER RUBBER LINING HAD NOT BEEN APPLIED PROPERLY AT THE PIPE STUB. A NEW FITTING WAS INSTALLED AND THE RUBBER LINING APPLIED CORRECTLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (NHR) • REACTOR STARTUP EXPERIENCE • PIPES AND PIPE FITTINGS • HEAT EXCHANGERS • GENERATION, DIESEL • ENGINES, INTERNAL COMBUSTION • CORROSION • LEAK • SURFACE TREATMENT • FAILURE, FABRICATION ERROR

100414

TORUS LEVEL INDICATOR FOUND NOT FUNCTIONING AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-56 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - INADVERTENTLY UNPLUGGED FROM POWER. WITH THE REACTOR AT ZERO POWER IN THE SH MODE, A TORUS LEVEL INDICATOR WAS OBSERVED TO BE NOT FUNCTIONING. THE RECORDER HAD BEEN INADVERTENTLY UNPLUGGED FROM ITS POWER SOURCE BY PERSON OR PERSONS UNKNOWN. THE INSTRUMENT WAS PLUGGED IN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (NHR) • REACTOR STARTUP EXPERIENCE • SENSORS, LEVEL • TORUS • RECORDERS • ELECTRIC POWER • FAILURE, MAINTENANCE ERROR

100415

TORUS LEVEL INDICATOR FOUND NOT FUNCTIONING AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-57 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - DISCONNECTED FROM POWER. WITH THE REACTOR AT INITIAL CRITICALITY, A TORUS LEVEL INDICATOR WAS OBSERVED NOT FUNCTIONING. THE RECORDER HAD NOT BEEN PUT INTO SERVICE. IT WAS CONNECTED TO 110 VAC POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (NHR) • REACTOR STARTUP EXPERIENCE • SENSORS, LEVEL • TORUS • RECORDERS • ELECTRIC POWER • FAILURE, OPERATOR ERROR

100416

SOFT BLOWER FOUND TO BE RUINY AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-58 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - IMPELLER SET SCREWS LOOSE. WITH THE REACTOR AT 28 POWER, STANDBY GAS TREATMENT BLOWER 2A WAS FOUND TO BE MAKING MUCH NOISE. IT WAS REMOVED FROM SERVICE FOR REPAIR. SET SCREWS ON THE IMPELLER WERE LOOSE. THE IMPELLER WAS PROPERLY POSITIONED AND DOUBLE SET SCREWS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (NHR) • REACTOR STARTUP EXPERIENCE • STANDBY GAS TREATMENT • BLOWERS • FASTENER • FAILURE, INSTALLATION ERROR

100417

SOFT BLOWER WAS FOUND INOPERABLE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-59 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - POWER BREAKER HAD TRIPPED. WITH THE REACTOR SUB-CRITICAL, STANDBY GAS TREATMENT BLOWER 2B WAS FOUND NOT OPERATING. THE LOCAL POWER BREAKER HAD TRIPPED FOR AN UNKNOWN CAUSE. THE BREAKER WAS RESET.

106417 - CONTINUED

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + STANDBY GAS TREATMENT + WORKERS + BREAKER

106420

OXYGEN ANALYZER READING LOWER THAN INDICATORS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-71 TO U.S. NRC, REGION II, SEPT. 11, 1975. DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - TRANSMITTER OUT OF CALIBRATION. WITH THE REACTOR AT 30% POWER, AN OXYGEN ANALYZER READING WAS 4% LOWER THAN OTHER INDICATORS. ITS TRANSMITTER CALIBRATION WAS NOT WITHIN SPECIFICATION. THE ANALYZER WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + OXYGEN + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + MONITOR + FAILURE, MAINTENANCE ERROR

106418

REACTOR BUILDING ROOF VENT MONITOR FAILS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-61 TO U.S. NRC, REGION II, SEPT. 11, 1975. DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - BLOWN FUSES. WITH THE REACTOR AT 40% POWER, THE REACTOR BUILDING ROOF VENT MONITOR FLOW TRAIN FAILED. THE FUSES HAD BLOWN. NO OTHER PROBLEM WAS FOUND. THE FUSES WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + MONITORING SYSTEM, RADIATION + RADIATION MONITORS + INSTRUMENT, PROTECTIVE + FAILURE, INSTRUMENT + VENTILATION SYSTEM + BUILDING

106419

OFF GAS VENT SAMPLE PUMP BURNS OUT AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-62 TO U.S. NRC, REGION II, SEPT. 11, 1975. DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - MOISTURE IN THE MOTOR. WITH THE REACTOR AT 20% POWER, THE SAMPLE PUMP ON THE OFF GAS VENT PIPE RADIATION MONITOR BURNED OUT. MOISTURE HAD GOTTEN INTO THE MOTOR. THE MOTOR WAS REPLACED FROM STOCK.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + OFF GAS + SAMPLING + PUMPS + FAILURE, EQUIPMENT + RADIATION MONITORS + WATER + MOTORS + MONITORING SYSTEM, RADIATION

106420

REACTOR BUILDING EXHAUST VENT MONITOR FAILS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-63 TO U.S. NRC, REGION II, SEPT. 11, 1975. DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - POWER SUPPLY FAILED. WHILE REFUELING, THE REACTOR BUILDING EXHAUST VENT MONITOR, CHANNEL B, FAILED DOWNSCALE. THE POWER SUPPLY HAD FAILED. IT WAS REPLACED FROM STOCK. THIS WAS THE SECOND FAILURE OF THE POWER SUPPLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + RADIATION MONITORS + VENTILATION SYSTEM + BUILDING + ELECTRIC POWER + FAILURE, INSTRUMENT + REFUELING + MONITORING SYSTEM, RADIATION

106421

REACTOR BUILDING EXHAUST VENT MONITOR FAILS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-64 TO U.S. NRC, REGION II, SEPT. 11, 1975. DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - POWER SUPPLY FAILS. WHILE REFUELING, THE REACTOR BUILDING EXHAUST VENT MONITOR, CHANNEL B, FAILED DOWNSCALE. THE POWER SUPPLY FAILED. IT WAS REPLACED FROM STOCK.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + RADIATION MONITORS + VENTILATION SYSTEM + BUILDING +

100421 *CONTINUED
ELECTRIC POWER + FAILURE, INSTRUMENT + REPEATING + MONITORING SYSTEM, NAVIGATION

100422
RECORDER INDICATOR FAILS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-65 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NPG--G.E., AE--UECC

CAUSE - BROKEN INDICATOR GUIDE STRING. WITH THE REACTOR AT 50% POWER, RECORDER INDICATOR 2-CAC-AR-120J WAS OBSERVED TO BE NOT FUNCTIONING. THE RECORDER HAD JUST BEEN RECALIBRATED. THE INDICATOR GUIDE STRING HAD BROKEN DUE TO THE PREVIOUS OUT-OF-CALIBRATION CONDITION WHICH HAD CAUSED INDICATOR PEGGING. THE GUIDE STRING WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00J

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + PRECORDERS + FAILURE, COMPONENT + FAILURE, MAINTENANCE ERROR

100423
RECORDER INDICATOR FOUND PEGGING HIGH AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-66 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NPG--G.E., AE--UECC

CAUSE - INSTRUMENT OUT-OF-CALIBRATION. WITH THE REACTOR AT 50% POWER, RECORDER INDICATOR 2-CAC-AR-120J WAS OBSERVED TO BE PEGGING HIGH AND THE SERVO MOTOR RUNNING TOO FAST. THE INSTRUMENT WAS OUT-OF-CALIBRATION. IT WAS ADJUSTED AND RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00J

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + PRECORDERS + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + FAILURE, MAINTENANCE ERROR

100424
RECORDER INDICATOR FOUND ERRATIC AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-67 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NPG--G.E., AE--UECC

CAUSE - SERVO OUT-OF-CALIBRATION. WITH THE REACTOR AT ZERO POWER, RECORDER INDICATOR 2-CAC-AR-120J WAS OBSERVED TO BE ERRATIC AND THEN IT STOPPED FUNCTIONING. THE RECORDER SERVO MOTOR WAS OUT OF CALIBRATION CAUSING THE INDICATOR TO PEG WHICH IN TURN CAUSED THE GUIDE STRING TO BREAK. THE SERVO MOTOR WAS RECALIBRATED AND THE GUIDE STRING REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00J

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + PRECORDERS + INSTRUMENT CALIBRATION + MOTORS + FAILURE, COMPONENT + FAILURE, MAINTENANCE ERROR

100425
CONTAINMENT PRESSURE RECORDER CHART STOPS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-68 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NPG--G.E., AE--UECC

CAUSE - CHART DRIVE GEAR STRIPPED. WITH THE REACTOR AT 35% POWER, A CONTAINMENT PRESSURE RECORDER CHART STOPPED TURNING. THE CHART DRIVE GEAR HAD STRIPPED. THE GEAR WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00J

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + PRECORDERS + FAILURE, COMPONENT + SENSORS, PRESSURE + CONTAINMENT

100426
RECORDER FAILS TO RESPOND TO SIGNAL AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-69 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, NPG--G.E., AE--UECC

CAUSE - RECORDER DRIVE CABLE BROKEN. WITH THE REACTOR AT 30% POWER, RECORDER 2-CAC-AR-120J WOULD NOT RESPOND TO AN INPUT SIGNAL. THE RECORDER DRIVE CABLE HAD BROKEN. THIS IS A RECURRING PROBLEM. THE CABLE WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00J

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + PRECORDERS + FAILURE, COMPONENT + FAILURE, INSTRUMENT

100427
RECORDER FAILS TO RESPOND AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AV 75-70 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWP, NRC--G.E., AE--UECC

CAUSE - RECORDER DRIVE CABLE BROKEN. WITH THE REACTOR AT 18 POWER, RECORDER 2-CAC-AR-1261 WOULD NOT RESPOND TO AN INPUT SIGNAL. THE RECORDER DRIVE CABLE HAD BROKEN. IT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • REACTOR STARTUP EXPERIENCE • PRECURSORS • FAILURE, COMPONENT • FAILURE, INSTRUMENT

100429
OXYGEN ANALYZER INDICATOR LAMATEC AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AV 75-72 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - DIRTY SLIDE WIRE. WITH THE REACTOR AT 208 POWER, THE OXYGEN ANALYZER SECTION INDICATOR WAS OBSERVED TO BE ERRATIC. THE SLIDE WIRE IN THE RECORDER WAS DIRTY. IT WAS CLEANED AND THE WIRE SYSTEM LUBRICATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • REACTOR STARTUP EXPERIENCE • PRECURSORS • FAILURE, MAINTENANCE ERROR • FAILURE, INSTRUMENT • OXYGEN • MONITOR

100430
IODINE MONITOR FOUND TO BE READING LOW AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AV 75-73 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - POTENTIOMETER OUT-OF-ADJUSTMENT. WITH THE REACTOR AT 208 POWER, THE IODINE MONITOR WAS FOUND TO BE READING LOW. THE 25 VOLT POTENTIOMETER WAS OUT OF ADJUSTMENT. IT WAS READJUSTED AND 2 ANNUNCIATOR CARDS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR STARTUP EXPERIENCE • MONITOR • IODINE • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • FAILURE, MAINTENANCE ERROR • BRUNSWICK 2 (BWR)

100431
OXYGEN ANALYZER FOUND TO BE READING LOW AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AV 75-74 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - OUT-OF-CALIBRATION. WITH THE REACTOR AT 208 POWER, THE OXYGEN ANALYZER WAS READING LOW. THE INSTRUMENT WAS OUT OF CALIBRATION. IT WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • REACTOR STARTUP EXPERIENCE • MONITOR • OXYGEN • FAILURE, INSTRUMENT • FAILURE, MAINTENANCE ERROR • INSTRUMENT CALIBRATION

100432
RECORDER STOPPED PRINTING AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AV 75-75 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - PRINTER MOTOR FAILED. WITH THE REACTOR SHUT DOWN, RECORDER 2-CAL-1259 STOPPED PRINTING. THE PRINTER MOTOR HAD BURNED OUT. IT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • REACTOR STARTUP EXPERIENCE • PRECURSORS • FAILURE, COMPONENT • MOTORS • FAILURE, INSTRUMENT

100433
RECORDER FAILS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AV 75-75 TO U.S. NRC, REGION II, SEPT. 11, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

100433 CONTINUOUS

CAUSE - CHART DRIVE MOTOR GEARS MISALIGNED. WITH THE REACTOR SHUT DOWN, RECORDER 2-CAC-1259 BECAME ERRATIC AND THEN LOCKED UP. THE CHART DRIVE MOTOR GEARS WERE MISALIGNED AND THE RELAY SWITCH GEAR ARM FELL OUT OF THE CARTRIDGE TRACK. THE RECORDER WAS REALIGNED AND REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BRN) • REACTOR STARTUP EXPERIENCE • RECORDERS • FAILURE, EQUIPMENT • FAILURE, INSTRUMENT • FAILURE, MAINTENANCE ERROR

100434

LINE MONITOR FOUND INOPERABLE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS, LTR W/AD 75-77 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - OUT OF CALIBRATION. WITH THE REACTOR AT 94 PWR, THE LINE MONITOR WAS OBSERVED TO BE INOPERABLE. IT WAS OUT OF CALIBRATION. THE MONITOR WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BRN) • REACTOR STARTUP EXPERIENCE • MONITOR • OFFLINE • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • FAILURE, MAINTENANCE ERROR

100435

OXYGEN CONTAINMENT MONITOR FAILS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS, LTR W/AD 75-78 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - TRANSMITTER FAILED. WITH THE REACTOR JUST CRITICAL, THE OXYGEN CONTAINMENT MONITOR WAS OBSERVED TO BE BAD. THE INSTRUMENT TRANSMITTER HAD FAILED. IT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BRN) • REACTOR STARTUP EXPERIENCE • MONITOR • OXYGEN • FAILURE, COMPONENT • FAILURE, INSTRUMENT

100436

TWO RECORDERS INOPERABLE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS, LTR W/AD 75-79 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - MOISTURE SENSING LINE. WITH THE REACTOR AT 18 PWR, RECORDERS CAC-AR-1260 AND CAC-AR-1261 WERE FOUND TO BE INOPERABLE. MOISTURE IN THE SENSING LINE CAUSED THE DETECTORS TO FAIL RESULTING IN ERRONEOUS READINGS. THE SYSTEM WAS HEAT TRACED AND ONE DETECTOR REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BRN) • REACTOR STARTUP EXPERIENCE • RECORDERS • FAILURE, INSTRUMENT • WATER • TUBING • MONITOR

100437

RECORDER FOUND INOPERABLE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS, LTR W/AD 75-80 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - MOISTURE IN SENSING LINE. WITH THE REACTOR AT 18 PWR, RECORDER CAC-AR-1261 WAS FOUND INOPERABLE. THE DETECTOR FOR THE INSTRUMENT FAILED DUE TO MOISTURE IN THE SENSING LINE. THE DETECTOR WAS REPAIRED AND THE SYSTEM WAS HEAT TRACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BRN) • REACTOR STARTUP EXPERIENCE • RECORDERS • FAILURE, INSTRUMENT • FAILURE, DESIGN ERROR • MONITOR • WATER • TUBING

100442

DIESEL GENERATOR FAILS TO START AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

4 PGS, LTR W/AD 75-80 TO U.S. NRC, REGION II, SEPT. 11, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - UNKNOWN. WITH THE REACTOR AT 558 PWR, A LOAD REJECT WAS INITIATED AND RESULTED IN A REACTOR SCRAM. AUXILIARY BUSES 2C AND 2D REMAINED ENERGIZED UNTIL A DEAD BUS TRANSFER FROM THE BAT TO THE SAT WHICH THEN RESULTED IN START SIGNALS TO DIESEL GENERATORS 3 AND 4. DG 4 FAILED TO CRANK. NO CAUSE FOR THE MALFUNCTION WAS FOUND EVEN AFTER EXTENSIVE TESTING.

100442 RECONTINUED
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (04HR) + REACTOR STARTUP EXPERIENCE + GENERATION, DIESEL + ENGINES, INTERNAL COMBUSTION + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + BRUNSWICK 2 (04HR)

100330
 REACTOR WATER CONDUCTIVITY EXCEEDS LIMITS AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 2 PGS. LTR W/40 75-02 TO U.S. NRC, REGION II, SEPT. 16, 1975, DOCKET 50-324, TYPE--DNR, NFG--G.E., AE--UECC

CAUSE - HMLU SYSTEM OUT OF SERVICE. WITH THE REACTOR AT 62% POWER, THE REACTOR WATER CONDUCTIVITY ROSE TO MORE THAN 2 MICROMHOS. THE REACTOR WATER CLEANUP SYSTEM WAS ISOLATED FOR REPAIR OF LEAKS IN THE REGENERATIVE HEAT EXCHANGERS. THE REACTOR WAS SHUT DOWN WITHIN 24 HOURS AND WILL REMAIN IN SHUTDOWN UNTIL REPAIRS ARE COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (04HR) + REACTOR STARTUP EXPERIENCE + COOLANT QUALITY + REACTOR SHUTDOWN + FAILURE, EQUIPMENT + FAILURE, TUNING + COOLANT PURIFICATION SYSTEM + LEAK + HEAT EXCHANGERS

100443
 DIESEL GENERATOR FAILS TO PERFORM PROPERLY AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 2 PGS. LTR W/40 75-02 TO U.S. NRC, REGION II, SEPT. 16, 1975, DOCKET 50-324, TYPE--DNR, NFG--G.E., AE--UECC

CAUSE - FUEL OIL DRAIN VALVE OPEN. DURING TESTS ON EMERGENCY DIESEL GENERATOR 3 WITH THE REACTOR AT 41% POWER, THE GENERATOR WAS SYNCHRONIZED OUT OF PHASE RESULTING IN FAILURE OF THE EXCITER UICLES. A NEW OPERATOR WAS BEING TRAINED. AFTER BEING REPAIRED, THE D G DID NOT PERFORM PROPERLY. A DRAIN VALVE IN THE FUEL OIL SYSTEM WAS FOUND CRACKED OPEN. THIS ALLOWED AIR TO BE SUCKED INTO FUEL SYSTEM CAUSING THE ENGINE TO BE STARVED FOR FUEL AND THE MAJORITY OF THE CYLINDERS NOT TO FIRE PROPERLY. THE VALVE WAS CLOSED AND THE D G OPERATED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (04HR) + GENERATION, DIESEL + ENGINES, INTERNAL COMBUSTION + TEST, SYSTEM OPERABILITY + FAILURE, OPERATION ERROR + SHUTOFF DEVICE + FUEL, FOSSIL + VALVES + REACTOR STARTUP EXPERIENCE

102547
 SEALS ON REACTOR RECIRCULATION PUMP FAIL AGAIN AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 2 PGS. LTR W/40 75-04 TO U.S. NRC, REGION II, SEPT. 19, 1975, DOCKET 50-324, TYPE--DNR, NFG--G.E., AE--UECC

CAUSE - INADEQUATE SPRING PRESSURE. AFTER SCRAMMING FROM 40% POWER ON SEPT. 5, SEALS ON REACTOR RECIRCULATION PUMP 20 FAILED RESULTING IN 2500 GALLONS OF REACTOR COOLANT BEING DISCHARGED INTO THE DRYWELL. SEAL FAILURE RESULTED FROM INADEQUATE SPRING PRESSURE WHICH ALLOWED THE SEALS TO DE-STAGE. HOT PRIMARY COOLANT THEN REACHED THE SEALS CAUSING THE SEAL FACES TO CRACK AT THE SEAL ALIGNMENT PIN HOLE. SEALS IN BOTH PUMPS ARE BEING MODIFIED TO CORRECT THE CAUSE OF FAILURE. THIS IS THE SECOND FAILURE OF THIS TYPE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (04HR) + REACTOR STARTUP EXPERIENCE + SEAL + PUMPS + MAIN COOLING SYSTEM + LEAK + FAILURE, DESIGN ERROR + PURIFICATION + REACTOR COOLANT

102598
 SEALS ON REACTOR RECIRCULATION PUMP FAIL AT BRUNSWICK 2
 CAROLINA POWER & LIGHT CO., N.C.
 2 PGS. LTR W/40 75-03 TO U.S. NRC, REGION II, SEPT. 19, 1975, DOCKET 50-324, TYPE--DNR, NFG--G.E., AE--UECC

CAUSE - INADEQUATE SPRING PRESSURE. AFTER SCRAMMING FROM 95% POWER ON AUG. 4, SEALS ON REACTOR RECIRCULATION PUMP 20 FAILED RESULTING IN 1500 GALLONS OF REACTOR COOLANT BEING DISCHARGED INTO THE DRYWELL. SEAL FAILURE RESULTED FROM INADEQUATE SPRING PRESSURE WHICH ALLOWED THE SEALS TO DE-STAGE. HOT PRIMARY COOLANT THEN REACHED THE SEALS CAUSING THE SEAL FACES TO CRACK AT THE SEAL ALIGNMENT PIN HOLE. THE SEALS WERE REPLACED WITH ONES FROM STOCK. CAUSE OF FAILURE WAS NOT KNOWN AT THE TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (04HR) + REACTOR STARTUP EXPERIENCE + SEAL + PUMPS + MAIN COOLING SYSTEM + LEAK + FAILURE, DESIGN ERROR + REACTOR COOLANT

100602
NOTICE OF PROPOSED IMPOSITION OF CIVIL PENALTIES AT BRUNSWICK 2
NUCLEAR REGULATORY COMMISSION, WASH., D.C.
5 PGS, LTR TO CAROLINA POWER & LIGHT CO., SEPT. 23, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - SECURITY VIOLATIONS. DURING AN INSPECTION CERTAIN ACTIVITIES APPEARED TO BE IN
NONCOMPLIANCE WITH NRC REQUIREMENTS. ITEMS INCLUDE FAILURE TO IMPLEMENT AND/OR COMPLY WITH THE
SECURITY PLAN. NRC PROPOSES TO IMPOSE CIVIL MONETARY PENALTIES OF \$7000.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 2 (BWR) + SECURITY + FAILURE, ADMINISTRATIVE CONTROL + AGENCY, NRC + LEGALISTICS + ECONOMICS

100597
POSTULATED NON-SEQUENTIAL LOADING OF DIESEL GENERATORS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
4 PGS, LTR W/AD 75-86 TO U.S. NRC, REGION II, SEPT. 29, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - DEFICIENCY IN LOGIC SYSTEM. THE LOW PRESSURE PERMISSIVE FOR RHR AND CORE SPRAY LOGICS DO
NOT OCCUR SIMULTANEOUSLY. IF THE PRESSURE SWITCH CONTACTS FOR THE CORE SPRAY LOGIC OPERATE AT
THE HIGH RANGE AND THE RHR LOGIC OPERATE AT THE LOW RANGE DURING A LOSS OF OFF-SITE POWER AND
REACTOR PRESSURE DECAYS AT A SLOW RATE, RHR AND CORE SPRAY PUMPS CAN NEARLY SIMULTANEOUSLY LOAD
A DIESEL BUS. THE LOGIC SYSTEM HAS BEEN MODIFIED SO THAT THE LOW PRESSURE PERMISSIVES WILL
OCCUR SIMULTANEOUSLY IN BOTH THE CS AND RHR LOGICS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 2 (BWR) + REACTOR STARTUP EXPERIENCE + EMERGENCY POWER, ELECTRIC + ACCIDENT ANALYSIS + GENERATOR,
DIESEL + CONTROL SYSTEM + SENSORS, PRESSURE + RELAYS + FAILURE, DESIGN ERROR + PUMPS + SHUTDOWN COOLING
SYSTEM + CORE SPRAY + ELECTRIC POWER, SHUTDOWN

100601
MPCI STEAM VALVE FAILS TO CLOSE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-86 TO U.S. NRC, REGION II, OCT. 1, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - BURNER RELAY PLUNGER. WITH THE REACTOR AT 518 POWER, MPCI STEAM ISOLATION VALVE FAILED TO
OPERATE DURING A TEST. THE AUXILIARY RELAY PLUNGER WAS BROKEN. THE RELAY WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 2 (BWR) + VALVES + MPCI + STEAM + CONTAINMENT ISOLATION + TEST, SYSTEM OPERABILITY + RELAYS +
FAILURE, INSTRUMENT

100624
500T TRAP TRANSFORMER FAILS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-86 TO U.S. NRC, REGION II, OCT. 1, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - INTERNAL SHORT. WITH THE REACTOR AT 508 POWER, STANDBY GAS TREATMENT 2B TRAP TRANSFORMER
HI TEMP/GROUND ANNUNCIATOR ALARMED. THE FAN MOTOR 480V TO 115V STEP-DOWN TRANSFORMER HAD AN
INTERNAL SHORT. IT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 2 (BWR) + STANDBY GAS TREATMENT + FAILURE, EQUIPMENT + BLUNERS + TRANSFORMERS

100625
ROD BLOCK MONITOR MALFUNCTION AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS, LTR W/AD 75-86 TO U.S. NRC, REGION II, OCT. 1, 1975, DCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - DEFECTIVE MULTIPLEXER CARD. WITH THE REACTOR AT 268 POWER, ROD BLOCK MONITOR B CHANNEL
GAVE AN INSUPERATIONAL AND A ROD BLOCK INDICATION. ALSO, THERE WAS AN EXTRA LPM POWER INDICATION
ON THE RTGB WHEN AN EDGE ROD WAS SELECTED. A FIRST LEVEL MULTIPLEXER CARD WAS DEFECTIVE. IT WAS
REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

BRUNSWICK 2 (BWR) + ELECTRONIC FUNCTION UNITS + INSTRUMENT, PROTECTIVE + CONTROL ROD DRIVE MECHANISMS +
CONTROL SYSTEM + FAILURE, INSTRUMENT

100626

APPARENT LEAK IN NPCL STEAMLINE DRAIN POT TRAP AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-89 TO U.S. NRC, REGION II, OCT. 1, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - EXCESSIVE MOISTURE IN STEAM. WITH THE REACTOR AT 108 POWER, NPCL STEAMLINE DRAIN POT TRAP BOWL HAD AN APPARENT EXCESSIVE LEAK. INVESTIGATION SHOWED THAT THE DRAIN POT TRAP WAS FUNCTIONING PROPERLY. THE APPARENT LEAKAGE WAS EXCESSIVE MOISTURE IN THE STEAM. NPCL HAS SCHEDULED FOR 30 MINUTES FOR THE INVESTIGATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * LEAK * NPCL * PIPES AND PIPE FITTINGS * STEAM QUALITY

100627

BWR SERVICE WATER PUMP LEAKS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-90 TO U.S. NRC, REGION II, OCT. 1, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - NORMAL PACKING WEAR. WITH THE REACTOR AT 528 POWER, SERVICE WATER LOOP 2B FOR BWR WAS LEAKING FROM ROUTINE MAINTENANCE ON PUMP B PACKING. THIS WAS NORMAL WEAR. THE SYSTEM WAS IMPROVED FOR 11 HOURS TO REPLACE THE PACKING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * SEAL * PUMPS * AUXILIARY COOLING * SHUTDOWN COOLING SYSTEM * LEAK * FAILURE, COMPONENT

100628

SERVICE WATER LOOP FLANGES LEAK AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

2 PGS. LTR W/AD 75-91 TO U.S. NRC, REGION II, OCT. 1, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - CROSS THREADED AND LOOSE BOLTS. WITH THE REACTOR AT 78 POWER, SERVICE WATER LOOP 2B FOR BWR WAS SECURED FOR 3 HOURS TO CORRECT FLANGE LEAKS AT PUMP B DISCHARGE FLANGE VENT AND DOWNSTREAM FLANGE ON THE DISCHARGE CHECK VALVE. THREADS ON THE PUMP DISCHARGE FLANGE WERE CROSS-THREADED. THE THREADED PIPE WAS REPLACED. CHECK VALVE FLANGE BOLTS WERE TIGHTENED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * FLANGE * AUXILIARY COOLING * PIPES AND PIPE FITTINGS * SHUTDOWN COOLING SYSTEM * LEAK * FAILURE, MAINTENANCE ERROR

100629

SUPPRESSION POOL WATER LEVEL OUT OF LIMITS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

4 PGS. LTR W/AD 75-92 TO U.S. NRC, REGION II, OCT. 7, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - LEVEL INSTRUMENTS INSTALLATION ERROR. FOLLOWING RECALIBRATION OF SUPPRESSION POOL LEVEL INSTRUMENTS, 6 INCHES OF WATER WAS REMOVED FROM THE TORUS BECAUSE OF HIGH LEVEL INDICATION. A CHECK OF THE ACTUAL LEVEL SHOWED IT TO BE 5 INCHES LESS THAN INDICATED LEVEL. INVESTIGATION SHOWED THAT THE LEVEL INSTRUMENTS HAD BEEN INSTALLED AT A DIFFERENT ELEVATION THAN SHOWN ON THE DRAWING. THIS MADE THE INSTRUMENT READ CORRECTIONS DIFFERENT BY ABOUT 5 INCHES. THE INSTRUMENTS WERE RECALIBRATED USING THE CORRECTED READ CORRECTIONS. TORUS WATER LEVEL WAS ADJUSTED TO WITHIN LIMITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * INSTRUMENT CALIBRATION * SENSORS, LEVEL * TORUS * FAILURE, INSTALLATION ERROR

100630

SUPPLEMENTAL INFORMATION ON DIESEL GENERATOR MUTING AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., N.C.

3 PGS. LTR W/AD 75-93 TO U.S. NRC, REGION II, OCT. 13, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - OPERATOR ERROR. ON MARCH 3, THE STARTUP ENGINEER BUMPED A TRIPPING RELAY IN A BREAKER DURING INSTALLATION OF THE COVER CAUSING THE BREAKER TO TRIP. DURING THE TRANSIENT, DIESEL GENERATOR 3 STARTED AND APPARENTLY CLOSED ON A DE-ENERGIZED BUS. THIS JARRED THE CONTROL POWER FUSES IN THE HOLDER WHICH DE-ENERGIZED ALL INITIATION AND PROTECTIVE FUNCTIONS OF THE BREAKER. ALSO, THE OL OUTPUT WAS FALSLEY REPORTED AS BEING RACKED OUT UNDER A CLEARANCE. THE OPERATOR FAILED TO FULLY UNDERSTAND WHAT EVENTS HAD OCCURRED DURING THIS TRANSIENT AND RE-ENERGIZED A BUS CAUSING MUTING OF THE DIESEL GENERATOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

100016 PLANTINTEL
BRUNSWICK 2 (DWR) • GENERATION, DIESEL • ENGINES, INTERNAL COMBUSTION • FAILURE, ADMINISTRATIVE CONTROL • FAILURE, OPERATOR ERROR • COMMUNICATION • BREAKER • TRANSIENT

100017
CONTROL ROD DRIFTS FROM FULL IN TO FULL OUT AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
3 PGS. LTR W/AD 75-93 TO U.S. NRC, REGION II, OCT. 16, 1975, DOCKET 50-324, TYPE--DWR, NPG--G.E., AE--UEEC

CAUSE - CRUD IN COLLET PISTON AREA. DURING CRJ SCRAM TIME TESTING WITH THE REACTOR AT 30% POWER, CONTROL ROD 26-07 UNIFIED FROM FULL IN TO FULL OUT SEVERAL TIMES. AFTER SEVERAL WATCHING EXERCISES, THE DRIVE WAS LATCHED AT POSITION 46. THE CAUSE WAS DETERMINED TO BE FOREIGN MATTER IN THE COLLET PISTON AREA WHICH PRECLUDED RESEATING OF THE PISTON AND RECLASURE OF THE COLLET FINGERS. ALSO, THE DIRECTIONAL CONTROL VALVES HAD FAILED. FILTER UNITS IN THE DRIVE WATER SUPPLY WERE REPLACED. THE WITHDRAWN EXHAUST AND SETTLE VALVE WAS REPEARED. THE CONTROL ROD THEN FUNCTIONED PROPERLY. DURING DRIFT-OUT, POWER WAS OBSERVED TO INCREASE BY 10 MW.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • PLANTINTEL AND DRIVE MECHANISMS • TEST, SYSTEM OPERABILITY • ACCIDENT, CONTROL ROD DRIFT • REACTIVITY EFFECT • DRIFT • CRUD • FAILURE, EQUIPMENT • VALVES

100018
MPCI INLET DRAIN LINE DEVELOPS EXCESSIVE STEAM LEAK AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-94 TO U.S. NRC, REGION II, OCT. 16, 1975, DOCKET 50-324, TYPE--DWR, NPG--G.E., AE--UEEC

CAUSE - VALVE CROSS THREADED INTO DRAIN POT. WITH THE REACTOR AT 35% POWER, AND RCIC INOPERABLE, MPCI WAS BEING TESTED. THE INLET DRAIN LINE DEVELOPED AN EXCESSIVE STEAM LEAK WHERE THE DRAIN VALVE THREADED INTO THE BOTTOM OF THE DRAIN POT. THE VALVE HAD BEEN CROSS THREADED INTO THE POT. THE VALVE WAS REMOVED AND THE HOLE TAPPED OUT. A NEW BUSHING WAS INSTALLED AND THE VALVE REINSTALLED. AN UNDESIRABLE SHUTDOWN WAS COMMENCED IMMEDIATELY BUT TERMINATED WHEN MPCI WAS RETURNED TO SERVICE 2 HOURS LATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • VALVES • MPCI • LEAK • FAILURE, INSTALLATION ERROR • TEST, SYSTEM OPERABILITY

100019
DIESEL GENERATOR SPEED CONTROL INOPERABLE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., N.C.
2 PGS. LTR W/AD 75-95 TO U.S. NRC, REGION II, OCT. 16, 1975, DOCKET 50-324, TYPE--DWR, NPG--G.E., AE--UEEC

CAUSE - MOTOR BRUSHES TOO TIGHT. DURING TESTING WITH THE REACTOR AT 41% POWER, DIESEL GENERATOR 1 WAS FOUND TO HAVE NO SPEED CONTROL. SPEED CONTROL MOTOR BRUSHES HAD BEEN SCREWED IN TOO TIGHTLY CAUSING THE SHAFT TO BIND. THE BRUSHES WERE RETENSIONED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • GENERATION, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR

107410
LEAKAGE TO DRYWELL SUMP EXCEEDS LIMIT AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
3 PGS. LTR W/AD 75-103 TO U.S. NRC, REGION II, OCT. 21, 1975, DOCKET 50-324, TYPE--DWR, NPG--G.E., AE--UEEC

CAUSE - VALVE PACKING LEAKS. WHILE OPERATING AT 52% POWER, AN INCREASE IN PUMPING FREQUENCY TO THE DRYWELL FLOOD DRAIN SUMP INDICATED THAT THE LEAK RATE HAD REACHED 4 GPM. A REACTOR SHUTDOWN WAS COMPLETED IN 9 HOURS. VALVE PACKING LEAKS WERE DISCOVERED ON A RHR LOOP B TESTABLE CHECK VALVE ACTUATOR AND A MPCI INBOARD STEAM SUPPLY VALVE. THE VALVES WERE REPAIRED AND CHECKED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DWR) • SEAL • VALVES • LEAK • SHUTDOWN COOLING SYSTEM • MPCI • REACTOR SHUTDOWN • FAILURE, EQUIPMENT

107425
DRYWELL GAS MONITOR PEGS OGNOSCALE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-98 TO U.S. NRC, REGION II, OCT. 21, 1975, DOCKET 50-324, TYPE--DWR, NPG--G.E., AE--UEEC

CAUSE - OUT OF CALIBRATION. WITH THE REACTOR AT 18 POWER, THE DRYWELL GAS MONITOR WAS PEGGED

107425 UNCONTINUED

UNMISCALE AND INSTRUMENT FAILURE LIGHT WAS ILLUMINATED. THE INSTRUMENT WAS OUT OF CALIBRATION. IT WAS RECALIBRATED AND RETURNED TO SERVICE IN 19 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (10HR) • REACTOR STARTUP EXPERIENCE • MONITOR • CONTAINMENT • INSTRUMENT CALIBRATION • FAILURE, MAINTENANCE ERROR • OPERATING SYSTEM, RADIATION

107426

REACTOR BUILDING VENT MONITOR MALFUNCTION AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-100 TO U.S. NRC, REGION II, OCT. 21, 1975

CAUSE - BROKEN FAN BELT. WITH THE REACTOR AT 60% POWER, THE REACTOR BUILDING VENT MONITOR LTR FLOW LIGHT ILLUMINATED. THE VENT FAN DRIVE BELT IN THE REACTOR BUILDING OVERHEAD WAS BROKEN. FAN BELT WAS REPLACED. THE SYSTEM WAS INOPERABLE FOR A DAY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (10HR) • REACTOR STARTUP EXPERIENCE • BUILDING • FAILURE, EQUIPMENT • BLOWERS • FLOW • MONITORING SYSTEM, RADIATION

107427

LEVEL SWITCH SET POINTS OUT OF LIMITS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-101 TO U.S. NRC, REGION II, OCT. 21, 1975, DOCKET 50-324, TYPE--BWR, NRC--C.E., AE--UECC

CAUSE - TECH SPEC ERROR. DURING A CALIBRATION CHECK WITH THE REACTOR AT 72.5% POWER, 2 MPCE TORUS LEVEL SWITCHES WERE FOUND SET TO GE INSTRUMENT DATA SHEET AT -2 FT 0 IN. TECH SPECS REQUIRE -2 FT 3 IN. SWITCHES WERE RESET TO TECH SPECS. THE CAUSE WAS FAILURE TO USE THE GE SET POINT DATA IN PREPARATION OF TECH SPECS. A TECH SPEC CHANGE WILL BE PREPARED TO ALLOW RESETTING OF THE SWITCHES TO 2 FT. 0 IN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (10HR) • REACTOR STARTUP EXPERIENCE • SET POINT • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, LEVEL • TORUS • FAILURE, ADMINISTRATIVE CONTROL

107428

FUEL OIL ADDED TO LUBE OIL IN DIESEL GENERATORS 1 AND 2 AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
4 PGS. LTR W/AD 75-102 TO U.S. NRC, REGION II, OCT. 21, 1975, DOCKET 50-324, TYPE--BWR, NRC--C.E., AE--UECC

CAUSE - MECHANIC'S ERROR. WHILE THE REACTOR WAS AT 50% POWER, A MECHANIC ADDED 55 GALLONS OF OIL TO THE CRANKCASE OF DIESEL 1 AND 110 GALLONS TO DIESEL 2. HE THEN DISCOVERED HE HAD ADDED FUEL OIL INSTEAD OF DELVAC 1340 OIL. THE FUEL OIL WAS STORED IN THE DIESEL BUILDING IN DELVAC 1340 DRUMS WITHOUT A SEAL. THE 1000 GALLONS OF LUBE OIL WAS REMOVED FROM DIESEL 2 AND REPLACED WITH KNOWN GOOD OIL. OIL IN DIESEL 1 WILL BE CHANGED WHEN ADDITIONAL OIL IS RECEIVED. ALL OLD OIL STORED IN DIESEL BUILDING WAS REMOVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR STARTUP EXPERIENCE • LUBRICATION • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • FAILURE, MAINTENANCE ERROR • POLLUTION • BRUNSWICK 2 (10HR) • BRUNSWICK 2 (10HR)

107777

SUPPLEMENTAL INFORMATION ON RECIRC PUMP SEAL FAILURES AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
4 PGS. LTR W/SUPPL. RPTS TO OSEP-75-03 & 04 TO U.S. NRC, REGION II, OCT. 27, 1975, DOCKET 50-324, TYPE--BWR, NRC--C.E., AE--UECC

CAUSE - DESIGN DEFICIENCY. FOLLOWING REACTOR SHUTDOWNS ON AUG. 24 AND SEPT. 5, THE SEAL ON A RECIRCULATION PUMP FAILED RELEASING ABOUT 1900 GAL AND 2000 GAL, RESPECTIVELY, OF REACTOR COOLANT TO THE DRYWELL. IT WAS DETERMINED THAT THE PUMP CASING THERMAL BARRIER REQUIRED MODIFICATION TO PREVENT FUTURE SEAL FAILURES. THE STACK MONITOR DID NOT SHOW ANY INCREASE IN AIR ACTIVITY BEING RELEASED IN EITHER INCIDENT. CLEAN-UP FACTOR FOR STACK GAS TREATMENT IS 99% FOR PARTICULATES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (10HR) • SEAL • PUMPS • MAIN COOLING SYSTEM • FLOW, RECIRCULATION • FAILURE, DESIGN ERROR • FILTER OPERATION • AIRBORNE RELEASE • STACK GAS TREATMENT

107417

CORE SPRAY LOOP SUNCTION RELIEF VALVE LEAKS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-99 TO U.S. NRC, REGION II, OCT. 20, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - SEAT FAILURE. WITH THE REACTOR AT LOW POWER, CORE SPRAY LOOP 2A SUNCTION RELIEF VALVE WAS LEAKING PAST THE SEAT AND COULD NOT BE GAGGED SHUT. THE APPARENT CAUSE WAS VALVE SEAT FAILURE. THE TORUS SUNCTION VALVE WAS CLOSED AND THE RELIEF VALVE CAP'ED. THE SUNCTION VALVE WAS REDNEED. THE RELIEF VALVE WILL BE CUT OUT, FLANGED, AND REPAIRED AT THE NEXT OUTAGE. THE SYSTEM WAS IMPROPERABLE FOR 1.5 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • VALVES • OPRESSURE RELIEF • CORE SPRAY • LEAK • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • MODIFICATION

107418

RCIC VALVE FAILS TO OPEN AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-96 TO U.S. NRC, REGION II, OCT. 20, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - TORQUE SWITCH IMPROPERABLE. WITH THE REACTOR AT SS POWER, RCIC VALVE ESI-6007 WOULD NOT OPEN FROM RTCD. THE VALVE ACTUATOR MOTOR WAS FROZEN. INSULATION IN THE MOTOR HAD MELTED AND THE TORQUE SWITCH WAS IMPROPERABLE. THE MOTOR WAS CLEANED AND THE TORQUE SWITCH REPLACED. THE TORQUE SWITCH STILL WOULD NOT OPERATE PROPERLY. THE VALVE WAS OPERABLE BY CIRCUIT BREAKER MANIPULATION UNTIL THE CAUSE COULD BE DETERMINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • VALVES • RCIC • VALVE OPERATORS • INSTRUMENT, SWITCH • FAILURE, EQUIPMENT

107419

RCIC VALVE CIRCUIT BREAKER TRIPS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-97 TO U.S. NRC, REGION II, OCT. 20, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - MOTOR BURNED OUT. WITH THE REACTOR AT 358 POWER, RCIC VALVE ESI-6007 CIRCUIT BREAKER TRIPPED WHENEVER A SHUT SIGNAL WAS INITIATED. THE ACTUATOR MOTOR HAD BURNED OUT DUE TO AN IMPROPER TORQUE SWITCH. THE BELLEVILLE WASHER CHAMBER IN THE ACTUATOR WAS FILLED WITH GREASE WHICH BLOCKED MOVEMENT. THE ACTUATOR MOTOR WAS REPLACED. TORQUE SWITCH ACTUATION WAS CHANGED TO LIMIT SWITCH ACTUATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • VALVES • RCIC • VALVE OPERATORS • INSTRUMENT, SWITCH • LUBRICATION • MODIFICATION • CONTROL SYSTEM • FAILURE, EQUIPMENT • BREAKER

107423

DIESEL GENERATOR SECURED FOR OIL CHANGE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-104 TO U.S. NRC, REGION II, OCT. 20, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - FUEL OIL IN LUBE OIL. WITH THE REACTOR AT 658 POWER, DIESEL GENERATOR 1 WAS SECURED FOR 6.5 HOURS TO CHANGE LUBE OIL. EARLIER, 55 GALLONS OF NO. 2 FUEL OIL WERE INADVERTENTLY INTRODUCED INTO THE LUBE OIL SUPPLY. OIL WAS NOT CHANGED AT THAT TIME DUE TO INSIGNIFICANT DILUTION FACTOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • LUBRICATION • FAILURE, EQUIPMENT

107424

TORUS LEVEL RECORDER IMPROPERABLE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-105 TO U.S. NRC, REGION II, OCT. 20, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - BLOWN FUSE. WITH THE REACTOR AT 918 POWER, A TORUS LEVEL RECORDER WAS FOUND TO BE IMPROPERABLE. A FUSE HAD BLOWN. IT WAS REPLACED. THE CAUSE WAS NOT DETERMINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • PRECORDERS • SENSORS, LEVEL • TORUS • INSTRUMENT, PROTECTIVE • FAILURE, INSTRUMENT

107521

RCIC TURBINE FAILS TO START AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD 75-106 TO U.S. NRC, REGION II, OCT. 31, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - LOW CONTROL OIL PRESSURE. WITH THE REACTOR AT 60% POWER, RCIC TURBINE QUICK-START TEST FAILED DUE TO OVERSPEED TRIP. AFTER 2 MINUTES, A SATISFACTORY RESTART WAS ACCOMPLISHED. DUE TO DRAIN DOWN OF CONTROL OIL FROM THE CONTROL VALVE DURING EXTENDED PERIODS OF INOPERATION, THE TURBINE TRIPPED ON ELECTRONIC OVERSPEED BEFORE SUFFICIENT OIL PRESSURE COULD BE DEVELOPED TO THROTTLE THE CONTROL VALVE. UPON RESTART, SUFFICIENT HEAD WAS ACCUMULATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • TURBINE • RCIC • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • CONTROL SYSTEM

107522

RCIC TURBINE FAILS TO START AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD 75-107 TO U.S. NRC, REGION II, OCT. 31, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - DRAIN DOWN OF CONTROL OIL. WITH THE REACTOR AT 57% POWER, RCIC TURBINE QUICK-START TEST FAILED DUE TO OVERSPEED TRIP. AFTER 2 MINUTES, A SATISFACTORY RESTART WAS ACCOMPLISHED. DUE TO DRAIN-DOWN OF CONTROL OIL FROM THE CONTROL VALVE DURING EXTENDED PERIODS OF INOPERATION, THE TURBINE TRIPPED ON ELECTRONIC OVERSPEED BEFORE SUFFICIENT OIL PRESSURE COULD BE DEVELOPED TO THROTTLE THE CONTROL VALVE. A SIMILAR FAILURE OCCURRED 2 DAYS EARLIER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • TURBINE • RCIC • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • CONTROL SYSTEM

107523

RCIC TURBINE FAILS ON QUICK START AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD 75-108 TO U.S. NRC, REGION II, OCT. 31, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - LOW CONTROL OIL PRESSURE. WITH THE REACTOR AT 70% POWER, RCIC TURBINE QUICK-START TEST FAILED DUE TO OVERSPEED TRIP. AFTER 2 MINUTES, A SATISFACTORY RESTART WAS ACCOMPLISHED. DUE TO DRAIN DOWN OF CONTROL OIL FROM THE CONTROL VALVE DURING EXTENDED PERIODS OF INOPERATION, THE TURBINE TRIPPED ON ELECTRONIC OVERSPEED BEFORE SUFFICIENT OIL PRESSURE COULD BE DEVELOPED TO THROTTLE THE CONTROL VALVE. THIS IS THE THIRD FAILURE OF THIS TYPE IN 3 DAYS. GE HAS INITIATED A DESIGN RE-EVALUATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • TURBINE • RCIC • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • CONTROL SYSTEM • FAILURE, DESIGN ERROR

107524

RCIC TURBINE FAILS ON QUICK START AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD 75-109 TO U.S. NRC, REGION II, OCT. 31, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - DRAIN DOWN OF CONTROL OIL. WITH THE REACTOR AT 70% POWER, RCIC TURBINE QUICK-START TEST FAILED DUE TO OVERSPEED TRIP. AFTER 5 MINUTES, A SATISFACTORY RESTART WAS ACCOMPLISHED. DUE TO DRAIN DOWN OF CONTROL OIL FROM THE CONTROL VALVE DURING EXTENDED PERIODS OF INOPERATION, THE TURBINE TRIPPED ON ELECTRONIC OVERSPEED BEFORE SUFFICIENT OIL PRESSURE COULD BE DEVELOPED TO THROTTLE THE CONTROL VALVE. THIS IS A REPEATING OCCURRENCE. NRC AGREED ON 24-HR PERIODIC TESTING UNTIL THE PROBLEM IS RESOLVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • TURBINE • RCIC • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • CONTROL SYSTEM • FAILURE, DESIGN ERROR

107910

INFORMATION ON RHR SYSTEM WATER HAMMER AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

8 PGS. LTR W/BRUNSWICK INCIDENT REPORT 75-53 TO U.S. NRC, REGION II, NOV. 10, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UECC

CAUSE - INCOMPLETE FILLING OF PIPING. DURING A ROUTINE NRC INSPECTION, RHR CROSSTIE DEMIN. WATER FILL LINE PIPE SUPPORTS WERE NOTICED TO HAVE CRACKED GROUT. A REVIEW WAS MADE OF RECENT WATER HAMMER INCIDENTS. THERE WERE 3 POSSIBLE WATER HAMMER INCIDENTS LATELY. TO PREVENT RECURRENCE THE FOLLOWING WAS DONE. ADDITIONAL VENTING POINTS WERE ADDED. RHR VALVE AND PUMP TESTS ARE

107910 MONTINGUO

BEING REVISED TO MINIMIZE PARTIAL DRAINING OF THE SYSTEM. MODIFICATIONS WERE MADE TO THE REEF-FULL STATIONS. THE EVALUATION INDICATED ONLY MINOR PIPE MOVEMENT AND ADEQUATE MANAGER RESPONSE. THE PIPE SUPPORT DAMAGE WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + SUPPORT STRUCTURE + PIPES AND PIPE FITTINGS + SHUTDOWN COOLING SYSTEM + HYDRAULIC EFFECT + MODIFICATION + DAMAGE

107899

AIR SAMPLE PUMP FAILS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD-110 TO U.S. NRC, REGION II, NOV. 12, 1975, DICKET 50-324, TYPE--DNR, NRG--G.E., AE--UEEC

CAUSE - IMPELLER VANES BROKE. WHILE OPERATING THE UNIT AT 64% POWER, THE AIR SAMPLE PUMP IN THE STACK FILTER HOUSE STOPPED. THE ROTATING IMPELLER VANES BROKE CAUSING THE VACUUM PUMP TO JAM AND BLOW THE PUMP FUSE. NEW VANES WERE INSTALLED. THE FUSE REPLACED, AND THE PUMP RETURNED TO SERVICE. THE PUMP WAS IMPERABLE FOR 1 DAY, 5 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + PUMPS + MONITOR, AIR + MONITORING SYSTEM, RADIATION + FAILURE, COMPONENT

107900

MSIV CLOSED TOO FAST AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD-111 TO U.S. NRC, REGION II, NOV. 12, 1975, DICKET 50-324, TYPE--DNR, NRG--G.E., AE--UEEC

CAUSE - OIL IN AIR CYLINDER. DURING A MAIN STEAM ISOLATION VALVE CLOSING TIME TEST WITH THE REACTOR AT 65% POWER, ONE VALVE CLOSED IN LESS THAN THE 2 SECOND LIMIT. ADJUSTMENT OF THE FLOW CONTROL VALVE DID NOT CHANGE THE CLOSING TIME. OIL WAS ALLOWING INTO THE AIR CYLINDER DUE TO PINCHED LOWER PACKING RINGS. THE RINGS WERE REPLACED AND THE HYDRAULIC CYLINDER RECHARGED. THE MSIV WAS IMPERABLE FOR 2 DAYS, 9 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + RESPONSE TIME + VALVES + CONTAINMENT ISOLATION + MAIN COOLING SYSTEM + TEST, SYSTEM OPERABILITY + LEAK + SEAL + PNEUMATIC SYSTEM

107901

RUE NOT PERFORMED ON RHR PUMP FLOW ORIFICE FLANGES AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

4 PGS. LTR W/AD 75-114 TO U.S. NRC, REGION II, NOV. 17, 1975, DICKET 50-324, TYPE--DNR, NRG--G.E., AE--UEEC

CAUSE - MISINTERPRETATION OF REQUIREMENTS. DURING A REVIEW OF THE DOE REQUIREMENTS FOR REFWATER SYSTEM PIPING FLANGES FOR UNIT 1, THE PLANT CONSTRUCTOR NOTED THAT REQUIREMENTS FOR MAGNETIC PARTICLE AND ULTRASONIC TESTING APPLIED ALSO TO CERTAIN RHR FLANGES BUT HAD NOT BEEN PERFORMED ON UNIT 2. THE REQUIREMENTS HAD BEEN MISINTERPRETED. THE RHR SYSTEM DISCHARGE FLOW ORIFICE FLANGES WERE GIVEN A UT EXAMINATION. ONE FLANGE CONTAINED UNACCEPTABLE INDICATIONS IN THE NECK REGION. IT WAS REPLACED. THE DEFECTIVE FLANGE WILL BE EXAMINED. TWO OTHER FLANGES CONTAINED UNACCEPTABLE INDICATIONS BUT NOT OF THE SAME MAGNITUDE OF THE FIRST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + TEST, NONDESTRUCTIVE + PIPES AND PIPE FITTINGS + ULTRASONICS + PLAN + FAILURE, INSTALLATION ERROR + SHUTDOWN COOLING SYSTEM + FLANGE + REVIEW

107970

HYDROGEN RECORDING PEN DOWNSCALE DRIFT AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD 75-112 TO U.S. NRC, REGION 2, NOV. 18, 1975, DICKET 50-324, TYPE--DNR, NRG--G.E., AE--UEEC

CAUSE - UNKNOWN. WITH THE REACTOR OPERATING AT 69% POWER, 1 OF THE 2 HYDROGEN RECORDING PENS DRIFTED FULL DOWNSCALE. BEFORE IT COULD BE CHECKED OUT, IT CAME BACK UP ON SCALE AT THE SAME LEVEL AS THE OTHER ONE. IT WAS OUT OF SERVICE FOR 22 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (DNR) + RECORDERS + HYDROGEN + CONTAINMENT ATMOSPHERE, INERT + FAILURE, INSTRUMENT + DRIFT + INSTRUMENT, ABNORMAL INDICATION

107971

REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-115 TO U.S. NRC, REGION 2, NOV. 19, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - RWCU PUMP OUT OF SERVICE. WHILE OPERATING AT 75% POWER, REACTOR WATER CONDUCTIVITY EXCEEDED 2.9 MICROMHO/CM FOR 10 HOURS. REACTOR WATER CLEANUP PUMP 2A WAS ISOLATED ON THE PREVIOUS SHIFT TO REPAIR SHAFT SEAL LEAKS. REACTOR POWER WAS LOWERED TO ENABLE PUMP 2B TO OVERCOME THE HIGH CONDUCTIVITY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + COOLANT QUALITY + FAILURE, EQUIPMENT + PUMPS + SEAL + LEAK + COOLANT PURIFICATION SYSTEM

107972

SERVICE WATER PUMPS OUT OF SERVICE FOR MAINTENANCE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-115 TO U.S. NRC, REGION 2, NOV. 10, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - WATER LEAKS. WHILE OPERATING AT 45% POWER, NUCLEAR 2B AND CONVENTIONAL 2B SERVICE WATER PUMPS WERE DECLARED IMPERMEABLE FOR MAINTENANCE. THERE WERE WATER LEAKS AT THE NUCLEAR LUBE WATER PRESSURE REGULATING VALVE AND AT THE CONVENTIONAL WATER STRAINER INSTRUMENT TAP-OFF. MAINTENANCE WAS DEFERRED UNTIL THE NEXT EXTENDED OUTAGE DUE TO LACK OF MATERIALS. THE PUMPS WERE IMPERMEABLE FOR 4.5 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + PUMPS + AUXILIARY COOLING + LEAK + PIPES AND PIPE FITTINGS

108277

CONTROL ROOM AIR TREATMENT TEST NOT PERFORMED AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
3 PGS. LTR W/AD 75-116 TO U.S. NRC, REGION II, NOV. 25, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - NOT INCORPORATED INTO SCHEDULE. DURING A REVIEW OF TEST DATA, IT WAS DISCOVERED THAT THE MONTHLY 10-HOUR OPERATIONAL TEST ON THE CONTROL ROOM AIR TREATMENT SYSTEM HAD NOT BEEN PERFORMED SINCE 5/22/75. RESPONSIBILITY FOR THIS TEST WAS TRANSFERRED FROM ENGINEERING TO OPERATIONS IN MAY 1975 BUT WAS NOT INCORPORATED INTO THE TEST SCHEDULE. THE TEST WAS RUN ON NOV. 10. THE TEST SCHEDULE WAS REVISED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + TEST INTERVAL + VENTILATION SYSTEM + CONTROL PANEL/ROOM + TESTING + REVIEW + FAILURE, ADMINISTRATIVE CONTROL

108278

HYDROGEN RECORDING PEN FAILS DOWNSCALE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-116 TO U.S. NRC, REGION II, NOV. 25, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - TRANSISTOR FAILURE. WHILE THE REACTOR WAS OPERATING AT 98% POWER, A HYDROGEN RECORDING PEN FAILED FULL DOWNSCALE. A TRANSISTOR IN THE ANALYZER TRANSMITTER HAD FAILED. IT WAS REPLACED. THE ANALYZER WAS RECALIBRATED AND PLACED BACK IN SERVICE IN 4 DAYS 4.75 HOURS. THIS IS A RECURRENT OF A PRIOR FAILURE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + PRECURSORS + HYDROGEN + CONTAINMENT ATMOSPHERE, INERT + INSTRUMENT, SWITCH + FAILURE, INSTRUMENT + SOLID STATE DEVICE + ELECTRONIC FUNCTION UNITS

108279

RCIC TURBINE TRIPPED FROM HIGH EXHAUST PRESSURE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-116 TO U.S. NRC, REGION II, NOV. 25, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UECC

CAUSE - JAMMED CHECK VALVE FLAPPER. WHILE OPERATING AT 83% POWER, THE RCIC TURBINE TRIPPED REPEATEDLY DUE TO HIGH EXHAUST PRESSURE. THE FLAPPER OF THE CHECK VALVE IN THE LINE TO THE TOWNS HAD JAMMED PARTIALLY CLOSED. THE VALVE WAS REPAIRED AND CHECKED OUT SATISFACTORILY. RCIC WAS IMPERMEABLE FOR 3 DAYS 13 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) + RCIC + TURBINE + FAILURE, EQUIPMENT + VALVE, CHECK + FLOW BLOCKAGE

100200
CAC RADIATION MONITOR MALFUNCTION AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-119 TO U.S. NRC, REGION II, NOV. 25, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UELC

CAUSE - VALVE FAILURE AND MOISTURE. WITH THE REACTOR AT 85% POWER, CAC RADIATION MONITOR LOW-FLUX LIGHT BULB BURNED OUT. UPON BULB REPLACEMENT, LOW FLUX WAS INDICATED. INVESTIGATION FOUND (1) THE BALL VALVE WAS NOT OPERATING PROPERLY, (2) CONDENSATION IN THE DETECTOR WELL, AND (3) THE PAPER DRIVE IN THE RECORDER WAS MISSING BRACKETS. THE VALVE MOTOR WAS REPLACED, WELLS WERE CLEANED, AND BRACKETS INSTALLED. THE MONITOR WAS INOPERABLE FOR 1 DAY 4.5 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • RADIATION MONITOR • CONTAINMENT FILTERING SYSTEM • VALVES • WATER • FAILURE, MAINTENANCE ERROR • FAILURE, COMPONENT

100201
DRYWELL GAS MONITOR FAILS DOWNSCALE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-120 TO U.S. NRC, REGION II, NOV. 25, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--JELC

CAUSE - FIELD EFFECT TRANSMITTER FAILS. WHILE OPERATING AT 40% POWER, THE DRYWELL GAS MONITOR FAILED DOWNSCALE. USING THE TEST SWITCH, IT OPERATED FOR A SHORT WHILE AND THEN DRIIFTED DOWNSCALE. THE FIELD EFFECT TRANSMITTER IN THE INPUT BOARD HAD FAILED. IT WAS REPLACED. THE MONITOR WAS INOPERABLE FOR 16 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • MONITOR, GAS • CONTAINMENT • FAILURE, INSTRUMENT • ELECTRONIC FUNCTION UNITS • RADIATION MONITORS

100205
DRYWELL PARTICULATE MONITOR FAILS DOWNSCALE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-121 TO U.S. NRC, REGION II, DEC. 3, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--JELC

CAUSE - DEFECTIVE AMPLIFIER CHIP. WHILE OPERATING AT 96% POWER, THE DRYWELL PARTICULATE MONITOR FAILED DOWNSCALE AND WOULD NOT RESPOND TO THE TEST SWITCH. THE OPERATION AMPLIFIER IC CHIP ON THE INPUT BOARD WAS DEFECTIVE. THE CHIP WAS REPLACED AND THE METER RECALIBRATED. THE MONITOR WAS INOPERABLE FOR 1 DAY 8 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • MONITOR • MONITOR, GAS • CONTAINMENT • FAILURE, INSTRUMENT • MONITORING SYSTEM, RADIATION • ELECTRONIC FUNCTION UNITS

100206
DRYWELL GASEOUS MONITOR INOPERABLE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-122 TO U.S. NRC, REGION II, DEC. 3, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UELC

CAUSE - INADVERTENTLY DE-ENERGIZED. WITH THE REACTOR AT 96% POWER, THE DRYWELL GASEOUS MONITOR FAILED DOWNSCALE. THE UNIT HAD BEEN INADVERTENTLY DE-ENERGIZED. IN ABOUT 2.5 HOURS, POWER WAS RESTORED AND THE INSTRUMENT RETURNED TO NORMAL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • MONITOR • MONITOR, GAS • CONTAINMENT • FAILURE, INSTRUMENT • FAILURE, OPERATOR ERROR • ELECTRIC POWER

100207
REACTION COOLANT CONDUCTIVITY EXCEEDS LIMITS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS. LTR W/AD 75-124 TO U.S. NRC, REGION II, DEC. 3, 1975, DOCKET 50-324, TYPE--BWR, MFG--G.E., AE--UELC

CAUSE - OPERATOR ERROR. WITH THE REACTOR AT 55% POWER AND BOTH RWCV AND CFD OUT OF SERVICE FOR LEAK REPAIRS AND MSRTS ISOLATED FOR TEST, REACTION COOLANT CONDUCTIVITY EXCEEDED 2.0 MICROMH/CM. MOISTURE IN THE LP TURBINE WASHED OUT IMPURITIES FROM THE TURBINE INTERNALS. BECAUSE RWCV AND CFD WERE INOPERABLE, THE IMPURITIES WERE EVENTUALLY PUMPED INTO THE REACTOR WATER. WHEN RWCV BECAME OPERABLE, CONDUCTIVITY WAS BROUGHT INTO LIMITS. PERSONNEL HAD FAILED TO RECOGNIZE THE EFFECT OF PLANT EVOLUTIONS ON REACTOR CHEMISTRY. LIMITS WERE EXCEEDED FOR 15 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

100267 CONTINUED
BRUNSWICK 2 (BWR) • COOLANT QUALITY • FAILURE, OPERATOR ERROR • MAINTENANCE AND REPAIR • FAILURE, EQUIPMENT

100268
HIGH DIFFERENTIAL TEMPERATURE SYSTEM INOPERABLE AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
3 PGS, LTR W/AD 75-123 TO U.S. NRC, REGION II, DEC. 3, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - INCORRECT WIRING DRAWINGS. DURING ROUTINE SURVEILLANCE WITH THE REACTOR AT 54% POWER, THE REACTOR WATER CLEANUP SYSTEM VENTILATION AIR INLET/OUTLET HIGH DIFFERENTIAL TEMPERATURE ISOLATION FUNCTION WAS DETERMINED TO BE INOPERABLE. THE WIRING DRAWINGS WERE INCORRECT. THE HIGH DIFFERENTIAL TEMPERATURE INSTRUMENTATION WAS AIMED BACKWARDS SUCH THAT IT WOULD NOT ISOLATE THE RWCU SYSTEM IF THE EXHAUST AIR TEMPERATURE EXCEEDED INLET AIR TEMPERATURE BY 50 F. THE WIRING ERROR WAS CORRECTED. RWCU WAS INOPERABLE FOR 2 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • INSTRUMENT, SWITCH • SENSORS, TEMPERATURE • VENTILATION SYSTEM • CONTAINMENT ISOLATION • FAILURE, DESIGN ERROR • CABLES AND CONNECTORS • COOLANT PURIFICATION SYSTEM

100269
RCIC VALVE PACKING GLAND LEAKS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS, LTR W/AD 75-123 TO U.S. NRC, REGION II, DEC. 3, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - STEAM CHANNLED OLD PACKING. WHILE THE REACTOR WAS OPERATING AT 55% POWER, A RCIC VALVE PACKING GLAND WAS FOUND BLOWING STEAM. STEAM HAD CHANNLED THE OLD PACKING. RCIC WAS INOPERABLE FOR 4.5 HOURS FOR INSTALLATION OF NEW PACKING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • SEAL • VALVES • RCIC • FAILURE, EQUIPMENT • LEAK

100270
CONTAINMENT PRESSURE RECORDER READING HIGH AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS, LTR W/AD 75-124 TO U.S. NRC, REGION II, DEC. 3, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - TRANSMITTER OUT-OF-CALIBRATION. AFTER CALIBRATION OF THE CONTAINMENT PRESSURE RECORDER WHILE THE REACTOR WAS AT 60% POWER, THE OPERATOR NOTED THAT IT READ 2 PSI HIGHER THAN THE PRESSURE INDICATOR. THE RECORDER TRANSMITTER NEEDED CALIBRATION. IT WAS CALIBRATED AND THE RECORDER RETURNED TO SERVICE AFTER 1 DAY 6 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • RECORDERS • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • FAILURE, INSTRUMENT • TEST, SYSTEM OPERABILITY • DRIFT • CONTAINMENT • ELECTRONIC FUNCTION UNITS

100220
RCIC TURBINE TRIPS ON OVERSPEED AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS, LTR W/LICENSEE EVENT RPT 75-129 TO U.S. NRC, REGION II, DEC. 4, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - INSUFFICIENT CONTROL OIL PRESSURE. WITH THE REACTOR AT 54% POWER, RCIC TURBINE QUICK-START, TIME-LAPSE TESTING WAS IN PROGRESS AFTER A MODIFICATION WAS COMPLETE. AT THE 40-HOUR TEST, THE TURBINE TRIPPED ON MECHANICAL OVERSPEED. CONTROL OIL HAD DRAINED DOWN AFTER 40 HOURS OF INOPERATION. THE TRIP OCCURRED BEFORE SUFFICIENT OIL PRESSURE COULD DEVELOP TO THE THROTTLE VALVE. A SATISFACTORY RESTART WAS ACCOMPLISHED IN 1 MINUTE. EVALUATION OF THE PROBLEM IS CONTINUING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • TURBINE • RCIC • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • FAILURE, DESIGN ERROR • CONTROL • LUBRICATION • MODIFICATION

100220
MPCI STEAM ISOLATION VALVE CLOSING AT BRUNSWICK
CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2 PGS, LTR W/AD 75-127 TO U.S. NRC, REGION II, DEC. 5, 1975, DOCKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - PACKING GLAND STEAM LEAK. WHILE OPERATING AT 90% POWER, MPCI STEAM ISOLATION VALVE SHUT BECAUSE OF HIGH VENTILATION DIFFERENTIAL TEMPERATURE. THE PACKING GLAND OF A STEAM VALVE WAS

108220 *CONTINUED*

LEAKING. MPC1 ROOM COOLER WAS INITIATED. ISOLATION WAS RESET AFTER 3 MINUTES AND THE PACKING GLAND TIGHTENED TO REDUCE THE STEAM LEAK.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * VALVES * MPC1 * SEAL * LEAK * STEAM * CONTAINMENT ISOLATION * FAILURE, EQUIPMENT

108221

MPC1 DECLARED INOPERABLE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD NO 75-140 TO U.S. NRC, REGION II, DEC. 5, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--JFCC

CAUSE - STEAM VALVE LEAK. WHILE OPERATING AT 93% POWER, MPC1 WAS DECLARED INOPERABLE FOR 9.5 HOURS TO REPAIR A STEAM VALVE. THE STEAM PACKING HAD BEEN CHAMFERED BY STEAM AND COULD NOT BE TIGHTENED TO STOP STEAM LEAKS. PACKING WAS COMPLETELY REMOVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * VALVES * MPC1 * STEAM * SEAL * LEAK * FAILURE, EQUIPMENT

108607

RECORDER FOUND TO BE ERRATIC AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD NO 75-130 TO U.S. NRC, REGION II, DEC. 11, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UEEC

CAUSE - DEFECTIVE DRIVE COIL. WHILE THE REACTOR WAS OPERATING AT 60% POWER, CAC-A7-1261 RECORDER WAS FOUND TO BE PRINTING IN AN ERRATIC MANNER AND NOT INDICATING BELOW MID-SCALE. THE DRIVE COIL WAS FOUND TO BE VERY TIGHT AND BADLY FRAYED. IT WAS REPLACED. THE RECORDER WAS CLEANED AND LUBRICATED. IT WAS INOPERABLE FOR 19.5 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * RECORDERS * FAILURE, INSTRUMENT

108533

NCIC TURBINE TRIPS ON OVERSPEED AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD NO 75-134 TO U.S. NRC, REGION II, DEC. 16, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UEEC

CAUSE - OLIVA FUSE AND LOW OIL PRESSURE. WITH THE REACTOR AT 61% POWER, NCIC TURBINE TRIPPED ON OVERSPEED DURING A QUICK-START TEST. THE THRUSTING VALVE COULD NOT BE RESET FROM RTGB AND HAD TO BE MANUALLY CLOSED. THE TURBINE TRIPPED BEFORE SUFFICIENT CONTROL OIL PRESSURE COULD DEVELOP AND A FUSE BLEW IN THE GOVERNING CIRCUIT. THE FUSE WAS REPLACED. AN INTERIM CONTROL OIL RESERVOIR WAS INSTALLED FOR READY OIL SUPPLY. THE NCIC TURBINE WAS INOPERABLE FOR 2 DAYS 11 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * TURBINE * OILIC * FAILURE, EQUIPMENT * FAILURE, DESIGN ERROR * INSTRUMENT, PROTECTIVE * MODIFICATION * TEST, SYSTEM OPERABILITY

108534

NCIC TURBINE FAILS ON QUICK-START AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD NO 75-133 TO U.S. NRC, REGION II, DEC. 16, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UEEC

CAUSE - INSUFFICIENT CONTROL OIL PRESSURE. WITH THE REACTOR AT 59% POWER, NCIC TURBINE QUICK-START TEST FAILED ON OVERSPEED TRIP. CONTROL OIL HAD DRAINED DOWN AFTER A PERIOD OF 48 HOURS OF TURBINE INOPERATION. THE TURBINE TRIPPED BEFORE SUFFICIENT OIL PRESSURE COULD DEVELOP TO THE THROTTLE VALVE. EVALUATION OF THIS REOCCURRING PROBLEM CONTINUES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) * TURBINE * NCIC * TEST, SYSTEM OPERABILITY * FAILURE, EQUIPMENT * FAILURE, DESIGN ERROR

108535

OFF-GAS ISOLATION VALVE TEST NOT PERFORMED ON SCHEDULE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, N.C.

2 PGS. LTR W/AD NO 75-132 TO U.S. NRC, REGION II, DEC. 16, 1975, DCKET 50-324, TYPE--BWR, MFG--G.E., AE--UEEC

CAUSE - ADMINISTRATIVE OVERSIGHT. WHEN THE STEAM JET AIR EJECTOR OFF-GAS ISOLATION VALVES FAILED

100555 CONTINUING

TO CLOSE DURING TESTING WHILE THE REACTOR WAS IN HOT SHUTDOWN. THE PLANT NUCLEAR SAFETY COMMITTEE DETERMINED THAT THE TEST HAD NOT BEEN PERFORMED DURING THE 2 PREVIOUS QUARTERS AS REQUIRED. ON IS ADDITION TEST SPECS TO ENSURE THAT OTHER TEST REQUIREMENTS ARE NOT OVERLOOKED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SWR) • TEST INTERVAL • TESTING • VALVES • CONTAINMENT ISOLATION • OFF GAS • FAILURE, ADMINISTRATIVE ACTION

100530

OFF-GAS ISOLATION VALVES FAIL TO CLOSE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, NC

2 PGS, LTR W/40 75-139 TO U.S. NRC, REGION II, DEC. 16, 1975, Docket 50-324, TYPE--SWR, NRC--G.E., AE--UEEC

CAUSE - ERROR IN WIRING DIAGRAM. DURING A STEAM JEG AIR EJECTOR OFF-GAS ISOLATION VALVE OPERABILITY CHECK WITH THE REACTOR IN HOT SHUTDOWN, 4 ISOLATION VALVES FAILED TO CLOSE ON SIGNAL FROM THE OFF-GAS LINE. AN ERROR IN THE INTERCONNECTING WIRING DIAGRAM CAUSED THE VALVE NOT TO RECEIVE THE CLOSE SIGNAL. THE ERROR WAS CORRECTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SWR) • VALVES • CONTAINMENT ISOLATION • OFF GAS • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN ERROR • CABLES AND CONNECTIONS

100625

UNANNOUNCED RELEASE OF FLUOR CARBON SAMPLE TANK AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, NC

2 PGS, LTR W/40 75-139 TO U.S. NRC, REGION II, DEC. 22, 1975, Docket 50-324, TYPE--SWR, NRC--G.E., AE--UEEC

CAUSE - OPERATOR ERROR. AFTER COMPLETING A POSITIVE LIQUID RELEASE WHILE OPERATING AT 54% POWER, THE RADIOACTIVE OPERATOR WENT TO FLUSH OUT THE MONITOR AND DISCOVERED THE DETECTOR REMOVED FROM THE MONITOR SHIELD. THE PREVIOUS OPERATOR KEPT THE DETECTOR TO ALLOW FLUSHING THE MONITOR AFTER IT HAD AUTOMATICALLY TERMINATED THE RELEASE BY REACHING ITS SET POINT AND FAILED TO REPLACE IT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SWR) • MONITOR • WASTE DISPOSAL • WASTE DISPOSAL, LIQUID • EFFLUENT • FAILURE, OPERATOR ERROR • MONITOR, LIQUID • RADIATION MONITORS

100643

RCIC TURBINE TRIPS ON QUICK START AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, NC

2 PGS, LTR W/40 75-139 TO U.S. NRC, REGION II, DEC. 22, 1975, Docket 50-324, TYPE--SWR, NRC--G.E., AE--UEEC

CAUSE - TRANSISTORS BURNED OUT. WITH THE REACTOR AT 50% POWER, THE RCIC TURBINE TRIPPED OUT ON A QUICK START TEST. TWO OTHER ATTEMPTS FAILED. THERE WAS NO ELECTRICAL SIGNAL TO THE GOVERNOR VALVE DUE TO 2 BURNEED-OUT OUTPUT TRANSISTORS IN THE CONTROLLER. THE TRANSISTORS WERE REPLACED. THE SYSTEM WAS INOPERABLE FOR 5.25 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SWR) • TURBINE • RCIC • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SOLID STATE DEVICE

100664

AMR PUMP REMOVED FROM SERVICE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, NC

2 PGS, LTR W/40 75-139 TO U.S. NRC, REGION II, DEC. 22, 1975, Docket 50-324, TYPE--SWR, NRC--G.E., AE--UEEC

CAUSE - WIRE HARNESS CHAFING ON CABINET DOOR. WHILE THE REACTOR WAS AT 50% POWER, THE POWER PANEL FOR AMR PUMP 2C WAS SECURED FOR MAINTENANCE. THE WIRE HARNESS WAS CHAFING ON THE CABINET DOOR. THE HARNESS WAS TIE-WAPPED IN A MANNER TO PREVENT CHAFING AND STILL REMAIN FLEXIBLE. THE POWER PANEL WAS RETURNED TO SERVICE IN 15 MINUTES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SWR) • PUMPS • SHUTDOWN LICALING SYSTEM • BREAKER • CABLES AND CONNECTORS • MAINTENANCE AND REPAIR • FAILURE, INSTALLATION ERROR

100665

REACTOR RECIRCULATION PUMP TRIPS AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., RALEIGH, NC

100005 PLANTINFORM-9
2 PGS, LTR W/NO 75-125 TO U.S. NRC, REGION II, DEC. 22, 1975, JACKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - UNKNOWN. WITH THE REACTOR AT 50% POWER, REACTOR RECIRCULATION PUMP 2A TRIPPED OUT. A RESTART ATTEMPT FAILED. THE CIRCUITS WERE CHECKED. BRUSHES WERE INSPECTED AND REINSTALLED. THE PUMP WAS RESTARTED AND RAN SATISFACTORILY. NO PROBLEM WAS FOUND. LOCP 2A WAS SHUT DOWN FOR 5 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • PUMPS • MAIN CIRCULATION SYSTEM • FAILURE, EQUIPMENT

100006
PROCESS COMPUTER FAILS TO READ FROM DRUM AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, NC
2 PGS, LTR W/NO 75-136 TO U.S. NRC, REGION II, DEC. 22, 1975, JACKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - COMPONENT FAILURES. WHILE OPERATING AT 50% POWER, THE PROCESS COMPUTER FAILED TO READ FROM DRUM STORAGE DRUM. VARIOUS COMPONENTS WERE CHANGED WITH UNIT 1 COMPUTER. TWO DIGITAL I/O BOARDS AND 1 CIRCUIT BOARD WERE FOUND BAD AND WERE REPLACED. THE COMPUTER WAS OUT OF SERVICE FOR 2 DAYS 10 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • PC/PROCESSOR, DIGITAL • DATA PROCESSING • ELECTRONIC FUNCTION UNITS • FAILURE, COMPONENT

100007
NPCT STEAM TRAP FLANGES LEAK AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, NC
2 PGS, LTR W/NO 75-137 TO U.S. NRC, REGION II, DEC. 22, 1975, JACKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - WASKET FAILURES. WHILE OPERATING AT 50% POWER, NPCT STEAM SUPPLY TRAP INLET AND OUTLET FLANGES WERE FOUND TO BE LEAKING STEAM. WASKETS WERE FOUND TO BE STEAM CUT. THEY WERE REPLACED. NPCT WAS UNRELIABLE FOR 0.75 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • PSEAL • OPLANGE • NPCT • LEAK • TEST, SYSTEM OPERABILITY • STEAM

100008
SET POINT SHIFT IN PRESSURE SWITCHES AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, NC
2 PGS, LTR W/NO 75-145 TO U.S. NRC, REGION II, DEC. 23, 1975, JACKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - UNKNOWN. DURING TESTING WITH THE REACTOR AT 50% POWER, ALL 4 NPCT TURBINE EXHAUST DIAPHRAGM HIGH PRESSURE SWITCHES WERE OUT OF CALIBRATION. THE CAUSE IS UNKNOWN. THEY WERE IMMEDIATELY RECALIBRATED TO PROPER SET POINT LIMITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • SHIFT • NPCT • TURBINE

100009
SET POINT SHIFT IN ORWELL PRESSURE SWITCHES AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, NC
2 PGS, LTR W/NO 75-146 TO U.S. NRC, REGION II, DEC. 23, 1975, JACKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

CAUSE - UNKNOWN. DURING TESTING WITH THE REACTOR AT 15% POWER IN SU MODE, ALL 4 RPS HIGH ORWELL PRESSURE SWITCHES WERE OUT OF CALIBRATION. THE CAUSE IS UNKNOWN. ALL WERE IMMEDIATELY RECALIBRATED TO THE PROPER SET POINT LIMITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • SHIFT • CONTAINMENT • REACTOR SAFETY SYSTEM

100010
FOLLOWUP INFORMATION ON RHM PUMP FLANGE INDICATIONS AT BRUNSWICK 2
CAROLINA POWER & LIGHT CO., RALEIGH, NC
2 PGS, LTR W/NO 75-114 TO U.S. NRC, REGION II, DEC. 23, 1975, JACKET 50-324, TYPE--BWR, NRC--G.E., AE--UEEC

10000 CONTINUED

CAUSE - CORROSION INCLUSIONS. REPLACEMENT OF THE DEFECTIVE FLANGE DOWNSTREAM OF THE PUMP 24 WAS COMPLETED. SECTIONS OF THE DEFECTIVE FLANGE SHOWED THE INDICATION TO BE OF AN ANOMALOUS INCLUSIONS LOCATED IN THE FLOW LINE OF THE FLANGE. SINCE THE INCLUSIONS WOULD NOT LEAD TO CORROSION PROPAGATION OTHER THAN WITH SUCH SMALLER INDICATION ARE INDICATED TO BE ACCEPTABLE BUT WILL BE REPLACED DURING A FUTURE MAINTENANCE OUTAGE IN EARLY 1976.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMP) • FLANGE • OPEN • SHUTDOWN COOLING SYSTEM • METALLURGY • MAINTENANCE AND REPAIR • FAILURE, FABRICATION ERROR

10005

MPC1 DECLARED INOPERABLE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., NARRAGANSETT, RI

2 PGS, LTR WMO 75-142 TO U.S. NRC, REGION II, DEC. 24, 1975, DCKET 50-326, TYPE--SMP, WFO--G.E., AE--UREC

CAUSE - STEM PACKING LEAK. WITH THE REACTOR AT 52% POWER, MPC1 WAS DECLARED INOPERABLE TO REPAIR A STEM LEAK AT A VALVE STEM PACKING GLAND. THIS IS A RECURRING PROBLEM. THE PACKING WAS BEEN DAMAGED BY STEM AND COULD NOT BE TIGHTENED TO STOP THE LEAK. THE JOINT CRANE PACKING WAS REPLACED WITH CHESTERTON STYLE 1 PACKING. MPC1 WAS INOPERABLE FOR 2.25 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMP) • SEAL • VALVES • MPC1 • LEAK • FAILURE, EQUIPMENT • MODIFICATION • STEM

10006

NRC SYSTEM ISOLATES ON HIGH TEMPERATURE AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., NARRAGANSETT, RI

2 PGS, LTR WMO 75-142 TO U.S. NRC, REGION II, DEC. 24, 1975, DCKET 50-326, TYPE--SMP, WFO--G.E., AE--UREC

CAUSE - NOT FOUND. WITH THE REACTOR RUNNING AT 52% POWER, NRC SYSTEM ISOLATED ON HIGH TEMPERATURE WHICH INDICATED A STEM LEAK. STOP WAS RUNNING AT THE TIME. NO LEAKS WERE FOUND. THE SYSTEM WAS RETURNED TO STANDBY IN 13 MINUTES. THE CAUSE OF ISOLATION IS UNKNOWN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMP) • NRC • CONTAINMENT ISOLATION • FAILURE, EQUIPMENT • TEMPERATURE

10008

REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., NARRAGANSETT, RI

2 PGS, LTR WMO 75-142 TO U.S. NRC, REGION II, DEC. 24, 1975, DCKET 50-326, TYPE--SMP, WFO--G.E., AE--UREC

CAUSE - RESIN FINES. WITH THE REACTOR AT 52% POWER, REACTOR WATER CONDUCTIVITY SPIKE ABOVE 2 MICROMHO/CM AFTER PLACING NRC P/D 24 IN SERVICE AFTER 2 DAYS OF OUTAGE. THE MOST PROBABLE CAUSE WAS RESIN FINES DUE TO THE STARTUP. CONDUCTIVITY WAS OUT OF LIMITS FOR 5 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMP) • COOLANT QUALITY • RESIN • RADIATION EFFECT • COOLANT PURIFICATION SYSTEM

10009

DRYWELL FLOOR DRAIN PUMPING FREQUENCY INCREASES AT BRUNSWICK 2

CAROLINA POWER & LIGHT CO., NARRAGANSETT, RI

2 PGS, LTR WMO 75-142 TO U.S. NRC, REGION II, DEC. 24, 1975, DCKET 50-326, TYPE--SMP, WFO--G.E., AE--UREC

CAUSE - VALVE PACKING LEAK. WITH THE REACTOR AT 52% POWER, THE DRYWELL FLOOR DRAIN PUMPING FREQUENCY INCREASED AND GAC MONITORS INDICATED AN UPWARD TREND. A REACTOR SHUTDOWN WAS IMMEDIATELY STARTED. WATER WAS OVERFLOWING FROM REACTOR PUMP 24 SHAFT CAVITY. THE DRAIN-OFF LINE ON THE DISCHARGE VALVE WAS ALLOWING WATER TO THE CAVITY AND TO THE EQUIPMENT DRAIN TANK. VALVES IN THE DRYWELL WERE REPAIRED WITH GRAPHITE PACKING DURING THE NEXT MAJOR OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

BRUNSWICK 2 (SMP) • DRAIN RATE • DRAIN CLEANING SYSTEM • VALVES • SEAL • LEAK • FAILURE, EQUIPMENT • FAILURE, DESIGN ERROR

10010

LIQUOR TEMPERATURE RISE EXCEEDS LIMITS AT COOPER

NEBRASKA PUBLIC POWER DISTRICT

1 PAGE, LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 4, JANUARY 3, 1975, DCKET 50-290, TYPE--SMP.

COPIES CLASSIFIED
980-200000 82-000000 1-000

[illegible]

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 07-18-2019 BY 60322 UCBAW/BJS

* ALLUMINUM, MAGNESIUM, ZINC, COPPER (PBM) • TEMPERATURE • CONDENSED COOLING SYSTEM • PUMPS

[illegible]

Case - Operation ended. With the station operating at 1100 the other 2 condenser circulating pumps were started. The operators started a third pump off the oil/water level control. After several hrs. some water came out the bay of this pump caused the temperature rise across the pump and it started to be a little of a problem up to 5. The pump was stopped and the control was moved to 120 to increase flow and increase plant inlet temperature sufficiently to start the third pump again. Operators instructed to open the control valve slowly starting the pump.

AVAILABILITY - See PUBLIC RELEASE STATEMENT, 1717 W STREET, WASHINGTON, D. C. 20540. FOR CATALOGING -- 0141-200

LEPLUMET • PALLUMET • MONTATUM (mm) • LUMPA (mm) • TEMPERATURE • CHROMATOGRAPHIC SYSTEM

[illegible]

CAUSE - FUMIGATION FROM A REACTION BETWEEN COAL GAS WITH FUMES FROM WASTED AN INSULATION MATTER IN THE STATION AND THE STATION AIRBORNE DUSTS. THE AROCLOR COATING FILM ON THE INSULATION CAUSE IN CONTACT WITH THE COAL GAS STATION AIRBORNE. AS DUST PARTICLES SETTLED, THE AIRBORNE DUSTS TOOK TO THE WITH USE. THE STATION WAS REQUIRED TO PROVIDE PROTECTIVE AIRBORNE WITH THE COAL GAS FILM.

AVAILABILITY - THE PUBLIC DOCUMENT NUMBER, 1717 is listed. NATIONAL, D. C. 20540. THE (105) PAGE -- (105) PAGE (105) PAGE

REPLICATION • PATENT • OFFICE PRACTICE • APPLICANT (PATENT WRITER • COUNSEL • APPRAISER) • OTHERS

67980
FEDERAL BUREAU OF INVESTIGATION IN MEMPHIS OFFICE DATE 47 COMPIRE
MEMPHIS PUBLIC AFFAIRS DIVISION
PAGE. LETTER TO DIRECTOR OF REGISTRATION SERVICE, AUGUST 6, 1959. ON 47 5-276, 1959--AM.
WFO--L... DE-MEMPHIS

[illegible]

AVAILABILITY - THIS PUBLICATION IS UNCLASSIFIED DATE 07-19-2008 BY 60322 UC/L
 (NOVA) 07-19-2008

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MAINPROGRAM AND MAPIN = PROC(UNIT, AND COUNTRIES) = PASTORAL + WOODS(CATFISH) + PALESTINE, DESSA 10000 + :COWS  
      (ONE) = BULFIF = HUNTER
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REPLACEMENT LEFT BEHIND FILES DURING MAJOR FIRE AT CAMPUS
REDACTED PUBLIC PLACE DISCLOSED
1. FILE LEFT IN DISCREETION OF REDACTED AGENCIES. RE-170 & 181C, JANUARY 4, 1975, JCEFF 50-270, 1975--
END. RE-610, 40-20000 & 200

CAUSE - WELD FAILURE. DURING A HYDRASTATIC TEST ON THE SEWERAGE LINE PIPING BELOW GROUND THE INSTALLATION OF MAGNETIC LEVEL INDICATOR ON THE CATHODE AND OTHER SCRAM ATTACHMENTS CAUSED A SUDDEN INCREASE IN PRESSURE WAS NOTED AT 1700 PSIG. AFTER THAT, THE LEVEL INDICATOR BEGAN TO RISE. IT WAS OBSERVED, THE SEWERAGE LINE STATIONARY STEEL STRUCTURAL PLATE WAS DAMAGED AT THE CIRCULAR JOINT WELD. THE EXPLOSION CAUSED 300 LBS OF THE WEIGHT OF THE WELD. THE ASSEMBLY WILL

[illegible][illegible][illegible][illegible][illegible][illegible]

000110031010 - Mr. James H. Thompson, 1917 - 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618,

PATIENT, EQUIPMENT • NAVIGATION GANTRY • CRAN • LOCAL PURIFICATION SYSTEM • CURRENT QUALITY • (SUPER ION) •
 MAGNETIC POSITION • MAGNETIC EFFECT

 

[illegible]

00014091187 - SAC From EL Albuquerque NMNM, 12/17 = 1240:1, administrative, O. C., 12965, 1-2 (91)/PAGE -- 01/01/87
(MORRIS 12-23)

FAHIGAN • JAMES • 1940 • 306 CAS • FAHIGAN, ADMINISTRATIVE CONTROL • 1151 14TH AVE • CHICAGO (900)

[illegible][illegible]

DECLASSIFIED - NO PUBLIC DOCUMENTS, 1997 - 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677

OF THE JUDICIAL BRANCH OF THE GOVERNMENT OF THE DISTRICT OF COLUMBIA, OFFICE OF THE CLERK OF THE COURT, SYSTEMS SUPPORT DIVISION, OFFICE OF THE CLERK OF THE COURT, 333 CONSTITUTION AVENUE, N.W., WASHINGTON, D.C. 20001

100000

100201 ALTIMETER

AT POINT UNIT IN PRESSURE SWITCH AT COOPER

WASHDC PUBLIC POWER DISTRICT

1 PAGE, LETTER TO HQ OFFICE OF INSPECTION AND ENFORCEMENT, REG'DN 6, FEBRUARY 14, 1975, DOCKET 50-200, TYPE--
 DM, HP--0000, AC--00005 & RCE

CAUSE - SWITCH MALFUNCTION. DURING TESTING OF THE LOW REACTOR WATER LEVEL INITIATION LOGIC FOR THE MPEL SYSTEM UNDER THE REACTOR WAS STOPPED. A SWITCH WAS OBSERVED TO TRIP AT -77 INCHES WHICH IS LESS THAN THE -77 INCH LIMIT. THE SWITCH ASSEMBLY WAS REPLACED WITH A SPARE. THE APPARENT CAUSE WAS ATTRIBUTED TO A MALFUNCTION BELIEVED TO BE CAUSED BY A FOREIGN PARTICLE BETWEEN THE CONTACTS OF THE SWITCH.

AVAILABILITY - HQ PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

INSTRUMENT CALIBRATION - FAILURE, INSTRUMENT - COOPER - INSTRUMENT, SWITCH - TEST, SYSTEM OPERABILITY - COOPER
 (COOPER) - SET POINT - DRIFT - SENSORS, LEVEL - MPEL

100203

PRESSURE SWITCH FAILED TO ACTUATE AT COOPER

WASHDC PUBLIC POWER DISTRICT

1 PAGE, LETTER TO HQ OFFICE OF INSPECTION AND ENFORCEMENT, REG'DN 6, FEBRUARY 27, 1975, DOCKET 50-200, TYPE--
 DM, HP--0000, AC--00005 & RCE

CAUSE - UNKNOWN. DURING TESTING OF THE MAIN STEAM SAFETY RELIEF VALVE BEHINDS LEAK DEFECT--
 MONITORING A PRESSURE SWITCH FAILED TO ACTUATE. THE SWITCH WAS REPLACED WITH AN IDENTICAL SPARE.
 THE INTERNAL MECHANISM SHOWED A HIGH CONTACT RESISTANCE. THE CAUSE IS BEING INVESTIGATED.

AVAILABILITY - HQ PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

INSTRUMENT CALIBRATION - FAILURE, INSTRUMENT - INSTRUMENT, SWITCH - MONITOR - TEST, SYSTEM OPERABILITY - LEAK
 - COOPER (COOPER) - SENSORS, PRESSURE

100205

AT POINT UNIT IN SUPPRESSION CHAMBER LEVEL SWITCH AT COOPER

WASHDC PUBLIC POWER DISTRICT

1 PAGE, LETTER TO HQ OFFICE OF INSPECTION AND ENFORCEMENT, REG'DN 6, FEBRUARY 27, 1975, DOCKET 50-200, TYPE--
 DM, HP--0000, AC--00005 & RCE

CAUSE - STICKING OF PLUNGE WIPPER. DURING TESTING OF THE MPEL/ORTWELL SUPPRESSION CHAMBER LEVEL
 SWITCHES, THE SWITCH TRIPPED AT 3 INCHES OF WATER WHICH EXCEEDS THE 2.5 INCH LIMIT. THE
 ADJUSTING NUT ON THE ACTUATING ROD THAT EXTENDS FROM THE PLUNGE TO THE SWITCH ASSEMBLY WAS ADJUSTING
 AGAINST THE INSIDE OF THE ASSEMBLY TUBE. DURING CHANGES IN PLUNGE LEVEL, THE ACTUATING ROD HAD A
 JUMPING ACTION. THE CORNERS OF THE ADJUSTING NUT WERE GROUNDED TO REMOVE CORNERS AND SHARP EDGES.
 THE ADJUSTMENT, MODEL 0300-02, LEVEL SWITCH OPERATED SATISFACTORILY.

AVAILABILITY - HQ PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

INSTRUMENT CALIBRATION - FAILURE, INSTRUMENT - INSTRUMENT, SWITCH - TEST, SYSTEM OPERABILITY - FAILURE,
 INSTALLATION ERROR - COOPER (COOPER) - SET POINT - DRIFT - SENSORS, LEVEL - TOPPS

100205

ADDITIONAL INFORMATION ON PRESSURE SWITCH PROBLEMS AT COOPER

WASHDC PUBLIC POWER DISTRICT

1 PAGE, LETTER TO HQ OFFICE OF INSPECTION AND ENFORCEMENT, REG'DN 6, MARCH 10, 1975, DOCKET 50-200, TYPE--
 DM, HP--0000, AC--00005 & RCE

CAUSE - INSTRUMENT DESIGN. BECAUSE OF THE SENSITIVITY OF JANSOILE, MODEL 021-01255, BOMBARDIER
 TYPE PRESSURE SWITCHES TO MECHANICAL VIBRATION, GE RECOMMENDED AS REPLACEMENTS ASHEROFF, MODEL
 015-0000, WILCOX TYPE PRESSURE SWITCHES. TESTING REVEALED THAT THE NEW SWITCHES WOULD NOT
 MEET THE 15 TO 20-PSI SPEC. THE ORIGINAL SWITCHES WERE REINSTALLED. ADDITIONAL TESTING
 INDICATE THAT IT IS POSSIBLE THAT SWITCH COVER INTERFERENCE WAS A CONTRIBUTING FACTOR IN THE
 RESPONSE CHANGE OBSERVED.

AVAILABILITY - HQ PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

TESTING - FAILURE, INSTRUMENT - INSTRUMENT, SWITCH - MODIFICATION - COOPER (COOPER) - SET POINT - DRIFT

100205

AT POINT UNIT IN TIME DELAY RELAYS AT COOPER

WASHDC PUBLIC POWER DISTRICT

1 PAGE, LETTER TO HQ OFFICE OF INSPECTION AND ENFORCEMENT, REG'DN 6, MARCH 21, 1975, DOCKET 50-200, TYPE--DM,
 HP--0000, AC--00005 & RCE

CAUSE - INSTRUMENT UNIT. DURING TESTING OF THE AUTOMATIC DEPRESSURIZATION LOGIC SYSTEM WITH THE
 UNIT OPERATING AT 2375 PSI, 2 TIME DELAY RELAYS WERE OBSERVED TO ACTUATE AT 127.5 SEC AND 131.5

1-1300 2-1111-1000

[illegible]

2014-2015 - The Public Schools of New York City, 111 - 11th Avenue, New York, N.Y. 10018-1098 The City of New York - New York City
 10018-1098

INSTRUMENT, CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SMITH • TEST, SYSTEM OPERABILITY • FAILURE, TEST
 PLAN • COPIES (TEXT) • SET POINT • GIFT • INSTRUMENTS, MISC.

144202

COM FIRM IN THE STANDAR GAS THERMAL SYSTEM AT COMEN

WERNER PUBLIC LIBRARY

2 PAGES. LETTER TO SAC OFFICE OF INSPECTION & PROBATION, MCGL 6. APRIL 1, 1975. EXHIBIT 53-208, ITEM--100, INFORMATION AG--BUREAU & FILE

CAUSE - WHEN IN DISCHARGE PIPE, JUNKIES JAMMED WITH THE REACTION AT 2107 HRS. THE SHAMOCK WAS TREATMENT SYSTEM FLOW WAS REDUCED TO 60 LBS. THIS WAS COR. ACTION IS DISCHARGE ONLY LEFT TANK NORMAL. WHEN IN THE JUNKIES EFFECT OF DISCHARGE WOULD BE THE EFFECT OF DISCHARGE. PUMP SHOCK WAS REDUCIBLE FLOW. THE SHOCK STATE WOULD BE ONLY WAS PLUMBED. THE JUNKIES WAS CLEANED UP. JUNKIES WOULD BE IN DISCHARGE ONLY WAS SERVICE AIR. THE DISCHARGE PIPING THEN JUNKIES, AND SOFT FLOW WAS REDUCIBLE.

44-38861-1 - THE PUBLIC DOCUMENT NUMBER, 1917 W. STREET, WASHINGTON, D. C. 20545 FOR CHANGES -- VISITORS
(MAY 1955)

FAILURE, COMPACT) + CLOW + FAILURE, MATH/INTEGR (MATH) + PLOW + (COMPACT) + STANLEY AND TREATMENT + VALUES.

●●●●●

SEVERE PAIN WITH INCREASING PRESSURE SOLICIT CRYES

ASAC Page 10 Page 11 of 11

2. Photos taken in New Office of Inspection & Enforcement, Mexico City, April 13, 1975, June 15-1975, 1976-1977, 1978-1979, 1980-1981, 1982-1983 & 1984.

[illegible]

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 08-11-2010 BY 60322 UCBAW/PAJ

INSTRUMENTAL CATEGORISATION = PATIENCE, INSTRUMENT = INSTRUMENTS, SMILE = FISH, SYSTEM COMPATIBILITY = SMILING
COGNITIVE SYSTEM = COGNITIVE, SET POINT = NIGHT = SEVERAL, PRESENT

1000000

FOR THE DIRECTOR, NATIONAL ARCHIVES

የግንባታ ስራዎች ላይ የሚሰሩ ሰራተኞች ስርዓተ ሥራዎችን ማረጋገጥና ማረጋገጥ

1 PAGE letter with ATTACHMENT TO FEDERAL BUREAU OF INVESTIGATION, APRIL 20, 1979, Docket 62-298, 1979-0001,
APPROPRIATE AGENCIES & FILE

CAUSE - INCOME INCREMENT VIBRATION. ANALYSIS AT DATA MONITORING THE ALARM OF STATING THAT ONE POWER LINE WILL NOT EXCEED 500 AND ONE PHASE WILL EXCEED 500 ON JUST A FEW DAYS. EXHAUST OF VIBRATION OF INCOME INCREMENT DATA, PROVIDED BY CURRENT PHASE INCREMENT ANALYSIS, WOULD BE THE EXACTLY SAME LINE SUPPORT PLATE, NOT BEING OPERATED AT THE SAME STATION.

AVAILABILITY - FOR PUBLIC ACCOUNTS NUMBER 8/17 IN 1961, PUBLISHED BY U. S. POSTS (34 CENTS/PAGE) - 410000
(ending 07-33)

(Lipson 1998) • Growth • Cell Size • Division • Polysaccharides • Proteins • Lipids • Cell Polarity • Cellular Death
 • Metabolism • Signaling • Regulation

1499

104-107

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1. Paper filed in the Office of Inspector General, Washington, D.C. on May 13, 1975, under 52-274, 1961-1962, 1963-1964, 1965-1966, 1967-1968, 1969-1970, 1971-1972, 1973-1974, 1975-1976, 1977-1978, 1979-1980, 1981-1982, 1983-1984, 1985-1986, 1987-1988, 1989-1990, 1991-1992, 1993-1994, 1995-1996, 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006, 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622, 2623-2624, 2625-2626, 2627-2628, 2629-2630, 2631-2632, 2633-2634, 2635-2636, 2637-2638, 2639-2640, 2641-2642, 2643-2644, 2645-2646, 2647-2648, 2649-2650, 2651-2652, 2653-2654, 2655-2656, 2657-2658, 2659-2660, 2661-2662, 2663-2664, 2665-2666, 2667-2668, 2669-2670, 2671-2672, 2673-2674, 2675-2676, 2677-2678, 2679-2680, 2681-2682, 2683-2684, 2685-2686, 2687-2688, 2689-2690, 2691-2692, 2693-2694, 2695-2696, 2697-269

CAUSE - REPEITIVE ACCURACY. DURING TESTING, THE LINE SPAN PUMP TIME DELAY COULD BE WHILE OPERATING AT 1/450 RPM. A REPEAT ACTUATOR AT 11.22 SECONDS AFTER IT WAS IN THE 9 TO 11 SECOND TIME RANGE. THE 9 TYPE PUMP DELAY HAS A REPEAT REPEITIVE ACCURACY OF 0.100, 11 MS OR BETTER.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 07-19-2008 BY 60322 UCBAW/BJS

(UNDER NAME) • DISTRICT OF COLUMBIA • INSTITUTE OF CALIFORNIA • INSTITUTE OF WISC. • INST. SYSTEMS PROGRAMS •
 

122900

STEAM-HEAT DETECTION TEMPERATURE SWITCH FAILS AT COOPER
WYOMING PUBLIC POWER DISTRICT

1 PAGE, LETTER TO THE OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, MAY 21, 1975, Docket 50-200, TYPE--OIR, WFO--COOPER, DE--BURNS & HUE

CAUSE - HIGH CONTACT RESISTANCE. DURING TESTING OF THE STEAM-HEAT HEAT DETECTION TEMPERATURE SWITCHES WITH THE HEATER AT 2355 WAT, A SWITCH FAILED TO OPERATE. THE APPARENT CAUSE WAS ATTRIBUTED TO A HIGH CONTACT RESISTANCE WITHIN THE SWITCH. THE PIRNOL MODEL 17321-0 SWITCH WAS REPLACED WITH A SPARE.

AVAILABILITY - WFO PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (UNIT) - INSTRUMENTS, SWITCH - INSTRUMENT CALIBRATION - OPERATIONS, TEMPERATURE - TEST, SYSTEM OPERABILITY - FAILURE, INSTRUMENT - MECHANICAL SAFETY SYSTEM

122900

STEAM-HEAT DETECTION TEMPERATURE SWITCH FAILS AT COOPER
WYOMING PUBLIC POWER DISTRICT

1 PAGE, LETTER TO THE OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, MAY 21, 1975, Docket 50-200, TYPE--OIR, WFO--COOPER, DE--BURNS & HUE

CAUSE - INSTRUMENT UNIT. DURING TESTING OF THE STEAM-HEAT HEAT DETECTION TEMPERATURE SWITCHES WITH THE HEATER AT 2355 WAT, A SWITCH WAS FOUND UNABLE TO ACTUATE. THE PIRNOL MODEL 17321-0 SWITCH WAS REPLACED WITH A SPARE. THE APPARENT CAUSE WAS ATTRIBUTED TO INSTRUMENT UNIT.

AVAILABILITY - WFO PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (UNIT) - INSTRUMENTS, SWITCH - OPERATIONS, TEMPERATURE - TEST, SYSTEM OPERABILITY - FAILURE, INSTRUMENT - MECHANICAL SAFETY SYSTEM - INSTRUMENT CALIBRATION

122900

UNPLANNED RELEASE OF RADIOACTIVE LIQUID AT COOPER
WYOMING PUBLIC POWER DISTRICT

1 PAGE, LETTER TO THE OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, MAY 27, 1975, Docket 50-200, TYPE--OIR, WFO--COOPER, DE--BURNS & HUE

CAUSE - LACK OF COMMUNICATION. THE RADIOACTIVE OPERATION ADDED 1200 GALLONS TO THE EXISTING 50,000 GALLONS IN THE PUMP UNIT SAMPLE TANK AFTER IT HAD BEEN SAMPLED. ON ERROR IN COMMUNICATION RESULTED IN A FAILURE TO ASSESS PROPER TO DISCHARGE. WITH THE ERROR WAS DISCOVERED, A SAMPLE WAS TAKEN FROM THE CONTENTS THAT REMAINED IN THE TANK. TO PREVENT REOCCURRENCE, THE FILL VALVE WILL BE CLOSED AND TAGGED WHEN DECONTAMINATION FOR SAMPLING IS STARTED. NO RELEASE LIMITS WERE EXCEEDED.

AVAILABILITY - WFO PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (UNIT) - RADIOACTIVE LIQUID - WASTE DISPOSAL - FAILURE, OPERATION - COMMUNICATION - SAMPLING - RADIOACTIVITY RELEASE

123107

HIGH PUMP LOWDOWN IN STANBY WAS TREATMENT UNIT AT COOPER
WYOMING PUBLIC POWER DISTRICT

1 PAGE, LETTER TO THE OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, MAY 21, 1975, Docket 50-200, TYPE--OIR, WFO--COOPER, DE--BURNS & HUE

CAUSE - MISOPERATION ERROR. WHILE THE REACTOR WAS IN LOW DOWNS, IT WAS NOTED THAT STANBY GAS TREATMENT UNIT WAS SUBJECT TO A HIGH FLOW/PAW MOTOR OVERLOAD CONDITION DURING A 1.55 DO CONTROL PUMP IN THE UNIT. THE CAUSE WAS LACK OF REVERSE FLOW PROTECTION IN THE INDIVIDUAL UNIT'S REVERSE FLOW THE REVERSE FLOW CHECK VALVES. THE CHECK VALVES WERE REMOVED DURING INITIAL TESTING TO EVALUATE THEIR CONTRIBUTION TO A FLOW RESTRICTION. A REVIEW DETERMINED THAT THEY WERE NOT NECESSARY SO THEY WERE NOT REINSTALLED. THE VALVES HAVE NOW BEEN REINSTALLED AND REVERSE FLOW IS PREVENTED.

AVAILABILITY - WFO PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (UNIT) - PUMPING, LOW, TREATMENT - PUMP - FAILURE, ADMINISTRATIVE CONTROL - MISOPERATION - BURNERS

123100

MECHANICAL VACUUM PUMP VALVES FAIL TO OPERATE AT COOPER
WYOMING PUBLIC POWER DISTRICT

1 PAGE, LETTER TO THE OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, MAY 21, 1975, Docket 50-200, TYPE--OIR, WFO--COOPER, DE--BURNS & HUE

CAUSE - LACK OF COMPLICATION. DURING TESTING OF THE MECHANICAL VACUUM PUMP ISOLATION LOGIC WITH

103428 PLANTING UP

THE REACTION IN CASE SHUTDOWN & AIR REMOVAL VALVES FAILED TO CLOSE. THIS WAS ATTRIBUTED TO LACK OF LUBRICATION IN THE PISTON TYPE VALVE OPERATIONS WHICH RESULTED IN INCREASED FRICTION. SUBSEQUENT TESTS WERE SUCCESSFUL. THE INTERNAL PISTON MECHANISM WAS LUBRICATED. GILFOS WERE INSTALLED IN THE AIR SUPPLY TO THE VALVE OPERATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (CONT) = VALVES + PUMPS + PRESSURE, SUBATMOSPHERIC + FAILURE, MAINTENANCE (433) + LUBRICATION + VALVE OPERATIONS + MODIFICATION + TEST, SYSTEM OPERABILITY

103427

RECOMBINATION PLUM REAS COMPARATOR FAILS TO TRIP AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 4, MAY 23, 1975, DCKET 50-290, TYPE--DMR, REF--G-6... AE--BURNS & ROE

CAUSE - COMPONENT FAILURE. DURING TESTING OF THE RECOMBINATION PLUM REAS COMPARATORS WHILE THE REACTOR WAS IN CASE SHUTDOWN, A PLUM UNIT FAILED TO TRIP AT THE 1300 PLUM LIMIT. TWO INTEGRATED LIMIT COMPONENTS IN THE SUMMER BUND WERE REPLACED. THE UNIT THEN OPERATED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (CONT) = INSTRUMENTS, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PLUM + TEST, SYSTEM OPERABILITY + FAILURE, COMPONENT + FAILURE, INSTRUMENT + PLUM, RECIRCULATION

103426

REACTOR SYSTEM PLUM - AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 4, JUNE 5, 1975, DCKET 50-290, TYPE--DMR, REF--G-6... AE--BURNS & ROE

CAUSE - INSTRUMENTS OUT OF CALIBRATION. DURING TESTING OF THE REACTOR ISOLATION COOLING SYSTEM, PLUM CAPABILITY WAS 375 GPM INSTEAD OF THE REQUIRED 300 GPM. INCREASING THE CONTROLLER SETTING FAILED TO INCREASE PLUM. THE PLUM TRANSMITTER, THE SQUARE ROOT CONVERTER, AND PLUM INDICATING CONTROLLER CALIBRATIONS WERE DONE. THE THREE INSTRUMENTS WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (CONT) = PLUM + CONTAINMENT ISOLATION + COOLING + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + INSTRUMENT CALIBRATION + CONTROL SYSTEM + SET POINT + RESET + INSTRUMENT, SWITCH

103425

REACTOR SYSTEM VALVE FAILS TO OPERATE AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 4, JUNE 6, 1975, DCKET 50-290, TYPE--DMR, REF--G-6... AE--BURNS & ROE

CAUSE - LOOSE LIMIT SWITCH. DURING TESTING OF THE REACTOR HEAT REMOVAL SYSTEM VALVE OPERABILITY, A VALVE, LOCATED ON THE SUPPRESSION PWR SPRAY LINE, FAILED TO OPERATE. THE VALVE WAS FULL OPEN ALTHOUGH THE CONTROL ROOM INDICATING LIGHTS SHOWED THE VALVE AS CLOSED. THE LIMIT SWITCH ASSEMBLY ON THE VALVE OPERATION HAD BECOME DISENGAGED FROM THE DRIVING GEAR MECHANISM. THE FASTENERS APPARENTLY LOOSENED FROM THERMAL VALVE VIBRATION ALLOWING THE ASSEMBLY TO BE DISPLACED BY NORMAL VALVE OPERATION. THE BOLTS WERE TIGHTENED USING LOCK WASHERS AND LUCITE COMPOUND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (CONT) = VALVES + SHUTDOWN COOLING SYSTEM + FAILURE, EQUIPMENT + FAILURE, INSTALLATION (433) + INSTRUMENT, SWITCH + FASTENER + TEST, SYSTEM OPERABILITY

103420

COOL SPRAY VALVE FAILS TO OPERATE AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 4, JUNE 10, 1975, DCKET 50-290, TYPE--DMR, REF--G-6... AE--BURNS & ROE

CAUSE - LOOSE VALVE STEM LOCK NUT. DURING TESTING, A COOL SPRAY VALVE WAS FOUND TO HAVE FAILED IN THE FULL OPEN POSITION WHILE CONTROL ROOM INDICATING LIGHTS SHOWED THE VALVE AS CLOSED. THE VALVE OPERATOR HAD BEEN DISABLED BY A DISPLACED VALVE STEM LOCK NUT WHICH HAD LOOSENED FROM NORMAL OPERATION. DURING MANUFACTURE, THE NUT HAD NOT BEEN STAKED TO PREVENT ITS ROTATION DURING VALVE OPERATION. THE LOCK NUT WAS REINSTALLED AND STAKED AS REQUIRED TO PREVENT ROTATION. ALL SIMILAR ACCESSORY VALVES WERE CHECKED TO ASSURE PROPER NUT INSTALLATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

100600 PLANTATION

COOPER (SMT) • PLANTATION • PLANT SPRAY • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • FAILURE, FABRICATION
 ERROR • PARTS • VALVE OPERATION

100607

DIESEL GENERATOR GENERATOR FAILS TO OPERATE PROPERLY AT COOPER
 NEBRASKA PUBLIC POWER DISTRICT

3 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, JUNE 27, 1975, DUCRFT 50-275, TYPE--DNR,
 NRC--DNR, AE--DNR & NRC

CAUSE - JIL ON POTENTIOMETER. DURING TESTING OF DIESEL GENERATOR 1 FOLLOWING MAINTENANCE WITH THE
 REACTOR AT 1100 MW. THE GENERATOR FAILED TO OPERATE PROPERLY AT 0.25 Hz ON THE COUPLER MOTOR
 OPERATED POTENTIOMETER CAUSING THE ENGINE TO STOP. OIL DEPOSITS WERE FOUND IN THE POTENTIOMETER.
 THE JIL CAME FROM AN EXISTING LEAK ON A PRESSURE SWITCH LOCATED ABOVE THE POTENTIOMETER. THE
 POTENTIOMETER WAS CLEANED. THE DIESEL OPERATED PROPERLY. SUBSEQUENTLY, THE POTENTIOMETER WAS
 REPLACED BY AN IDENTICAL UNIT TO HAVE THE NEW UNIT PERFORM AN EVALUATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

COOPER (SMT) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE,
 EQUIPMENT • FAILURE, MAINTENANCE ERROR • ELECTRIC FUNCTION JILS • CAUSE • FAILURE, EQUIPMENT

100608

CONTAINMENT JAPAN CONCENTRATION EXCEEDS 6% AT COOPER

NEBRASKA PUBLIC POWER DISTRICT

3 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, JULY 11, 1975, DUCRFT 50-290, TYPE--DNR,
 NRC--DNR, AE--DNR & NRC

CAUSE - OPERATOR ERROR. A NITROGEN PURGE WAS INITIATED WHEN THE OXYGEN CONTENT OF THE PRIMARY
 CONTAINMENT ATMOSPHERE REACHED 3.5% WITH THE REACTOR OPERATING AT 1100 MW. THE PURGE WAS NOT
 IMMEDIATELY EFFECTIVE BECAUSE A REACTOR BUILDUP EXHAUST DAMPER WAS OPEN. THE OPEN DAMPER CAUSED
 LOSS OF THE DIFFERENTIAL PRESSURE CONTROL BETWEEN THE PRIMARY AND SECONDARY CONTAINMENT ALLOWING
 AIR TO BE ADMITTED TO THE SYSTEM. THE DAMPER WAS CLOSED. OXYGEN CONCENTRATION WAS REDUCED FROM
 5% TO BELOW THE LIMIT IN 3 MIN 45 SEC. PROCEDURES WERE MODIFIED TO PREVENT REOCCURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

COOPER (SMT) • CONTAINMENT ATMOSPHERE, INERT • OXYGEN • CONTAINMENT PURGE • FAILURE, OPERATOR ERROR

100611

NEUTRON MONITOR CONDUCTIVITY EXCEEDS LIMIT AT COOPER

NEBRASKA PUBLIC POWER DISTRICT

3 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, JULY 12, 1975, DUCRFT 50-290, TYPE--DNR,
 NRC--DNR, AE--DNR & NRC

CAUSE - INADEQUATE INJECTION OF CHEMICALS. REACTOR COOLANT CONDUCTIVITY STARTED A RAPID
 INCREASE. IT HAD INCREASED FROM 3.2 TO 0.5 MICROMHO/CM THE PREVIOUS DAY. REACTOR POWER WAS
 REDUCED FROM 1190 TO 1147 MW AND CONDENSER A-1 ISOLATED BECAUSE OF SUSPECT TUBE LEAK.
 CONDUCTIVITY PEAKED AT 12.5 MICROMHO/CM AND THEN DECREASED RAPIDLY. THE INCREASE WAS CAUSED BY
 INJECTION OF 3 CHEMICALS INTO THE CONDENSATE LINE DURING HYDRO TEST OF AN AUGMENTED RADWASTE
 BUILDING TIE-IN LINE. THE SOLUTION WAS FORCED THROUGH 3 CLOSED 8-INCH BUTTERFLY VALVES. A
 PROPERLY COMPLETED WORK REQUEST HAD NOT BEEN OBTAINED FOR THE TEST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

COOPER (SMT) • COOLANT QUALITY • REACTOR COOLING SYSTEM • FAILURE, MAINTENANCE ERROR • MODIFICATION • TESTING •
 ADDITIVE

100622

ISOTOPE ANALYSIS NOT PERFORMED WHEN REQUIRED AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE

2 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 6, JULY 24, 1975, DUCRFT 50-290, TYPE--DNR, NRC--DNR, AE--DNR &
 NRC

CAUSE - OPERATOR OVERSIGHT. AN ISOTOPIC ANALYSIS WAS NOT PERFORMED FOLLOWING AN INDICATION OF A
 50% INCREASE IN STEADY-STATE FISSION GAS RELEASE AS REQUIRED. RESPONSIBLE PERSONNEL IN THE
 OPERATIONS DEPARTMENT FAILED TO NOTIFY THE CHEMISTRY DEPARTMENT THAT THE OFF GAS ACTIVITY READING
 INDICATED A 50% INCREASE. AN ISOTOPIC ANALYSIS WAS PERFORMED THE NEXT DAY. THE REACTOR WAS
 OPERATING AT 50% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

COOPER (SMT) • CHEMICAL ANALYSIS • ELEMENTS AND ISOTOPES • OFF GAS • FAILURE, OPERATOR ERROR • PROCEDURES
 AND MANUALS

 

[illegible]

 

SECRET - (U) - (S) - (C) - (E) - (F) - (G) - (H) - (I) - (J) - (K) - (L) - (M) - (N) - (O) - (P) - (Q) - (R) - (S) - (T) - (U) - (V) - (W) - (X) - (Y) - (Z)

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44-38861-117 - New York, New York, 1957 - 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638,

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 08-19-2010 BY 60322 UCBAW/SJS

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Case - Cumulative Minor Failures. When the system at times fails, the user is informed from one system monitor when another minor failure is detected. For this purpose, the user is notified by a 1750 console message when in the A-B monitoring period the system monitor is in contact with the computer in obtaining the Cumulative Minor. The A-B-A was connected with a console, instructing to these systems is sent to preventative maintenance personnel.

0048841887 - 2000 PUBLISHED ACCOUNT GROUP, 1917 - 1941: 10, 000,000,000.00 23500 019 CENTS/PAGE -- FINANCIAL GROUP

SECRET

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CAUSE - CONSTRUCTION ERROR. DURING THE POUR OF READY MIX CONCRETE, A COLD CHILL PUMP, IN THE MIDDLE OF THE POURING OF THE MAT, ITS PRESSURE CAULD COMPROMISE THE INTEGRITY OF THE CONCRETE CONSTRUCTION MAT. DAMAGE WAS REMOVED FROM THE AFFECTED AREA. REINFORCING STEEL SHALL BE COMPLETELY EXPOSED TO ENSURE PROPER CURE, & NEW MAT WILL BE POURD.

APR 14 1968 11:17 - THE PUBLIC INFORMATION BOARD, 1717 W. STREET, WASHINGTON, D. C. 20565 100 CENTS/PAGE -- WPA/MLA
LW4664 87-238

CONCRETE & SOILS • CONSTRUCTION • PLACEMENT • REINFORCED CONCRETE • FORMS • DETACHABLE STRUCTURE •
CONTAINMENT CONSTRUCTION • CONTAINMENT INTEGRITY • FAILURE • INSTALLATION POINT

14-00000
 RECID NUMBER ON NEW TEST LINE PLUMB MARCH AT COMPANY
 MEMPHIS PUBLIC POWER DISTRICT, ALSO
 2 PAGES OF NEW 75-9 TO SAC OFFICE OF J. E. DEGEN IV, APRIL 29, 1975, DIRECT 50-290, TYPE--info. 44-222, 44-
 -BUREAU, 2 PAGES

CAUSE - INSTALLATION ERROR. WITH THE REACTOR AT 1205 DEG, A RESID REMAIN LOCATED ADJACENT TO THE TUBUS PENETRATION WHICH TEST LINE WAS FOUND TO BE DRIVEN AT THE GUE OF THE BELIMO BEAN ATTACHMENT AND THE STRUCTURAL STEEL JOINTING. FAILURE OCCURED IN THE HEAT AFFECTED ZONE OF THE

100301 *CONTINUED*

ATTACHMENT WELD DUE TO INCORRECT INSTALLATION OF THE WONGER. THE WELD WAS MADE ALONG THE EDGE OF THE REAR FLANGE RATHER THAN ACROSS THE FLANGE AS PER WELDING SPECIFICATION. THE SUBJECT WONGER WAS REMOVED ACCORDING TO SPECIFICATIONS. NO OTHER DAMAGE WAS FOUND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (END) * WELDS * * SUPPORT STRUCTURE * PIPES AND PIPE FITTINGS * SHUTDOWN COOLING SYSTEM * FAILURE, INSTALLATION ERROR * TESTING

100302

SOLENOID COIL ON MAIN STEAM RELIEF VALVE DAMAGED AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, NED.

2 PGS. LTR W/RE 75-0. TO NRC OFFICE OF I & E, REGION IV, AUG. 20, 1975. DOCKET 50-298, TYPE--BWR, NPG--G.E., AE--BURNS & MUE

CAUSE - HEAT DAMAGE TO FLEXIBLE CONDUIT. WHILE THE REACTOR WAS IN COLD SHUTDOWN, THE SOLENOID COIL ON THE SHUTDOWN-OPERATED PILOT AIR VALVE OF A MAIN STEAM RELIEF VALVE WAS FOUND TO BE PARTIALLY DAMAGED. A PORTION OF THE FLEXIBLE CONDUIT FROM THE JUNCTION BOX TO THE SOLENOID WAS DAMAGED BY HEAT DUE TO ITS CLOSE PROXIMITY TO THE RELIEF VALVE. THE DAMAGE ALLOWED MOISTURE TO THE RELIEF VALVE. THE DAMAGE ALLOWED MOISTURE TO BE ADMITTED TO THE SOLENOID. THE SOLENOID AND 4 FEET OF ASSOCIATED CABLE AND FLEXIBLE CONDUIT WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (END) * SOLENOID * * PNEUMATIC SYSTEM * VALVES * PRESSURE RELIEF * MAIN COOLING SYSTEM * CABLES AND CONNECTIONS * DAMAGE * FAILURE, INSTALLATION ERROR

100303

MAIN SERVICE WATER PUMP REMOVED FROM SERVICE FOR MAINTENANCE AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, NED.

2 PGS. LTR W/RE 75-11 TO NRC OFFICE OF I & E, REGION IV, SEPT. 5, 1975. DOCKET 50-298, TYPE--BWR, NPG--G.E., AE--BURNS & MUE

CAUSE - IMPROPER SCHEDULING. ON JULY 29, A MAIN SYSTEM SERVICE WATER BOOSTER PUMP WAS OUT OF SERVICE FOR REPAIR OF ITS GEAR BREAKER AS REPORTED EARLIER. ON AUG. 7, THE PUMP WAS AGAIN REMOVED FROM SERVICE ON A PLANNED OUTAGE TO CLEAN AND INSTALL A GASKET ON THE PUMP SUCTION STRAINER. THUS, THE PUMP WAS REMOVED FROM SERVICE TWICE BETWEEN NORMAL SURVEILLANCE TESTS. TECH SPECS ALLOW ONLY ONE OUTAGE. OPERATIONS PERSONNEL WILL BE MADE AWARE OF THE NECESSITY OF PROPER SCHEDULING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (END) * MAINTENANCE AND REPAIR * * PUMPS * SHUTDOWN COOLING SYSTEM * TEST INTERVAL * FAILURE, ADMINISTRATIVE CONTROL

100305

SET POINT DRIFT IN INTERMEDIATE RANGE NEUTRON MONITORS AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, NED.

2 PGS. LTR W/RE 75-10 TO NRC OFFICE OF I & E, REGION IV, SEPT. 5, 1975. DOCKET 50-298, TYPE--BWR, NPG--G.E., AE--BURNS & MUE

CAUSE - INSTRUMENT DRIFT. DURING A CONTROLLED SHUTDOWN WITH THE REACTOR AT 350 MW, CALIBRATION TESTS FOUND 3 IRR CHANNELS THAT EXCEEDED THE TECH SPEC LIMIT READING OF 120/125 OF FULL SCALE ON RANGE 10 AT LESS THAN 450 POWER. THE GAINS OF 2 CHANNELS WERE IMMEDIATELY ADJUSTED AS SPECIFIED IN TECH SPECS. THE THIRD CHANNEL COULD NOT BE ADJUSTED. TESTING FOUND THAT THE GAIN OF THE LOW FREQUENCY SECTION OF THE PRE-APP WAS LESS THAN THE DESIGN VALUE. THE PREAMPLIFIER WAS REPAIRED AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (END) * INSTRUMENT, AMPLIFIER * INSTRUMENT, INTERMEDIATE RANGE * INSTRUMENT CALIBRATION * TEST, SYSTEM OPERABILITY * SET POINT * DRIFT * REACTOR SAFETY SYSTEM * ELECTRONIC FUNCTION UNITS * INSTRUMENT, SWITCH * FAILURE, INSTRUMENT

100000

DIESEL GENERATOR FAILS TO RESPOND ADEQUATELY AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, NED.

1 PG. LTR 75-12 TO NRC OFFICE OF I & E, REGION IV, SEPT. 11, 1975. DOCKET 50-298, TYPE--BWR, NPG--G.E., AE--BURNS & MUE

CAUSE - CONTROL AIR LINE LEAKS. DURING A TEST WITH THE REACTOR AT 1415 MW, DIESEL GENERATOR 1 STARTED FROM A MANUAL START INITIATION BUT THEN SHUT DOWN WITHOUT INDICATION OF MALFUNCTION. UPON A SECOND MANUAL START INITIATION, IT PERFORMED AS REQUIRED. FAILURE WAS DUE TO SMALL LEAKS IN 2 CONTROL AIR LINE FITTINGS NEAR THE LUBE OIL PRESSURE VALVE. THE FITTINGS APPARENTLY WERE

100030 CONTINUED

NOT SUFFICIENTLY TIGHTENED FOLLOWING A PREVIOUS REPLACEMENT OF THE PRESSURE VALVE. THE FITTINGS WERE TIGHTENED AND NORMAL START WAS VERIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • PNEUMATIC SYSTEM • PLEAK • PIPES AND PIPE FITTINGS • FAILURE, MAINTENANCE ERROR • FAILURE, EQUIPMENT

100014

SERVICE WATER PUMP REMOVED FROM SERVICE TWICE AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, NEB.

1 PG, OE 75-13 TO NRC OFFICE OF I & E, REGION IV, SEPT. 19, 1975, DOCKET 50-290, TYPE--BWR, MFG--G.E., AE--BURNS & ROE

CAUSE - VIBRATION. WITH THE REACTOR AT 1257 MWt, SERVICE WATER PUMP 12 WAS REMOVED FROM SERVICE TO CHECK AND ADJUST PUMP CLEARANCES DUE TO AN UNUSUAL VIBRATION. THREE DAYS LATER, IT WAS AGAIN REMOVED FROM SERVICE DUE TO SIMILAR VIBRATIONS. CLEARANCES WERE ADJUSTED. IT HAS SINCE REMAINED IN SERVICE. VIBRATION WAS BELIEVED CAUSED BY EITHER FOREIGN MATTER IN THE PUMP OR BY IMPROPER CLEARANCES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • PUMP • AUXILIARY COOLING • VIBRATION • FAILURE, EQUIPMENT • CRUD • FAILURE, MAINTENANCE ERROR

100015

CONTROL ROOM CHARCOAL FILTERS NOT TESTED WHEN REQUIRED AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, NEB.

2 PGS, AO 75-26 TO NRC OFFICE OF I & E, REGION IV, SEPT. 19, 1975, DOCKET 50-290, TYPE--BWR, MFG--G.E., AE--BURNS & ROE

CAUSE - INADEQUATE ADMINISTRATIVE CONTROL. A SAMPLE OF THE CHARCOAL FILTERS IN THE MAIN CONTROL ROOM EMERGENCY VENTILATION SYSTEM WAS NOT ANALYZED AT THE REQUIRED ONCE PER YEAR FREQUENCY TO ASSURE HALOGEN REMOVAL EFFICIENCY OF AT LEAST 99%. A SAMPLE WAS RETESTED AT THE TIME THE OCCURRENCE WAS NOTED. ACTUAL METHYL IODIDE REMOVAL EFFICIENCY OF THE SAMPLE WAS 99.4%. THE APPARENT CAUSE OF THIS HAS BEEN ATTRIBUTED TO INADEQUACY IN ADMINISTRATIVE CONTROL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • TEST INTERVAL • CHARCOAL ADSORBER • FILTERS • CONTROL PANEL/ROOM • VENTILATION SYSTEM • FAILURE, ADMINISTRATIVE CONTROL • TEST, FILTER

100025

DIESEL GENERATOR TRIPS DURING TESTING AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, NEB.

2 PGS, AO 50-290-75-25 TO NRC OFFICE OF I & E, REGION IV, SEPT. 19, 1975, DOCKET 50-290, TYPE--BWR, MFG--G.E., AE--BURNS & ROE

CAUSE - COOPER CONTROL AIR LINE FAILURE. DURING TESTING WITH THE REACTOR AT 1201 MWt, DIESEL GENERATOR 1 TRIPPED AFTER CARRYING 1530 kW FOR 1.5 HOURS. TRIPPING WAS DUE TO LOW CONTROL AIR PRESSURE CAUSED BY A DAMAGED COPPER LINE. THE 1/4 INCH LINE WAS CUT THROUGH FROM VIBRATING AGAINST SHARP EDGES OF ITS HOLDING CLAMP. THE COPPER LINE WAS REPLACED BY A 304 STAINLESS STEEL LINE ON BOTH DIESELS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, TUBING • TUBING • VIBRATION • MATERIAL • MODIFICATION • PNEUMATIC SYSTEM

101096

SENSOR CHECK NOT MADE ON STACK GAS MONITOR AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, NEB.

1 PG, RPT TO NRC OFFICE OF I & E, REGION IV, SEPT. 26, 1975, DOCKET 50-290, TYPE--BWR, MFG--G.E., AE--BURNS & ROE

CAUSE - OPERATOR OVERSIGHT. WHILE REVIEWING SURVEILLANCE PROCEDURES WITH THE REACTOR AT 1253 MWt, IT WAS NOTED THAT A SENSOR CHECK ON THE GR STACK GAS MONITOR HAD NOT BEEN PERFORMED ON THE PREVIOUS DAY AS REQUIRED. THE OTHER MONITOR HAD BEEN CHECKED. A NEWLY LICENSED OPERATOR DID NOT REALIZE OR FORGET THAT HE WAS TO MAKE THE CHECK FROM THE CONTROL ROOM. THE SUPERVISOR OVERLOOKED THE FACT THAT THE CHECK HAD NOT BEEN COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • TESTING • MONITOR, STACK • TEST INTERVAL • FAILURE, OPERATOR ERROR • REVIEW

106997

DIESEL GENERATOR FAILS TO OPERATE AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE, NEB.

2 PGS. AD 75-27 TO NRC OFFICE OF I & E, REGION IV, OCT. 1, 1975, Docket 50-290, TYPE--BWR, NRC--G.E., AE--
BURNS & ROE

CAUSE - LOOSE SET SCREW IN RESET LINKAGE. DURING A TEST WITH THE REACTOR AT 1247 MWt, DIESEL GENERATOR 2 SHUT DOWN UPON REACHING RATED SPEED WITHOUT INDICATION OF MALFUNCTION. TWO SUBSEQUENT ATTEMPTS TO OPERATE FAILED. A LOOSE SET SCREW WAS FOUND IN THE RESET LINKAGE ON THE SAFETY SHUTDOWN VALVE. FAILURE OF THE VALVE TO RESET BLOCKED THE FLOW OF FUEL TO THE DIESEL. THE LOOSE SET SCREW WAS TIGHTENED AND SECURED WITH LOCKTITE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

COOPER (BWR) • GENERATION, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • OPERATOR •
FAILURE, MAINTENANCE ERROR

106998

SGT TRAIN FAILS TO MAINTAIN DIFFERENTIAL PRESSURE AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE, NEB.

2 PGS. AD 50-290-75-20 TO NRC OFFICE OF I & E, REGION IV, OCT. 4, 1975, Docket 50-290, TYPE--BWR, NRC--G.E., AE--
BURNS & ROE

CAUSE - LEAKS IN SECONDARY CONTAINMENT. DURING TESTING OF SECONDARY CONTAINMENT LEAKAGE WITH THE REACTOR SHUT DOWN, STANDBY GAS TREATMENT TRAIN A WOULD MAINTAIN SECONDARY CONTAINMENT AT ONLY - .1 INCH OF WATER RATHER THAN THE -.25 INCH LIMIT. LEAKS WERE FOUND IN THE MAIN STEAM TUNNEL TO THE TURBINE GENERATION BUILDING, THE REACTOR BUILDING ROOF HATCH, AND MAIN HEAT EXCHANGER A ACCESS PLUG. THE ROOF HATCH WAS TIGHTENED, ACCESS PLUG WAS TAPED, AND THE OFF-GAS DILUTION FAN A SECURED. THE REQUIRED PRESSURE WAS OBTAINED. SEALS AROUND THE MAIN STEAM LINE PENETRATIONS WILL BE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

COOPER (BWR) • CONTAINMENT INTEGRITY • LEAK • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • PENETRATIONS,
PRIMARY CONTAINMENT • CONTAINMENT • STANDBY GAS TREATMENT

106790

EMERGENCY AC 69 KV LINE OUT OF SERVICE AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE, NEB.

2 PGS. AD 75-29 TO NRC OFFICE OF I & E, REGION IV, OCT. 7, 1975, Docket 50-290, TYPE--BWR, NRC--G.E., AE--
BURNS & ROE

CAUSE - RESET LINKAGE MALFUNCTION. OPERABILITY OF EMERGENCY AC POWER BUS 16 WAS LOST WHEN A RESET LEVER ON THE 1G5 RELAY MALFUNCTIONED CAUSING A FAULT INDICATION ON THE BUS. OVERTRAVEL OF THE RESET LINKAGE INTRODUCED THE ERRONEOUS FAULT INDICATION WHICH TRIPPED BREAKERS TO THE BUS AND PREVENT RECLOSURE FOR 19 MINUTES UNTIL THE FAULT WAS FOUND AND RESET. DURING THIS TIME THE REACTOR SCRAMMED FROM 1236 MWt FROM LOSS OF FEEDWATER CONTROL. THE RESET LINKAGE OF 1 PHASE OF THE 1G5 RELAY WAS LOOSE CAUSING THE MALFUNCTION. THE FAULTY LINKAGE WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

COOPER (BWR) • ELECTRIC POWER • BREAKER • FAILURE, EQUIPMENT • SCRAM, REACTOR • RELAYS • REACTOR SHUTDOWN •
EMERGENCY POWER, ELECTRIC • REACTOR SHUTDOWN

107507

LIQUID WASTE DISCHARGED WITHOUT PROPER MONITORING AT COOPER

NEBRASKA PUBLIC POWER DISTRICT, BROWNVILLE, NEB.

2 PGS. AD 75-29 TO NRC OFFICE OF I & E, REGION IV, OCT. 23, 1975, Docket 50-290, TYPE--BWR, NRC--G.E., AE--BURNS &
ROE

CAUSE - PERSONNEL ERROR. A DISCHARGE OF THE FLOOR DRAIN TANK WAS INITIATED BUT WAS ISOLATED DUE TO EXCESSIVE BUILDUP OF BACKGROUND RADIATION IN THE DETECTION CHAMBER OF THE RADIOACTIVE MONITOR. THE MONITOR WAS FLUSHED AND THE DISCHARGE WAS AGAIN STARTED. ABOUT 3.5 HOURS LATER, IT WAS DISCOVERED THAT THE PREVIOUS FLUSH HAD NOT BEEN SECURED AND THE TANK DISCHARGE WAS NOT BEING MONITORED. THE DISCHARGE WAS TERMINATED AND THE TANK RESAMPLED. NO RADIOACTIVE RELEASE LIMITS WERE EXCEEDED. PERSONNEL TOOK TO SECURE THE PURGE PRIOR TO STARTING THE RELEASE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

COOPER (BWR) • RADIOACTIVITY RELEASE • RADIATION MONITORS • WASTE DISPOSAL • WASTE DISPOSAL, LIQUID •
FAILURE, OPERATOR ERROR

107784

CONE SPRAY PIPE DAMAGED BY CAD PUMP COUPLING AT COOPER

107764 PLUMBING
NEBRASKA PUBLIC POWER DISTRICT, BRUNSWICK, NEB.
1 P.S. 75-15 TO NRC OFFICE OF I & E, REGION IV, OCT. 29, 1975, DOCKET 50-298, TYPE--BWR, NRC--G.E., AE--BURNS & MUE

CAUSE - PUMP SHAFT FAILURE. WHILE THE REACTOR WAS OPERATING AT 1252 MW, THE COUPLING ON THE PUMP SHAFT IN CONTINUOUS DRIVE PUMP A IMPACTED AND GOUNDED THE 10-INCH CORE SPRAY DISCHARGE LINE TRANSITION OF CS PUMP B. THE GROUND DEPTH WAS LESS THAN 1/8 OF THE NOMINAL WALL THICKNESS. LINE INTEGRITY WAS NOT AFFECTED. THE SHAFT WAS WELDED AND GROUND TO BLEND WITH THE PIPING. THE COUPLING WAS THROWN INTO THE LINE WHEN THE SHAFT BROKE FOLLOWING A BEARING FAILURE IN THE PUMP. THE PUMP WAS REPAIRED BY THE VENDOR AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (EWR) - PUMPAGE - PIPES AND PIPE FITTINGS - CORE SPRAY - FAILURE, EQUIPMENT - BEARING - MOTORS - CONTINUAL RUN DRIVE MECHANISMS

107773
SAMPLE RANGE MONITOR FOUND OUT OF POSITION AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, BRUNSWICK, NEB.
2 P.S. 75-298-75-30 TO NRC OFFICE OF I & E, REGION IV, OCT. 21, 1975, DOCKET 50-298, TYPE--BWR, NRC--G.E., AE--BURNS & MUE

CAUSE - IMMERSED TUBE GEAR. WITH THE REACTOR IN SHUTDOWN CONDITION AND CORE ALTERATIONS IN PROGRESS, SAMPLE RANGE MONITOR C WAS FOUND TO HAVE A IMMERSED TUBE GEAR AND WAS 4 FEET BELOW ITS NORMALLY INSERTED OPERATING LEVEL. TEN FUEL ELEMENTS HAD BEEN MOVED DURING THE TIME THE SRM WAS NOT FULLY INSERTED. AN OPERATOR RETRACTED THE SRM FOR TESTING BUT APPARENTLY FAILED TO ALIGN THE UNDER VESSEL SERVICE PLATFORM IN THE CORRECT POSITION. THE SRM WAS RETRACTED AGAINST THE PLATFORM DAMAGING THE GEAR. THE SRM WAS MANUALLY POSITIVELY. THE FAILED SINTERED GEAR WAS REPLACED WITH A COLD ROLLED STEEL GEAR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (EWR) - INSTRUMENT, STARTUP - OPERATOR HANDLING - FAILURE, OPERATOR ERROR - FAILURE, COMPONENT - CRITICALITY SAFETY

107895
MAIN STEAM ISOLATION VALVE LEAKAGE EXCEEDS LIMIT AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, BRUNSWICK, NEB.
2 P.S. 75-16 TO NRC OFFICE OF I & E, REGION IV, OCT. 29, 1975, DOCKET 50-298, TYPE--BWR, NRC--G.E., AE--BURNS & MUE

CAUSE - ECCENTRICITY OF VALVE STEM DISC. DURING AN OUTAGE, LOCAL LEAK RATE TESTS SHOWED THAT THE OUTBOARD MAIN STEAM ISOLATION VALVE A HAD A LEAK RATE IN EXCESS OF THE 11.5 SCF/M L/M. THE MAIN SEAT WAS IN EXCELLENT CONDITION. THE STEM DISC SEAT WAS FOUND TO BE 25 MILLS OUT OF ROUND WITH RESPECT TO THE SHAFT. THE DISC SEATING SURFACE WAS PITTED BUT NONE EXTENDED ACROSS THE SEAT. THE SEATING SURFACE WAS GROUND AND POLISHED TO BRING IT BACK INTO ALIGNMENT WITH THE SHAFT. COMBINED INBOARD AND OUTBOARD LEAKAGE WAS THEN 1.77 SCF/M.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (EWR) - LEAK RATE - VALVES - CONTAINMENT ISOLATION - MAIN COOLING SYSTEM - TEST, SYSTEM OPERABILITY - TEST, LEAK RATE - STEM

108206
CORE SPRAY VALVE FAILS TO OPEN COMPLETELY AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, BRUNSWICK, NEB.
1 P.S. LTR #UNUSUAL EVENT 75-17 TO NRC OFFICE OF I & E, REGION IV, NOV. 7, 1975, DOCKET 50-298, TYPE--BWR, NRC--G.E., AE--BURNS & MUE

CAUSE - MOTOR OPERATION FAILURE. DURING CORE SPRAY SYSTEM TESTING WITH THE REACTOR SHUTDOWN FOR PULL CHANNEL INSPECTION, LOOP B OUTBOARD ISOLATION VALVE FAILED LOCKING THE VALVE AT 20% OPEN. THE DRIVE GEAR FROM THE MANUAL VALVE ACTUATOR HAD FAILED TO DISENGAGE RESULTING IN SHEARING THE GEAR TEETH. THE CAUSE OF THE MALFUNCTION WAS NOT DETERMINED. FAILED PARTS IN THE MOTOR OPERATOR WERE REPLACED. THE VALVE OPERATED PROPERLY. THIS IS A NORMALLY OPEN VALVE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (EWR) - VALVES - CORE SPRAY - VALVE OPERATIONS - TEST, SYSTEM OPERABILITY - FAILURE, EQUIPMENT - CONTAINMENT ISOLATION

108204
MAIN STEAM RELIEF VALVE PILOT ASSEMBLIES HAVE EXCESSIVE LEAKAGE AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, BRUNSWICK, NEB.
2 P.S. LTR #UNUSUAL EVENT 75-19 TO NRC OFFICE OF I & E, REGION IV, NOV. 10, 1975, DOCKET 50-298, TYPE--BWR,

100204 CONTINUOUS
NRC-G.E., AE--BURNS & ROE

CAUSE - STEAM CUTS IN DISC AND SEAT. WITH THE REACTOR IN SHUTDOWN CONDITION, MAIN STEAM RELIEF VALVE PILOT STAGES WERE LEAK TESTED. FOUR BASE PILOT ASSEMBLIES WERE FOUND TO HAVE STEAM CUTS ON THE PILOT DISC AND PILOT DISC SEAT. ONE ALSO HAD CUTS IN THE SECOND STAGE DISC AND DISC SEAT. ALL DAMAGED SEATING SURFACES WERE REPAIRED. RELIEF PRESSURE SETTINGS WERE CHECKED WITH NITROGEN AND ADJUSTED. ALL VALVES TESTED SATISFACTORILY AT 200 PSIG DURING REACTOR STARTUP. THESE ARE TARIET DUKA MODEL 670 SAFETY/RELIEF VALVES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • PIPES • PRESSURE RELIEF • MAIN COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • DAMAGE

100205
PIN HOLE LEAKS FOUND IN SERVICE WATER LINE AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, OMAHA, IOWA, IOWA.
1 PG. LTR N/AU 50-290-75-10 TO NRC OFFICE OF I & E, REGION IV, NOV. 10, 1975. Docket 50-290, TYPE--BWR.
NRC-G.E., AE--BURNS & ROE

CAUSE - EROSION. WHILE THE PLANT WAS SHUTTING DOWN, SEVERAL PIN HOLE LEAKS WERE FOUND IN THE 18-INCH SERVICE WATER LINE IMMEDIATELY DOWNSTREAM OF THE SECOND BUTTERFLY VALVE IN THE OUTLET OF THE REACTOR BUILDING. LEAKING WATER SYSTEM HEAT EXCHANGER B. ULTRASONIC TESTING INDICATED WALL THICKNESS IN THE AREA TO BE 0.1 INCH INSTEAD OF THE NOMINAL 0.375 INCHES. THE ELBOW CONTAINING THE DAMAGED WALL WAS CUT OFF. EROSION DAMAGE WAS ALSO NOTED ON THE VALVE BODY AND THE ELBOW FLANGE. A NEW ELBOW AND VALVE BODY WERE INSTALLED AND THE FLANGE REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • PIPES AND PIPE FITTINGS • EROSION • AUXILIARY COOLING • FAILURE, PIPE • LEAK

100203
MINOR DAMAGE FOUND ON RELIEF VALVE RAMS HEAD SUPPORTS AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, OMAHA, IOWA, IOWA.
2 PGS. LTR N/AU 50-290-75-20 TO NRC OFFICE OF I & E, REGION IV, NOV. 12, 1975. Docket 50-290, TYPE--BWR.
NRC-G.E., AE--BURNS & ROE

CAUSE - DESIGN DEFICIENCY. DURING THE OCTOBER OUTAGE, THE TUBES WERE DRAINED AND INSPECTED TO EVALUATE THE MAIN STEAM LINE SAFETY/RELIEF VALVE PIPING AND SUPPORT STRUCTURES. NO ABNORMAL CONDITIONS WERE NOTED EXCEPT ON THE RAMS HEAD SUPPORT STRUCTURES. MINOR BENDING AND SOME SHEARING OF CUTTING PINS WAS NOTED ON RETAINING PINS. SHEARING APPEARED TO BE CAUSED BY SUCCESSIVE SMALL LOAD PULSES COUPLED WITH A ROTATION OF THE FLAT WASHERS. THE AS-PLANNED DESIGN WAS CONSIDERED UNACCEPTABLE. TO CORRECT THIS, WASHERS WERE SECURED TO THE PIN USING A 1/4 INCH FILLET WELD ON THE OUTSIDE OF EACH WASHER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • FASTENER • SUPPORT STRUCTURE • PRESSURE RELIEF • PIPES AND PIPE FITTINGS • DISCHARGE • TORUS • SURVEILLANCE PROGRAM • FAILURE, DESIGN ERROR • VALVES

100207
PRIMARY CONTAINMENT ATMOSPHERE OXYGEN EXCEEDS LIMIT AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, OMAHA, IOWA, IOWA.
2 PGS. LTR N/AU 50-290-75-31 TO NRC OFFICE OF I & E, REGION IV, NOV. 12, 1975. Docket 50-290, TYPE--BWR. NRC-G.E., AE--BURNS & ROE

CAUSE - IMPROPER SCHEDULING OF PURGING. WITH THE REACTOR AT 30% POWER, CONTROL ROOMS WERE BEING SCRAM TESTED AND OXYGEN/TORUS WAS BEING PURGED WITH NITROGEN. IT WAS THOUGHT THAT THE OXYGEN CONCENTRATION WAS LESS THAN THE 4% WITHIN 24 HOURS OF START. LATER IT WAS DETERMINED THAT THE TORUS CONTAINED 8.5% OXYGEN. SCRAM TESTING OF THE CONTROL ROOMS WAS COMPLETED PRIOR TO STARTING A SHUTDOWN. BY THE TIME THE TEST WAS COMPLETE, THE OXYGEN CONCENTRATION WAS LESS THAN 4%. THE LIMIT WAS EXCEEDED FOR 3 HOURS 47 MINUTES. OPERATOR FAILED TO PROPERLY SCHEDULE NITROGEN FOR INITIAL PURGING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

COOPER (BWR) • OXYGEN • CONCENTRATION • TORUS • CONTAINMENT ATMOSPHERE, INERT • FAILURE, OPERATOR ERROR

100344
HYDROGEN EXPLOSION BURNS A WORKER AT COOPER
NEBRASKA PUBLIC POWER DISTRICT, OMAHA, IOWA, IOWA.
4 PGS. AU 50-290-75-32 TO NRC OFFICE OF I & E, REGION IV, NOV. 17, 1975. Docket 50-290, TYPE--BWR. NRC-G.E., AE--BURNS & ROE

CAUSE - UNAUTHORIZED WIRING CHANGE ON VALVE. WITH THE REACTOR OPERATING AT 60% POWER, PERSONNEL

2

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2

1

[illegible]

100004 CONTINUING

WILL NOT BE ATTEMPTED IN THE IMMEDIATE FUTURE. THE CAUSE OF FAILURE IS UNKNOWN AT THIS TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

COOPER (LHM) - PHYSICS, TEMPERATURE - MONITOR - DRIVER - MONITORING PROGRAM, ENVIRONMENTAL - FAILURE,
INSTRUMENT

100000

ISOLATION VALVE TYPE PENETRATIONS LEAK EXCESSIVELY AT COOPER
KEMASIA PUBLIC PLANT DISTRICT, DUNSMITH, NE

2 PAGES, LETTER TO NRC OFFICE OF 1 & 2, REGION IV, NOV. 28, 1975, DOCKET 50-290, TYPE--BWR, NRC--G.E., AE--
JUNES & ALE

CAUSE - SEAT AND WASHER LEAKS. DURING THE OCTOBER SHUTDOWN, ALL PRIMARY CONTAINMENT DOUBLE O-RING
SEALS, TESTABLE BELLINGS, ELECTRICAL PENETRATIONS, AND TESTABLE ISOLATION VALVES WERE LEAK TESTED.
OF THE 83 PENETRATIONS TESTED, 14 LEAKED EXCESSIVELY. ALL 14 WERE ISOLATION VALVE TYPE
PENETRATIONS. TOTAL UNCONTAINED LEAKAGE WAS REDUCED FROM 900 SCFH TO 121.74 SCFH BY REPAIRS.
FLANGE WASHERS WERE REPLACED AND SEATS AND SEALING SURFACES CLEANED AND LAPPED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

COOPER (LHM) - LEAK RATE - OPERATIONS, PRIMARY CONTAINMENT - CONTAINMENT ISOLATION - VALVES - TEST, SYSTEM
OPERABILITY - TEST, LEAK RATE - CONTAINMENT - SEAL

100009

WATER VALVE FROM DEMINERALIZED WATER TANK FAILS AT ORESSEN I

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, FEBRUARY 20, 1975, DOCKET 50-10, TYPE--
BWR, NRC--G.E., AE--DECHTEL

CAUSE - FREEZING TEMPERATURES. DURING AN INSPECTION WHILE OPERATING AT 505 MW, WATER WAS FOUND
TO BE LEAKING FROM THE DRAIN VALVE OF A CONTAMINATED DEMINERALIZED WATER STORAGE TANK AT ABOUT
6 GPM. THIS WATER WAS DRAINING TO THE STORM DRAIN. TEMPORARY REPAIRS WERE MADE WHILE
TRANSPORTING THE WATER TO THE HOLDING. THE DRAIN VALVE HAD CRACKED. IT WAS REPLACED. THE AREA
EXPERIENCED SUB-FREEZING TEMPERATURES FOR SEVERAL DAYS. IT APPEARS THAT ICE FORMED INSIDE
THE VALVE, EXPANDED, AND CRACKED THE VALVE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ORESSEN I (BWR) - FAILURE, EQUIPMENT - REACTOR COOLANT - STORAGE CONTAINER - RADIOACTIVITY RELEASE - FAILURE,
DESIGN ERROR - LEAK - WEATHER, SEVERE - VALVES

100010

TEMPERATURE DESIGN DEFICIENCY OF PRIMARY CONTAINMENT EQUIPMENT AT ORESSEN I

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 20, 1975, DOCKET 50-10, TYPE--
BWR, NRC--G.E., AE--DECHTEL

CAUSE - PURCHASE ORDER DEFICIENCY. A CONDITION HAS BEEN IDENTIFIED WHICH CONCERNS THE POSSIBLE
FAILURE OF EQUIPMENT IN THE SPHERE IF AN AMBIENT TEMPERATURE OF 200 F IS EXPERIENCED.
TEMPERATURE RATINGS FOR EQUIPMENT WERE NOT SPECIFIED ON THE ORIGINAL PURCHASE ORDERS BY THE AE.
AT THE PRESENT TIME IT IS UNCERTAIN IF ANY SAFETY IMPLICATIONS EXIST. VENDORS ARE BEING
CONTACTED AND DOCUMENTATION WILL BE PROVIDED ON NEEDED CHANGES MADE. THUS FAR ONLY ONE MINOR
CHANGE HAS BEEN REQUIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

ACCIDENT - CONTAINMENT - DESIGN CRITERIA - ORESSEN I (BWR) - FAILURE, DESIGN ERROR - REVIEW - EQUIPMENT -
THERMAL TRANSIENT - TEMPERATURE - INSTRUMENTS, MISC.

100200

CUMULATIVE SPRAY VENT LINE HELD LEAKS AT ORESSEN I

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER TO NRC DIV. OF REGULATORY OPERATIONS, REGION 3, APRIL 21, 1975, DOCKET 50-10, TYPE--BWR, NRC--
G.E., AE--DECHTEL

CAUSE - SLAG INCLUSION IN WELD. DURING A UNIT STARTUP WITH THE REACTOR AT 50 MW, THE SPHERE WAS
PLACED ON AN AIRBORNE STATUS. THE CAUSE WAS FAILURE OF THE PIPE-TO-COUPLING SOCKET WELD IN A
SPR-10. CUMULATIVE SPRAY VENT LINE TO THE P2100 SYSTEM PRIMARY STEAM HEAD. THE PINHOLE LEAK
WAS CAUSED BY A SLAG INCLUSION IN THE WELD AND POOR ADHESION OF THE WELD MATERIAL. THE LINE WAS
ISOLATED. LATER, THE AFFECTED COUPLING AND SHORT SECTIONS OF PIPE ON EACH SIDE OF THE COUPLING
WERE REMOVED AND REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

102700 OJUTINADJ
CHARGE \$2.00

DRESDEN 1 (000) • PIPES AND PIPE FITTINGS • BELLWIS • CLEAN • CORE SPRAY • HEADLINE, PIPE • FAILURE, INSTALLATION ERROR

103062

UNPLANNED RELEASE OF WATER FROM ARSEN VAPOR AT DRESDEN 1
COMMONWEALTH EDISON CO., ILLINOIS
3 PAGES, LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MAY 24, 1975, DOCKET 50-10, TYPE--DNR, NRC--
C.E., AE--DECEMBER

CAUSE - OPERATOR ERROR. WHILE ATTEMPTING TO DRAIN THE SLUDGE TANK TO THE RADIOACTIVE COLLECTION TANK, THE OPERATOR INADVERTENTLY STARTED THE WASTE PUMP. THE PUMP THAT WAS STARTED DRAINED THE SLUDGE TANK TO A 700 GALLON STORAGE TANK. THE TANK WAS EMPTIED IN ABOUT 6 HOURS. ABOUT 19,700 GALLONS OF WATER AND 100 CU. FT. OF RESIN WERE TRANSFERRED. MOST OF THE RESIN WAS RETAINED IN THE TANK. THE WATER FLOWED THROUGH CRACKS IN THE BUILDING INTO THE GROUND. THE WATER CONTAINED ABOUT 0.6 CI OF RADIOACTIVITY. ALL DECAY OPERATIONS HAVE BEEN TERMINATED UNTIL THE ORIGINAL WASTE PUMP IS RETURNED TO SERVICE AND TEMPORARY PUMPS ARE HARD PIPED IN PLACE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 1 (000) • RADIOACTIVITY RELEASE • WASTE HANDLING • FAILURE, OPERATOR ERROR

103100

STEAM EXTRACTION NOZZLE LEAKS AT DRESDEN 1
COMMONWEALTH EDISON, CHICAGO
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 3, 1975, DOCKET 50-10, TYPE--DNR, NRC--C.E., AE--DECEMBER

CAUSE - EROSION BY HUMIDITY IN STEAM. DURING A ROUTINE INSPECTION WHILE THE REACTOR WAS OPERATING AT 521 MW, AN OPERATOR FOUND WATER ON THE FLAN OF THE TURBINE PIPEWAY. THE LEAK WAS IN ONE OF SEVEN STEAM EXTRACTION TURBINE NOZZLES. THE APPARENT CAUSE WAS EROSION OF THE NOZZLE AT HIGH HUMIDITY CONTENT STEAM DURING 15 YEARS OF SERVICE. THE UNIT WAS SHUTDOWN FOR REPAIR. THE LEAK WAS SEALED BY BUILDING UP THE PIPE AREA WITH JELD MATERIAL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 1 (000) • NOZZLE • PIPES AND PIPE FITTINGS • TURBINE • SEAM • LEAK • EROSION • HEADLINE, PIPE • REACTOR SHUTDOWN • MAIN COOLING SYSTEM

103109

CORE SPRAY - REACTOR PRESSURE PERMISSIVE SWITCH FAILS AT DRESDEN 1
COMMONWEALTH EDISON, CHICAGO
1 PAGE, LETTER TO NRC DIRECTORATE OF LICENSING, JUNE 5, 1975, DOCKET 50-10, TYPE--DNR, NRC--C.E., AE--DECEMBER

CAUSE - BELLWIS SEAL RUPTURE. DURING CALIBRATION OF THE REACTOR PRESSURE TO CORE SPRAY HEADER PRESSURE PERMISSIVE SWITCH, THE SWITCH FAILED TO OPERATE. THE BELLWIS SEAL OF THE SWITCH WAS RUPTURED. THE CONTACTS WERE JUMPERED CLOSED UNTIL THE SWITCH COULD BE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 1 (000) • INSTRUMENT SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • CLEAN • SEAL • CORE SPRAY

103400

SENIOR REACTOR OPERATOR LICENSE EXPIRES AT DRESDEN 1
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 12, 1975, DOCKET 50-10, TYPE--DNR, NRC--C.E., AE--DECEMBER

CAUSE - OPERATOR ERROR. ON JUNE 5, 1975, IT WAS DISCOVERED THAT A SENIOR REACTOR OPERATOR'S LICENSE HAD EXPIRED. THE LICENSE HAD AN EFFECTIVE DATE OF 12-9-72 AND AN EXPIRED DATE OF 6-20-73. THE FACILITY AND THE LICENSEE USED THE EXPIRED DATE RATHER THAN THE EFFECTIVE DATE AS A BASIS FOR LICENSE RENEWAL. THE LICENSEE HAS SUBMITTED A LICENSE RENEWAL APPLICATION. HE WILL NOT FUNCTION AS A SENIOR REACTOR OPERATOR UNTIL THE RENEWAL IS RECEIVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 1 (000) • FAILURE, OPERATOR ERROR • ALL BUSE STATUS • CERTIFICATION • STAFFING

103107

CORE SPRAY VALVE FAILS TO OPEN AT DRESDEN 1

109107 *CONTINUED*
COMMONWEALTH EDISON COMPANY, CHICAGO
2 PGS. LTR TO THE DIR. OF REGULATORY OPERATIONS, REGION 3, AUG. 7, 1975, BUCKET 50-10, TYPE--DNR, NRC--C.E.,
AC--DECMTEL

CAUSE - CRUD ON STEM, DURING A CORE SPRAY VALVE OPERABILITY TEST WITH THE REACTOR AT 675 PSIG, A VALVE FAILED TO OPERATE FROM THE CONTROL ROOM. AN ACCUMULATION OF CRUD WAS FOUND ON THE VALVE STEM SECTION TRANSVERSE OF THE DRIVING SHAFT. THE CRUD WAS LOOSED IN THE THREADS CAUSING THE STEM TO BIND. THE VALVE WAS CLEANED. PROTECTIVE COVERS WERE INSTALLED ON THE VALVE STEMS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DESIGN 1 (DNR) * VALVES * CORE SPRAY * TEST, SYSTEM OPERABILITY * FAILURE, EQUIPMENT * FAILURE, MAINTENANCE ERROR * PLANT

109207
DIESEL FIRE PUMP TRIPS AT DESIGN 1
COMMONWEALTH EDISON, ILL.
2 PGS. LTR TO THE DIR. OF REGULATORY OPERATIONS, REGION III, SEPT. 8, 1975, BUCKET 50-10, TYPE--DNR, NRC--C.E., AC--DECMTEL

CAUSE - FAULTY SOLENOID VALVE. DURING OPERATION OF THE 2/3 DIESEL FIRE PUMP TO SUPPORT DELUGE FIRE PROTECTION TESTING WITH THE REACTOR AT 545 PSIG, THE FIRE PUMP TRIPPED. THE PUMP WAS RESTARTED AND TRIPPED AGAIN. A FAULTY PUMP SOLENOID RESULTED IN INADEQUATE FUEL FLOW CAUSING THE ENGINE TO STALL. THE FAILED SOLENOID WAS REPLACED AND THE FIRE PUMP RETURNED TO SERVICE WITHIN 24 HOURS OF THE OCCURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DESIGN 1 (DNR) * PUMPS * FIRE PROTECTION * TEST, SYSTEM OPERABILITY * FAILURE, EQUIPMENT * VALVES * SOLENOID * FUEL, FOSSEL * ENGINES, INTERNAL COMBUSTION

109322
UNLOADING HEAT EXCHANGER RETURN LINE CRACKS AT DESIGN 1
COMMONWEALTH EDISON, ILL.
2 PGS. LTR TO THE DIR. OF REGULATORY OPERATIONS, REGION III, OCT. 11, 1975, BUCKET 50-10, TYPE--DNR, NRC--C.E., AC--DECMTEL

CAUSE - UNKNOWN. WHILE THE REACTOR WAS OPERATING AT 660 PSIG, STEAM WAS FOUND TO BE BLOWING FROM A 0-100 UNLOADING HEAT EXCHANGER RETURN LINE TO THE REACTOR ON A NON-ISOLATABLE PORTION OF THE LINE. A 1-INCH CRACK WAS FOUND IN A WELD. THE CAUSE IS UNKNOWN AT THIS TIME. PREVIOUS FAILURES SUGGEST STRESS CORROSION. ALL THE LINE FROM THE 10-INCH MEMBER TO THE ISOLATION VALVES WAS REPLACED AS A PRECAUTIONARY MEASURE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DESIGN 1 (DNR) * PIPES AND PIPE FITTINGS * MAIN COOLING SYSTEM * FAILURE, PIPE * LEAK * STRESS CORROSION * REACTOR SHUTDOWN * CRACK * HEAT EXCHANGERS * WELDS

109907
SPHERE VENTILATION EXHAUST VALVES LEAK EXCESSIVELY AT DESIGN 1
COMMONWEALTH EDISON, CHICAGO, ILL.
2 PGS. LTR TO THE DIR. OF REGULATORY OPERATIONS, REGION III, OCT. 1, 1975, BUCKET 50-10, TYPE--DNR, NRC--C.E., AC--DECMTEL

CAUSE - UNKNOWN. WITH THE UNIT IN THE REFUEL MODE, A LOCAL LEAK RATE TEST OF THE SPHERE VENTILATION ISOLATION VALVES FOUND THAT THE 2 EXHAUST VALVES HAD EXCESSIVE LEAK RATES. ALTHOUGH VALVE SEAL FAILURE IS CONSIDERED A PROBABLE CAUSE, THE FAILURE MODE CANNOT BE ESTABLISHED UNTIL THE VALVES HAVE BEEN DISASSEMBLED. CORRECTIVE ACTION WILL DEPEND ON THE RESULTS OF THE EXAMINATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DESIGN 1 (DNR) * VALVES * LEAK RATE * CONTAINMENT ISOLATION * CONTAINMENT PUMP * TEST, SYSTEM OPERABILITY * TEST, LEAK RATE * REFUELING

109908
SUPPLEMENTAL REPORT ON LEAKAGE THROUGH CONTAINMENT ISOLATION VALVES AT DESIGN 1
COMMONWEALTH EDISON CO., CHICAGO, ILL.
1 PG. SUPPL. RPT, 50-10711-10 TO THE DIRECTORATE OF REGULATORY OPERATIONS, REGION III, NOV. 3, 1975, BUCKET 50-10, TYPE--DNR, NRC--C.E., AC--DECMTEL

CAUSE - RUBBER SEAT MATERIAL DEFORMATION. THREE VENTILATION EXHAUST ISOLATION VALVES EXHIBITED EXCESSIVE LEAKAGE DURING LOCAL LEAK RATE TESTS AS REPORTED EARLIER. EXAMINATION REVEALED SIGNIFICANT DEFORMATION OF THE RUBBER SEAT MATERIAL. SMALL PARTICLES BEING ENCAPSULATED PRODUCED

10703 CONTINUED

A SAND-BLASTING EFFECT. NEW ASBESTOS-FILLED, TEFLON-COATED SEATS THAT SHOULD BE EXTREMELY DURABLE ARE IN ORDER AND WILL BE INSTALLED SOON AFTER DELIVERY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

UNDESIGN 1 (END) • VALVES • CONTAINMENT ISOLATION • CONTAINMENT PURGE • PSEI • PERIODIC • FAILURE, DESIGN ERROR • MATERIAL • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE

10006

UNPLANNED RADIOACTIVITY RELEASE TO INTAKE CANAL AT DRESDEN 1

COMMONWEALTH EDISON CO., CHICAGO, IL

3 PGS. IN 50-1075-15 TO DIRECTORATE OF REGULATORY OPERATIONS, REGION III, DEC. 10, 1975, DOCKET 50-10, TYPE--
 OWN, RW--G.E., AE--DESIGN

CAUSE - CRACKED FINE SYSTEM PIPE. DURING THE REFUELING OUTAGE, A DITCH WAS EXCAVATED TO CONNECT THE OFF-GAS HOLD-UP LINE TO THE NEWLY-CONSTRUCTED OFF-GAS SUPPRESSION SYSTEM. SOME RADIOACTIVE MATERIAL FROM WITHIN THE HOLD-UP LINE CONTAMINATED THE GROUND ADJACENT TO THE OPEN LINE. HEAVY RAINS FILLED THE DITCH WITH WATER. THIS PRODUCED A CRACK IN AN UNSUPPORTED FINE SYSTEM WATER LINE WHICH TRAVERSED THE DITCH. THE LEAKAGE WAS OBSERVED FOR SOME TIME BY THE GENERALLY PLANNED CURTAIN OF THE AREA. THE DITCH OVERFLOODED INTO THE INTAKE CANAL AT AN ESTIMATED RATE OF 100 GPM. NO RELEASE LIMITS WERE EXCEEDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

UNDESIGN 1 (END) • RADIOACTIVITY RELEASE • WEATHER, SEVERE • OFF GAS • MODIFICATION • FAILURE, PIPE • FIRE PROTECTION • LEAK • CONTAMINATION • FAILURE, INSTALLATION ERROR • REFUELING

09020

SUSPECTED FAILURE OF LPCI SELECT LOGIC RELAY AT DRESDEN 2

COMMONWEALTH EDISON, ILLINOIS

3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3 (ACT), JANUARY 7, 1975, DOCKET 50-237, TYPE--
 OWN, RW--G.E., AE--SET & LUMPY

CAUSE - IMPROPER JUMPER. DURING PREPARATIONS FOR REPAIRS TO THE RECIRCULATION LOOP DISCHARGE VALVE BYPASS LINE, JUMPERS WERE PLACED AROUND 4 SWITCHES IN THE LPCI SELECT CONTROL LOGIC. ONE RELAY FAILED TO MAKEUP. CARBON AND OXIDATION WERE OBSERVED ON IT. THE RELAY WAS REPLACED. HOWEVER, THE RELAY HAD NOT FAILED BUT ONE JUMPER WAS NOT INSTALLED PROPERLY. THE ERROR WAS CORRECTED. THE CARBON AND CORROSION ON THE REMOVED RELAY ARE THOUGHT TO HAVE RESULTED FROM THE NUMEROUS ACTUATIONS OF THE RELAY DUE TO PRESSURE FLUCTUATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MAINTENANCE AND REPAIR • DRESDEN 2 (END) • REFUELING • FAILURE, MAINTENANCE ERROR • BYPASS • RELAYS • LPCI

09226

SET POINT DRIFT IN LEVEL SWITCH AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 20, 1975, DOCKET 50-237, TYPE--
 OWN, RW--G.E., AE--SET & LUMPY

CAUSE - MISALIGNMENT OF SWITCH. DURING REFUELING TESTING OF THE EMERGENCY CORE COOLING LOW WATER LEVEL, A SWITCH TRIPPED AT 120 INCHES OF WATER WHICH EXCEEDS THE 114.3 INCH LIMIT. THE REARDED SWITCH WAS MISALIGNED SO THAT THE SWITCH CONTACT WAS NOT POSITIONED PARALLEL WITH THE SWITCH MAGNET. THE SWITCH WAS POSITIONED CORRECTLY AND THE SET POINT ADJUSTED TO 112.0 INCHES. THIS IS A VARIETY MODEL 4410C LEVEL INDICATIONS SWITCH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION • DRESDEN 2 (END) • INSTRUMENT, SWITCH • REFUELING • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • SET POINT • EMERGENCY COOLING SYSTEM • ON OFF • SENSORS, LEVEL

09270

CORE SPRAY PUMP DISCHARGE CHECK VALVE FAILS AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 21, 1975, DOCKET 50-237, TYPE--
 OWN, RW--G.E., AE--SET & LUMPY

CAUSE - FAILURE TO SEAT PROPERLY. FOLLOWING CORE SPRAY TESTING, THE CORE SPRAY HEADER FAILED TO PRESSURIZE. THE ECCS FILL PUMP NORMALLY MAINTAINS SYSTEM PRESSURE AT 100 PSIG. AFTER THE TEST, THE PRESSURE DID NOT EXCEED 10 PSIG. THE CORE SPRAY PUMP DISCHARGE STOP CHECK VALVE FAILED TO SEAT PROPERLY. FOLLOWING MANUAL CYCLING, THE VALVE SEATED PROPERLY. THE REACTOR WAS SHUTDOWN FOR REFUELING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM

07A270 CONTINUED
CHARGE \$2,000

CORE SPRAY • FAILURE, EQUIPMENT • DRESDEN 2 (UHR) • REFUELING • TEST, SYSTEM OPERABILITY • PRESSURE, INTERNAL
• VALVE, CHECK

070367
CORE SPRAY PUMP DISCHARGE STOP CHECK VALVE FAILS AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
1 PAGE, LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 3 (UHC), JANUARY 28, 1975, BUCKET 50-237, TYPE--
OUR, RFG--G.E., AC--SGT E LUNDY

CAUSE - FAILURE TO SEAT PROPERLY. FOLLOWING CORE SPRAY TESTING, CORE SPRAY DISCHARGE HEADER B
FAILED TO PRESSURIZE. NORMALLY, THE RECS FULL PUMP MAINTAINS PRESSURE AT 100 PSIG. AFTER THE
TEST, THE PRESSURE DID NOT GO ABOVE 10 PSIG. THE DISCHARGE STOP-CHECK VALVE FAILED TO SEAT
PROPERLY. AFTER THE VALVE WAS CYCLED NORMALLY, IT SEATED PROPERLY. THIS OCCURRED DURING THE
REFUELING OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2,000

CORE SPRAY • FAILURE, EQUIPMENT • DRESDEN 2 (UHR) • REFUELING • TEST, SYSTEM OPERABILITY • VALVE, CHECK

070512
CRACKS FOUND IN FEEDWATER SPRAYER AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
13 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 27, 1975, BUCKET 50-237, TYPE--
OUR, RFG--G.E., AC--SGT E LUNDY

CAUSE - FLOW INDUCED VIBRATION. DURING A SCHEDULED REFUELING OUTAGE INSPECTION OF THE FEEDWATER
SPRAYER, 2 CRACKS WERE FOUND ON THE UPPER PART OF THE PIPE TO JUNCTION BOX WELD AREA. ONE ON EACH
SIDE OF THE JUNCTION BOX. INSPECTION AND GA COLO FLOW TESTS INDICATED THAT THE PRIMARY CAUSE WAS
THAT THE DESIGN OF THE FEEDWATER SPRAYERS RENDERED THEM SUSCEPTIBLE TO A CONDITION OF FLOW
INDUCED VIBRATION. INSTALLATION AND SERVICE CONDITIONS MAY BE CONTRIBUTING FACTORS. THE
SPRAYERS WILL BE REPLACED WITH ONES OF A MODIFIED DESIGN. SAFETY CONSEQUENCES OF A FEEDWATER
SPRAYER FAILURE ARE ACCEPTABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2,000

FAILURE, PIPE • DRESDEN 2 (UHR) • MODIFICATION • REFUELING • FAILURE, FATIGUE • FAILURE, DESIGN ERROR • REMOVE
A. IMULATING AND VIEWING • VIBRATION • FLOW • FEEDWATER • PIPES AND PIPE FITTINGS

070510
4 KV BREAKER C PHASE OVERCURRENT RELAY DISABLED AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 30, 1975, BUCKET 50-237, TYPE--
OUR, RFG--G.E., AC--SGT E LUNDY

CAUSE - MODIFICATION ERROR. WHILE TRIP CHECKING THE 4 KV BREAKERS WITH THE REACTOR IN REFUEL
MODE, IT WAS FOUND THAT ON A C PHASE OVERCURRENT CONDITION, THE BLOCK CLOSE RELAY FAILED. WHILE
TRACING THROUGH THE WIRING OF THE C PHASE TIME DELAY OVERCURRENT RELAY, THE POSITIVE LEAD WAS
FOUND TO BE DISCONNECTED. DURING BUS REVISION IN 1969, THE PHASE OVERCURRENT TRIP WAS ELIMINATED
FROM THIS BREAKER. THE WIRING LEAD WAS LIFTED. PAST MAINTENANCE TESTING WAS NOT AS EXPLICIT THEN
AS TODAY SO THE ERROR WAS NOT DETECTED. THE OVERCURRENT RELAY WAS RECONNECTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2,000

INSTRUMENT, PROTECTIVE • DRESDEN 2 (UHR) • MODIFICATION • REFUELING • TEST, SYSTEM OPERABILITY • FAILURE,
MAINTENANCE ERROR • CABLES AND CONNECTIONS • BREAKER • RELAYS

070401
CRACKS IN CORE SPRAY LINES AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
14 PAGES, OFFICE OF INSPECTION AND ENFORCEMENT NOTIFICATION ON AN INCIDENT
OF OCCURRENCE NO. 143, JANUARY 30, 1975, BUCKET 50-237, TYPE--OUR, RFG--G.E., AC--SGT E LUNDY

CAUSE - UNKNOWN. CRACKS WERE FOUND IN BOTH OF THE CORE SPRAY LINES. MOISTURE WAS OBSERVED ON THE
SURFACES WHEN THE INSULATION WAS REMOVED IN PREPARATION FOR INSERVICE INSPECTION. TWO
LONGITUDINAL CRACKS WERE OBSERVED AT THE HEAT AFFECTED ZONE ON LOOP-A OUTLETMAN TO SAFE-END WELD.
ONE CRACK WAS 3/4-IN. LONG AND THE OTHER 1/2-IN. LONG. A 3/8-IN. CIRCUMFERENTIAL CRACK WAS FOUND
IN THE LOOP-A OUTLETMAN TO INLET PIPE. TWO 1/8-IN. CIRCUMFERENTIAL CRACKS WERE OBSERVED IN THE
LOOP-B OUTLETMAN TO PIPE WELD HEAT AFFECTED ZONE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2,000

CORE SPRAY • FAILURE, PIPE • WELDS • STEEL, STAINLESS • DRESDEN 2 (UHR) • DAMAGE • HEAT TREATMENT • LEAK •

000001 COUNTING UP
PIPS AND PIPE FITTINGS

000002
DIESEL GENERATOR TRIPS ON MECHANICAL OVERSPEED AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 30, 1975, DOCKET 50-237, TYPE--
DNR, NRC-G.E., AE--SGT & LUNDY

CAUSE - INADEQUATE DROOP SETTING. THE UNIT 2/3 DIESEL GENERATOR WAS SHUTDOWN FOLLOWING A 6 HOUR
DUE. ABOUT 10 MINUTES LATER, AN ATTEMPT TO MANUALLY START THE DIESEL RESULTED IN IT TRIPPING ON
MECHANICAL OVERSPEED. THE APPARENT CAUSE IS THE PRACTICE OF RESETTNG THE DROOP AT 5 AFTER THE
ENGINE IS SHUTDOWN. ON A HOT START WITH THIS SETTING THE DIESEL WILL HAVE A TENDENCY TO
OVERSPEED. THIS DOES NOT HAPPEN ON A COLD START. THE VENDOR RECOMMENDED THAT THE DROOP BE SET
BEFORE ENGINE SHUTDOWN RATHER THAN AFTERWARDS. PROCEDURES WERE CHANGED TO DO THIS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PROCEDURES AND MANUALS • DRESDEN 2 (DNR) • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN ERROR • ENGINES,
INTERNAL COMBUSTION • GENERATOR, DIESEL

000009
CORE HEIGHT PERMISSIVE SET POINT EXCEEDS LIMIT AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 31, 1975, DOCKET 50-237, TYPE--
DNR, NRC-G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING THE REFUELING OUTAGE, TANKWAY SWITCHES WERE BEING INSPECTED FOR LOOSE
MERCURY SWITCH MOUNTING SCREWS. ONE AS FOUND SET POINT FOR A 2/3 CORE HEIGHT WATER LEVEL SENSOR
WAS 250 INCHES UP WATER WHICH IS 1 INCH ABOVE THE LIMIT. AFTER TIGHTENING 1 OF THE 2 MOUNTING
SCREWS, THE SET POINT WAS FOUND TO HAVE MOVED TO 254 INCHES WHICH IS WITHIN LIMITS. THE CAUSE
OF THIS SHIFT IS UNKNOWN. LOTOE WAS APPLIED TO THE SCREW HEADS.

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CHARGE \$2.00

INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • DRESDEN 2 (DNR) • INSTRUMENT, SWITCH • REFUELING • TEST, SYSTEM
OPERABILITY • SET POINT • DRIFT • SENSORS, LEVEL

000011
CORE SPRAY PUMP DISCHARGE CHECK VALVE FAILS AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 31, 1975, DOCKET 50-237, TYPE--
DNR, NRC-G.E., AE--SGT & LUNDY

CAUSE - FAILURE TO SEAT. FOLLOWING A CORE SPRAY TEST DURING THE REFUELING OUTAGE, THE CORE SPRAY
DISCHARGE MANIFOLD FAILED TO PRESSURIZE. THE APPARENT CAUSE WAS FAILURE OF THE CORE SPRAY PUMP
DISCHARGE STOP CHECK VALVE TO SEAT PROPERLY. THE VALVE WAS MANUALLY CYCLED. IT THEN SEATED
PROPERLY. THIS SAME VALVE HAD A SIMILAR FAILURE 11 DAYS EARLIER. IT HAD BEEN EXAMINED, CLEANED,
AND REPAIRED. IF IT FAILS AGAIN, IT WILL BE EXAMINED IN THE STICKING POSITION IN AN ATTEMPT TO
SOLVE THE PROBLEM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CORE SPRAY • FAILURE, EQUIPMENT • DRESDEN 2 (DNR) • REFUELING • TEST, SYSTEM OPERABILITY • VALVE, CHECK

000014
MPCI VALVE FAILS TO OPEN COMPLETELY AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 31, 1975, DOCKET 50-237, TYPE--
DNR, NRC-G.E., AE--SGT & LUNDY

CAUSE - PYRONE SWITCH MALFUNCTION. DURING TESTING OF THE MPCI LOGIC WHILE THE REACTOR WAS
SHUTDOWN FOR REFUELING, A VALVE STOPPED IN THE MID-POSITION. THE MOVABLE CONTACTS ON THE PYRONE
SWITCH WERE ROTATED SUCH THAT ONLY 100 OF THE CONTACT SURFACE WAS MAKING UP. THE SWITCH WAS NOT
MAKING UP THE 100 CONTACT AREA. AFTER CLEANING AND POSITIONING THE CONTACTS, THE
VALVE OPERATED SATISFACTORILY. THE SCREW WAS HOLDING THE CONTACTS TIGHTLY INDICATING THAT THE
SWITCH PROBABLY HAD BEEN INSTALLED IMPROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT • DRESDEN 2 (DNR) • INSTRUMENT, SWITCH • REFUELING • TEST, SYSTEM OPERABILITY • FAILURE,
INSTALLATION ERROR • VALVES • MPCI

093403

TWO ADJACENT CONTROL BLADES WITHDRAWN DURING ROD DRIVE OVERHAUL AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

5 PAGES, LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, FEBRUARY 3, 1975, DOCKET 50-237, TYPE--
DNR, NRC--G.E., AE--SGT & LUNDY

CAUSE - OPERATOR ERROR. CONTROL ROD DRIVE OVERHAUL WAS IN PROGRESS DURING A REFUELING OUTAGE. A REPAIRED DRIVE WAS INSTALLED AT 10-35 AND AN ATTEMPT TO REMOVE DRIVE 10-11 ENCOUNTERED DIFFICULTY. A TEMPORARY PROCEDURE CHANGE WAS MADE TO SKIP DRIVE 10-11 AND PROCEED TO THE NEXT STEP WHICH WAS DRIVE 4-35. BECAUSE OF THIS CHANGE, DRIVE 4-35 WAS WITHDRAWN BEFORE DRIVE 10-35 WAS RETURNED TO SERVICE AND INSERTED SO THAT 2 ADJACENT CONTROL BLADES WERE WITHDRAWN AT THE SAME TIME. ABOUT 1.5 HOURS LATER, THE ERROR WAS NOTICED AND DRIVE 10-35 WAS RE-INSERTED. PROCEDURES HAVE BEEN MODIFIED TO PREVENT RECURRENCE. NO DAMAGE OCCURRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, OPERATOR ERROR • MAINTENANCE AND REPAIR • PROCEDURES AND MANUALS • REACTIVITY EFFECT • SHUTDOWN
MARGIN • DRESDEN 2 (DNR) • MODIFICATION • REFUELING • CONTROL ROD DRIVE MECHANISMS

093403

CORE SPRAY INJECTION LINE THROUGH-WALL CRACKS AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

5 PAGES, LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, FEBRUARY 6, 1975, DOCKET 50-237, TYPE--DNR,
NRC--G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING THE THIRD REFUELING OUTAGE, 5 THROUGH-WALL CRACKS WERE DISCOVERED ON A AND B CORE SPRAY INJECTION LINES TO THE REACTOR VESSEL. THE CRACKS ARE BETWEEN THE REACTOR VESSEL NOZZLE TO SAFE END WELD AND THE CORE SPRAY PIPING SECTION ADJACENT TO THE DUTCHMAN WELD. THE CAUSE IS UNKNOWN AT THIS TIME. THE SAFE END-DUTCHMAN SECTIONS WILL BE REMOVED. THE REMAINING WELDS IN THE CORE SPRAY SYSTEM ARE BEING EXAMINED. CORRECTIVE ACTION WILL DEPEND ON THE RESULTS OF THE ANALYSIS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CORE SPRAY - FAILURE, PIPE • WELDS • STEEL, STAINLESS • DRESDEN 2 (DNR) • REFUELING • LEAK • ULTRASONICS •
PIPES AND PIPE FITTINGS

100046

THROUGH-WALL CRACK FOUND IN CORE SPRAY INJECTION LINE AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, FEBRUARY 21, 1975, DOCKET 50-237, TYPE--
DNR, NRC--G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING THE REFUELING INSERVICE INSPECTION, A CRACK WAS FOUND ON CORE SPRAY A INJECTION LINE IN THE HEAT AFFECTED ZONE OF THE BUTT WELD. THE THROUGH-WALL CRACK WAS ABOUT 1.5 INCHES LONG ON THE INSIDE. THE CAUSE IS UNKNOWN AT THIS TIME. THE REMAINING WELDS IN BOTH CORE SPRAY SYSTEMS HAVE BEEN EXAMINED. FIVE OTHER CRACKS WERE DISCOVERED EARLIER ADJACENT TO THE DUTCHMAN WEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CORE SPRAY • FAILURE, PIPE • WELDS • DRESDEN 2 (DNR) • LEAK • PIPES AND PIPE FITTINGS • INSERVICE INSPECTION

100047

INSPECTION OF CORE SPRAY LOOP WELDS REVEALS ANOTHER CRACK AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, FEBRUARY 28, 1975, DOCKET 50-237, TYPE--
DNR, NRC--G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. IN RESPONSE TO BE BULLETIN 75-01, 97 WELDS WERE INSPECTED IN THE CORE SPRAY LOOPS UP TO AND INCLUDING THE SECOND ISOLATION VALVE TO PIPE WELD. ANOTHER THROUGH-WALL CRACK WAS DISCOVERED ABOUT 8 FEET FROM THE INITIAL CRACKS. SEVERAL WELDS POSSESSED GEOMETRICAL INDICATIONS. DYE PENETRANT EXAMINATION PRODUCED A CRACK ON THE INTERNAL SURFACE OF 2 WELDS EXAMINED. CONSIDERATION IS BEING GIVEN TO REPLACING PART OR ALL THE STAINLESS STEEL PIPING ON THE CORE SPRAY SYSTEM WITH CARBON STEEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CORE SPRAY • FAILURE, PIPE • WELDS • DRESDEN 2 (DNR) • TEST, NONDESTRUCTIVE • SURVEILLANCE PROGRAM • LEAK •
BACKFIT • PIPES AND PIPE FITTINGS

100376

CORE SPRAY VALVE FAILS TO OPEN AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

100376 COMMERCIAL
3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 20, 1975, DOCKET 50-237, TYPE--
OWN, NRC--G.E., AE--SGT & LUNDY

CAUSE - CONTROL CIRCUIT DEFICIENCY. DURING THE REFUELING OUTAGE, THE CORE SPRAY SYSTEM WAS TO BE UNARMED FOR REMOVAL OF THE PIPING. ONE CORE SPRAY VALVE FAILED TO OPEN ON SIGNAL FROM THE CONTROL ROOM. IN REVIEWING THE SCHEMATIC CONTROL DIAGRAM, IT APPEARS THAT, WITH THE REACTOR UNARMED, THE VALVE IS INTERLOCKED WITH LINE IN THE OTHER SPRAY SYSTEM TO PREVENT OPENING WHEN THE OTHER VALVE IS OPEN. THE INTERLOCK DOES NOT HOLD IN REVERSE. THE VALVE WAS OPENED TO UNARM THE SYSTEM. ANY NECESSARY CORRECTIVE ACTION WILL BE TAKEN WHEN THE CORE SPRAY SYSTEM IS RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT SYSTEM • CORE SPRAY • MAINTENANCE AND REPAIR • INSTRUMENT, INTERLOCK • DRESSEN 2 (OWN) • REFUELING • FAILURE, DESIGN ERROR • VALVES

100384
CRACK IN WELD IN NITROGEN PURGE LINE AT DRESSEN 2
COMMERCIAL EDISON CO., ILL.
1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 12, 1975, DOCKET 50-237, TYPE--
OWN, NRC--G.E., AE--SGT & LUNDY

CAUSE - POOR WELDING TECHNIQUE. WHILE THE REACTOR WAS IN COLD SHUTDOWN, RADIOGRAPHY OF A WELD BETWEEN AN 8-INCH PIPE AND AN 10-INCH PIPE INDICATED THAT THE WELD WAS CRACKED PART WAY THROUGH. THE APPARENT CAUSE APPEARS TO BE POOR WELDING TECHNIQUE. A HOLE WAS CUT INTO THE 10 INCH NITROGEN WITH A TORCH, THE 8 INCH PIPE SET INTO IT, AND WELDED ON. THE RESULTANT WELD WAS OF POOR QUALITY, AND RESULTED IN THE CRACK. THE EXISTING WELD WILL BE GROUND OUT AND REINSTALLED WITH A 1000 FILLET WELD. THIS PIPING WAS PART OF THE NITROGEN PURGE SYSTEM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

WELDS • DRESSEN 2 (OWN) • TEST, NONDESTRUCTIVE • CONTAINMENT ATMOSPHERE, INERT • FAILURE, INSTALLATION ERROR • CRACK • PIPES AND PIPE FITTINGS

100383
SETPOINT DRIFT IN FLOW SENSOR AT DRESSEN 2
COMMERCIAL EDISON CO., ILL.
1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 17, 1975, DOCKET 50-237, TYPE--
OWN, NRC--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT DEFICIENCY. DURING TESTING WHILE SHUT DOWN FOR REFUELING, A NPCI STEAM LINE HIGH FLOW SWITCH TRIPPED AT 155 INCHES WATER WHICH EXCEEDS THE 150 INCH LIMIT. THIS BARTON MODEL 200 PRESSURE SWITCH HAD AN EXCESSIVELY HIGH RANGE FOR THE SETPOINT REQUIRED. THE SWITCH WAS RESET. THE RANGE WILL BE CHANGED BY REPLACING THE SWITCH WITH A 1000.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • DRESSEN 2 (OWN) • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN ERROR • SET POINT • DRIFT • SENSORS, FLOW • NPCI

101275
DIESEL GENERATOR FAILS TO COME UP TO VOLTAGE AT DRESSEN 2
COMMERCIAL EDISON COMPANY, ILLINOIS
1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 27, 1975, DOCKET 50-237, TYPE--
OWN, NRC--G.E., AE--SGT & LUNDY

CAUSE - DIRTY RELAY CONTACTS. DURING AN EXTENDED REFUELING OUTAGE, THE DIESEL GENERATOR WAS BEING TESTED TO DETERMINE THE SOURCE OF A STARTING PROBLEM. THE DIESEL GENERATOR STARTED BUT FAILED TO COME UP TO VOLTAGE. THE CAUSE WAS DIRTY CONTACTS ON THE VS RELAY IN THE FIELD FLASHING CIRCUIT. AFTER THE CONTACTS WERE CLEANED, 10 SUCCESSFUL STARTS WERE MADE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • DRESSEN 2 (OWN) • REFUELING • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • ENGINES, INTERNAL COMBUSTION • GENERATOR, DIESEL • RELAYS

101076
SETPOINT DRIFT IN PRESSURE SWITCHES AT DRESSEN 2
COMMERCIAL EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 27, 1975, DOCKET 50-237, TYPE--
OWN, NRC--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE MAIN STEAM LINE LOW PRESSURE SWITCHES PRIOR TO A STARTUP AFTER AN EXTENDED REFUELING OUTAGE, ALL 4 SWITCHES HAD SETPOINTS BELOW THE 85% PSI LIMIT.

101076 *CONTINUED*

THE TRIP SETPOINTS WERE BETWEEN 835 AND 845 PSI. THEY WERE IMMEDIATELY RESET. THE CAUSE WAS INSTRUMENT DRIFT. EVALUATION OF THESE BAROSCALE PRECYCLED PRESSURE SWITCHES, TYPE 827-A1255, INDICATED THAT DRIFT HAD NOT EXCEEDED 10 PSI/MONTH. THE LAST TEST WAS ON OCT. 26, 1974.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR SAFETY SYSTEM • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • DRESDEN 2 (BWR) • INSTRUMENT, SWITCH • REFUELING • TEST, SYSTEM OPERABILITY • SET POINT • DRIFT • SENSORS, PRESSURE

101077

DIESEL GENERATOR FAILS TO START AT DRESDEN 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 27, 1975, DOCKET 50-237, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - GEARS NOT PROPERLY ENGAGING. DURING TESTING WHILE THE UNIT WAS SHUTDOWN FOR REFUELING, THE DIESEL GENERATOR FAILED TO START. REPEATED TESTING INDICATES THAT THE AIR START MOTOR PISTON GEAR WAS NOT PROPERLY ENGAGING THE KING GEAR. THE AIR START MOTORS WERE REPLACED AND RETURNED TO THE VENDOR FOR FURTHER STUDY ON THE EXACT CAUSE OF FAILURE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • FAILURE, EQUIPMENT • DRESDEN 2 (BWR) • REFUELING • TEST, SYSTEM OPERABILITY • ENGINE, INTERNAL COMBUSTION • GENERATOR, DIESEL

101443

SEVERE DRIFT IN PRESSURE SWITCHES AT DRESDEN 2

COMMONWEALTH EDISON CO., ILLINOIS

3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 27, 1975, DOCKET 50-237, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE MAIN STEAM LINE LOW PRESSURE SWITCHES WITH THE UNIT SHUTDOWN FOR REFUELING, THE SET POINTS FOR ALL 4 WERE LESS THAN THE 835 PSIG LIMIT. THE SWITCHES TRIPPED BETWEEN 835 AND 845 PSIG. THEY WERE IMMEDIATELY RESET. THE CAUSE WAS INSTRUMENT DRIFT. THESE PRECYCLED BAROSCALE SWITCHES, TYPE 827-A1255, WERE FOUND TO HAVE A DRIFT OF NOT MORE THAN 10 PSI PER MONTH. THE LAST CALIBRATION WAS ON OCT. 26, 1974.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR SAFETY SYSTEM • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • DRESDEN 2 (BWR) • INSTRUMENT, SWITCH • REFUELING • TEST, SYSTEM OPERABILITY • SET POINT • DRIFT • SENSORS, PRESSURE

101193

HIGH HEAD SAFETY INJECTION VALVE FAILS TO OPEN AT DRESDEN 2

CONSOLIDATED EDISON COMPANY OF N.Y., INC.

2 PAGES, LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MARCH 28, 1975, DOCKET 50-247, TYPE--PWR, NRC--WEST., AE--UNIT ENGR

CAUSE - UNKNOWN. DURING A COLD SHUTDOWN, 1 OF THE 4 HIGH HEAD SAFETY INJECTION VALVES WAS SIGNALED TO OPEN BY THE OPERATOR TO ADD MAKEUP WATER TO THE REACTOR COOLANT SYSTEM. THE VALVE FAILED TO OPEN. THE MOTOR FUSES WERE BLOWN. THEY WERE REPLACED BUT BLEW AGAIN. THE LIMITORQUE OPERATOR CASING WAS FOUND TO BE CRACKED AND THE TOP COVER PLATE BOLTS OF THE OPERATOR WERE SHEARED. NO CAUSE OF THE MALFUNCTION OR THE CRACKED CASING WAS FOUND. THE CRACKED CASING WAS REPLACED WITH A SPARE. THE VALVE TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • INSTRUMENT, PROTECTIVE • SAFETY INJECTION • DRESDEN 2 (BWR) • REFUELING • VALVE OPERATORS • VALVES

101409

SECONDARY CONTAINMENT VIOLATED AT DRESDEN 2

COMMONWEALTH EDISON COMPANY

1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 31, 1975, DOCKET 50-237, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - LACK OF COMMUNICATION. DURING THE REFUELING OUTAGE, A SECURITY GUARD WAS STATIONED AT A PERSONNEL INTERLOCK DOOR BETWEEN THE REACTOR BUILDING AND ATMOSPHERE BECAUSE OF THE LARGE NUMBER OF OFF SITE PERSONNEL INVOLVED IN THE OUTAGE. THE GUARD REQUESTED PERMISSION TO OPEN THE INTERLOCK DOOR TO INCREASE VENTILATION BECAUSE OF THE EXHAUST FUMES FROM A NEARBY CRANE MOTOR. WHEN GIVEN PERMISSION, HE OPENED THE INTERLOCK DOORS, THUS VIOLATING CONTAINMENT FOR ABOUT 5 MINUTES. THERE WAS A MISUNDERSTANDING BETWEEN THE GUARD AND THE SHIFT FOREMAN CONCERNING THE PROPER IDENTIFICATION OF COMPONENTS.

101409 - CONTINUED
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, OPERATION ERROR • CONTAINMENT AIR LOCK • CONTAINMENT INTEGRITY • DRESSEN 2 (BWR) • REFUELING • IDENTIFICATION • COMMUNICATION

101751
 DIESEL GENERATOR FIELD FAILED TO FLASH AT DRESSEN 2
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 2 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, APRIL 15, 1975, DOCKET 50-237, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - SHORTED CAPACITOR. FOLLOWING AN INSPECTION OF THE DIESEL GENERATOR DURING A REFUELING OUTAGE, THE DIESEL STARTED BUT DID NOT COME UP TO VOLTAGE. THE APPARENT CAUSE HAS BEEN DETERMINED TO BE A SHORTED CAPACITOR THAT PARALLELED THE RELAY THAT FLASHES THE FIELD. THE SHORT LOWERED THE VOLTAGE ACROSS THE RELAY TO A POINT AT WHICH THE CONTACTS CLOSED INTERMITTENTLY. THE CAPACITOR WAS REPLACED. A SIMILAR INCIDENT OCCURRED EARLIER AND WAS THOUGHT TO HAVE RESULTED FROM DIRTY CONTACTS ON THE RELAY. IT HAS NOW BEEN DETERMINED THAT THIS FAILURE RESULTED FROM THE FAULTY CAPACITOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • EMERGENCY POWER, ELECTRIC • FAILURE, INSTRUMENT • DRESSEN 2 (BWR) • REFUELING • TEST, SYSTEM OPERABILITY • ENGINE, INTERNAL COMBUSTION • GENERATOR, DIESEL

102292
 LEAKAGE THROUGH STANDBY GAS TREATMENT SYSTEM EXCEEDS LIMITS AT DRESSEN 2
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 2 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, APRIL 24, 1975, DOCKET 50-237, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - TURN GASKET. RESULTS OF THE SEMI-ANNUAL FREON LEAK TEST ON TRAIN A OF THE STANDBY GAS TREATMENT SYSTEM INDICATED A LEAKAGE RATE OF 1.08 WHICH EXCEEDS THE 1.0 LIMIT. BOTH UNIT 2 AND UNIT 3 WERE IN COLD SHUTDOWN. INSPECTION FOUND THAT 1 OF THE 12 CHARCOAL CELLS HAS A 2-IN. SECTION OF ITS SEALING GASKET TIPPED OFF AND A FEW TEARS ELSEWHERE ALONG THE GASKET. APPARENTLY, THE GASKET CAUGHT ON THE METAL HOUSING DURING INSTALLATION IN MAY 1974 AND EVENTUALLY RIPPED DUE TO THE PRESSURE. THE TURN GASKET WAS REPLACED. THE LEAK TEST WAS THEN SATISFACTORY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESSEN 2 (BWR) • LEAK RATE • CHARCOAL ADSORBER • STANDBY GAS TREATMENT • FAILURE, MAINTENANCE ERROR • SEAL • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE

103006
 LOCAL LEAK RATE TEST SUMMARY FOR DRESSEN 2
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 78 PAGES, LETTER WITH ATTACH. TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 9, 1975, DOCKET 50-237, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

TRANSMITS A SUMMARY OF 14 LOCAL LEAK RATE TESTS WHICH EXCEEDED THE MAXIMUM ALLOWABLE LIMIT. THESE TESTS WERE CONDUCTED DURING THE REFUELING OUTAGE AT THE END OF CYCLE 3. FINAL LEAK RATES WERE WITHIN LIMITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESSEN 2 (BWR) • LEAK RATE • TEST, LEAK RATE • VALVES • VALVE, CHECK • FEEDWATER • CONTAINMENT VACUUM BREAKER • PENETRATIONS, PRIMARY CONTAINMENT • REFUELING • CONTAINMENT INTEGRITY

103080
 DRYWELL EQUIPMENT DRAIN SUMP DISCHARGE VALVE FAILS TO CLOSE AT DRESSEN 2
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 2 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 21, 1975, DOCKET 50-237, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - DIRT ON SOLENOID CONTROL VALVE. WHILE PERFORMING PRIMARY CONTAINMENT ISOLATION VALVE TIGHTNESS SURVEILLANCE DURING THE REFUELING OUTAGE, A DRYWELL EQUIPMENT DRAIN SUMP PUMP DISCHARGE VALVE FAILED TO CLOSE. RETEST PRIOR TO ANY REPAIRS WAS SUCCESSFUL. INSPECTION SHOWED AN EXCESSIVE AMOUNT OF METAL FILINGS ON THE SOLENOID CONTROL VALVE AND A SECTION OF INSULATION MISSING FROM THE ELECTRICAL CONDUIT. THIS VALVE IS LOCATED DIRECTLY UNDER A PENETRATION WHICH HAD HAD THE BELLONS REPLACED RECENTLY. A THIN FILM OF DIRT IS BELIEVED TO HAVE TEMPORARILY INTERFERED WITH NORMAL OPERATION. THE SOLENOID VALVE WAS CLEANED AND INSULATION REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

103000 *CONTINUED*
DRESDEN 2 (BWR) * VALVES * *CONTAINMENT ISOLATION * CONTAINMENT SUMP * TEST, SYSTEM OPERABILITY * FAILURE, MAINTENANCE ERROR * SOLENOID * CRUISE * REFUELING

103001
DIESEL GENERATOR OVERHEATS AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 21, 1975, DOCKET 50-237, TYPE--BWR, NRC--G.E., AE--SGT E LUNDY

CAUSE - TRAVELING SCREENS IMPERABLE. DURING AN EXTENDED REFUELING OUTAGE, AN INSTRUMENT FLOW CHECK VALVE WAS DISMANTLED, CAUSING LOSS OF ONE LEG OF A YARNWAY LEVEL INDICATOR. THIS INITIATED THE ECCS. THE DIESEL GENERATOR STARTED BUT OVERHEATED DUE TO LACK OF COOLING WATER. THE DC COOLING WATER PUMPS HAD LOST SUCTION. TWO TRAVELING SCREENS WERE OUT OF SERVICE FOR AN ELECTRICAL CONTROL MODIFICATION. A DIFFERENTIAL PRESSURE INSTRUMENT FOR THE SCREENS WAS IMPERABLE. NO DAMAGE OCCURRED TO THE DG. WORK WAS INITIATED TO CORRECT THE PROBLEMS WITH THE SCREENS AND THEIR CONTROLS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 2 (BWR) * GENERATOR, DIESEL * ENGINES, INTERNAL COMBUSTION * TEMPERATURE * FAILURE, EQUIPMENT * COOLING * REFUELING * FAILURE, ADMINISTRATIVE CONTROL * FILTER, SCREEN

103079
CONTAINMENT COOLING WATER VALVES FAIL AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
1 PAGE, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 23, 1975, DOCKET 50-237, TYPE--BWR, NRC--G.E., AE--SGT E LUNDY

CAUSE - BENT STEMS. DURING LPCI/CONTAINMENT COOLING LOGIC TESTING WHILE THE UNIT WAS SHUTDOWN FOR REFUELING, TWO VALVES WHICH ARE THROTTLED AUTOMATICALLY TO MAINTAIN SERVICE WATER PRESSURE AT 20 PSI ABOVE LPCI/ECC SYSTEM WATER PRESSURE WERE FOUND IMPERABLE. THE 3/4 INCH STAINLESS STEEL VALVE STEMS WERE BENT. THE BREAKS ON BOTH MOTOR-OPERATORS WERE FOUND TO SLIP. ALSO, BOTH VALVES HAD BEEN MANUALLY CLOSED. IT IS ASSUMED THAT BOTH CONDITIONS CONTRIBUTED TO THE BENDING. THE STEMS WERE REPLACED. NEW 1-IN. DIAM STEMS ARE ON ORDER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 2 (BWR) * VALVES * *CONTROL * AUXILIARY COOLING SYSTEM * FAILURE, COMPONENT * FAILURE, MAINTENANCE ERROR * MODIFICATION * TEST, SYSTEM OPERABILITY * REFUELING

103002
DIESEL GENERATOR STARTING AIR MOTOR FAILS AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
1 PAGE, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 23, 1975, DOCKET 50-237, TYPE--BWR, NRC--G.E., AE--SGT E LUNDY

CAUSE - GEARS JAMMING. DURING THE REFUELING OUTAGE, THE DIESEL GENERATOR STARTING AIR MOTOR FAILED TO START THE DIESEL WHILE ATTEMPTING TO RETURN IT TO SERVICE FOLLOWING REPAIRS TO THE FIELD FLASHING CIRCUIT. THE AIR START MOTORS' PISTON GEARS JAMMED AGAINST THE TEETH OF THE RING GEAR PREVENTING PROPER ENGAGEMENT. THE VENDOR CONCLUDED THAT THE PILOT AIR PRESSURE USED TO ENGAGE THE GEARS IS TOO HIGH, CAUSING THE TEETH TO JAM OCCASIONALLY. A MODIFICATION HAS BEEN SUGGESTED TO LOWER THE PRESSURE TO 80 PSIG. THIS WILL CAUSE THE PISTON GEARS TO ENGAGE MORE SLOWLY ALLOWING THEM TO MESH PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 2 (BWR) * GENERATOR, DIESEL * ENGINES, INTERNAL COMBUSTION * FAILURE, DESIGN ERROR * PNEUMATIC SYSTEM * PRESSURE, INTERNAL * MODIFICATION * EMERGENCY POWER, ELECTRIC * REFUELING * TEST, SYSTEM OPERABILITY

103005
ROLL OF NASHUA TAPE LOST IN THE REACTOR AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
4 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 23, 1975, DOCKET 50-237, TYPE--BWR, NRC--G.E., AE--SGT E LUNDY

CAUSE - FAILURE TO FOLLOW PROCEDURES. WHILE THE UNIT WAS SHUTDOWN FOR ITS THIRD PARTIAL REFUELING OUTAGE, A ROLL OF NASHUA 5 LUGA DUCT TAPE (TYPE 357), 2 INCHES WIDE AND 6 INCHES IN DIAMETER WITH A 3-IN. 10 HOLLOW CORE, WAS IMPROPERLY DROPPED INTO THE REACTOR VESSEL ANNULUS FROM THE FEEDWATER SPARGER WORK PLATFORM. EFFORTS TO RECOVER IT WERE UNSUCCESSFUL. PROCEDURES REQUIRED A LANYARD TO BE ATTACHED TO IT. THIS HAD NOT BEEN DONE. SAFETY ANALYSIS CONCLUDES THAT IT IS HIGHLY IMPROBABLE THAT THE TAPE RESIDUE COULD CAUSE FLOW BLOCKAGE OF ANY GIVEN FUEL ASSEMBLY OF 90%. CRITICAL HEAT FLUX FIRST OCCURS AT GREATER THAN 90% BLOCKAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

103005 REINSTRUMENTATION
DRESDEN 2 (DNR) + PLANT + MAIN COOLING SYSTEM + FAILURE, MAINTENANCE ERROR + PROCEDURES AND MANUALS + FLOW
MEASUREMENT + REACTOR + PRESSURE VESSELS

103006
CONTAINMENT WITHDRAWAL WITH PERSONNEL WITHIN CORE LINE-OF-SIGHT AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 27, 1975, DOCKET 50-237, TYPE--DNR, NRC--
G.E., AE--SGT & LUNDY

CAUSE - PROCEDURAL DEFICIENCY. DURING THE REFUELING OUTAGE, PERSONNEL BEGAN CONTROL ROD DRIVE
FRICTION TESTING. AS PERSONNEL WERE UP THE SERVICE PLATFORM NEAR THE TOP OF THE VESSEL SEARCHING
FOR A MISSING ROLL OF TAPE, THE FRICTION TESTING WAS FINISHED WHEN THE ERROR WAS NOTICED.
TESTING WAS STOPPED. THE MASTER REFUELING PROCEDURES SPECIFIES THAT PERSONNEL MUST NOT BE WITHIN
LINE-OF-SIGHT OF THE CORE DURING A CONTROL ROD WITHDRAWAL. FRICTION TEST PROCEDURES DID NOT
STATE THIS. THIS TEST WAS ON THE CRITICAL PATH. THE ENGINEER OVERLOOKED THIS REQUIREMENT IN AN
EFFORT TO COMPLETE THE JOB ON TIME. PROCEDURES WERE MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

DRESDEN 2 (DNR) + RADIATION SAFETY AND CONTROL + CONTROL RODS + TESTING + FAILURE, ADMINISTRATIVE CONTROL +
PROCEDURES AND MANUALS + MODIFICATION + REFUELING

103007
MSIV FOR CLCSURE LIMIT SWITCH FAILS AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 29, 1975, DOCKET 50-237, TYPE--DNR, NRC--
G.E., AE--SGT & LUNDY

CAUSE - SWITCH NOT INSTALLED. AS PART OF THE UNIT STARTUP FOLLOWING REFUELING, MSIV FINING
SURVEILLANCE WAS STARTED. A HOLD-SCRAM WAS INITIATED WHEN A RELAY FAILED TO ENERGIZE. THIS
RELAY IS ENERGIZED THROUGH THE LOW CLCSURE LIMIT SWITCHES ON 2 MSIV'S. ONE LIMIT HAD NOT BEEN
INSTALLED FOLLOWING INSPECTION AND CLEANING. DURING WORK ON THE 2 SWITCHES, THE TESTED AND
UNTESTED SWITCHES APPARENTLY BECAME MIXED. THE MAINTENANCE SUPERVISOR SIGNED THE PROCEDURES ON
THE WRONG LINE INDICATING THAT OPERATIONAL TESTS HAD BEEN COMPLETED WHEN THEY HAD NOT BEEN DONE.
ALSO, SPECIFIED TESTS WOULD NOT HAVE FOUND THIS ERROR. AFTER THE UNIT OPERATED 4 DAYS, IT WAS
SHUT DOWN AND THE SWITCH WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

DRESDEN 2 (DNR) + INSTRUMENT, SWITCH + RELAYS + CONTAINMENT ISOLATION + MAIN COOLING SYSTEM + TEST, SYSTEM
OPERABILITY + FAILURE, ADMINISTRATIVE CONTROL + MAINTENANCE AND REPAIR + PROCEDURES AND MANUALS + REACTOR
SAFETY SYSTEM

103008
CONTAINMENT COOLING SERVICE WATER VALVE FAILS TO CONTROL FLOW AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 30, 1975, DOCKET 50-237, TYPE--DNR, NRC--
G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING LPCI/CONTAINMENT COOLING LOGIC TESTING WITH THE REACTOR OPERATING AT 890
MM, A VALVE THAT IS THROTTLED AUTOMATICALLY TO MAINTAIN SERVICE WATER PRESSURE 20 PSI ABOVE
LPCI/C SYSTEM WATER PRESSURE, FAILED TO CONTROL. WHEN THE SERVICE WATER PUMP WAS SECURED, THE
MOTOR OPERATION DROVE THE VALVE CLOSED AS DESIGNED BUT CONTINUED TO RUN CAUSING THE STEM TO BEND
AND DISengage FROM THE LIMITSTOP. THIS IS THE SECOND FAILURE OF THIS TYPE SINCE THE RECENT
STARTUP. THE ACTUAL CAUSE HAS NOT BEEN DETERMINED. THE VALVE WAS REPAIRED AND RETURNED TO
SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

DRESDEN 2 (DNR) + VALVES + AUXILIARY COOLING SYSTEM + CONTROL + TEST, SYSTEM OPERABILITY + FAILURE,
EQUIPMENT + CONTAINMENT AIR COOLING

103009
ELECTROMATIC RELIEF VALVE FAILS TO OPERATE AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 30, 1975, DOCKET 50-237, TYPE--DNR, NRC--
G.E., AE--SGT & LUNDY

CAUSE - PILOT VALVE LEAKAGE ADJUSTMENT. DURING A STARTUP WITH THE REACTOR OPERATING AT 405 MM,
AN ELECTROMATIC RELIEF VALVE FAILED TO OPEN WHEN ACTUATED MANUALLY FROM THE CONTROL ROOM. THE
CAPSCREW ON THE PILOT OPERATING LEVEL THAT CONTACTS THE PILOT VALVE STEM WAS FOUND TO BE OUT OF
ADJUSTMENT. AFTER MAINTENANCE, THE CONTRACTOR FAILED TO MAKE FINAL ADJUSTMENTS ON THE OPERATING
LEVEL. AFTER BEING ADJUSTED TO THE PROPER TOLERANCES, THE VALVE OPERATED SATISFACTORILY. A
CHECK ON THE ADJUSTMENT WILL BE DONE FOLLOWING ALL VALVE MAINTENANCE.

103004 CONTINUED
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 2 (RM) • VALVES • OPRESSURE RELIEF • MAIN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE,
 EQUIPMENT • FAILURE, MAINTENANCE • RM • STEAM

103001
 ELECTRONICS: RELIEF VALVE FAILS TO OPEN AT DESIGN 2
 COMMONWEALTH EDISON COMPANY, CHICAGO, ILL.
 3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 3, 1975, Docket 50-237, TYPE--RM,
 NRC--G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. WITH THE REACTOR IN STARTUP MODE, A RELIEF VALVE WAS ACTUATED FROM THE CONTROL
 ROOM TO VERIFY OPERABILITY. THE PILOT VALVE INDICATED A TEMPERATURE INCREASE BUT THE MAIN STEAM
 DISCHARGE VALVE DID NOT CLOSE. INSPECTION SHOWED THAT THE MAIN RELIEF VALVE REMAINED CLOSED. THE
 CAUSE IS UNKNOWN AT THIS TIME. THE JET WILL BE OPERATED UP TO 30 DAYS IN THIS CONDITION AND
 THEN SHUT DOWN FOR REPAIR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 2 (RM) • VALVES • OPRESSURE RELIEF • MAIN COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY •
 FAILURE, EQUIPMENT

103201
 EXPLOSION IN THE OFF GAS AT DESIGN 2
 COMMONWEALTH EDISON, CHICAGO, ILL.
 3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 5, 1975, Docket 50-237, TYPE--RM,
 NRC--G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. WITH THE REACTOR OPERATING AT 20% MCR, RECOMBINATION A GAS BEING CAPTURED THE OFF-
 GAS TRAP. DURING THE STARTUP, AN EXPLOSION OCCURRED IN THE OFF GAS SYSTEM. NO DEFINITE CAUSE
 HAS BEEN FOUND. THE FRESHEN INLET AND OUTLET MANUAL DRUMS ON BOTH TRAPS WERE FOUND CLOSED.
 THEY SHOULD HAVE BEEN OPEN. IT APPEARS UNLIKELY THAT THE RECOMBINATION SYSTEM CAUSED THE EXPLOSION.
 THE REACTOR LOAD WAS DROPPED TO 15% MCR. THE A JUNE RADIATION DIAGNOSIS WAS OBTAIN. OFF-GAS
 FILTER A WAS DAMAGED. THE FILTER AND RADIATION DISC WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 2 (RM) • EXPLOSION • OFF GAS • FAILURE, COMPONENT • FILTERS • INSTRUMENT, PROTECTIVE

103200
 TOWNS WATER LEVEL FOUND BELOW LIMIT AT DESIGN 2
 COMMONWEALTH EDISON, CHICAGO, ILL.
 2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 5, 1975, Docket 50-237, TYPE--RM,
 NRC--G.E., AE--SGT & LUNDY

CAUSE - FAILURE TO FOLLOW PROCEDURES. BECAUSE CONTROL ROOM TOWNS LEVEL INDICATION WAS
 UNRELIABLE, VISUAL INSPECTION OF A SIGHT GLASS WERE MADE ONCE PER SHIFT. ONE SHIFT FOUND THE
 LEVEL TO BE 0.5 INCHES OR .5 INCH BELOW LIMITS. TWO LPCI HEADERS VENT VALVES HAD BEEN LEFT OPEN.
 WHEN THE ECCS Jockey PUMP WAS STARTED, WATER WAS PUMPED TO THE PLANT DRAIN AT ABOUT 30 GPM. AN
 OPERATOR, WHO COULD NOT FIND THESE VALVES WHICH HAD BEEN TAPPED OUT OF SERVICE, ASSUMED THEY
 HAD BEEN PLACED BACK IN SERVICE. ANOTHER OPERATOR WHO WAS TO VENT THE HEADERS APPARENTLY USED
 THE WRONG VALVES AND DID NOT SEE THE TOP CARDS AND THE OPEN VALVES. OPERATORS WERE WARNED TO
 FOLLOW PROCEDURES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 2 (RM) • SYSTEM CAPACITY • OTHERS • FAILURE, OPERATOR ERROR • VALVES • PROCEDURES AND MANUALS •
 EMERGENCY COOLING SYSTEM

103202
 CONTAINMENT COOLING SERVICE WATER VALVE FAILS TO OPERATE AT DESIGN 2
 COMMONWEALTH EDISON, CHICAGO, ILL.
 1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 6, 1975, Docket 50-237, TYPE--RM,
 NRC--G.E., AE--SGT & LUNDY

CAUSE - VALVE STEM BENT. DURING A TEST OF THE CONTAINMENT COOLING SERVICE WATER PUMPS WITH THE
 REACTOR AT 1247 MW, THE FLOW RATE THROUGH THE A SYSTEM COULD NOT BE CONTROLLED. THE LIMIT FOR THE
 FLOW OF THE FLOW CONTROL VALVE WAS OPERATING. THE VALVE STEM WAS BENT DISENGAGING THE OPERATOR
 FROM THE VALVE. THE 3/4 INCH STEM WAS REPLACED WITH A NEW 1 INCH STAINLESS STEEL STEM. THE
 ORIGINAL STEM WAS NOT STRONG ENOUGH FOR THE 12,000 LB. OF THRUST DEVELOPED BY THE OPERATOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

100907
ISOLATION CONDENSED VALVE STUCK OPEN AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, CHICAGO
3 PAGES, LETTER TO NRC FROM OF REGULATORY OPERATIONS, REGION 3, JUNE 25, 1975, DOCKET 50-237, TYPE--OIR, NRC--
C.E., AE--SGT & LUNDY

CAUSE - EXCESSIVE CYCLING. DURING HIGH PLEIS ISOLATION VALVE TESTING WHILE THE REACTOR WAS SHUT DOWN, A VALVE FAILED. THE CIRCUIT BREAKER HAD TRIPPED AND THE VALVE STUCK OPEN. NO DEFINITE CAUSE HAS BEEN DETERMINED. DURING TESTING, THE CONTROL ROOM OPERATOR INADVERTENTLY PLACED THE CONTROL SWITCH IN THE AUTO POSITION INSTEAD OF THE CLOSED POSITION. THE VALVE CYCLED EACH TIME THE DELTA P SWITCHES WERE TRIPPED. THIS CAUSED THE BREAKER TO TRIP THERMALLY. ALSO, THE LIMIT SWITCHES MAY NOT HAVE BEEN ADJUSTED PROPERLY. A VALVE STICK AND LIMITSOME OPERATOR FROM UNIT 3 VALVE WERE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.000

DRESDEN 2 (OIR) • VALVES • CONTAINMENT ISOLATION • CYCLING • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT
• FAILURE, OPERATOR ERROR • VALVE OPERATORS

100903
CHECK VALVE LEAKAGE FOUND TO BE EXCESSIVE AT DRESDEN 2
COMMONWEALTH EDISON COMPANY, CHICAGO
12 PAGES, LETTER WITH ATTACHMENT TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JULY 3, 1975, DOCKET
50-237, TYPE--OIR, NRC--C.E., AE--SGT & LUNDY

CAUSE - DISC AND SEAT DIRTY. DURING LOCAL LEAK RATE TESTING FOR THE REFUELING OUTAGE, THE LEAK RATE OF A CHECK VALVE IN THE GAS RETURN LINE WAS MEASURED TO BE 66.79 SCFM WHICH EXCEEDS THE 30.30 SCFM LIMIT. THE MATING SURFACES OF THE DISC AND SEAT WERE DIRTY. THERE WERE NO APPARENT DEFECTS. THE SEATING SURFACES WERE CLEANED AND THE CHECK VALVE RETESTED SATISFACTORILY. A COMPLETE LISTING OF ALL PENETRATIONS AND ASSOCIATED LEAKAGES IS INCLUDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.000

DRESDEN 2 (OIR) • LEAK RATE • VALVE, CHECK • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • REFUELING • CRUD •
FAILURE, EQUIPMENT

100905
DIESEL GENERATOR COOLING WATER PUMP TRIPS AT DRESDEN 2
COMMONWEALTH EDISON, ILL.
3 PAGES, AND 50-237/75-02 TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION III, SEPT. 8, 1975, DOCKET 50-237,
TYPE--OIR, NRC--C.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING A TEST OF UNIT 2/3 DIESEL GENERATOR WITH A 2 MW LOAD, THE DIESEL TRIPPED AFTER 2.5 HOURS ON HIGH TEMPERATURE. UNIT 2 WAS OPERATING AT 2400 MW AND UNIT 3 WAS BEING REFUELED. THE COOLING WATER PUMP HAD FAILED. BREAKERS ON BOTH BUSES WHICH SUPPLY POWER TO THE PUMP HAD TRIPPED. NO DEFINITE CAUSE FOR THE PUMP TRIP WAS FOUND. DURING A RETEST, THE PUMP TRIPPED AGAIN AFTER RUNNING FOR 2 HOURS. INVESTIGATION IS CONTINUING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.000

DRESDEN 2 (OIR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • PUMPS • COOLING • BREAKER • TEST,
SYSTEM OPERABILITY • EMERGENCY POWER, ELECTRIC

100906
DIESEL GENERATOR COOLING WATER PUMP TRIPS AT DRESDEN 2
COMMONWEALTH EDISON, ILL.
3 PAGES, AND 50-237/75-03 TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION III, SEPT. 19, 1975, DOCKET 50-237,
TYPE--OIR, NRC--C.E., AE--SGT & LUNDY

CAUSE - HIGH TEMPERATURE IN BREAKER. WITH UNIT 2 AT 2400 MW AND UNIT 3 IN COLD SHUTDOWN, THE MAIN BREAKER OF THE UNIT 2/3 DIESEL GENERATOR COOLING WATER PUMP WAS FOUND TRIPPED. THE TRIP WAS APPARENTLY CAUSED BY EXCESSIVE HEAT BUILD-UP WITHIN THE BREAKER HOUSING. A HIGH AMBIENT TEMPERATURE IS BELIEVED TO INTENSIFY THE HEAT TRANSFER PROBLEM. THE BREAKERS ON BOTH BUSES WERE REPLACED. COVER PLATES ABOVE THE BREAKERS WERE REMOVED FOR VENTILATION. THE PUMP WAS OPERATED FOR 24 HOURS WITHOUT INCIDENT. THE ORIGINAL GASKETED COVERS WILL BE REPLACED WITH LOUVERED PLATES TO ALLOW ADEQUATE VENTILATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.000

DRESDEN 2 (OIR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE,
DESIGN ERROR • COOLING • PUMPS • BREAKER • TEMPERATURE

100970
DIESEL GENERATOR FAILS TO START AT DRESDEN 2

100970 PLANTINVEST
COMMERCIALTID EISSON, CHICAGO, ILL.
2 PGS. AU 75-40 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, OCT. 2, 1975. BUCKET 50-237, TYPE--DNR.
RFG--G.E.. AC--SUT L LUNDY

CAUSE - MAINTENANCE ERROR. DURING A TEST OF JORDEN VALVE WITH THE REACTOR AT 1500 MW. THE PIPING LEAKS OF THE AIR STARTING MOUNTS ENGAGED PROPERLY, BUT THE MAIN AIR RELAY VALVE FAILED TO OPEN, ALLOWING THE AIR PRESSURE FROM THE AIRING SYSTEMS. THE CAUSE WAS FAILURE TO FOLLOW PROPER MAINTENANCE PROCEDURES. AN IMPROPER SEAL RING HAD BEEN INSTALLED IN THE VALVE CAUSING SLURRY ACTION. IT WAS REPLACED WITH A PROPER SEAL RING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 2 (DNR) + GENERATOR, DIESEL + ENGINE, INTERNAL CONTAINMENT + FAILURE, MAINTENANCE ERROR + PROCEDURES AND MANUALS + TEST, SYSTEM OPERABILITY + SEAL + MATERIAL + PNEUMATIC SYSTEM + SOLENOID

100983
REACTION SCRAM ON DRYWELL OVERPRESSURIZATION AT DRESDEN 2
COMMERCIALTID EISSON, CHICAGO, ILL.
2 PGS. AU 75-40 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, OCT. 9, 1975. BUCKET 50-237, TYPE--DNR. RFG--G.E.. AC--SUT L LUNDY

CAUSE - FAILURE ERROR. DURING INSERTION OF THE PRIMARY CONTAINMENT ATMOSPHERE, THE CONTAINMENT BEHELD THE HIGH DRYWELL PRESSURE SCRAM SET POINT AND THE REACTOR SCRAMMED FROM 1000 MW. AS A RESULT OF A BOLTING ERROR DURING CLEARING OF THE PREVIOUS WEATHER DAMAGE, A MANUAL VALVE WAS LEFT PARTIALLY OPEN, ALLOWING NITROGEN FLOW TO BYPASS THE EXISTING PRESSURE CONTROL VALVE AND PASS UNRELAYED INTO THE DRYWELL. THE VALVE WAS CLOSED AND LOCKED SHUT. PROCEDURES WERE REVISED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 2 (DNR) + OVERPRESSURE, INTERNAL + CONTAINMENT + OSCILL, REEL + CONTAINMENT ATMOSPHERE, INSERT + VALVES + FAILURE, OPERATION ERROR + ENERGY SOURCE/CONTROL

100984
MPCI TURBINE FAILS TO TRIP AT DRESDEN 2
COMMERCIALTID EISSON, CHICAGO, ILL.
2 PGS. AU 75-40 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, OCT. 9, 1975. BUCKET 50-237, TYPE--DNR. RFG--G.E.. AC--SUT L LUNDY

CAUSE - OPEN CIRCUIT IN SENSING VALVE. WHEN THE REACTOR TRIPPED ON HIGH DRYWELL PRESSURE, THE MPCI TURBINE AUTOMATICALLY INITIATED AS DESIGNED AND TRIPPED WHEN COOLANT LEVEL REACHED 40 INCHES. DURING THE TRANSIENT, THE LEVEL DROPPED AGAIN AND THE TURBINE RESTARTED BUT FAILED TO TRIP WHEN THE LEVEL REACHED 40 INCHES. AN OPEN CIRCUIT OCCURRED IN THE TURBINE TRIP SOLENOID VALVE DUE TO FAILURE OF A COIL SOLDER JOINT WITHIN THE COIL. THE VALVE WAS REPLACED 9 HOURS LATER. THE SYSTEM WAS THEN TRIP-CHECKED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 2 (DNR) + TURBINE + MPCI + FAILURE, EQUIPMENT + SOLENOID + VALVES + CONTROL SYSTEM + COOLANT LEVEL TRANSIENT

107498
THROUGH-WALL CRACK IN DRYWELL/TORUS NITROGEN PURGE LINE AT DRESDEN 2
COMMERCIALTID EISSON, CHICAGO, ILL.
3 PGS. AU 50-237/75-40 TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION III, OCT. 17, 1975. BUCKET 50-237, TYPE--DNR. RFG--G.E.. AC--SUT L LUNDY

CAUSE - LIQUID NITROGEN IN LINE. DURING A LOCAL LEAK RATE TEST WITH THE REACTOR AT 2135 MW, A THROUGH-WALL CRACK WAS FOUND IN THE DRYWELL/TORUS NITROGEN PURGE LINE AT A TEE CONNECTION. IT EXTENDED 100 YARDS ALONG THE 0-IN CONNECTION ON THE 10-IN LINE, CROSSING THE HEATED INTERSECTION AND EXTENDING 7 INCHES ALONG THE 0-IN LINE. DURING DRYWELL INERTING, THE HEATING STEAM BOILERS, WHICH VAPORIZE THE LIQUID NITROGEN, FAILED. BECAUSE OF A PREVIOUS UNCLEARED ALARM, THE OPERATOR WAS UNAWARE OF THE FAILURE FOR 15 MINUTES. LIQUID NITROGEN ENTERED THE LINE CAUSING CRACKING. THE REACTOR WAS SHUT DOWN. THE DEFECTIVE PIPING WAS REPLACED. PROCEDURES WERE MODIFIED. A TEMPERATURE RECORDER WAS INSTALLED ON THE LINE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 2 (DNR) + PIPES AND PIPE FITTINGS + CONTAINMENT PURGE + NITROGEN + CRACK + FAILURE, PIPE + CONTAINMENT INTEGRITY + REACTOR SHUTDOWN + FAILURE, OPERATOR ERROR + MODIFICATION + TEST, SYSTEM OPERABILITY + LEAK

107499
LPCI LOOP SELECTION LOGIC CIRCUITRY FAILS AT DRESDEN 2

000000 0000000000

100 IN THE AREA OF 112555 PGM. THIS WAS INDICATED. PLACING LIGHTS WERE NOT ACTIVATED. ON
GND RELEASED AFTER 112555 PGM. THE 112555 PGM WAS ACTIVATED AND 112555 PGM WAS 10
112555 PGM. THE 112555 PGM WAS 10 112555 PGM. IT IS PROBABLE THAT 112555 PGM WAS 10
112555 PGM. THE 112555 PGM WAS 10 112555 PGM.

04-00000187 - THE PUBLIC ACCOUNTANT BOARD, 1717 N STREET, WASHINGTON, D. C. 20005. 100 CLEVELAND -- PHOENIX
CUBA 02-000

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CHUCKLE FOOT PUMP HIGHWAY PLANT LINE LEADS AT 021204 Z

CONFIDENTIAL - SOFIA COMPANY, ALL INFORMATION

1 PAGE. LETTER TO DIRECTORATE OF DELEGATORY OPERATIONS, REGION 3 (AC), JANUARY 17, 1975. JZC:17 10-240, TYPED--
CML, WPC--C.L., 01--143 6 LHMW

Caution - Before welding a reactor, a PWR will leak and detection in a reactor from pump vibration may lead to the conclusion. Failure was due to a leak being caused by a vibration caused between the two tubes off-set reaction. The resulting action caused the weld joint pipe at a rate greater than expected. The failed section was located. A repair was placed over the item. During the next repair the device, the weld steel portion will be replaced with a stronger-weld section to reduce vibration.

14-00000 - NEW PUBLIC DOCUMENTS ACQUISITION, 1717 N STREET, WASHINGTON, D. C. 20545. 120 CENTS/PAGE -- NO ADDED
 CHARGE 82-000

FAILURE, PIPE • DESIGN • THEORY • MATERIAL • MODIFICATION • FAILURE, DESIGN THEORY • DESIGN • FIELD • LEAK •
FEEDBACK • PIPE AND PIPE FITTING

070205

COLE SPRAY MOTOR OPERATED VALVE MALFUNCTION AT GRESOLIN 3

COMPANY, INC. 60100 LANSING, ILLINOIS

1 PAGE, LETTER TO HHC, STRUCTURE OF REGULATORY OPERATIONS, REG-130 3, JANUARY 21, 1975, DOKRETS 50-717/249,
1708-000, HHC-6-1, 40-167 6 LHMV

Course - DESIGN ERROR. DURING TESTING OF THE COOL SPRAY SYSTEM WITH THE REACTION AT 1200 MBT, A VALVE FAILED TO CLOSE DURING THE PUMP OPERABILITY CHECK. THE VALVE MOTOR-OPERATOR OVERLOADED AND STOPPED. NO REASON COULD BE FOUND. IT WAS CONCLUDED THAT THE MOTORS ON THE 2 REACTOR VALVES ON THIS UNIT AND UNIT 2 SHOULD BE CHANGED FROM 15 FT LB MOTORS TO 25 FT LB MOTORS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545. 100 CENTS/PAGE -- 914/486-
CMADE 57.007

CONC SPRAY • BRUSH 3 (ONE) • BRUSH 2 (ONE) • MODIFICATION • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN
ERROR • VALVE OPERATIONS • MOTORS • VALVES

000000

CLAMP SYSTEM INBOARD ISOLATION VALVE FAILS TO OPEN AT BRESEN, 3

COMMERCIAL UNION INSURANCE COMPANY, ILLINOIS

2 PAGES, LETTER TO SAC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JANUARY 30, 1979. UCLHFI 50-249, TYPE--
RM. PPG-6-1.. M--561 6 LHMV

CAUSE - RUNNING BELT FAILURE. WITH THE UNIT OPERATING AT 1173 RPM, THE CLEARUP SYSTEM WAS BEING PLACED IN SERVICE FOLLOWING WINDER REPAIRS. THE ISOPHAR ISOLATION VALVE FAILED TO OPEN. THE 2 RUNNING BELTS WHICH HOLD THE MOTOR END BELL IN PLACE AND SHEARED ALLOWING THE END BELL TO FALL AWAY. SUBSEQUENT TORSION CAUSED THE MOTOR TO BREAK PART. BELT SHEARING WAS DUE TO A DESIGN DEFICIENCY IN SIZING. THE MOTOR WAS REPLACED WITH ONE FROM UNIT 2 WHICH WAS SUFFICIENT FOR REWINDING. THE FAILED MOTOR WAS RETURNED TO THE VENDOR FOR REWINDING. CORRECTIVE ACTION WILL BE BASED ON THE VENDOR'S RECOMMENDATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545. 100 CENTS/PAGE -- MINIMUM CHARGE \$7.00

FAILURE, COMPONENT : CONTAINMENT ISOLATION • BREEDER S LOOPS • PASTEREN • FAILURE, DESIGN ERROR • COOLANT PURIFICATION SYSTEM • MOTORS • VALVES

007709

REACTOR FEED PUMP CASING VENT LINE LEAKS AT ORESDEN 3

COMMERCIAL IN PRISON COMPANY, N. J. 10115

1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, FEBRUARY 16, 1975, DOCKET 50-249, TYPE--
RUC, REC--G.E., AE--SGI & LUNNY

CAUSE - IMPROPER WELDING. WHILE OPERATING AT 1200 PSY, A STEAM LEAK WAS DETECTED AS 1 OF THE 2 1200 PSY REACTOR FEED PUMPS. A CRACK ABOUT 3/4 INCH LONG OVER 1/3 OF THE CIRCUMFERENCE OF THE PIPE-NIPPLE WELD AT THE TOP OF THE VELD WAS FOUND WHERE THE VENT NIPPLE ENTERS THE PUMP CASING. CRACKING APPARENTLY RESULTED FROM FAILURE TO PROPERLY PREHEAT THE WELD AREA DURING INITIAL CONSTRUCTION. THE CRACKED NIPPLE AND CONNECTED 1 JOINT WERE REMOVED AND REPLACED IN KIND. THE

10/10/60 4/11/60
 10/10/60 4/11/60 10/10/60 4/11/60 10/10/60 4/11/60

ASAC 441117 - THE PUBL. JOURNAL OF COMM. 1971 is listed, WASHINGTON, D. C. 20545, 128 CENTS/PAGE -- 04/11/71 (PUB) 2/221

FAILURE. PIPE • MISC • JOBS • LEAK • FAILURE. INSTALLATION ERROR • LEAK • FEEDBACK • PIPE AND PIPE
PIPELINE

[illegible]

4. Valve - Valve seat leakage. would OPERATING AS LEAK OUT. LOCAL LEAK HAVE TESTS SHOWED A LEAK
LEAK HAVE INCREASED A VALVE IN THE BUSHING INSERTING LINE. THE VALVE WAS OIL AND PLUGGED AND THEN
REMOVED. THE ABOVE SEAT WAS LOCATED IN THE AREA ADJACENT TO THE SHAFT. THE (CASE NO. 1) HAVE
REMOVED. THE VALVE WAS REPLACED. VALVE FAILURE IN THE PAST HAVE BEEN LINKED TO CATHODIC
DEPROTECTION AND IMPROPER ASSEMBLING OF THE VALVE JOURNAL.

AVAILABILITY - This Public Document is available in the National Archives and Records Administration, Washington, D. C. 20540 100 CENTS/PAGE -- ORIGINAL
 1000000 12-00000

Polymers, Composites • Test, Lean MATE • CRACKS & LEAKS • NITROGEN • TEST, SYSTEM OPERABILITY • CONTAINMENT
Atmosphere, (Inert) • CRACK • VALUES

100370
ZET PLUMI UNIFI IN LEVEL SEVEN AT UNESQEN J
COMMUNISTALITR TULISA CAMPAIN. ILL INUIS
Z PAULS. LITIR IN AC JREGIATION OF REGULATOR 27, 1975. DUCRET 50-249. TYPE--
300. NO--6.0. AT--561 LUNOV

CAUSE - INSUFFICIENT MIXING. DURING TESTING WHILE THE REACTOR WAS IN COLD SHUTDOWN, A REACTOR LOW LEVEL WARNING WAS TRIPPED AT 115 INCHES OF WATER, EXCEEDING THE 114.5 INCH LIMIT. THE APPARENT CAUSE WAS INSUFFICIENT MIXING. THE VIBRATORY MOTOR +0.00C LEVEL SENSOR WAS RESET. THE MERCURY BUBB CHAMBER WAS PLUGGED IN ITS POSITION INDICATING THAT THE FACTORY APPLIED ADHESIVE HAD DEGENERATED. NEW ADHESIVE WAS APPLIED PRIOR TO RECALIBRATION.

AVAILABILITY - NDA PUBLIC DOCUMENT NUMBER, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
(PAGE 2 of 2)

PARADIGM VESSEL • GARDIAN 3 (MOM) • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • SEE POINT • DRIFT • SENSORS, LEVEL

100377
 NYNASE IL PDE SUPPRESSION FAILS AT WRESDEN 3
 COMMUNICATIONS TISSON COMPANY, EL PASO
 2 PAGES. LETTER TO HQS DISCREPANCY OF REGULATORY OPERATIONS, REGION 3, MARCH 3, 1975, BOCLET 50-249, TYPE--
 COM, HQS--GEO. AG--S&T & LUND

CAUSE - LEAKING FITTING. DURING AN INSPECTION WHILE THE REACTOR WAS IN COLD SHUTDOWN, ONE BERGER-PATERSON SHAMBER WAS FOUND TO HAVE LOST ALL ITS HYDRAULIC FLUID. INSPECTION FOUND 2 O-RINGS MISSING FROM THE CHECK VALVE ASSEMBLY AND ITS TUBING AND THE ZIRC FITTING USED TO ADD HYDRAULIC FLUID TO THE SHAMBER WAS FOUND TO LEAK THROUGH. THE ZIRC FITTING, WHICH WAS LOCATED AT THE BOTTOM OF THE ASSEMBLY, WAS BELIEVED TO BE THE PRIME CAUSE. THE REPAIR PROCEDURE DID NOT LIST THE O-RINGS THAT WERE MISSING ON THE CHECK OFF SHEET. NEW PROCEDURES WERE PREPARED.

AVAILABILITY - NAL PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.50

FAILURE, EQUIPMENT • UNDESIR. (BNN) • SHOCK ABSORBER • SUPPORT STRUCTURE • SURVEILLANCE PROGRAM • LEAK • PIPES AND PIPE FITTINGS

100874
 MSIV NOT FULL OPEN SCRAM MALFUNCTION AT DRESUEN 3
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 1 PAGE. LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 7, 1975, DOCKET 90-249, TYPE--BWR, NRC--
 -6-... AE--SGT & LUNDT

CAUSE - FAULTY LIMIT SWITCH. WITH THE UNIT AT 1249 MW, A RELAY FAILED TO DE-ENERGIZE DURING THE NSIV NOT FULL OPEN SCRAM TEST OF A NSIV. THE APPARENT CAUSE WAS A FAULTY LINE SWITCH ON THE VALVE. NO PROBLEMS WERE FOUND DURING THE INSPECTION. ALL COMPONENTS WORKED PROPERLY. THE NSIV WAS RETESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT GROUP, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTION SAFETY SYSTEM • DESIGN 3 (DMS) • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • VALVES • RELAYS

100900
 CONTROL ROD SCRAM TIMES EXCESSIVE AT DRESDEN 3
 COMMONWEALTH EDISON COMPANY, ILL.
 2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 12, 1975, DOCKET 50-249, TYPE--
 BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - DEGRADATION OF DRIVE SEALS. THE 1 WEEK 25 CONTROL ROD DRIVE SCRAM TESTING SHOWED THAT 2 DRIVES HAD EXCESSIVE SCRAM TIMES. THE APPARENT CAUSE WAS DEGRADATION OF THE DRIVE SEALS. ONE DRIVE WAS LEFT AT POSITION 40 AND THE OTHER WAS INSERTED AND DISARMED. THESE DRIVES ALONG WITH SEVERAL OTHERS WILL BE OVERRIDENED DURING THE NEXT REPELING OUTAGE WHICH IS SCHEDULED FOR MAY 1975.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) + RESPONSE TIME + TEST, SYSTEM OPERABILITY + FAILURE, SCRAM MECHANISM + SEAL + CONTROL RODS + CONTROL ROD DRIVE MECHANISMS

100925
 DIESEL GENERATOR INOPERABLE AT DRESDEN 3
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 18, 1975, DOCKET 50-249, TYPE--
 BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - OPERATOR ERROR. WITH THE REACTOR AT 1311 MW, UNIT 3 DIESEL GENERATOR WAS CHECKED FOR OPERABILITY PRIOR TO THE MONTHLY INSPECTION OF THE 2/3 DIESEL GENERATOR. THE SECOND PHASE OF THE OPERABILITY CHECK CALLS FOR TEMPORARILY CLOSING BOTH AIR RECEIVING TANK OUTLET VALVES DURING THE AIR START MOTOR TESTING. APPARENTLY THE VALVES WERE INADVERTENTLY LEFT CLOSED MAKING THE UNIT 3 DIESEL GENERATOR INOPERABLE UNTIL THE ERROR WAS DISCOVERED 6 DAYS LATER. PROCEDURES WILL BE MODIFIED TO TEST THE AIR START MOTOR BEFORE THE DIESEL OPERABILITY TEST. ALSO, THE LOW AIR PRESSURE SENSORS WILL BE RELOCATED DOWNSTREAM OF THE TANK OUTLET VALVES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, OPERATOR ERROR + PROCEDURES AND MANUALS + TESTING + DRESDEN 3 (BWR) + MODIFICATION + FAILURE, ADMINISTRATIVE CONTROL + ENGINES, INTERNAL COMBUSTION + GENERATOR, DIESEL + SENSORS, PRESSURE

100921
 CORE SPRAY VALVE FAILS TO CLOSE AT DRESDEN 3
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 2 PAGES, LETTER FROM NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 19, 1975, DOCKET 50-249, TYPE--
 BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - PREMATURE TRIPPING OF THERMAL OVERLOAD. DURING CORE SPRAY TESTING, A VALVE WOULD NOT CLOSE ELECTRICALLY WITH A CORE SPRAY PUMP RUNNING. FAILURE HAS OCCURRED 3 TIMES. TESTS INDICATE THAT THE THERMAL OVERLOAD IS TRIPPING PREMATURELY. IT WILL BE REPLACED. TWO OF THE REMAINING 3 MOTORS APPEAR TO BE DRAWING A HIGHER CURRENT THAN REQUIRED. ALL MOTORS APPEAR TO BE IN GOOD CONDITION. NO REASON IS KNOWN FOR THE HIGH CURRENT. REPLACEMENT MOTORS HAVE BEEN ORDERED AND WILL BE INSTALLED IF THEY CHECK OUT PROPERLY. THE VALVE THAT FAILED IS USED FOR TEST PURPOSES ONLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT + CORE SPRAY + FAILURE, EQUIPMENT + INSTRUMENT, PROTECTIVE + DRESDEN 3 (BWR) + TEST, SYSTEM OPERABILITY + VALVES

101074
 SETPOINT DRIFT IN PRESSURE SWITCH AT DRESDEN 3
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 20, 1975, DOCKET 50-249, TYPE--
 BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 404 MWE, A CORE SPRAY PERMISSIVE PRESSURE SWITCH SETPOINT WAS FOUND TO BE 270 PSIG WHICH IS BELOW THE 300 PSIG LIMIT. THE SWITCH WAS RESET IMMEDIATELY TO 324 PSIG. SETPOINT HAS BEEN A RECURRING PROBLEM WITH BOUNDOON TUBE PRESSURE SWITCHES. A DIFFERENT TYPE OF SWITCH WILL BE OBTAINED AS A REPLACEMENT. ESTIMATED REPLACEMENT DATE OF ONE YEAR IS DUE TO QUALITY ASSURANCE REQUIREMENTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CORE SPRAY + DRESDEN 3 (BWR) + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + FAILURE, DESIGN ERROR + QUALITY ASSURANCE + SET POINT + DRIFT + SENSORS, PRESSURE

100926
 SETPOINT DRIFT IN LPC PRESSURE SWITCH AT DRESDEN 3

101076 PLANTINUEDUP
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 20, 1975, DOCKET 50-249, TYPE—
DMA, MFG—G.E., AE—SGT E LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE UNIT OPERATING AT 404 MW, A LPCI PRESSURE SWITCH TRIPPED AT 270 PSIG WHICH IS BELOW THE 320 PSIG LIMIT. IT WAS RESET TO 320 PSIG. THE CAUSE APPEARS TO BE INHERENT SETPOINT DRIFT IN THE MELTRON, MODEL 312, RANGE 20 TO 1400 PSIG, PRESSURE SWITCH. IT WILL BE REPLACED BY A DIFFERENT TYPE SWITCH, DUE TO QUALITY ASSURANCE REQUIREMENTS FOR REPLACEMENT SWITCHES. ESTIMATED REPLACEMENT TIME IS ONE YEAR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DMA) • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • SET POINT • DRIFT • SEASONS, PRESSURE • LPCI

101072
SETPOINT DRIFT IN MAIN STEAM LINE RADIATION MONITORS AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS
1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 27, 1975, DOCKET 50-249, TYPE—
DMA, MFG—G.E., AE—SGT E LUNDY

CAUSE - INSTRUMENT DRIFT. DURING THE WEEKLY TRIP CHECK OF THE MAIN STEAM LINE RADIATION MONITORS, ONE TRIPPED AT 1500 CPS AND ANOTHER AT 1550 CPS. THE LIMIT IS 1500 CPS. ERRORS CAN BE MADE IN SETTING DUE TO THE MONITOR CONTINUING UPSCALE AFTER THE TRIP OCCURS. ALSO, THE SETPOINT IS 1500 CPS WHICH DOES NOT ALLOW FOR ANY ERROR. THE LPRO WAS TRIPPED ON BOTH INSTRUMENTS. BOTH WERE RECALIBRATED. THE SETPOINT WILL BE LOWERED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR SAFETY SYSTEM • DRESDEN 3 (DMA) • INSTRUMENT CALIBRATION • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL • SET POINT • DRIFT • RADIATION MONITORS

101073
CONTROL ROD SCRAM TIMES EXCESSIVE AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MARCH 27, 1975, DOCKET 50-249, TYPE—
DMA, MFG—G.E., AE—SGT E LUNDY

CAUSE - DRIVE SEAL DEGRADATION. DURING THE 2-WEEK LONG 25 CONTROL ROD DRIVE SCRAM TESTS WITH THE REACTOR AT 1205 MW, 95% INSERTION TIME OF ONE ROD EXCEEDED LIMITS. THE CAUSE APPEARS TO BE DEGRADATION OF THE DRIVE SEALS. ALSO, THE O-RINGS ON THE SCRAM PILOT SOLENOID VALVES WERE DAMAGED. THE VALVES WERE REPLACED. DURING RETESTING, ALL DRIVES IMPROVED AND WERE WITHIN LIMITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DMA) • RESPONSE TIME • TEST, CONTROL ROD DRIVE • TEST, SYSTEM OPERABILITY • FAILURE, SCRAM MECHANISM • SEAL • CONTROL RODS • CASPOL ROD DRIVE MECHANISMS

101006
LPCI VALVE TRIPS UP OVERLOAD AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, APRIL 3, 1975, DOCKET 50-249, TYPE—
DMA, MFG—G.E., AE—SGT E LUNDY

CAUSE - UNKNOWN. WITH THE REACTOR AT 125 MW, A LPCI VALVE EXPERIENCED A THERMAL TRIP AFTER CLOSING DURING A TEST. AFTER 2 MINUTES, THE THERMAL OVERLOAD RESET AUTOMATICALLY AND THE VALVE WAS OPENED. THE VALVE MOTOR IS DRAWING ABOUT 3.5 AMPS DURING NORMAL OPERATION. IT IS RATED AT 2.9 FUL FULL LOAD. SIMILAR FAILURES HAVE OCCURRED IN THE CORE SPRAY SYSTEM. THE CAUSE IS UNDER INVESTIGATION. THE LPCI VALVE WAS RETURNED TO ITS NORMALLY OPEN POSITION WHICH IS THE SAFE POSITION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • INSTRUMENT, PROTECTIVE • DRESDEN 3 (DMA) • TEST, SYSTEM OPERABILITY • VALVE OPERATORS • VALVES • LPCI

101735
CORE SPRAY VALVE FAILS TO OPEN AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, APRIL 4, 1975, DOCKET 50-249, TYPE—
DMA, MFG—G.E., AE—SGT E LUNDY

CAUSE - UNKNOWN. WHILE THE REACTOR WAS OPERATING AT 1205 MW, A CORE SPRAY VALVE FAILED TO CLOSE

101135 CONTINUED

ELECTRICALLY DURING TESTING. FROM PREVIOUS FAILURES. IT HAS BEEN DETERMINED THAT THE VALVE CANNOT BE CLOSED ELECTRICALLY WHILE THE CORE SPRAY PUMP IS RUNNING. AN OPERATOR WAS STATIONED AT THE VALVE TO MANUALLY CLOSE IT IF NECESSARY. THE VALVE IS USED FOR TEST PURPOSES ONLY. DURING THE NEXT REFUELING OUTAGE, THE VALVE WILL BE DISASSEMBLED FOR INSPECTION TO DETERMINE THE CAUSE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CORE SPRAY + FAILURE, EQUIPMENT + TESTING + DRESDEN 3 (DWR) + TEST, SYSTEM OPERABILITY + VALVES

102200

PENETRATION TEST LINE FOUND TO BE BROKEN AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, APRIL 25, 1975, DOCKET 50-249, TYPE--DWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - MAINTENANCE ERROR. WHILE PREPARING TO LEAK TEST THE MSIV'S DURING A REFUELING OUTAGE, A BREAK WAS DISCOVERED IN THE 1/4-IN. STAINLESS STEEL TEST LINE TO THE BELLONS SEAL FOR A MAIN STEAM LINE PENETRATION. THE LINE HAD COMPLETELY SEPARATED. APPARENTLY, PERSONNEL USED THE PENETRATION TO STAND ON DURING MAINTENANCE IN THE AREA. THE LINE WAS INADVERTENTLY STEPPED ON. THE BROKEN PIECE OF TUBING WAS REMOVED AND REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DWR) + TUBING + PENETRATIONS, PRIMARY CONTAINMENT + SEAL + MAIN COOLING SYSTEM + FAILURE, MAINTENANCE ERROR + FAILURE, TUBING + TESTING + REFUELING

102545

SET POINT DRIFT IN NPCL AREA TEMPERATURE SENSORS AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MAY 6, 1975, DOCKET 50-249, TYPE--DWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - DESIGN DEFICIENCY. TESTING OF THE HIGH PRESSURE COOLANT INJECTION SYSTEM AREA TEMPERATURE SENSORS DURING THE REFUELING OUTAGE FOUND 12 OF THE 16 SENSORS TO HAVE SET POINTS ABOVE THE 200 F LIMIT. THE EXISTING TEMPERATURE SENSORS ARE NOT SUITED FOR A FIRST OPERATION SURVEILLANCE TYPE OPERATION. A LIQUID FILLED TEMPERATURE SENSOR WHICH IS BETTER SUITED FOR THIS APPLICATION WILL BE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, TEMPERATURE + TEST, SYSTEM OPERABILITY + FAILURE, DESIGN ERROR + SET POINT + DRIFT + NPCL + REFUELING + FAILURE, INSTRUMENT

102554

SET POINT DRIFT IN NPCL AREA TEMPERATURE SENSORS AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 6, 1975, DOCKET 50-249, TYPE--DWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - UNSUITABLE TYPE OF SENSOR. DURING CALIBRATION OF THE HIGH PRESSURE COOLANT INJECTION SYSTEM AREA TEMPERATURE SENSORS WHILE A REFUELING OUTAGE WAS IN PROGRESS, THE SET POINT ON 12 OF THE 16 SENSORS WAS FOUND TO BE ABOVE THE 200 F LIMIT. THE EXISTING SENSORS ARE NOT SUITED FOR THIS SERVICE. A LIQUID FILLED TEMPERATURE SENSOR WHICH IS BETTER SUITED FOR THIS USE WILL BE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, TEMPERATURE + FAILURE, DESIGN ERROR + TEST, SYSTEM OPERABILITY + SET POINT + DRIFT + NPCL + REFUELING

102600

HYDRAULIC PIPING RESTRAINTS FOUND TO BE INOPERABLE AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 6, 1975, DOCKET 50-249, TYPE--DWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING AN INSPECTION WHILE THE REACTOR WAS SHUTDOWN FOR REFUELING, 2 HYDRAULIC PIPING RESTRAINTS WERE FOUND TO BE INOPERABLE. THE CAUSE HAS NOT BEEN DETERMINED. THE INOPERABLE UNITS WILL BE REPLACED WITH REBUILT UNITS PRIOR TO STARTUP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DWR) + SHOCK ABSORBER + PIPES AND PIPE FITTINGS + FAILURE, EQUIPMENT + SURVEILLANCE PROGRAM +

102674 *CONTINUUM
REFUELING * SUPPLY STRUCTURE

103150
24748 VOL BATTERIES FAIL TO DELIVER RATED AMP-HOUR CAPACITY AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILL.
2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, MAY 19, 1975, DOCKET 92-249, TYPE--DNR, NRC--G.E., AC--SGT & LUNDY

CAUSE - BAD CELLS. DURING A DISCHARGE TEST WHILE THE REACTOR WAS SHUTDOWN FOR REFUELING, NEITHER OF THE 24748 VOL BATTERIES DELIVERED THE REQUIRED 80 AMPERE-HOURS BEFORE THE BULK VOLTAGE DROPPED BELOW 42 VOLTS. FAILURE WAS DUE TO 6 BAD CELLS IN ONE BATTERY AND 6 BAD CELLS IN THE OTHER. THERE ARE 24 CELLS PER 40 V BATTERY. THE 17 CELLS THAT HAD DETEIORATED WILL BE REPLACED PRIOR TO COME CHARGING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DNR) * BATTERIES & CHARGERS * EMERGENCY POWER, ELECTRIC * TEST, SYSTEM OPERABILITY * FAILURE, COMPLAINT * REFUELING

103102
SET POINT DRIFT IN TEMPERATURE SWITCHES AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, MAY 30, 1975, DOCKET 92-249, TYPE--DNR, NRC--G.E., AC--SGT & LUNDY

CAUSE - SENSORS NOT SWITCHED FOR USE. DURING TESTING OF THE MAIN STEAM LINE AREA TEMPERATURE SENSORS WHILE THE UNIT WAS BEING REPELLED, THE SET POINTS OF 6 SENSORS WERE FOUND TO BE ABOVE THE 200 F LIMIT. THE SENSORS WERE RESET. THE EXISTING SENSORS ARE NOT SWITCHED FOR THIS TYPE OPERATION. LIQUID FILLED SENSORS ARE BEING TESTED AS POSSIBLE REPLACEMENTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DNR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, TEMPERATURE * TEST, SYSTEM OPERABILITY * SET POINT * DRIFT * FAILURE, INSTRUMENT * FAILURE, DESIGN ERROR * REACTOR SAFETY SYSTEM * REFUELING

103467
STANDBY LIQUID CONTROL RELIEF VALVE SET POINTS LESS THAN LIMIT AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 13, 1975, DOCKET 92-249, TYPE--DNR, NRC--G.E., AC--SGT & LUNDY

CAUSE - SET POINT DRIFT. TEST PERFORMED IN THE MAINTENANCE SHOP DURING THE REFUELING OUTAGE FOUND BOTH STANDBY LIQUID CONTROL PUMP DISCHARGE RELIEF VALVES TO OPERATE BELOW THE REQUIRED SET POINT. ONE VALVE OPERATED PROPERLY BUT THE SET POINT WAS LOW. IT WAS CLEANED AND RESET. THE OTHER VALVE LEAKED. CRYSTALS OF SODIUM PENTABORATE WERE FOUND ON THE VALVE SEAT WHICH PREVENTED THE VALVE FROM SEATING PROPERLY. THE VALVE WAS CLEANED, LAPPED, AND RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DNR) * VALVES * PRESSURE RELIEF * SHUTDOWN SYSTEM, SECONDARY * TEST, SYSTEM OPERABILITY * FAILURE, EQUIPMENT * SET POINT * DRIFT * LEAK * CHGD * REFUELING

103466
SUPPLEMENTAL REPORT ON EXCESSIVE LEAKAGE THROUGH ISOLATION VALVE AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, CHICAGO
3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 17, 1975, DOCKET 92-249, TYPE--DNR, NRC--G.E., AC--SGT & LUNDY

CAUSE - UNKNOWN. ON FEB. 14, 1975 LEAKAGE IN EXCESS OF LIMIT OF 58 LTD WAS DETECTED THROUGH AN ISOLATION VALVE. THE MANUFACTURER EXAMINED THE VALVE AND FOUND THAT IT LEAKED TOTALLY AROUND THE SEATING SURFACE AT 30 PSIG. THE VALVE SEAT HAD 2 DEEP TEARS OR CRACKS ABOUT 1 INCH LONG OFF THE SEATING AREA WHICH DID NOT LEAK BUT DISTORTED THE RUBBER SEAT CAUSING OVERALL LEAKAGE. IMPROPER ASSEMBLY WAS NOT CONSIDERED A PROBABLE CAUSE. IT COULD BE CRYTOGENIC DETERIORATION. A TEMPERATURE ELEMENT WILL MONITOR THE VALVE AREA NITROGEN INERTING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (DNR) * VALVES * CONTAINMENT ISOLATION * EXAMINATION * LEAK * CRYTOGENICS * FAILURE, EQUIPMENT

103729
PURE FAILURES IDENTIFIED BY WET SIPPING TESTS AT DRESDEN 3

105724 CONTINUED

COMMONWEALTH EDISON COMPANY, CHICAGO

17 PAGES, LETTER WITH REPORT TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JUNE 20, 1975, Docket 50-249, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - PELLET-CLAD INTERACTION. OF THE 724 FUEL ASSEMBLIES SET SIPPED OUT OF COMP. 113 WERE IDENTIFIED AS DEFECTIVE. GE AGREED THEY WERE IDENTIFIED AS DEFECTIVE AS INDICATED BY THE FUEL CONTRACT. ALSO, 27 HIGH EXPOSURE ASSEMBLIES WERE UNCHANGED AND 140 NEW ONES WERE INSERTED FOR CYCLE 4. ALL DEFECTIVE ASSEMBLIES WERE 747 FUEL ENRICHED TO 2.13 WAD U-235. AVERAGE FAILURE RATE WAS 15.00. THE CORE WAS CHECKED AT AN AVERAGE RATE OF 40 ASSEMBLIES PER DAY. FUEL AND FAILURE RELATES TO ROD MOVEMENT WERE PROBABLY CAUSED BY A PELLET-CLAD INTERACTION MECHANISM INVOLVING HIGHLY LOCALIZED STRESS LEADING TO CLADDING CRACKING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • FUEL ELEMENTS • FAILURE, CLADDING • FAILURE, FUEL ELEMENT • INSTRUMENT, DETECTION FAILED FUEL ELEMENT • FUEL INTEGRITY • FAILURE, FASICATION ERROR • FUEL BURNUP • CRACK • CLADDING

106203

CRACKS FOUND ON L. TAIL AND DRIVE COLLET HOUSINGS AT DRESDEN 3

COMMONWEALTH EDISON COMPANY, CHICAGO

3 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JULY 3, 1975, Docket 50-249, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - UNKNOWN. WHILE OVERHAULING CONTROL ROD DRIVE ROD DURING THE REFUELING OUTAGE, A FORTRAN NOTICED A CRACK IN THE COLLET HOUSING SHUNT TUBE. UP 10 MECHANISMS EXAMINED IT HAVE SOME INDICATION OF CRACKING. GE HAS OBSERVED SIMILAR CRACKS ON TEST DRIVE MECHANISMS THAT HAVE BEEN SCRAM-CYCLED 2000 TIMES. GE HAS ASSUMED THE PROBLEM WAS DUE TO THE ABNORMALLY HIGH NUMBER OF SCRAM-CYCLES. THE CAUSE APPEARS TO BE RELATED TO TEMPERATURE CYCLE, THE DRIVE EXPERIENCES DURING A REACTOR SCRAM. THREE INDEPENDENT STUDIES ARE IN PROGRESS. NEW HOUSING ASSEMBLIES HAVE BEEN RECEIVED TO REPLACE CRACKED UNITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • PLANT AND DRIVE MECHANISMS • FAILURE, COMPONENT • CRACK • METALLURGY • REFUELING • MAINTENANCE AND REPAIR • THERMAL MECHANICAL EFFECT

106030

CLAMP BOLT KEEPER TACK WELDS ON JET PUMPS FAIL AT DRESDEN 3

COMMONWEALTH EDISON COMPANY, CHICAGO

2 PGS, LTR TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 3, JULY 31, 1975, Docket 50-249, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - POOR TACK WELDING. DURING RESTRAINER KEEPER LIFT TESTING OF THE JET PUMPS DURING THE REFUELING OUTAGE, THE TACK WELDS ON 2 JET PUMPS FAILED. THE APPARENT CAUSE IS POOR TACK WELDING. THE CLAMP BOLT KEYPERS FOR THE 2 JET PUMPS WERE REWELDED AND SUCCESSFULLY RETESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • PUMPS, JET • FAILURE, INSTALLATION ERROR • TEST, SYSTEM OPERABILITY • REFUELING • MAIN COOLING SYSTEM

109544

PRIMARY CONTAINMENT LOCAL LEAK RATES EXCEED LIMITS AT DRESDEN 3

COMMONWEALTH EDISON COMPANY, CHICAGO

10 PGS, LTR W/ATTACH. TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, AUG. 14, 1975, Docket 50-249, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - SEAL FAILURES. WHILE PERFORMING LOCAL LEAK-RATE TESTS DURING THE REFUELING OUTAGE, 7 TESTS EXHIBITED LEAKAGES ABOVE THE MAXIMUM ALLOWABLE LIMITS. FOUR FREEDWATER CHECK VALVES WERE LEAKING BETWEEN THE VALVE SEAT AND VALVE BODY. THE O-RING HAD BEEN SQUEEZED AND NO LONGER SEALED. THE O-RING GROOVE DEPTH WAS INCREASED TO PROVIDE METAL-TO-METAL CONTACT WITH THE O-RING PROVIDING A SEAL. DRYWELL-TO-TURBINE VACUUM BREAKERS LEAKED THROUGH THE VALVE SHAFT PACKING, APPARENTLY FROM SETTLING OF THE PACKING. THE PACKING BOLTS WERE TIGHTENED. LEAK RATES WERE THEN WELL WITHIN LIMITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • LEAK RATE • VALVE, CHECK • FREEDWATER • CONTAINMENT VACUUM BREAKER • SEAL • TEST, LEAK RATE • CONTAINMENT • PENETRATIONS, PRIMARY CONTAINMENT • REFUELING • TEST, SYSTEM OPERABILITY

109108

SET POINT DRIFT IN FLOW SENSORS AT DRESDEN 3

COMMONWEALTH EDISON COMPANY, CHICAGO

2 PGS, LTR TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, AUG. 15, 1975, Docket 50-249, TYPE--BWR, NRC--G.E.,

105100 PCUNTRAGEUP
AE--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF ISOLATION CONDENSER HIGH FLOW SWITCHES WITH THE NEUTRON SHUTDOWN FOR REFUELING, BOTH DIFFERENTIAL SWITCHES WERE FOUND WITH SETPOINTS ABOVE THE 32 INCHES UP WATER LIMIT. THE TRIP POINTS WERE 36 AND 36.5 INCHES RESPECTIVELY. THEY WERE RESET IMMEDIATELY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, FLOW • FAILURE, INSTRUMENT • RESET POINT • DRIFT • TEST, SYSTEM OPERABILITY • PLANT PROTECTIVE SYSTEM • REFUELING

105545
LPCI VALVE TRIPS ON THERMAL OVERLOAD AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, CHICAGO
2 PGS. LTR TO NRC DIR. OF REGULATORY OPERATIONS, REGION 3, AUG. 27, 1975, DOCKET 50-249, TYPE--BWR, NRC--G.E.,
AE--SGT & LUNDY

CAUSE - DEFECTIVE MOTOR. WHILE TESTING THE LPCI SYSTEM DURING A REFUELING OUTAGE, THE MOTOR OPERATOR ON A VALVE TRIPPED TWICE ON THERMAL OVERLOAD. THE MOTOR WAS FOUND TO DRAW 2.8 AMPS WITH NO LOAD. WITH LOAD IT IS RATED AT 2.04 AMP BUT WHEN BETWEEN 3.2 AND 3.5 AMPS. THE DEFECTIVE MOTOR WAS REPLACED WITH A SIMILAR TYPE MOTOR WHICH DREW 1.9 AMP WITH NO LOAD AND 2.3-2.5 AMPS WHILE OPERATING THE VALVE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • VALVES • LPCI • FAILURE, EQUIPMENT • TEST, SYSTEM OPERABILITY • VALVE OPERATIONS • MOTORS • REFUELING

105834
CIRCUIT BREAKER FAILS TO TRIP OPEN AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, CHICAGO
2 PGS. LTR TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION 3, AUGUST 29, 1975, DOCKET 50-249, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - TRIP COIL BURNED OUT. DURING TESTING OF THE ECCS WITH THE UNIT IN SHUTDOWN, BUS 34 WAS DE-ENERGIZED. DURING BREAKER TRIP TESTING AS THE TRIP COIL OF A BREAKER WAS ENERGIZED, THE COIL BURNED OUT BEFORE TRIPPING THE BREAKER. ALL BREAKER COMPONENTS APPEARED TO BE SERVICEABLE. THE BREAKER WAS REPLACED WITH A SIMILAR ONE. THE DEFECTIVE TRIP COIL WAS REPLACED AND THE BREAKER WAS SUCCESSFULLY TRIPPED SEVERAL TIMES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • BREAKER • ELECTRIC POWER • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • EMERGENCY COOLING SYSTEM • EMERGENCY POWER, ELECTRIC • REFUELING

105847
SET POINT DRIFT IN REACTOR HIGH PRESSURE SENSORS AT DRESDEN 3
COMMONWEALTH EDISON COMPANY, CHICAGO
2 PGS. LTR TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION 3, SEPT. 2, 1975, DOCKET 50-249, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING THE REFUELING OUTAGE, A CALIBRATION OF THE 4 REACTOR HIGH PRESSURE SENSORS REVEALED THAT 3 HAVE SET POINTS ABOVE THE 1000 PSIG LIMIT. SET POINT DRIFT APPEARS TO BE AGGRAVATED BY EXTENDED PERIODS AT ZERO PRESSURE. THE ERROR AMOUNTED TO LESS THAN 5% OF THE OPERATING RANGE. THE SWITCHES WERE IMMEDIATELY RESET. SUITABLE REPLACEMENTS FOR THESE METETRON MODEL 372 SWITCHES ARE BEING EVALUATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

DRESDEN 3 (BWR) • INSTRUMENT, SWITCH • SENSORS, PRESSURE • INSTRUMENT CALIBRATION • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • RESET POINT • DRIFT • REACTOR SAFETY SYSTEM

106340
MAIN STEAM LINE DRAIN VALVE FAILS AT DRESDEN 3
COMMONWEALTH EDISON, ILL.
2 PGS. LTR 50-249/75-39 TO NRC DIRECTORATE OF DIRECTORATE OF REGULATORY OPERATION, REGION III, SEPT. 3, 1975, DOCKET 50-249, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - DEFECTIVE OVERLOAD RELAY. DURING THE REFUELING OUTAGE, A MOTOR-OPERATED ISOLATION VALVE LOCATED INBOARD ON THE MAIN STEAM MAIN LINE WAS BEING TESTED TO EVALUATE CHANGES MADE TO THE TORQUE SWITCH SETTING. THE VALVE MOTOR TRIPPED TWICE BECAUSE OF A DEFECTIVE OVERLOAD RELAY. THE RELAY APPEARED TO BE THERMALLY DAMAGED BUT THE CAUSE IS UNKNOWN. THE OVERLOAD RELAY WAS REPLACED AND THE VALVE CYCLED SATISFACTORILY. IT IS A GE MODEL LN 124-R020.

100300 OREGONIAN
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 3 (UNIT) • PRESSURE • CONTAINMENT ISOLATION • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT •
 INSTRUMENT, PROTECTIVE • REPAIRING • REPAIRS

100309
 SET POINT DRIFT IN PRESSURE SWITCHES AT DRESSEN 3
 COMMONWEALTH EDISON, ILL.
 2 PGS., AM 50-249/75-00 TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION III, SEPT. 4, 1975, DOCKET 50-249,
 TYPE--DM, NRC--L.E., AC--SGT & LUDOV

CAUSE - INSTRUMENT DRIFT. DURING TESTING WHILE THE UNIT WAS IN A REFUELING OUTAGE, 2 PRESSURE
 SWITCHES TRIPPED AT 600 AND 615 PSI RESPECTIVELY. THE NRC SPEC LIMIT FOR THESE SWITCHES IS 600
 PSI. LONG PERIODS AT ZERO PRESSURE APPARENTLY ALLOW INSTRUMENT SET POINTS TO DRIFT SIGNIFICANTLY
 OUT OF CALIBRATION. THE MILETRON MODEL 372 PRESSURE SENSORS WITH A 20-1400 PSI RANGE WERE
 IMMEDIATELY RESET TO WITHIN THE SETPOINT LIMIT OF 500 ± 20 PSI.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 3 (UNIT) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • FAILURE, INSTRUMENT •
 SET POINT • DRIFT • REPAIRING • REACTOR SAFETY SYSTEM • TEST, SYSTEM OPERABILITY

100341
 SET POINT DRIFT IN PRESSURE SWITCHES AT DRESSEN 3
 COMMONWEALTH EDISON, ILL.
 2 PGS., AM 50-249/75-06 TO NRC DIRECTOR OF DIRECTORATE OF REGULATORY OPERATION, REGION III, SEPT. 4, 1975,
 DOCKET 50-249, TYPE--DM, NRC--L.E., AC--SGT & LUDOV

CAUSE - INSTRUMENT DRIFT. DURING CALIBRATION OF THE 350 PSI REACTOR PRESSURE SWITCHES FOR THE
 LPEI AND COPE SPRAY SYSTEMS, 2 OF THE 4 SWITCHES WERE FOUND WITH SET POINTS GREATER THAN 350 PSI.
 SET POINTS WERE 305 AND 304 PSI RESPECTIVELY. THE MILETRON MODEL 372 SWITCHES APPEAR TO BE
 ESPECIALLY SUSCEPTIBLE TO SET POINT DRIFT DURING LONG PERIODS OF INACTIVITY. THE UNIT WAS IN A
 REFUELING OUTAGE. THE SWITCHES WERE RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 3 (UNIT) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY
 • FAILURE, INSTRUMENT • SET POINT • DRIFT • REPAIRING • EMERGENCY COOLING SYSTEM

100342
 SET POINT DRIFT IN PRESSURE SWITCHES AT DRESSEN 3
 COMMONWEALTH EDISON, ILL.
 2 PGS., AM 50-249/75-37 TO NRC DIRECTOR OF DIRECTORATE OF REGULATORY OPERATION, REGION III, SEPT. 4, 1975,
 DOCKET 50-249, TYPE--DM, NRC--L.E., AC--SGT & LUDOV

CAUSE - INSTRUMENT DRIFT. DURING THE REFUELING OUTAGE, 3 OF THE 4 REACTOR HIGH PRESSURE SWITCHES
 WERE FOUND TO TRIP ABOVE THE 1070 PSIG LIMIT. SET POINTS WERE 1000, 1077, AND 1112 PSIG.
 RESPECTIVELY. RECENT TRENDS SUGGEST THAT EXTENDED PERIODS AT ZERO PRESSURE ALLOW MINOR SET
 POINT DEVIATIONS TO SIGNIFICANTLY ACCUMULATE. THE SWITCHES WERE IMMEDIATELY RESET TO WITHIN
 1055 ± 20 PSI. THESE ARE MILETRON MODEL 372 BOURDON TUBE PRESSURE SENSORS WITH A RANGE OF
 20-1400 PSI.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

DESIGN 3 (UNIT) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY
 • FAILURE, INSTRUMENT • SET POINT • DRIFT • REPAIRING • REACTOR SAFETY SYSTEM

100459
 INTERMEDIATE RANGE MONITORS FAIL TO RESPOND AT DRESSEN 3
 COMMONWEALTH EDISON, ILL.
 3 PGS., AM 50-249/75-41 TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION III, SEPT. 16, 1975, DOCKET 50-249,
 TYPE--DM, NRC--L.E., AC--SGT & LUDOV

CAUSE - DAMAGE TO CABLE DURING MAINTENANCE. DURING A PLANT STARTUP AS REACTOR POWER WAS
 INCREASING, 5 OF THE 8 INTERMEDIATE RANGE MONITORS DID NOT APPEAR TO BE RESPONDING. THE REACTOR
 WAS SHUT DOWN. THE IRM CABLES APPEARED TO HAVE BEEN INADVERTENTLY PULLED OPEN BY PERSONNEL
 WORKING UNDERNEATH THE REACTOR VESSEL IN CRAMPED QUARTERS. WATER WAS FOUND IN SOME CABLE
 CONNECTIONS PROBABLY AS A RESULT OF CONTROL ROD DRIVE FLANGE LEAKAGE DURING THE INITIAL VESSEL
 HYDRO. THE FAULTY CABLES WERE REPLACED FROM THE JUNCTION BOX IN THE DRYWELL TO THE IRM
 CONNECTIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

100459 PLANTINER
DRESDEN 3 (DND) • PHOTOGRAPH, INTERPRETATION • CABLES AND CONNECTORS • FAILURE, MAINTENANCE ERROR • REACTION STRUCTURE • REACTION SAFETY SYSTEM

100901
PERFORATION UPPER LINE LEAKS AT DRESDEN 3
COMMONWEALTH EDISON, CHICAGO, ILL.
2 PGS. AU 75-43 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, OCT. 7, 1975, DOCKET 50-249, TYPE--
DND, NRC--G.E., AC--SGT C LUNDY

CAUSE - FOUR WELD INSTALLATION. WHILE OPERATING AT 2401 PSIG, THE HEATER AND MAIN LINE WAS
FURNED IN OR LEAKING THROUGH A 2 INCH LONG CRACK AS A SUPPORT INTERSECTION. THE
CAUSE WAS FOUR WELD INSTALLATION OF THE MAIN LINE PIPE SUPPORT. THE LINE APPEARED TO HAVE BEEN
UNDERSTRESS AT THE PIPE SUPPORT DURING INSTALLATION. RESULTING IN A CRACK AFTER YEARS OF
OPERATION. THE CRACK WAS GROUND OUT AND REWELDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

DRESDEN 3 (DND) • PIPES AND PIPE FITTINGS • CRACK • LEAK • FAILURE, PIPE • OPERATOR • WELD ENCAPSULERS •
FAILURE, INSTALLATION ERROR • SUPPORT STRUCTURE

107000
SUPPLEMENTAL REPORT ON LEAKAGE THROUGH RUBBER-SEATED VALVES AT DRESDEN 3
COMMONWEALTH EDISON, CHICAGO, ILL.
2 PGS. SUPPL. RPT TO 50-249 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, OCT. 15, 1975, DOCKET
50-249, TYPE--DND, NRC--G.E., AC--SGT C LUNDY

CAUSE - MATERIALS PROBLEM. LEAKAGE PROBLEMS WITH THE SEALS ON RUBBER-SEATED VALVES IN THE
PRESSURE SUPPRESSION SYSTEM WAS REPEATED IN MAY 1972. SEAT MATERIAL WAS CHANGED FROM BUTYL-
RUBBER TO A RUBBER COMPOUND CALLED EPT WHICH CAN OPERATE AT HIGH TEMPERATURES. EXCEPT FOR THE
BUTYL AND TUBES PUMP VALVES, LEAK-RATE TEST FAILURES HAVE BEEN ISOLATED INCIDENTS NOT CAUSED
BY SEAT DETERIORATION. PUMP VALVE FAILURES ARE SUSPECTED TO BE CAUSED BY CRYOGENIC
DETERIORATION. A PLANT MODIFICATION IS BEING ENGINEERED TO ELIMINATE SEAT FAILURES DUE TO
CRYOGENIC STRESS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

DRESDEN 3 (DND) • LEAK RATE • VALVES • CONTAINMENT • TUBES • MATERIAL • FAILURE, DESIGN ERROR • MODIFICATION
• OPERATING EXPERIENCE • TEST INTERVAL • ELASTOMER

107509
SPECIAL NUCLEAR MATERIAL LOST AT DRESDEN 3
COMMONWEALTH EDISON, CHICAGO, ILL.
3 PGS. RPT TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION III, OCT. 17, 1975, DOCKET 50-249, TYPE--DND,
NRC--G.E., AC--SGT C LUNDY

CAUSE - LACK OF PROPER STORAGE. FIVE PORTABLE FUEL LOADING CHAMBERS, EACH CONTAINING 2 LAMPS OF
25-350 ENRICHED URANIUM-235, WERE RECEIVED PACKAGED IN 2 55-GALLON DRUMS. FOUR PLC'S HAD CABLES
ATTACHED TO THEM. THE OTHER WAS A SPARE. IT WAS IN A PLASTIC BAG, WRAPPED IN BAGS, AND PLACED
IN THE BOTTOM OF A DRUM. THE 4 WITH CABLES WERE INSTALLED IN THE REACTOR. THE 2 DRUMS, ONE
WITH THE SPARE INSIDE, WERE STORED ON THE REFUELING FLOOR FOR OVER 3 MONTHS DURING FEEDWATER
SPARGER REPLACEMENT AND OTHER WORK. THE DRUMS WERE MOVED AT TIMES UNKNOWN. THE PLC CANNOT BE
LOCATED. A PROPER STORAGE AREA WILL BE PROVIDED FOR PLC'S AND MOVEMENT WILL BE CONTROLLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

DRESDEN 3 (DND) • SOURCE, MATERIAL, LOST • SPECIAL NUCLEAR MATERIAL • URANIUM-235 • TRANSPORTATION AND
HANDLING • FAILURE, ADMINISTRATIVE CONTROL • CHAMBER • REFUELING • SAFEGUARDS, NUCLEAR MATERIAL

117095
LPCI VALVE FAILS TO OPEN COMPLETELY AT DRESDEN 3
COMMONWEALTH EDISON, CHICAGO, ILL.
2 PGS. AU 50-249/75-42 TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION III, OCT. 20, 1975, DOCKET 50-249,
TYPE--DND, NRC--G.E., AC--SGT C LUNDY

CAUSE - DEFECTIVE VALVE MOTOR. DURING A LPCI SYSTEM VALVE OPERABILITY TEST WITH THE REACTOR AT
700 PSI, THE PUMP SECTION WAS CLOSED AND THEN, DURING OPENING, IT TRAPPED ON INTERNAL OVERLOAD.
THE OVERLOAD DEVICES RESET AUTOMATICALLY AND THE VALVE WAS OPENED COMPLETELY. THE THERMAL
OVERLOAD DEVICES TRIPPED BECAUSE THE MOTOR WAS DRAWING A HIGH UNBALANCED CURRENT. THE VALVE
MOTOR WILL BE REPLACED WITH A NEW, SIMILAR MOTOR NOW ON ORDER. THE VALVE MANUFACTURER IS
PRESENTLY INSPECTING ANOTHER VALVE MOTOR WHICH DEMONSTRATED SIMILAR CHARACTERISTICS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

DRESDEN 3 (DND) • VALVES • LPCI • TEST, SYSTEM OPERABILITY • VALVE OPERATORS • MOTORS • INSTRUMENT,

107495 REINTERVIEW
PROTECTIVE + FAILURE + EQUI ENT

100006
UP WAS RELEASE RATE INCREASES AT JESSEN 3
COMMONWEALTH Edison Co., CHICAGO, IL
2 PGS, LTR W/NO 50-249/75-46 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, DEC. 11, 1975, DOCKET 50-249,
TYPE--DNR, NRC--G.E., AE--SGT & LUNDY

CAUSE - PROBABLY LIMITED FUEL CLAD DEGRADATION, WITH THE UNIT OPERATING AT 2355 MW WITH NO POWER
CHANGE IN THE PRECEDING 34 HOURS, THE LINEAR JFE-GAS MONITOR STARTED INCREASING. TWO DISTINCT
INCREASES WERE NOTED WITHIN A 2 HOUR PERIOD. THE INCREASE THEN APPEARED TO STABILIZE. THE
MAXIMUM STACK RELEASE RATE WAS 2.100 MILLICURIES/SEC, WELL WITHIN TECH SPEC LIMITS. LIMITED
EXAMINATION OF THE FUEL CLADDING IS CONSIDERED AS THE PROBABLE CAUSE. ISOTOPIC ANALYSIS
INDICATED MOST OF THE INCREASE APPEARED TO BE REEJIL ISOTOPIES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

RELEASE RATE + PAIRWISE RELEASE + STACK + FUEL INTEGRITY + FAILURE, CLADDING + FUEL ELEMENTS + JESSEN 3
(DNR)

100007
SET POINT TRIP IN LWR AT JESSEN 3
COMMONWEALTH Edison Co., CHICAGO, IL
2 PGS, LTR W/NO 50-249/75-46 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, DEC. 15, 1975, DOCKET
50-249, TYPE--DNR, NRC--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT ACCURACY. DURING TESTING WITH THE REACTOR AT 776 POWER, 1 OF THE 8
INTERMEDIATE RANGE MONITORS TRIPPED AT 121/125 WHICH EXCEEDS THE 120/125 LIMIT. INSTRUMENT
ACCURACY IS +/- 1.5% OF FULL SCALE. THE PRESENT CALIBRATION METHODS DON'T ALLOW FOR SET POINT
TRIP. THE TRIP POINT WAS SET CORRECTLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

JESSEN 3 (DNR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + INSTRUMENT, INTERMEDIATE RANGE + TEST, SYSTEM
UPHOLDABILITY + FAILURE, INSTRUMENT + SET POINT + TRIP + REACTOR SAFETY SYSTEM + FAILURE, ADMINISTRATIVE
CONTROL + PROCEDURES AND MANUALS

107187
DRYWELL SHOCK SUPPRESSOR FOUND IMPERFECT AT JESSEN 3
COMMONWEALTH Edison Co., CHICAGO, IL
2 PGS, LTR W/NO 50-249/75-46 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION III, DEC. 15, 1975, DOCKET 50-
249, TYPE--DNR, NRC--G.E., AE--SGT & LUNDY

CAUSE - FILLER PLUG LEAK. DURING A REACTOR SHUTDOWN, ALL DRYWELL SHOCK SUPPRESSORS WERE
INSPECTED. ONE BEGON PATENSON UNIT WAS FOUND TO HAVE INSUFFICIENT HYDRAULIC FLUID. OIL HAD
LEAKED THROUGH THE FILLER PLUG OR ZINC FITTING. THE FITTING WAS REPLACED AND OIL LEVEL ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

JESSEN 3 (DNR) + SUPPORT STRUCTURE + PIPES AND PIPE FITTINGS + SURVEILLANCE PROGRAM + CLEAN + CONTAINMENT +
FAILURE, EQUIPMENT + SHOCK ABSORBER

103408
REACTOR PRESSURE VESSEL REMOVAL FINAL REPORT AT PERMI 2
DETROIT Edison COMPANY, MICHIGAN
51 PAGES, LETTER WITH REPORT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, MAY 2, 1975, DOCKET 50-341, TYPE--DNR,
NRC--G.E., AE--SGT & LUNDY

CAUSE - ULTRASONIC INDICATIONS IN WELDS. REMOVAL OF THE PRESSURE VESSEL WAS PERFORMED BY
COMBUSTION ENGINEERING IN THEIR CHATTANOOGA SHOPS. ULTRASONIC INDICATIONS WERE REMOVED FROM THE
NOZZLE-TO-SHELL WELDS UP 2 FEEDWATER NOZZLES, 2 STEAM OUTLET NOZZLES AND 1 RECIRCULATION INLET
NOZZLE. DISTORTION OF THE VESSEL FLANGE OCCURRED DURING THIS REPAIR. IT WAS SUCCESSFULLY
CORRECTED BY INSTALLATION OF THREADED STUD-HOLE BUSHINGS ON A CORRECTED BOLT CIRCLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PERMI 2 (DNR) + CONSTRUCTION + WELDS + NOZZLE + FAILURE, FABRICATION ERROR + FAILURE, PRESSURE VESSEL +
ULTRASONICS + TEST, NONDESTRUCTIVE + MAINTENANCE ATO REPAIR + PRESSURE VESSELS

099604
REACTOR LOW PRESSURE INSTRUMENTS SET IMPROPERLY AT FITZPATRICK
NIAGARA MOHAWK POWER CORPORATION, NEW YORK

099262 REF: F184840
2 PAGES, LETTER WITH AO REPORT 76/35 TO DIRECTORATE OF LICENSING (AECL), JANUARY 6, 1975, SECRET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - PROCEDURAL ERROR. DURING TESTING OF THE REACTOR LIN PRESSURE INSTRUMENTS, A DISCREPANCY WAS FOUND IN THE TEST PROCEDURE. PROCEDURE REQUIRED A SETPOINT EQUAL TO OR LESS THAN 450 PSIG WHILE TECH SPECS REQUIRED EQUAL TO OR GREATER THAN 450 PSIG. THE PROCEDURE WAS CORRECTED AND THE SWITCHES RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PROCEDURES AND MANUALS • FITZPATRICK (DNR) • INSTRUMENT CALIBRATION • INSTRUMENT, SWITCH • REACTOR STARTUP EXPERIENCE • FAILURE, ADMINISTRATIVE CONTROL • SET POINT • SENSORS, PRESSURE • LPCI

099263
NRC VALVE FAILS TO OPEN AT FITZPATRICK
NIAGARA MOHAWK POWER CORPORATION, NEW YORK
2 PAGES, LETTER WITH AO REPORT 76/36 TO DIRECTORATE OF LICENSING (AECL), JANUARY 6, 1975, SECRET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - MOTOR FAILURE. DURING TESTING OF THE AMR SYSTEM WITH THE PLANT IN COLD SHUTDOWN, A DISCHARGE VALVE FAILED TO OPEN. ONE PHASE IN THE MOTOR WAS FOUND OPEN. THE MOTOR WAS REWOUND AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • FITZPATRICK (DNR) • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • SHUTDOWN COOLING SYSTEM • VALVE OPERATORS • VALVES

099264
MPCI SYSTEM VALVE FAILS TO OPEN AT FITZPATRICK
NIAGARA MOHAWK POWER CORPORATION, NEW YORK
2 PAGES, LETTER WITH AO REPORT 76/37 TO DIRECTORATE OF LICENSING (AECL), JANUARY 6, 1975, SECRET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - TURBINE SWITCH SET IMPROPERLY. DURING STARTUP TEST PROGRAM WHILE PREPARING TO WARM UP MPCI STREAM LINE, THE TURBINE STEAM SUPPLY VALVE WOULD NOT OPEN FROM THE CONTROL ROOM. THE REACTOR WAS IN HOT STANDBY. THE TURBINE SWITCH WAS MISADJUSTED DURING INSTALLATION. IT WAS READJUSTED. THE VALVE WAS CYCLED 3 TIMES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (DNR) • INSTRUMENT, SWITCH • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • FAILURE, INSTALLATION ERROR • SET POINT • VALVES • MPCI

099265
TORUS WATER LEVEL EXCEEDS LIMIT AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., NEW YORK
2 PAGES, LETTER WITH AO REPORT 75/1 TO DIRECTORATE OF LICENSING (AECL), JANUARY 9, 1975, SECRET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - PROCEDURAL ERROR. WHILE CONDUCTING A MPCI FLOW TEST, THE PROCEDURE CALLS FOR A 5-MIN. PUSHP OF THE MPCI LINES TO THE TORUS WITH PUMPING TO THE CONDENSATE STORAGE TANK. THIS AMOUNT OF TIME AND FLOW INCREASED THE TORUS LEVEL TO GREATER THAN THE 50 IN. LIMIT. THE PROCEDURE WAS CHANGED TO A 1-MIN. PUSHP TO PREVENT REOCCURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (DNR) • WATER • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL • MPCI • TORUS

099266
TORUS WATER LEVEL INDICATION NOT VALID AT FITZPATRICK
NIAGARA MOHAWK POWER CORPORATION, NEW YORK
2 PAGES, LETTER WITH AO REPORT 75/1 TO DIRECTORATE OF LICENSING (AECL), JANUARY 9, 1975, SECRET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - INSTALLATION ERROR. DURING A ROUTINE STARTUP AT 200 PSIG, THE OPERATOR NOTED ERATIC BEHAVIOR OF THE TORUS WATER LEVEL CONTROL ROOM INDICATOR. THE REACTOR WAS PLACED IN COLD SHUTDOWN. WATER LEVEL IS SENSED THROUGH A PRESSURE DIFFERENCE OF TORUS ATMOSPHERE ABOVE AND BELOW THE WATER LINE. THE SENSING LINE FROM THE ABOVE WATER LEVEL AREA, DUE TO CONSTRUCTION, HAD A U LOOP IN IT WHICH DEVELOPED A MANOMETER EFFECT WITH WATER CONDENSATION. THE LINE WAS STRAIGHTENED AND INSTRUMENT RESPONSE WAS STABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM

000255 CONTINUED
CHANGE 02.000

FITZPATRICK (EMPI) • WATER • REACTOR STARTUP EXPERIENCE • FAILURE, INSTALLATION ERROR • TUBING • REACTOR
SURVEILLANCE • SEALS, LEVEL • TUBING

000256

REACTOR SAFETY SYSTEM IN OPERATIVE POSITION AT FITZPATRICK

VIADANA PLUMBING PLUM CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/2 TO DIRECTORATE OF LICENSING (AC), JANUARY 9, 1975, DOCKET 50-333, TYPE--
NO. 95-6.2.00 AT-STONE & WEBSTER

CAUSE - LEFT IN PLACE BY CONSTRUCTION. DURING A ROUTINE STARTUP, A REACTOR SWITCH ON CAD PANEL
WHICH ALLOWS JAYWELL ATMOSPHERE SAMPLING VALVES TO BE OPENED AFTER OR DURING PRIMARY CONTAINMENT
ISOLATION WAS FOUND LEFT IN THE SAMPLE POSITION. THIS KEY SHOULD HAVE BEEN IN THE CONTROL OF
THE REACTOR SAFETY SUPERVISOR BUT WAS LEFT IN PLACE BY CONSTRUCTION. ALL REACTOR SWITCHES WERE
IMMEDIATELY CHECKED FOR KEYS. THESE WILL BE CONTROLLED BY THE SSS.

AVAILABILITY - RMC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHANGE 02.000

INSTRUMENT, PROTECTIVE • FITZPATRICK (EMPI) • SAMPLING • INSTRUMENT, SWITCH • REACTOR STARTUP EXPERIENCE •
FAILURE, INSTALLATION ERROR • BYPASS

000257

REC PUMP FAILS TO ACHIEVE RATED FLOW AT FITZPATRICK

VIADANA PLUMBING PLUM CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/3 TO DIRECTORATE OF LICENSING (AC), JANUARY 9, 1975, DOCKET 50-333, TYPE--
NO. 95-6.2.00 AT-STONE & WEBSTER

CAUSE - UNKNOWN. DURING A ROUTINE STARTUP, REC PUMP DID NOT ACHIEVE RATED FLOW ON THE INITIAL
TEST WITH REACTOR PRESSURE AT 150 PSIG. THREE RE-TESTS WERE SUCCESSFUL THE FOLLOWING DAY WITH NO
APPARENT CAUSE FOR THE PREVIOUS LOW FLOW. TESTING WILL CONTINUE.

AVAILABILITY - RMC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHANGE 02.000

CONTAINMENT ISOLATION • FITZPATRICK (EMPI) • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • FLOW •
COOLING • PUMPS

000258

SURVEILLANCE PROCEDURE NOT IN AGREEMENT WITH TECH SPECS AT FITZPATRICK

VIADANA PLUMBING PLUM CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/4 TO DIRECTORATE OF LICENSING (AC), JANUARY 9, 1975, DOCKET 50-333, TYPE--
NO. 95-6.2.00 AT-STONE & WEBSTER

CAUSE - TYPOGRAPHICAL ERROR. DURING A REVIEW OF ALL INSTRUMENT SURVEILLANCE PROCEDURES FOR
AGREEMENT WITH TECH SPECS, A LESS-THAN-ON-EQUAL-TO SIGN WAS FOUND TO BE BACKWARDS FOR 13-PS-120 A-
M. THE TYPING ERROR WAS CORRECTED.

AVAILABILITY - RMC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHANGE 02.000

PROCEDURES AND MANUALS • FITZPATRICK (EMPI) • INSTRUMENT, SWITCH • REACTOR STARTUP EXPERIENCE • FAILURE,
ADMINISTRATIVE CONTROL • SET POINT

000259

SETPOINT UNIT IN APP AT FITZPATRICK

VIADANA PLUMBING PLUM CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/5 TO DIRECTORATE OF LICENSING (AC), JANUARY 9, 1975, DOCKET 50-333, TYPE--
NO. 95-6.2.00 AT-STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING TESTING WHILE THE REACTOR WAS IN HOT STANDBY, APPM C ACTUATED AT
2.18 OF SCALE WHICH IS BELOW THE 2.50 SETPOINT. IT WAS IMMEDIATELY RESET TO 2.00. THE CAUSE WAS
INSTRUMENT DRIFT.

AVAILABILITY - RMC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHANGE 02.000

REACTOR SAFETY SYSTEM • FITZPATRICK (EMPI) • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH
• REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • INSTRUMENT, POWER RANGE • SET POINT • DRIFT

000260

SETPOINT UNIT IN PRESSURE SWITCH AT FITZPATRICK

VIADANA PLUMBING PLUM CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/6 TO DIRECTORATE OF LICENSING (AC), JANUARY 9, 1975, DOCKET 50-333, TYPE--
NO. 95-6.2.00 AT-STONE & WEBSTER

099260 CONTINUOUS

CAUSE - INSTRUMENT UNIT. DURING TESTING WITH THE REACTOR IN HOT STANDBY, A HARTON MODEL 7-0815-157A DIFFERENTIAL PRESSURE SWITCH FOR A RECIRCULATION LOOP TRIPPED AT 2.67 PSID. THIS FACES THE 2.6 PSID LIMIT. THE SWITCH WAS IMMEDIATELY RESET TO 1.65 PSID. THE APPARENT CAUSE WAS INSTRUMENT UNIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTION SAFETY SYSTEM • FITZPATRICK (OWN) • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • REACTION STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • SET POINT • CREDIT • SENSORS, PRESSURE

099303

CONVEYOR STORAGE TANK LEVEL SWITCH FAILS AT FITZPATRICK

NIAGARA MOHAWK POWER CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/0 TO AEC DIRECTORATE OF LICENSING (REC), JANUARY 17, 1975, JOCET 50-333, TYPE--OWN, NRC--G.E., AE--STONE & WEBSTER

CAUSE - CORROSION. DURING TESTING WHILE THE REACTOR WAS SHUTDOWN, THE CONTACTS OF A CONVEYOR STORAGE TANK LEVEL SWITCH FAILED TO OPERATE. THE SWITCH OPERATION WAS CORRODED. THESE SWITCH HOUSINGS ARE RATED WATERPROOF. RESISTANT HAS BEEN PLACED INSIDE EACH HOUSING TO PREVENT CORROSION THIS AVOIDING CORROSION. SWITCH CONTACTS WERE CLEANED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (OWN) • WATER • CORROSION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • REACTION STARTUP EXPERIENCE • STORAGE CONTAINER • TEST, SYSTEM OPERABILITY • SENSORS, LEVEL

099307

CONTROL POWER FUSES FOR SHUT DOWN AT FITZPATRICK

NIAGARA MOHAWK POWER CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/0 TO AEC DIRECTORATE OF LICENSING (REC), JANUARY 17, 1975, JOCET 50-333, TYPE--OWN, NRC--G.E., AE--STONE & WEBSTER

CAUSE - RELAY COIL SHORTED. DURING A CHECK WHILE THE REACTOR WAS SHUTDOWN, THE INITIATION LOGIC CONTROL POWER FUSES FOR SHUT DOWN GAS TREATMENT SYSTEM 0 WERE FOUND BLOWN. THE FUSES WERE BL IN WHEN A 12 POLE RELAY COIL SHORTED TO GROUND. A NORMALLY CLOSED CONTACT WHICH SHOULD OPEN & DROP THE COIL VOLTAGE FOR RELAY HOLD-IN STUCK CLOSED. ALL PLANT RELAYS OF THIS DESIGN ARE BEING INSPECTED FOR PROPER ADJUSTMENT FOR RELAY CONTACTS. THE BLOWN FUSES WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT, PROTECTIVE • FITZPATRICK (OWN) • FAILURE, INSTRUMENT • REACTION STARTUP EXPERIENCE • RELAYS

099309

INITIATION LOGIC CONTROL POWER FUSES BLOWN AT FITZPATRICK

NIAGARA MOHAWK POWER CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/0 TO AEC DIRECTORATE OF LICENSING, JANUARY 21, 1975, JOCET 50-333, TYPE--OWN, NRC--G.E., AE--STONE & WEBSTER

CAUSE - RELAY COIL FAILURE. DURING INITIATION CONTROL ROOM PANEL CHECKS, THE INITIATION LOGIC CONTROL POWER FUSES FOR SHUT DOWN GAS TREATMENT SYSTEM 0 WERE FOUND TO BE BLOWN. THE CAUSE WAS A SHORTED COIL ON A 12-POLE INITIATING RELAY. THE COIL FAILED AS A RESULT OF A NORMALLY CLOSED CONTACT STICKING CLOSED. ALL PLANT RELAYS OF THIS DESIGN ARE BEING INSPECTED FOR PROPER ADJUSTMENT OF RELAY CONTACTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL SYSTEM • INSTRUMENT, PROTECTIVE • FITZPATRICK (OWN) • FAILURE, INSTRUMENT • REACTION STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • FAILURE, PERFORMANCE ERROR • SHUTDOWN GAS TREATMENT • RELAYS

099492

APRM INPUT ALARM FAILS AT FITZPATRICK

NIAGARA MOHAWK POWER CORPORATION, NEW YORK

2 PAGES, LETTER WITH NO REPORT 75/0 TO AEC DIRECTORATE OF LICENSING, JANUARY 21, 1975, JOCET 50-333, TYPE--OWN, NRC--G.E., AE--STONE & WEBSTER

CAUSE - PRINTED CIRCUIT BOARD FAILURE. DURING TESTING ON APRM'S, THE APRM ALARM DID NOT FUNCTION WITH LESS THAN 11 INPUTS TO THE APRM 0. THE APRM INPUT COUNTER APPEARED TO FAIL SPONTANEOUSLY. THE PRINTED CIRCUIT BOARD SUSPECT OF SPONTANEOUS BEHAVIOR HAS BEEN REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • FITZPATRICK (OWN) • TEST, SYSTEM OPERABILITY • INSTRUMENT, POWER RANGE • ELECTRONIC FUNCTION UNITS • ANNUNCIATORS

093070
 DETECTED JOSE RATES IN JAWHNS HIGHER THAN EXPECTED AT FITZPATRICK
 VIAGRA NIMAN POWER CORPORATION, NEW YORK
 1 PAGE, LETTER WITH AD REPORT 75/13 TO AEC DIRECTORATE OF LICENSING, JANUARY 29, 1975, DOCKET 50-333, TYPE--DNR, WFO--G.E., AE--
 STONE & WEBSTER

CAUSE - DESIGN ERROR. DURING THE STARTUP TEST PROGRAM, SIGNIFICANTLY HIGH NEUTRON DOSE RATES WERE ENCOUNTERED WITHIN THE REACTOR CORE. JUST BEFORE THE NEUTRONIC SHIELD WALL. THE STARTUP TESTS WERE TERMINATED UNTIL MODIFICATIONS WERE COMPLETED. A REVIEW OF THE REACTOR NEUTRONIC LINE AREA INSIDE THE NEUTRONIC SHIELD AS A RESULT OF THE MODIFICATION SHOWED THAT MAXIMUM PEAK PRESSURE IS EXPECTED TO BE 20.5 PSI AS OPPOSED TO 13 PSI BEFORE THE MODIFICATION TO THE NEUTRONIC SHIELD. THE SHIELD IS DESIGNED FOR 40 PSI.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT • FITZPATRICK (DNR) • MODIFICATION • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN ERROR • SHIELDING • NEUTRON • RADIATION EXPOSURE

093093
 LOSS OF SET SCREENS FOUND IN A VIBRATION AT FITZPATRICK
 VIAGRA NIMAN POWER CORPORATION, NEW YORK
 1 PAGE, LETTER WITH AD REPORT 75/13 TO AEC DIRECTORATE OF LICENSING, JANUARY 29, 1975, DOCKET 50-333, TYPE--DNR, WFO--G.E., AE--
 STONE & WEBSTER

CAUSE - INSTALLATION ERROR. LOSS OF SET SCREENS IN A VIBRATION WAS REPORTED EARLIER. A DETAILED CHECK OF THE SET SCREENS REVEALED THAT 40 REQUIRED ATTENTION. TIGHTENING OF SET SCREENS AND APPLICATION OF LOCATING TO LOCATING SCREENS IS FELT TO PROVIDE PROTECTION AGAINST RECURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • FITZPATRICK (DNR) • FASTEN • REACTOR STARTUP EXPERIENCE • FAILURE, INSTALLATION ERROR • VIBRATION • FAILURE, COMMON MODE

093094
 NOO BECA MONITOR FALLS AT FITZPATRICK
 VIAGRA NIMAN POWER CORPORATION, NEW YORK
 2 PAGES, LETTER WITH AD REPORT 75/13 TO AEC DIRECTORATE OF LICENSING, JANUARY 29, 1975, DOCKET 50-333, TYPE--DNR, WFO--G.E., AE--STONE & WEBSTER

CAUSE - SHORT IN INSTRUMENT WIRING. DURING TESTING WITH THE REACTOR IN COLD SHUTDOWN, 1 OF THE 2 NOO BECA MONITORS DID NOT GIVE A NOO SIGNAL WHEN SWITCHED OUT OF THE OPERATE POSITION. A SHORT WAS FOUND IN THE INSTRUMENT WIRING WHICH NEGATED THE TRIP. AFTER THE SHORT WAS REPAIRED, THE NOO BECA MONITOR TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (DNR) • CONTROL • FAILURE, INSTRUMENT • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • INSTRUMENTS, MISC. • CONTROL, NOO DRIVE MECHANISMS

093095
 CRACK IN LPCI DRAIN LINE AT FITZPATRICK
 VIAGRA NIMAN POWER CORPORATION, NEW YORK
 2 PAGES, LETTER WITH AD REPORT 75/13 TO AEC DIRECTORATE OF LICENSING, JANUARY 29, 1975, DOCKET 50-333, TYPE--DNR, WFO--G.E., AE--STONE & WEBSTER

CAUSE - VIBRATION. A CRACK WAS FOUND IN THE HEAT AFFECTED ZONE FOR THE WELD JOINING THE STUD PIPE TO THE FIRST DRAIN VALVE IN A LPCI SYSTEM. THE CRACK WAS 7.0 INCHES LONG. THE LENGTH OF PIPE BETWEEN THE LPCI LINE AND THE FIRST DRAIN VALVE WAS SHORTENED TO MINIMIZE VIBRATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, PIPE • FITZPATRICK (DNR) • WELDS • REACTOR STARTUP EXPERIENCE • FAILURE, DESIGN ERROR • VIBRATION • LEAK • PIPES AND PIPE FITTINGS • LPCI

093096
 SET POINT DRIFT IN APRM AT FITZPATRICK
 VIAGRA NIMAN POWER CORPORATION, NEW YORK
 2 PAGES, LETTER WITH AD REPORT 75/13 TO AEC DIRECTORATE OF LICENSING, JANUARY 29, 1975, DOCKET 50-333, TYPE--DNR, WFO--G.E., AE--STONE & WEBSTER

CAUSE - UNKNOWN. DURING TESTING WITH THE REACTOR AT COLD SHUTDOWN, THE DOWNSCALE SET POINT OF A APRM UNIT WAS FOUND TO BE 20 POWER RATHER THAN THE REQUIRED 2.56 POWER. THE CAUSE IS THOUGHT TO BE INSTRUMENT DRIFT. THE INVESTIGATION OF THE APRM SYSTEM IS CONTINUING.

003546 CONTINUED
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTION SAFETY SYSTEM + FITZPATRICK (ENR) + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + REACTOR STARTUP EXPERIENCE + TEST, SYSTEM OPERABILITY + INSTRUMENT, POWER RANGE + SET POINT + ORIF

003548
 APRM TRIP ALARM MALFUNCTIONS AT FITZPATRICK
 NIAGARA MOHAWK POWER CORPORATION, NEW YORK
 2 PAGES, LETTER WITH AD REPORT 75/12 TO NRC DIRECTORATE OF LICENSING, JANUARY 29, 1975, JACKET 50-333, TYPE--
 BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - UNKNOWN. DURING TESTING OF THE APRM WITH THE UNIT IN COLD SHUTDOWN, THE TRIP ALARM DID NOT TRIP WITH LESS THAN 11 LPM INPUTS FOR 2 TESTS. THEY WORKED PROPERLY THICE, AND THEN TOOK 5 TO 7 SECONDS TO RESPOND ON THE 4TH TRY. THE CAUSE OF THE MALFUNCTION IS BEING INVESTIGATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (ENR) + REACTOR STARTUP EXPERIENCE + TEST, SYSTEM OPERABILITY + INSTRUMENT, POWER RANGE + ANNUNCIATIONS + INSTRUMENTS, MISC.

100238
 POWER SUPPLY TO RCM SEQUENCE CONTROL SYSTEM FAILS AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD REPORT 75/17 TO NRC DIRECTORATE OF LICENSING, FEBRUARY 23, 1975, JACKET 50-333, TYPE--
 BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - WIRING ERROR. THE 2P VDC POWER SUPPLY WAS SHORTED WHEN 120 VAC WAS IMPRESSED UPON THE CIRCUIT DUE TO A WIRING ERROR. THIS WIRING ERROR INVOLVED THE 208 POWER BYPASS FOR RSCS. THE INITIATING EVENT WAS THE SIGNAL FOR BYPASSING THE RSCS WHEN POWER IS GREATER THAN 208. THE WIRING ERROR WAS CORRECTED. SOME TRANSISTORS IN THE RSCS LOGIC UNITS WERE ALSO FOUND DAMAGED. THE LOGIC UNITS WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL SYSTEM + FITZPATRICK (ENR) + ELECTRIC POWER + INSTRUMENT, CONTROL + REACTOR CONTROL + REACTOR STARTUP EXPERIENCE + FAILURE, INSTALLATION ERROR + CABLES AND CONNECTORS + CONTROL ROD DRIVE MECHANISMS

100239
 RCM BLOCK FUNCTION FAILS TO PROVIDE A BLOCK FUNCTION AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD REPORT 75/18 TO NRC DIRECTORATE OF LICENSING, FEBRUARY 23, 1975, JACKET 50-333, TYPE--
 BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - BURNED CONTACT. DURING RCM TESTING, RCM B FAILED TO PROVIDE A ROD BLOCK FUNCTION ON A 41-MI SIGNAL DUE TO A BURNED CONTACT IN THE 400-SELECT ON-OFF POWER SUPPLY. THE CONTACT WAS JUMPED. THE SWITCH CONTACT WILL BE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (ENR) + INSTRUMENT, CONTROL + REACTOR CONTROL + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + REACTOR STARTUP EXPERIENCE + TEST, SYSTEM OPERABILITY + CONTROL ROD DRIVE MECHANISMS

100242
 SECONDARY CONTAINMENT INTEGRITY VIOLATED AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD REPORT 75/20 TO NRC DIRECTORATE OF LICENSING, MARCH 3, 1975, JACKET 50-333, TYPE--BWR,
 NRC--G.E., AE--STONE & WEBSTER

CAUSE - PROCEDURAL DEFICIENCY. THE BIRD SCREENS ON THE REACTOR BUILDING VENT INLET WERE FOUND TO BE DAMAGED. A SHUTDOWN TO LESS THAN 212 P WAS INITIATED AS THE REPAIR WOULD INVOLVE VIOLATING SECONDARY CONTAINMENT INTEGRITY. HOWEVER, THE JOB WAS STARTED PRIOR TO REACHING THE CONDITIONS WHERE SECONDARY CONTAINMENT WAS NOT REQUIRED. THE JOB FOREMAN WAS REPRIMANDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MAINTENANCE AND REPAIR + FITZPATRICK (ENR) + CONTAINMENT INTEGRITY + REACTOR STARTUP EXPERIENCE + FAILURE, ADMINISTRATIVE CONTROL

100243
 SETPOINT DRIFT IN APRM UPSCALE ALARM AND TRIP AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.

100303 MONTAGUE
2 PAGES, LETTER WITH AD REPORT 75/21 TO NRC DIRECTORATE OF LICENSING, MARCH 3, 1975, DOCKET 50-333, TYPE--BWR,
NRC--BWR, AE--STONE & WEBSTER

CAUSE - PROCEDURAL ERROR. DURING TESTING, THE OPERATOR NOTED SETPOINTS ON THE APRM UPSCALE ALARM AND TRIP HAD DRIFTED. THE PROCEDURE WAS FOUND TO BE IN ACCORD WITH THE TECH SPEC. THE
PROCEDURES WERE CORRECTED AND THE SETPOINTS ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PROCEDURES AND MANUALS • FITZPATRICK (BWR) • INSTRUMENT CALIBRATION • INSTRUMENT, SWITCH • REACTOR STARTUP
EXPERIENCE • TEST, SYSTEM OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL • INSTRUMENT, POWER RANGE • SET POINT
• INSTRUMENT, ALARM • DRIFT

100304
MALFUNCTION OF ROD SEQUENCE CONTROL SYSTEM AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/22 TO NRC DIRECTORATE OF LICENSING, MARCH 3, 1975, DOCKET 50-333, TYPE--BWR,
NRC--BWR, AE--STONE & WEBSTER

CAUSE - PRINTED CIRCUIT BOARD FAILS. DURING TESTING OF THE RSCS WITH A ROD WITHDRAWN THE MURCH,
RSCS IN 3 OTHER UNITS COULD ALSO BE WITHDRAWN. THE PRIME-SUPPLY PRINTED CIRCUIT BOARD FOR THE
WITHDRAWN UNIT WAS BAD. THE DEFECTIVE BOARD WAS REPLACED PRIOR TO REACTOR STARTUP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, COMPONENT • SOLID STATE DEVICE • FITZPATRICK (BWR) • INSTRUMENT, CONTROL • REACTOR STARTUP EXPERIENCE
• TEST, SYSTEM OPERABILITY • CONTROL ROD DRIVE MECHANISMS

100305
IRM READS LOW AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/23 TO NRC DIRECTORATE OF LICENSING, MARCH 3, 1975, DOCKET 50-333, TYPE--BWR,
NRC--BWR, AE--STONE & WEBSTER

CAUSE - TEST INPUT SIGNAL ERROR. DURING TESTING, IRM D READ LOW WHEN THE TEST SWITCH WAS PLACED
AT 125. THE FAILURE WAS FOUND TO BE THE TEST INPUT SIGNAL AND NOT IN THE IRM. THE TEST CIRCUIT
WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT • FITZPATRICK (BWR) • TESTING • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY •
INSTRUMENT, INTERMEDIATE RANGE

100306
IRM LPLI INJECTION VALVE FAILS TO OPEN AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/14 TO NRC DIRECTORATE OF LICENSING, MARCH 3, 1975, DOCKET 50-333, TYPE--BWR,
NRC--BWR, AE--STONE & WEBSTER

CAUSE - PINCHED WIRE. WHILE PLACING RM LPLI A IN SHUTDOWN CYCLING MODE DURING A ROUTINE
SHUTDOWN, A VALVE FAILED AND INDICATOR LIGHTS WERE LOST. A CONTROL FUSE IN THE BREAKER WAS
BLOWN. THIS WAS CAUSED BY A PINCHED WIRE IN THE VALVE LIMITSWITCH CONNECTOR BOX. THE PINCHED
WIRE WAS CORRECTED AND THE FUSE REPLACED. THE VALVE WAS CYCLED 4 TIMES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT • FITZPATRICK (BWR) • REACTOR STARTUP EXPERIENCE • FAILURE, INSTALLATION ERROR • SHUTDOWN
CYCLING SYSTEM • CABLES AND CONNECTORS • VALVES • LPCI

100415
ALL DRYWELL HIGH PRESSURE SWITCHES FOUND ISOLATED AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/24 TO NRC DIRECTORATE OF LICENSING, MARCH 5, 1975, DOCKET 50-333, TYPE--BWR,
NRC--BWR, AE--STONE & WEBSTER

CAUSE - PROCEDURAL ERROR. DURING ROUTINE TESTING WHILE OPERATING AT STEADY STATE POWER, A
TECHNICIAN DISCOVERED THAT THE RACK ISOLATION VALVES FOR DRYWELL HIGH PRESSURE IN BOTH SAFETY
SYSTEMS WERE CLOSED. THE ASSOCIATED ROOT VALVES AT THE DRYWELL PENETRATIONS WERE ALSO CLOSED.
THESE VALVES ARE NOT ON A VALVE LINE-UP SHEET. THIS ISOLATION IS ASSUMED TO HAVE OCCURRED IN AUG.
1974 WHEN THESE VALVES WERE SCHEDULED TO BE OPENED FOLLOWING COMPLETION OF THE ILRT. THE
ISOLATION VALVE AND ROOT VALVES WERE OPENED IMMEDIATELY. CHECK-OFF LISTS HAVE BEEN MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

100615 CONTINUOUS
CONTAINMENT ISOLATION • REACTOR SAFETY SYSTEM • FITZPATRICK (DNR) • INSTRUMENT, SWITCH • REACTOR
STARTUP EXPERIENCE • FAILURE, ADMINISTRATIVE CONTROL • FAILURE, COMMON MODE • SENSORS, PRESSURE

100723
MAIN STEAM ISOLATION VALVE LIMIT SWITCH MALFUNCTION AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
3 PAGES, LETTER WITH AD REPORT 75/25 TO NRC DIRECTORATE OF LICENSING, MARCH 30, 1975, JACKET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - SWITCH NOT IN ADJUSTMENT. DURING PARTIAL CLOSURE TESTING OF THE SYSTEMS WHILE OPERATING
AT 250 PPM, A LIMIT SWITCH FAILED TO OPERATE. ALL LIMIT SWITCHES WERE CHECKED FOR ALIGNMENT
AND PROPER OPERATION. THIS TYPE OF ADJUSTMENT IS NOT UNCOMMON DURING THE PLANT STARTUP PERIOD.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CONTAINMENT ISOLATION • FITZPATRICK (DNR) • INSTRUMENT, SWITCH • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM
OPERABILITY • FAILURE, MAINTENANCE ERROR • MAIN COOLING SYSTEM • INSTRUMENT, POSITION • VALVES

100669
SET POINT DRIFT IN APRN AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/26 TO NRC DIRECTORATE OF LICENSING, MARCH 31, 1975, JACKET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - CALIBRATION DIFFICULTIES. WHILE OPERATING AT 250 PPM, TESTS FOUND AN APRN DOWN SEAL
TRIP SET AT 2.00 INSTEAD OF THE 2.50 ON THE METER. NO ALLOWANCE IS GIVEN FOR ERROR IN READING
THE METER. METER ACCURACY IS 1.5%. IT IS DIFFICULT TO READ TO 0.5% CONSISTENTLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FITZPATRICK (DNR) • INSTRUMENT CALIBRATION • INSTRUMENT, SWITCH • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM
OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL • INSTRUMENT, POWER RANGE • SET POINT • DRIFT

100870
EMERGENCY BUS UNDERVOLTAGE RELAY FAILS TO OPERATE AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/27 TO NRC DIRECTORATE OF LICENSING, MARCH 31, 1975, JACKET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - RELAY FAILURE. DURING A LOSS-OF-OFF-SITE POWER TEST WITH THE REACTOR AT 300 PPM, A
UNDERVOLTAGE ON AN EMERGENCY BUS DID NOT OPERATE THE UNDERVOLTAGE RELAY. ISOLATION OF THE
EMERGENCY BUS AND AUTOSTART OF THE EMERGENCY DIESEL GENERATOR DID NOT OCCUR. AFTER THE RELAY WAS
REPAIRED AND RETURNED TO SERVICE, THE TEST WAS ACHIEVED SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

EMERGENCY POWER, ELECTRIC • FAILURE, EQUIPMENT • ACCIDENT, LOSS OF POWER • FITZPATRICK (DNR) • REACTOR STARTUP
EXPERIENCE • TEST, SYSTEM OPERABILITY • OFF SITE • DELAYS

100906
RSC SYSTEM FAILS TO ISOLATE AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/28 TO NRC DIRECTORATE OF LICENSING, MARCH 30, 1975, JACKET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - RELAY MALFUNCTION. DURING TESTING OF RSC SYSTEM LEAK DETECTION SYSTEM, A TEMPERATURE
SWITCH WAS PLACED IN THE ALARM CONDITION. THIS ACTIVATED A PRIMARY RELAY FOR SYSTEM ISOLATION
BUT IT FAILED TO CLOSE IN. FAILURE WAS DUE TO THE RELAY COVER BEING MISALIGNED. THE COVER WAS
CORRECTLY ALIGNED. RETESTING FOUND NO FURTHER PROBLEMS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CONTAINMENT ISOLATION • FITZPATRICK (DNR) • FAILURE, INSTRUMENT • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM
OPERABILITY • FAILURE, INSTALLATION ERROR • COOLING • RELAYS

100907
TWO EMERGENCY DIESEL GENERATORS FAIL TO COMPLETE START SEQUENCE AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES, LETTER WITH AD REPORT 75/29 TO NRC DIRECTORATE OF LICENSING, MARCH 30, 1975, JACKET 50-333, TYPE--
DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - RELAY MALFUNCTION. DURING AN OPERABILITY CHECK OF EMERGENCY DIESEL GENERATORS A AND C,

100907 CONTINUUM

THEY FAILED TO FORCE PARALLEL DUE TO PROBLEMS IN THE STARTING AIR MOTOR SEQUENCING FOR A EDC. PROBLEMS WITH THE SPEED RELAY CAUSED THE PRIMARY AND SECONDARY AIR START MOTORS TO TRY TO ENGAGE AS THE DIESEL WAS ACCELERATING TO RATED SPEED, DAMAGING THE AIR MOTOR PINION GEARS. A DROPPING RESISTOR IN THE CIRCUIT TO THE SPEED RELAY WAS REMOVED ALLOWING OPERATION OF THE RELAY FURTHER FROM THE LOW VOLTAGE CUT OFF POINT. AIR STARTING MOTORS WERE REPLACED AND THE RING GEAR REFINISHED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

EMERGENCY POWER, ELECTRIC + FAILURE, EQUIPMENT + FITZPATRICK (BWR) + REACTOR STARTUP EXPERIENCE + TEST, SYSTEM OPERABILITY + FAILURE, DESIGN ERROR + ENGINES, INTERNAL COMBUSTION + GENERATOR, DIESEL + RELAYS

101076

DIESEL GENERATOR FIRE AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., NEW YORK

2 PAGES, LETTER WITH AD REPORT 75/30 TO NRC DIRECTORATE OF LICENSING, MARCH 26, 1975, DOCKET 50-333, TYPE--BWR, MFG--GE, AT--STONE & WEBSTER

CAUSE - UNKNOWN. OPERATOR NOTICED FREQUENCY OSCILLATION ON B AND D EMERGENCY DIESEL GENERATORS WHILE THEY WERE OPERATING. LOW VOLTAGES WERE REPORTED AND THEN D DIESEL TRIPPED AUTOMATICALLY. FLAMES AND SMOKE WERE OBSERVED AROUND THE EXHAUST MANIFOLD. THE DIESEL APPEARS TO HAVE OVERHEATED CAUSING BACK PRESSURE IN THE EXHAUST MANIFOLD WITH THE SUBSEQUENT EXPLOSION IN THE CHAMBER. THE AIR FILTER HOOD WENT OPEN AND THE GASKETS BURNED. THE REACTOR WAS SHUT DOWN. THE DIESEL VENDOR WILL MAKE A COMPLETE INSPECTION OF THE UNIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

EMERGENCY POWER, ELECTRIC + FAILURE, EQUIPMENT + EXPLOSION + FIRE + FITZPATRICK (BWR) + REACTOR STARTUP EXPERIENCE + REACTOR SHUTDOWN + ENGINES, INTERNAL COMBUSTION + GENERATOR, DIESEL

101079

CONTAINMENT SPRAY LINE PIPE SNUBBERS DAMAGED AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., NEW YORK

2 PAGES, LETTER WITH AD REPORT 75/31 TO NRC DIRECTORATE OF LICENSING, MARCH 26, 1975, DOCKET 50-333, TYPE--BWR, MFG--GE, AT--STONE & WEBSTER

CAUSE - WATER HAMMER. DURING AN INSPECTION, DAMAGED PIPE RESTRAINTS AND BROKEN SNUBBERS WERE FOUND ON THE CONTAINMENT SPRAY LINE. PROBABLE CAUSE WAS DUE TO OPERATING THE RHR SYSTEM WITH THE DISCHARGE NOT FULL OF WATER. WHEN OPERATING ONLY ONE SIDE OF THE RHR IN SHUTDOWN COOLING MODE, THE KEEP FULL SYSTEM WAS NOT AVAILABLE TO THE OTHER SIDE. THE KEEP FULL SYSTEM WILL BE MODIFIED TO PREVENT RECURRENCE. THE DAMAGED COMPONENTS WERE REPLACED OR REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT SPRAY + HYDRAULIC EFFECT + FITZPATRICK (BWR) + MODIFICATION + REACTOR STARTUP EXPERIENCE + SHOCK + BURST + FAILURE, DESIGN ERROR + DAMAGE + SUPPORT STRUCTURE + PIPES AND PIPE FITTINGS

102151

INCORRECT FUSES REMOVED FROM DIESEL GENERATOR AT FITZPATRICK

NIAGARA MOHAWK POWER CORP.

2 PAGES, LETTER WITH AD REPORT 75/32 TO NRC DIRECTOR OF LICENSING, APRIL 8, 1975, DOCKET 50-333, TYPE--BWR, MFG--GE, AT--STONE & WEBSTER

CAUSE - POOR LABELLING. AN OPERATOR WAS DISPATCHED TO REMOVE THE CONTROL POWER FUSES FOR A EMERGENCY DIESEL GENERATOR FOR MAINTENANCE WORK IN THE EDC. DUE TO POOR LABELLING, THE POTENTIAL FUSES WERE INADVERTENTLY REMOVED. THIS SIMULATED EMERGENCY BUS UNDERVOLTAGE. THE UNDERVOLTAGE RELAYS OPERATED MECHANICALLY, BUT DID NOT MAKE ELECTRICAL CONTACT UNTIL SOME TIME LATER (ABOUT 5 MINUTES). A MORE RELIABLE UNDERVOLTAGE SCHEME IS BEING PREPARED. BETTER LABELLING OF FUSES WILL BE PROVIDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

EMERGENCY POWER, ELECTRIC + INSTRUMENT, PROTECTIVE + FITZPATRICK (BWR) + FAILURE, INSTRUMENT + FAILURE, DESIGN ERROR + IDENTIFICATION + ENGINES, INTERNAL COMBUSTION + GENERATOR, DIESEL + RELAYS

102172

SUPPRESSION POOL COOLING ISOLATION VALVE FAILS TO OPEN AT FITZPATRICK

NIAGARA MOHAWK POWER CORP.

2 PAGES, 1 LETTER WITH AD REPORT 75/33 TO NRC DIRECTOR OF LICENSING, APRIL 8, 1975, DOCKET 50-333, TYPE--BWR, MFG--GE, AT--STONE & WEBSTER

CAUSE - MISADJUSTED TONER SWITCH. DURING TESTING WITH THE UNIT IN COLD SHUTDOWN, A SUPPRESSION POOL COOLING ISOLATION VALVE FAILED TO OPEN FROM THE CONTROL ROOM. THE VALVE WAS OPERATED BY HAND AND THE TONER LIMIT SWITCHES WERE READJUSTED TO PROVIDE AN OPTIMUM SETTING. WITH THE NUMEROUS

102172 CONTINUED

INTERNAL CYCLING. DURING STARTUP TESTING, ADJUSTMENTS ARE NOT UNCOMMON.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (OWN) • WATER • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • COOLING • VALVE OPERATIONS • VALVES • TCAUS

102167

SETPOINT DRIFT IN PRESSURE SWITCH AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, 1 LETTER WITH ADM 75/34 TO NRC DIRECTORATE OF LICENSING, APRIL 16, 1975, DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING TESTING, A MAIN STEAM LINE LOW PRESSURE PRESSURE SWITCH HAD A SETPOINT OF 830 PSIG WHICH IS BELOW THE 850 PSIG LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE BARRISDALE SWITCH WAS RECALIBRATED. THE REACTOR WAS IN COLD SHUTDOWN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR SAFETY SYSTEM • FITZPATRICK (OWN) • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • MAIN COOLING SYSTEM • SET POINT • DRIFT • SEVENS, PRESSURE

102545

UNDERVOLTAGE CIRCUIT FOR DIESEL GENERATORS FAILS AT FITZPATRICK
 NIAGARA MOHAWK POWER CORPORATION, N.Y.

2 PAGES, 1 LETTER WITH ADM 75-35 TO NRC DIRECTORATE OF LICENSING, APRIL 21, 1975, DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - DESIGN DEFICIENCY. DURING TESTING OF EMERGENCY DIESEL GENERATORS A AND C, THE EMERGENCY BUS WAS DE-ENERGIZED. THE BUS REMAINED DE-ENERGIZED WITHOUT THE DIESELS STARTING DUE TO THE RELAY USED FOR UNDERVOLTAGE SENSING MECHANICALLY HANGING UP. THE PLANT IS IN COLD SHUTDOWN FOR EXTENSIVE LUG REPAIR AND TESTING. THE PRESENT UNDERVOLTAGE RELAY SYSTEM WILL BE MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (OWN) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • INSTRUMENT, PROTECTIVE • CONTROL SYSTEM • RELAYS • FAILURE, DESIGN ERROR • TEST, SYSTEM OPERABILITY • REACTOR STARTUP EXPERIENCE • EMERGENCY POWER, ELECTRIC

102892

EMERGENCY VENTILATION FAN FAILS TO START AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, 1 LETTER WITH ADM 75-36 TO NRC DIR. OF LICENSING, MAY 1, 1975, DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - LOOSE CONNECTION IN BREAKER. DURING FILTER TESTING OF THE EMERGENCY VENTILATION SYSTEM FOR THE CONTROL ROOM, 1 OF THE 2 FANS FAILED TO START DUE TO A LOOSE CONNECTION IN THE FAN BREAKER. THE LOOSE CONNECTION WAS REPAIRED AND THE FAN WAS STARTED. THE REACTOR WAS IN COLD SHUTDOWN CONDITION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (OWN) • VENTILATION SYSTEM • CONTROL PANEL/ROOM • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • BREAKER • CABLES AND CONNECTORS • FAILURE, INSTALLATION ERROR • REACTOR STARTUP EXPERIENCE • BLOWERS

103130

MSIV LIMIT SWITCH FAILS TO OPERATE AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, 1 LETTER WITH ADM 75-42 TO NRC DIRECTORATE OF LICENSING, MAY 20, 1975, DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - UNKNOWN. DURING TESTING, THE 908 VALVE OPEN LIMIT SWITCH FOR A MSIV FAILED TO OPERATE. THE IMPERATIVE TRIP SYSTEM WAS PLACED IN THE TRIPPED CONDITION. THESE SWITCHES ARE BEING REVIEWED TO IMPROVE THEIR RELIABILITY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (OWN) • INSTRUMENT, SWITCH • REACTOR SAFETY SYSTEM • INSTRUMENT, POSITION • TEST, SYSTEM OPERABILITY • REACTOR STARTUP EXPERIENCE • FAILURE, INSTRUMENT

103193

103193 CONTINUED
 SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD 75-63 TO NRC DIRECTORATE OF LICENSING, MAY 29, 1975, DOCKET 50-333, TYPE--BWR, NRC--
 G.E., AT--STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING A TEST OF THE REACTOR RECIRC PUMP DIFFERENTIAL PRESSURE SWITCHES FOR LPCI LOOP SELECTION, ONE SWITCH TRIPPED AT 2.3 PSID WHICH EXCEEDS THE 2.0 PSID LIMIT. THE CAUSE WAS INSTRUMENT DRIFT. IT WAS RECALIBRATED TO 1.8 PSID.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • LPCI • REACTOR STARTUP EXPERIENCE • SENSORS, PRESSURE

103194
 STANBY TRANSFER PUMP FOR DIESEL FAILS TO START AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD 75-64 TO NRC DIRECTORATE OF LICENSING, MAY 29, 1975, DOCKET 50-333, TYPE--BWR, NRC--
 G.E., AT--STONE & WEBSTER

CAUSE - LEVEL SWITCH OUT OF ADJUSTMENT. DURING A TEST WITH THE REACTOR OPERATING AT STEADY POWER, THE STANBY TRANSFER PUMP FOR DIESEL D WOULD NOT START IN AUTO EVEN THOUGH THE DAY TANK WAS EMPTY. THE DAYWAY PUMP DID START. THE TANK LEVEL SWITCHES WERE INSPECTED AND READJUSTED. THESE GEN LEVEL SWITCHES ARE BEING EVALUATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • INSTRUMENT, SWITCH • SENSORS, LEVEL • PUEL, FOSSIL • GENERATOR, DIESEL • ENGINES, INTERNAL CLAUDSIUM • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • FAILURE, MAINTENANCE ERROR • REACTOR STARTUP EXPERIENCE • SET POINT • PUMPS

103195
 DIESEL FUEL IN STORAGE TANK LESS THAN REQUIRED VOLUME AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD 75-65 TO NRC DIRECTORATE OF LICENSING, MAY 29, 1975, DOCKET 50-333, TYPE--BWR, NRC--
 G.E., AT--STONE & WEBSTER

CAUSE - NOT STATED. DURING A TEST WHILE THE REACTOR WAS OPERATING, THE DIESEL STORAGE TANK FOR DIESEL D AND D WAS FOUND TO CONTAIN 63,100 GAL. TECH SPECS REQUIRE 64,000 GAL. PROCEDURES WERE MODIFIED TO REQUIRE ACTUAL MEASUREMENT OF TANK LEVEL WHENEVER THE DIESELS ARE RUNNING OR HAVE BEEN RUN. LEVEL WAS IMMEDIATELY BROUGHT TO THE LIMIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • SYSTEM CAPACITY • STORAGE CONTAINER • PUEL, FOSSIL • GENERATOR, DIESEL • ENGINES, INTERNAL CLAUDSIUM • TEST, SYSTEM OPERABILITY • REACTOR STARTUP EXPERIENCE • FAILURE, ADMINISTRATIVE CONTROL

103196
 MPC1 TURBINE TRIPS AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD 75-66 TO NRC DIRECTORATE OF LICENSING, MAY 29, 1975, DOCKET 50-333, TYPE--BWR, NRC--
 G.E., AT--STONE & WEBSTER

CAUSE - LOW OIL PRESSURE. THE MPC1 TURBINE TRIPPED ON LOW OIL PRESSURE WHILE CONDUCTING REACTOR STARTUP TESTING. THE CAUSE IS BEING INVESTIGATED. AFTER THE MPC1 TURBINE AUXILIARY OIL PUMP WAS RUN FOR 10 MINUTES, THE TEST WAS REPEATED SUCCESSFULLY. IT APPEARS THAT OIL PRESSURE AND LEVEL MAY BE MAINTAINED SUFFICIENTLY PREVENTING THE MAIN TURBINE OIL PUMP FROM STARTING. LEAKS WERE FOUND IN THE OIL SYSTEM AND WILL BE REPAIRED. THE AUXILIARY PUMP WILL BE OPERATED INTERMITTENTLY TO KEEP THE OIL LEVEL UP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • TURBINE • MPC1 • LUBRICATION • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • REACTOR STARTUP EXPERIENCE • LEAK

103197
 ACIC TURBINE TRIPS AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AD 75-67 TO NRC DIRECTORATE OF LICENSING, MAY 29, 1975, DOCKET 50-333, TYPE--BWR, NRC--
 G.E., AT--STONE & WEBSTER

CAUSE - TRIP LEVER SET IMPROPERLY. DURING TESTING OF THE ACIC SYSTEM WHILE THE REACTOR WAS OPERATING, THE TURBINE TRIPPED OFF. THE TRIP APPEARS TO HAVE BEEN CAUSED BY ONLY PARTIAL ENGAGEMENT OF THE LOCAL TRIP LEVER WITH THE TRIP PIN. THE SUDDEN ADMISSION OF STEAM CAUSED

103197 CONTINUING

THE TRIP LEVEL TO DISENGAGE. THE LEVEL WILL BE PERIODICALLY CHECKED TO ASSURE FULL ENGAGEMENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (NMR) • TUNING • CONTAINMENT ISOLATION • COOLING • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • REACTOR STARTUP EXPERIENCE

103198

CONTAINMENT SPRAY PIPE RESTRAINTS AND SHROUDS DAMAGED AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH ADM 75-54 TO DIRECTORATE OF LICENSING, MAY 29, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - WATER HAMMER. INVESTIGATION OF REPORTED PIPE MOVEMENT OF CONTAINMENT SPRAY HEADS DURING A LOAD SHUTDOWN PERIOD REVEALED DAMAGED PIPE SUPPORTS, DAMAGED SEISMIC RESTRAINTS, AND A BROKEN HYDRAULIC SHROUD. DAMAGE RESULTED FROM A WATER HAMMER. REPAIRS WILL BE MADE. IMMEDIATE TESTING AND STRESS ANALYSIS WILL BE PERFORMED ON THE AFFECTED PIPE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (NMR) • SUPPORT STRUCTURE • SHOCK ABSORBER • PIPES AND PIPE FITTINGS • CONTAINMENT SPRAY • HYDRAULIC EFFECT • DAMAGE • FAILURE, DESIGN ERROR • REACTOR STARTUP EXPERIENCE

103562

LEAKY SWITCHES ON MSIV FAIL AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH ADM 75-54 TO NRC DIR. OF LICENSING, JUNE 5, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - NOT STATED. DURING AN INSPECTION, 2 MAIN STEAM ISOLATION VALVE REACTOR PROTECTION RELAYS WERE FOUND ENERGIZED INDICATING THAT THE VALVE IS OPEN WHILE THE ASSOCIATED VALVE WAS CLOSED. THE SWITCHES WHICH OPERATE THESE RELAYS ARE UNDER REVIEW TO IMPROVE THEIR OPERABILITY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (NMR) • INSTRUMENT, SWITCH • INSTRUMENT, POSITION • PRELAYS • REACTOR SAFETY SYSTEM • FAILURE, INSTRUMENT • REACTOR STARTUP EXPERIENCE • FITZPATRICK (NMR) • INSTRUMENT, SWITCH • INSTRUMENT, POSITION • PRELAYS • REACTOR SAFETY SYSTEM • FAILURE, INSTRUMENT • REACTOR STARTUP EXPERIENCE

103647

RAD WASTE LIQUID EFFLUENT MONITOR MALFUNCTIONS AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH ADM 75-54 TO NRC DIRECTORATE OF LICENSING, JUNE 12, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - LOW PLUGGED MONITOR. WHILE DISCHARGING RAD WASTE LIQUID EFFLUENT, IT WAS NOTED THAT THE FLOW METER ON THE MONITOR WAS INDICATING ZERO FLOW WITH NO LOW FLOW ALARM. RESIN BEADS AND OTHER SOLID MATERIALS CAUSED THE FLOW METER TO STICK IN THE ZERO FLOW POSITION AND THE FLOW SWITCH TO STICK IN THE NORMAL FLOW POSITION. BOTH WERE CLEANED AND RETESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (NMR) • TRANSMITTERS • INSTRUMENT, SWITCH • SENSORS, FLOW • WASTE DISPOSAL • WASTE HANDLING • FAILURE, INSTRUMENT • CAND • RESIN

103648

REACTOR WATER CONDUCTIVITY EXCEEDS LIMITS AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH ADM 75-54 TO NRC DIRECTORATE OF LICENSING, JUNE 12, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - OPERATOR ERROR. WHILE OPERATING AT 42% POWER AND INCREASING POWER FOR FUEL PRE-CONDITIONING PROGRAM, THE REACTOR WATER CONDUCTIVITY WAS FOUND TO HAVE INCREASED ABOVE THE 10 UMHO/CM LIMIT. THE OPERATOR HAD PLACED CONDENSATE DEMINERALIZER C INTO SERVICE WITHOUT PRE-RINSE. IT CONTAMINATED THE REACTOR WATER. WHEN THE DEMIN. WAS REMOVED, CONDUCTIVITY STARTED DECREASING. ADDITIONAL TRAINING WILL BE GIVEN TO THE OPERATORS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (NMR) • COOLANT QUALITY • REACTOR COOLANT • FAILURE, OPERATOR ERROR • COOLANT PURIFICATION SYSTEM • CONTAINMENT • DEMINERALIZERS

103069

TEMPERATURE GRADIENT IN THE PRESSURE VESSEL EXCEEDS LIMIT AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AOR 75-53 TO NRC DIRECTORATE OF LICENSING, JUNE 12, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - OPERATION ERROR. DUE TO PUMP WITH CARTRIDGE COILING WATER LEAKAGE ALARM, REACTOR POWER WAS DECREASED TO 10% WITH PUMP B TRIPPED AND PUMP A AT MINIMUM SPEED. DURING THIS TIME THE DIFFERENTIAL TEMPERATURE BETWEEN THE UPPER AND LOWER REGIONS OF THE REACTOR VESSEL INCREASED FROM 25 F TO 316 F OVER A 7 HR. PERIOD. WHEN IT WAS NOTICED THAT THE TEMPERATURE GRADIENT EXCEEDED THE 165 F LIMIT, THE REACTOR WAS SHUT DOWN AND THE PUMP STOPPED. WHEN THE TEMPERATURE GRADIENT DECREASED TO LESS THAN 165 F, THE REACTOR WAS STARTED UP. A THERMAL STRESS ANALYSIS WILL BE PERFORMED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • TEMPERATURE GRADIENT • PRESSURE VESSELS • MAIN COOLING SYSTEM • FAILURE, OPERATION ERROR • THERMAL ANALYSIS • STRESS ANALYSIS • REACTOR SHUTDOWN • THERMAL TRANSIENT

103072

SCRAM DISCHARGE VOLUME LEVEL SWITCH FAILED AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AOR 75-54 TO NRC DIRECTORATE OF LICENSING, JUNE 17, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - EXCESS FRICTION IN MECHANISM. AFTER A REACTOR SCRAM, 1 OF THE 4 SCRAM DISCHARGE VOLUME DISCHARGE LEVEL SWITCHES DID NOT FUNCTION UNTIL A HOUR AFTER THE SCRAM. THE SWITCH MECHANISM HAD ABOVE NORMAL FRICTION IN THE PIN OPERATOR MAKING SLAGGISH OPERATION. ADJUSTMENTS WERE MADE TO LESSEN FRICTION. THEN THE SWITCH FUNCTIONED PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • INSTRUMENT, SWITCH • SENSORS, LEVEL • REACTOR SAFETY SYSTEM • OPERATION • FAILURE, INSTRUMENT

103063

TURBINE STOP VALVE FAILS TO CLOSE COMPLETELY AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AOR 75-55 TO NRC DIRECTORATE OF LICENSING, JUNE 24, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - LOOSE FLANGE RING NUT. FOLLOWING A REACTOR SCRAM FROM 50% POWER, A TURBINE STOP VALVE FAILED TO CLOSE FULLY (ABOUT 20% OPEN). A FLANGE RING NUT HAD SHAKEN LOOSE AND LODGED BETWEEN THE VALVE FOLLOWING AREA AND THE HYDRAULIC OPERATING CYLINDER. VIBRATION HAD LOOSENED THE NUT. ALL NUTS ON TSU OPERATORS HAVE BEEN RETIGHTENED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • VALVES • TURBINE • STEAM • FASTENER • VIBRATION • FAILURE, MAINTENANCE ERROR • VALVE OPERATIONS • SCRAM, REAL • FAILURE, EQUIPMENT

103064

CHLORIDE CONCENTRATION IN REACTOR COOLANT EXCEEDS LIMIT AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AOR 75-56 TO NRC DIRECTORATE OF LICENSING, JUNE 24, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - UNUSUAL SERVICE CONDITIONS. DURING POWER OPERATION, REACTOR WATER WAS WITHIN TECH SPEC LIMITS. WITH THE SCRAM, A CHANGE IN STEERING RATES BROUGHT INTO EFFECT DIFFERENT MEASUREMENTS WHICH COULD NOT BE MET. AN IMMEDIATE REACTOR COOLDOWN WAS STARTED. CONDENSER TUBE LEAKS WERE FOUND. CHLORINE LEVELS WERE RESPONDED TO NORMAL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • COOLANT QUALITY • CHLORIDE • REACTOR COOLANT • CONCENTRATION • FAILURE, EQUIPMENT • CONDENSER • LEAK • SCRAM, REAL • TUBING

103065

POTENTIAL TRANSFORMER FUSE FOR EUG BLOWN AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AOR 75-57 TO NRC DIRECTORATE OF LICENSING, JUNE 24, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - UNKNOWN. DURING AN EMERGENCY DIESEL GENERATOR TEST WITH THE REACTOR AT COLD SHUTDOWN, THE

103065 - COUNTERTOP

INCLUDING VOLTAGE WAS NOTED TO BE INDICATING LOW. A POTENTIAL TRANSFORMER FUSE HAD BLOWN. THE FUSE WAS REPLACED AND THE LOG SUCCESSFULLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (DNR) • OPERATIONS, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • INSTRUMENT, PRODUCTIVE • FAILURE, INSTRUMENT

103066

HYDRAULIC SHOCK SUPPRESSORS FAIL AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH ADM 75-58 TO NRC DIRECTORATE OF LICENSING, JUNE 26, 1975, DOCKET 50-333, TYPE--DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - SEAL FAILURE. FOLLOWING A REACTOR SCRAM, AN INSPECTION OF HYDRAULIC SHOCK SUPPRESSORS IN THE DRYWELL INDICATED THAT SUFFICIENT FLUID WAS PRESENT IN ALL. HOWEVER, WHEN FITTINGS WERE DISMANTLED AND FLUID ADDED 2 DAYS LATER, 2 UNITS WERE OBSERVED TO HAVE FAILED SEALS. THE SEALS WERE REPLACED.

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FITZPATRICK (DNR) • SHOCK ABSORBER • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • FAILURE, COMPONENT • SEAL • LEAK • FAILURE, DESIGN ERROR • SURVEILLANCE PROGRAM

104012

SUPPRESSION POOL WATER LEVEL SWITCHES FAIL AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH ADM 75-59 TO NRC DIRECTORATE OF LICENSING, JUNE 26, 1975, DOCKET 50-333, TYPE--DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE SUPPRESSION POOL WATER LEVEL SWITCHES WITH THE REACTOR IN COLD SHUTDOWN, ONE SWITCH FAILED TO OPERATE AND THE OTHER WAS OUT OF CALIBRATION. BOTH SUPPRESSION SWITCHES, MODEL NO. 33042-B-1, WERE EXERCISED AND RECALIBRATED. BOTH OPERATED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (DNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSOR, LEVEL • TEST, SYSTEM OPERABILITY • SET POINT • DRIFT • FAILURE, INSTRUMENT • NRC • TONUS

104013

SET POINT DRIFT IN REACTOR VESSEL LEVEL SWITCH AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH ADM 75-60 TO NRC DIRECTORATE OF LICENSING, JUNE 26, 1975, DOCKET 50-333, TYPE--DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE 4 REACTOR VESSEL LEVEL SWITCHES WHILE THE UNIT WAS IN COLD SHUTDOWN, ONE SWITCH TRIPPED AT 12.1 INCHES WHICH IS LESS THAN THE 12.5 INCH LIMIT. THE BARTON MODEL 200 A SWITCH WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (DNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, LEVEL • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • PRESSURE VESSELS • REACTOR SAFETY SYSTEM

104406

ROD NORTH MINIMIZER NOT TESTED PRIOR TO EMERGENCY SHUTDOWN AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE

2 PAGES, LETTER WITH ADM 75-61 TO NRC DIR. OF LICENSING, JULY 16, 1975, DOCKET 50-333, TYPE--DNR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - OPERATOR ERROR. DURING A PLANT PATROL, A CHECK VALVE IN THE RCIC SYSTEM WAS FOUND BLOWING STEAM. A PLANT SHUTDOWN WAS IMMEDIATELY INITIATED AS THE VALVE COULD NOT BE ISOLATED. THE OPERATOR OMITTED TESTING OF THE ROD NORTH MINIMIZER AND ROD SEQUENCE CONTROL SYSTEM PRIOR TO SHUTDOWN. THIS IS A REQUIRED TEST. A CHANGE IN TECH SPECS IS BEING CONSIDERED TO DIFFERENTIATE BETWEEN EMERGENCY AND PRE-PLANNED SHUTDOWNS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (DNR) • TESTING • CONTROL RODS • CONTROL SYSTEM • FAILURE, OPERATOR ERROR • TEST INTERVAL

104607

ACIC TURBINE STEAM SUPPLY VALVE FAILS TO CLOSE AT FITZPATRICK
 NIAGARA NIAGARA POWER CORP., SYRACUSE
 2 PGS. LTR W/AMR 75-02 TO NRC DIR. OF LICENSING, JULY 14, 1975. DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - MISADJUSTED TONGUE SWITCH. WHILE ISOLATING STEAM SUPPLY TO THE ACIC TURBINE TO ALLOW
 REPAIR OF A HIGH STEAM LEAK IN A VALVE, THE ACIC STEAM SUPPLY INWARD VALVE WOULD ONLY CLOSE
 PART WAY. THE TONGUE SWITCH WAS NOT ADJUSTED PROPERLY. THE CAUSE WILL BE DETERMINED DURING THE
 NEXT SHUTDOWN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FITZPATRICK (BWR) • VALVES • CONTAINMENT ISOLATION • COOLING • TURBINE • STEAM • FAILURE, MAINTENANCE ERROR
 • INSTRUMENT, SWITCH

104608

DAMAGED PIPE RESTRAINT FOUND ON HMR STEAM SUPPLY LINE AT FITZPATRICK
 NIAGARA NIAGARA POWER CORP., SYRACUSE, NY
 2 PGS. LTR W/AMR 75-03 TO NRC DIR. OF LICENSING, JULY 29, 1975. DCKET 50-333, TYPE--BWR, NRC--G.E., AE--
 STONE & WEBSTER

CAUSE - WATER HAMMER. DURING AN INSPECTION, A PIPE RESTRAINT ON HMR STEAM SUPPLY TO HEAT
 EXCHANGER A WAS FOUND PULLED FROM THE BUILDING WALL. SOME WATER HAMMER HAD BEEN EXPERIENCED
 WHILE DRAINING UP HPCI STEAM SUPPLY TO HPCI TURBINE. THE HMR STEAM SUPPLY TAPS OFF HPCI STEAM
 PIPING. THE PIPE RESTRAINT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FITZPATRICK (BWR) • SUPPORT STRUCTURE • SHOCK ABSORBER • PIPES AND PIPE FITTINGS • SURVEILLANCE PROGRAM •
 FAILURE, EQUIPMENT • HYDRAULIC EFFECT • SHUTDOWN COOLING SYSTEM

104610

MILK SAMPLES NOT ANALYZED ON TIME AT FITZPATRICK
 NIAGARA NIAGARA POWER CORP., SYRACUSE
 3 PGS. LTR W/AMR 75-04 TO NRC DIR. OF LICENSING, JULY 31, 1975. DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE
 & WEBSTER

CAUSE - DELAYS IN SHIPPING. A LETTER WAS RECEIVED FROM THE CONTRACTOR (EDELSTEIN INSTRUMENT CORP.)
 STATING THAT 4 MILK SAMPLES WERE ANALYZED LATE, 9 DAYS INSTEAD OF THE REQUIRED 8 DAYS. THE DELAY
 WAS CAUSED BY DELAYS IN SHIPPING. AIR MAIL SHIPPING WILL BE USED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
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FITZPATRICK (BWR) • TEST INTERVAL • CHEMICAL ANALYSIS • MILK • MONITORING PROGRAM, ENVIRONMENTAL •
 TRANSPORTATION AND HANDLING • FAILURE, ADMINISTRATIVE CONTROL

104612

TORUS ATMOSPHERE SAMPLE LINE VALVE FAILS TO OPEN AT FITZPATRICK
 NIAGARA NIAGARA POWER CORP., SYRACUSE
 3 PGS. LTR W/AMR 75-05 TO NRC DIR. OF LICENSING, JULY 31, 1975. DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE
 & WEBSTER

CAUSE - WIRE SHORTED OUT. DURING TESTING, A TORUS ATMOSPHERE SAMPLE LINE VALVE FAILED TO OPERATE.
 A FUSE BLEW AND WAS REPLACED. THE REPLACEMENT ALSO BLEW. A WIRE WAS FOUND SHORTED OUT TO THE
 CASE OF THE WIRE BOX. THE WIRE WAS REPAIRED AND THE VALVE RETESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FITZPATRICK (BWR) • VALVES • SAMPLING • CONTAINMENT ATMOSPHERE, INERT • TORUS • TEST, SYSTEM OPERABILITY •
 CABLES AND CONNECTIONS • FAILURE, INSTALLATION ERROR

104613

LOCAL LEAK RATE TESTING OF CONTAINMENT AIR LOCK NOT PERFORMED AT FITZPATRICK
 NIAGARA NIAGARA POWER CORP., SYRACUSE
 2 PGS. LTR W/AMR 75-06 TO NRC DIR. OF LICENSING, AUG. 14, 1975. DCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE
 & WEBSTER

CAUSE - OPERATOR OVERSIGHT. DURING MANAGEMENT REVIEW OF THE REACTOR STARTUP, IT WAS FOUND THAT
 THE CONTAINMENT AIR LOCK WAS NOT LEAK RATE TESTED WITHIN A 24 HOUR PERIOD FOLLOWING THE LAST
 ENTRY WITH PRIMARY CONTAINMENT REQUIRED. ENTRIES ARE PERFORMED DURING STARTUP FOR INSPECTION AND
 LEAK TESTING IS NOT A PREREQUISITE FOR STARTUP. THE OPERATOR OVERLOOKED THE 24 HOUR REQUIREMENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

105291 CONTAINMENT
CHARGE \$2.00

FITZPATRICK (BWR) • TESTING • CONTAINMENT AIR LOCK • TEST, LEAK RATE • TEST INTERVAL • FAILURE, OPERATION ERROR

105292
CONTAINMENT AIR LOCK LEAK TEST NOT PERFORMED AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., SYRACUSE
2 PGS, LTR W/AM 75-67 TO NRC DIR. OF LICENSING, AUG. 16, 1975, DOCKET 50-333, TYPE--BWR, WSG--G.E., AE--STONE & WEBSTER

CAUSE - POOR COMMUNICATIONS. PRESSURIZATION OF THE CONTAINMENT AIR LOCK FOR THE PURPOSE OF CONDUCTING A LEAK RATE TEST WAS COMMENCED ON JULY 19, 1975. DUE TO POOR COMMUNICATIONS, WAS NOT COMPLETED UNTIL JULY 21. THIS VIOLATED THE TECH SPEC REQUIREMENT OF TESTING WITHIN 24 HOURS. DURING THIS PERIOD, THE AIR LOCK WAS PRESSURIZED TO 60 PSIA. ANY LEAKAGE WOULD HAVE BEEN DETECTED BY THE CONTAINMENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • TESTING • CONTAINMENT AIR LOCK • TEST, LEAK RATE • TEST INTERVAL • FAILURE, OPERATION ERROR • COMMUNICATION

105293
MAXIMUM APM, PLANNED LINEAR HEAT GENERATION RATE EXCEEDED AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., SYRACUSE
2 PGS, LTR W/AM 75-68 TO NRC DIR. OF LICENSING, AUGUST 16, 1975, DOCKET 50-333, TYPE--BWR, WSG--G.E., AE--STONE & WEBSTER

CAUSE - POOR COMMUNICATIONS. A LEAD INCREASE VIA A RECIRCULATION FLOW INCREASE. DURING FUEL PRECONDITIONING RESULTED IN MAXIMUM BEING 3.32 BEYOND ITS LIMIT AT 3 OF THE 1343 NODES IN THE CORE. THIS OCCURRED AS A RESULT OF POOR COMMUNICATIONS BETWEEN THE REACTOR ANALYST GROUP AND THE OPERATIONS GROUP. IN THE FUTURE, AN INSTRUCTION TO THE OPERATORS REGULATING CORE THERMAL POWER CHANGES WILL BE ISSUED BY THE REACTOR ANALYST WHEN ANY LIMIT IS WITHIN 5%.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • HEAT GENERATION, INTERNAL • HEAT GENERATION, NONUNIFORM • POWER DISTRIBUTION • HOT SPOT • FAILURE, OPERATION ERROR • COMMUNICATION

105294
MPC, PUMP SUCTION ISOLATION VALVE FAILS TO OPEN AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., SYRACUSE
2 PGS, LTR W/AM 75-69 TO NRC DIR. OF LICENSING, AUG. 16, 1975, DOCKET 50-333, TYPE--BWR, WSG--G.E., AE--STONE & WEBSTER

CAUSE - MOTOR BURNED UP. THE MPC PUMP SUCTION PUMP THRU OUTWARD ISOLATION VALVE FAILED TO OPEN ON SIGNAL DURING TESTING. THE VALVE MOTOR WAS TURNED UP. IT WAS SENT OFF-SITE FOR REPAIR. THE VALVE WAS MANUALLY OPENED. IT WILL BE MANUALLY CLOSED IF REQUIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • PUMPS • CONTAINMENT ISOLATION • MPC1 • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • MOTORS • VALVE OPERATORS

105295
SET POINT DRIFT IN PRESSURE SWITCHES AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., SYRACUSE
2 PGS, LTR W/AM 75-70 TO NRC DIR. OF LICENSING, AUG. 16, 1975, DOCKET 50-333, TYPE--BWR, WSG--G.E., AE--STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING TESTING, 2 PRESSURE SWITCHES WHICH ACTIVATE IN. PRESSURE SUPPRESSION CHAMBER-REACTOR BUILDING VACUUM BREAKERS FAILED TO OPERATE AT THE REQUIRED SET POINT OF 2.5 PSID. THE CAUSE WAS INSTRUMENT DRIFT. THE SWITCHES WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • CONTAINMENT VACUUM BREAKER

105307
ACTIVITY LEVEL IN AQUEOUS SAMPLES EXCEEDS CONTROL STATION VALUE AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., SYRACUSE

105327 CONTINUED

1 PGS. LTR #74 TO NRC DIR. OF LICENSING, MAR. 26, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - LIQUID RELEASES. DURING AN AUDIT OF CONTRACTOR'S FACILITY USED IN ANALYZING ENVIRONMENTAL SAMPLES, IT WAS DISCOVERED THAT CERTAIN RADIOISOTOPIC SAMPLE ACTIVITIES COLLECTED FROM LAKE CHARLES EXCEEDED 10 TIMES THE CONTROL STATION VALUE. CS-137 ACTIVITY WAS 30 TIMES THE CONTROL VALUE. CS-136, CO-60, AND PU-239 WERE ALSO DETECTED. THESE ISOTOPES ARE FOUND IN LIQUID RELEASES FROM THE NILE POINT WASTE CO-60 AND PU-239 ARE FROM FITZPATRICK. THE ACTIVITY WAS FOUND IN PRELIMINARY SAMPLES. THIS IS NOW CORRELATED TO HUMANS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • NILE POINT WASTE (BWR) • CONCENTRATION • RADIOISOTOPES • ECOSYSTEM, AQUATIC • MONITORING PROGRAM, ENVIRONMENTAL • EFFLUENT • WASTE DISPOSAL • SAMPLING • LAKE • LAKE ONTARIO

105335

LARGE DETECTION SENSITIVITY IN MILK SAMPLE INADEQUATE AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE

2 PGS. LTR #74 TO NRC DIR. OF LICENSING, SEPT. 6, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - PROCEDURES WERE NOT FOLLOWED. DURING AN AUDIT OF CONTRACTOR'S FACILITY USED IN ANALYZING MILK SAMPLES, IT WAS DISCOVERED THAT THE ASSUMED SENSITIVITY WAS NOT MET. MILK SAMPLE FROM LOCATION 1 SHOWED AN I-131 ACTIVITY OF 3.70 PLUS OR MINUS 0.30 PC/L WHICH HAS AN ASSOCIATED ERROR OF 40% RATHER THAN THE REQUIRED 25%. CONTRACTOR INFORMED THAT HE MUST INCREASE COUNTING TIME TO MEET THE REQUIRED SENSITIVITY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • RADIOISOTOPES ANALYSES • CHEMICAL ANALYSES • MILK • FAILURE, OPERATOR ERROR • PROCEDURES AND MANUALS • SOURCE • MONITORING PROGRAM, ENVIRONMENTAL

105336

REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE

2 PGS. LTR #74 TO NRC DIR. OF LICENSING, SEPT. 6, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - FLOW PATH CHANGES DURING SHUTDOWN. DURING A NORMAL SHUTDOWN OF THE REACTOR, REACTOR WATER CONDUCTIVITY INCREASED ABOVE THE 2 LIMITS LIMIT WHILE REMOVING THE CONDENSATE JERINIZERS FROM SERVICE AND CHANGING FLOW PATHS. CHLORIDE CONCENTRATION WAS ONLY 42 PPB. THE SHUTDOWN OF THE UNIT CONTINUED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • CONDENSATE QUALITY • CONDENSATE PURIFICATION SYSTEM

106359

PIPE RESTRAINTS ON NPCT STEAM SUPPLY DAMAGED AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE

2 PGS. LTR #74 TO NRC DIR. OF LICENSING, SEPT. 15, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - WATER HAMMER DURING HEAT-UP. SEVERAL PIPE RESTRAINTS APPARENTLY SUSTAINED DAMAGE DUE TO WATER HAMMER DURING WARM-UP OF THE NPCT STEAM SUPPLY LINE DURING A REACTOR STARTUP (PRESSURE AT 100 TO 120 PSIG). THEY ARE ON THE NPCT STEAM LINE TO THE RH HEAT EXCHANGERS. THREE OF THE 4 RESTRAINTS HAVE BEEN RESTORED TO FULL SERVICE. A DESIGN CHANGE TO DRAIN NPCT STEAM SUPPLY TO THE RH HEAT EXCHANGER IS BEING CONSIDERED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (BWR) • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • NPCT • FAILURE, DESIGN ERROR • HYDRAULIC EFFECT • STEAM

106976

TIP BALL VALVES FAIL TO CLOSE ON ISOLATION SIGNAL AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE

3 PGS. LTR #74 TO NRC DIRECTORATE OF LICENSING, OCT. 8, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--STONE & WEBSTER

CAUSE - PROCEDURAL DEFICIENCY. TO MINIMIZE RADIATION LEVELS IN THE REACTOR BUILDING, TIP'S ARE PARKED AT THE INCHER IN THE CRATE FOLLOWING EXTENDED USE TO ALLOW FOR DECAY. DURING REACTOR SCRAM AND PRIMARY CONTAINMENT ISOLATION CAUSED BY LOSS OF REACTOR FEEDWATER PUMP, 2 TIP PROBES FAILED TO WITHIN PAST THE BALL VALVE PREVENTING CLOSING OF THE VALVES IN SIGNAL. THE TIP MODE SWITCH WAS IN THE OFF POSITION IN ACCORDANCE WITH PROCEDURES. PROCEDURES HAD BEEN MODIFIED TO

100976 PLUTINIUM

MAINTAIN THE MODE SWITCH IN MANUAL OR AUTOMATIC. SHIELDING MODIFICATIONS BEING REVIEWED WILL ELIMINATE THE NEED FOR TIP STORAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (IDNR) • VALVES • CONTAINMENT ISOLATION • INSTRUMENT. IN CORE • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • PLUTONIUM INTEGRITY • MODIFICATION

100957

CONTAINMENT AIR LOCK LEAK RATE NOT MEASURED ON TIME AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

3 PGS. LTR W/BU 75-75 TO NRC DIRECTORATE OF LICENSING, OCT. 10, 1975. DCKET 90-333, TYPE--BWR, NPS--G.E., AE--STONE & WEBSTER

CAUSE - PROCEDURAL DEFICIENCY. DURING A REACTOR STARTUP, A UNWELL ENTRY WAS MADE FOR INSPECTION. THEN, THE MODE SWITCH WAS PLACED IN RUN, STRONG BACKS INSTALLED, AND THE TEST COMMENCED. HOWEVER, THE TEST WAS NOT COMPLETED WITHIN THE REQUIRED 24 HOURS OF THE LAST CLOSING OF THE CONTAINMENT AIR LOCK. PROCEDURES WILL BE MODIFIED TO ENSURE COMPLETION ON TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (IDNR) • TEST INTERVAL • TESTING • LEAK RATE • CONTAINMENT AIR LOCK • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • MODIFICATION

100950

CORE SPRAY VALVE FAILS TO OPEN AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

3 PGS. LTR W/BU 75-76 TO NRC DIRECTORATE OF LICENSING, OCT. 10, 1975. DCKET 90-333, TYPE--BWR, NPS--G.E., AE--STONE & WEBSTER

CAUSE - MISADJUSTED TORQUE SWITCH. DURING A TEST OF THE CORE SPRAY SYSTEM VALVES WITH THE REACTOR AT 1035 MWt, THE NORMALLY OPEN CURENOST VALVE WAS CLOSED DURING THE TEST. THEN IT WOULD NOT OPEN ELECTRICALLY. THE TORQUE SWITCH WAS NOT ADJUSTED PROPERLY. THE VALVE WAS IMMEDIATELY OPENED MANUALLY AND STIMULATED ELECTRICALLY SEVERAL TIMES. THE TORQUE SWITCH SETTING WAS INVESTIGATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (IDNR) • VALVES • CORE SPRAY • TEST, SYSTEM OPERABILITY • INSTRUMENT, SWITCH • SET POINT • FAILURE, EQUIPMENT

100959

RHR VALVE FAILS TO OPEN AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

3 PGS. LTR W/BU 75-77 TO NRC DIRECTORATE OF LICENSING, OCT. 10, 1975. DCKET 90-333, TYPE--BWR, NPS--G.E., AE--STONE & WEBSTER

CAUSE - MISADJUSTED TORQUE SWITCH. DURING RHR VALVE OPERABILITY TESTING WITH THE REACTOR AT 1035 MWt, THE VALVE WOULD NOT OPEN WHEN GIVEN A SIGNAL FROM THE CONTROL ROOM. THE APPARENT CAUSE WAS A MISADJUSTED TORQUE SWITCH. THE VALVE WAS MANUALLY RELEASED FROM ITS SEAT AND CYCLED ELECTRICALLY SEVERAL TIMES SATISFACTORILY. THE TORQUE SWITCH SETTING WAS INVESTIGATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (IDNR) • VALVES • SHUTDOWN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • INSTRUMENT, SWITCH • SET POINT • FAILURE, EQUIPMENT

100960

MPCI PUMP SUCTION VALVE FAILS TO OPEN AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

3 PGS. LTR W/BU 75-78 TO NRC DIRECTORATE OF LICENSING, OCT. 13, 1975. DCKET 90-333, TYPE--BWR, NPS--G.E., AE--STONE & WEBSTER

CAUSE - MOTOR BURNED OUT. DURING A TEST WITH THE REACTOR OPERATING, THE MPCI PUMP SUCTION FROM TORUS OUTBOARD ISOLATION VALVE FAILED TO OPEN. THE VALVE MOTOR HAD BURNED UP. THE VALVE WAS MANUALLY OPENED AND LEFT OPEN. THE MOTOR WAS REMOVED FOR REPAIRS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (IDNR) • VALVES • MPCI • CONTAINMENT ISOLATION • TEST, SYSTEM OPERABILITY • MOTORS • VALVE OPERATORS • FAILURE, EQUIPMENT

107503

MPCI VALVE FAILS TO OPEN AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 3 PGS. LTR #WAD 75-29 TO NRC DIRECTORATE OF LICENSING, OCT. 20, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--
 STONE & WEBSTER

CAUSE - DIRTY CONTACTS. DURING A TEST WITH THE REACTOR AT 1875 MWt, THE MPCV STEAM SUPPLY TO
 TORQUE VALVE FAILED TO OPEN ON SIGNAL FROM THE CONTROL ROOM. CONTACTS ASSOCIATED WITH THE
 LIMITING MOTOR OPERATOR HAD PIECES OF IDENTIFICATION LABEL STUCK CAUGHT BETWEEN THEM,
 APPARENTLY HAVING FALLEN INTO POSITION AT SOMETIME WHEN THE COVER WAS REMOVED. THE PAPER WAS
 REMOVED AND THE VALVE OPERATED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FITZPATRICK (BWR) • VALVES • MPCV • TEST, SYSTEM OPERABILITY • CAUSE • INSTRUMENT, SWITCH • VALVE OPERATIONS •
 FAILURE, MAINTENANCE ERROR

107519

DIESEL GENERATOR FAILS TO COMPLETE STARTING SEQUENCE AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 3 PGS. LTR #WAD 75-29 TO NRC DIRECTORATE OF LICENSING, OCT. 22, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--
 STONE & WEBSTER

CAUSE - TACHOMETER RELAY FAILED. DURING A TEST WITH THE REACTOR AT 600 MWt, DIESEL GENERATOR 0
 FAILED TO COMPLETE THE STARTING SEQUENCE. THE ELECTRONIC TACHOMETER RELAY FAILED TO ENERGIZE AT
 200 RPM, WHICH STARTS WHEN THE DIESEL IN 10 SECONDS IF NOT ENERGIZED. THE DEFECTIVE TACHOMETER
 RELAY WAS REPLACED IN KIND. A DIODE FAILURE HAD RESULTED FROM OVERHEATING CAUSED BY AN ADJACENT
 RESISTOR. THIS TACHOMETER WAS UP AN EARLIER MODEL THAN THAT OF THE OTHER 3 DIESELS. THE LATER
 DESIGN WILL BE INSTALLED IN A MONTH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FITZPATRICK (BWR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE,
 INSTRUMENT • INSTRUMENT, SWITCH • FAILURE, DESIGN ERROR

107534

SUPPRESSION POOL COOLING VALVE FAILS TO OPEN AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 3 PGS. LTR #WAD 75-29 TO NRC DIRECTORATE OF LICENSING, OCT. 23, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--
 STONE & WEBSTER

CAUSE - MISADJUSTED TORQUE SWITCH. SUPPRESSION CHAMBER WATER TEMPERATURE HAD RISEN TO 80 F
 DURING MPCV TESTING. PRIOR TO CONTINUING TESTING, IT WAS DECIDED TO REDUCE THE TEMPERATURE.
 WHILE PLACING MR IN TORUS COOLING MODE, THE SUPPRESSION POOL COOLING ISOLATION VALVE WOULD NOT
 OPEN ELECTRICALLY. THE VALVE WAS MANUALLY MOVED OFF ITS SEAT AND OPERATED ELECTRICALLY. THE
 TORQUE SWITCH WAS MISADJUSTED. THE SETTING WILL BE CHANGED TO ALLOW A GREATER TORQUE FOR
 OPENING THAN FOR CLOSING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FITZPATRICK (BWR) • VALVES • SUPPRESSION COOLING SYSTEM • TORUS • CONTAINMENT ISOLATION • INSTRUMENT, SWITCH •
 SET POINT • VALVE OPERATIONS • FAILURE, MAINTENANCE ERROR

107575

AMBIENT MEASURED LEVEL OF RADIOACTIVITY AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 3 PGS. LTR #WAD 75-29 TO NRC DIRECTORATE OF LICENSING, NOV. 4, 1975, DOCKET 50-333, TYPE--BWR, NRC--G.E., AE--
 STONE & WEBSTER

CAUSE - POSSIBLE CROSS-CONTAMINATION. ANALYSIS OF A MONTHLY COMPOSITE OF WEEKLY OR BI-WEEKLY
 SAMPLES OF LAKE WATER INDICATED A GROSS BETA ACTIVITY VALUE 3.4 TIMES THE VALUE NINE MILE POINT
 CONTROL STATION FOR AUGUST. THE SEPTEMBER ANALYSIS FOR FITZPATRICK WAS 4 TIMES THE CONTROL
 VALUE. BOTH COULD BE THE RESULT OF CROSS-CONTAMINATION OF ON-SITE EQUIPMENT DUE TO THE RE-USE
 OF CONTAINERS FROM OTHER SAMPLES CONTAINING RADIOACTIVE MATERIAL. LEVELS ARE VERY LOW.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FITZPATRICK (BWR) • NINE MILE POINT (BWR) • SAMPLING • EFFLUENT • GROSS BETA • CONTAMINATION • FAILURE,
 OPERATION ERROR • LAKE • WASTE DISPOSAL

107576

MPCI ISOLATED DURING TESTING AT FITZPATRICK
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 3 PGS. LTR #WAD 50-3375-02 TO NRC DIRECTORATE OF LICENSING, NOV. 6, 1975, DOCKET 50-333, TYPE--BWR, NRC--

107070 CONTINUING
G.E., AE--STONE & WEBSTER

CAUSE - INITIAL STEAM FLOW EFFECTS. DURING AUTOMATIC MPC1 INITIATION ON LOW REACTOR WATER LEVEL DUE TO HSEV TESTING FOR A STARTUP. THE INITIAL STEAM FLOW FOR THE MPC1 TURBINE ALFUTED THE MPC1 STEAM LINE HIGH FLOW DEVICES CAUSING MPC1 ISOLATION. REACTOR WATER WAS RETURNED TO NORMAL USING THE FEEDWATER PUMPS IN LESS THAN 1 MINUTE. SHUTDOWN PINS WERE RELOCATED TO MINIMIZE THE EFFECT OF INITIAL FLOW TO THE TURBINE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (1001) • MPC1 • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN ERROR • HYDRAULIC EFFECT • STEAM • FLOW

107077
TUBUS WATER LEVEL EXCEEDS LIMIT AT FITZPATRICK
NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

3 PGS. LTR W/AM 50-333/75-03 TO NRC DIRECTORATE OF LICENSING, NOV. 6, 1975, DOCKET 50-333, TYPE--2MR, WPC--G.E., AE--STONE & WEBSTER

CAUSE - RISING REACTOR PRESSURE. FOLLOWING A REACTOR TRIP AND ISOLATION FROM 90% POWER DUE TO STARTUP TESTING. THE OPERATOR VATED REACTOR PRESSURE TO THE SUPPRESSOR POOL USING HSAV. THE CONDENSED STEAM RAISED THE LEVEL 3.3 INCH ABOVE MAXIMUM. TUBUS COOLING MADE NO RMR WAS IN USE AT THE TIME. THE LEVEL WAS IMMEDIATELY RETURNED TO NORMAL BY DISCHARGING WATER TO THE PAOWASTE SYSTEM. BASED ON THIS RESPONSE, OPERATION WILL BE INSTRUCTED TO ALTH FOR VOLUME INCREASES IN THE TUBUS DURING PLANNED SHUTDOWNS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (1001) • SYSTEM CAPACITY • TUBUS • TEST, SYSTEM OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL

100276
SET POINT DRIFT IN PRESSURE SWITCHES AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

3 PGS. LTR W/AM 75-06 TO NRC DIRECTORATE OF LICENSING, NOV. 24, 1975, DOCKET 50-333, TYPE--2MR, WPC--G.E., AE--STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING A TEST WITH THE REACTOR IN COLD SHUTDOWN, BOTH PRESSURE SWITCHES WHICH MONITOR MPC1 TURBINE EXHAUST PRESSURE WERE FOUND TO TRIP ABOUT 3 PSI ABOVE THEIR REQUIRED TRIP POINT OF 150 PSIG. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. SCW STATIC-O-RINGS CAT. NJ. 50-445 SWITCHES WERE READJUSTED TO ACTUATE BELOW 150 PSIG.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (1001) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • MPC1 • INSTRUMENT, SWITCH

100255
REACTOR COOLANT QUALITY OUT OF LIMITS AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE, NY

3 PGS. LTR W/AM 75-05 TO NRC DIRECTORATE OF LICENSING, DEC. 17, 1975, DOCKET 50-333, TYPE--2MR, WPC--G.E., AE--STONE & WEBSTER

CAUSE - CONDENSER TUBE LEAKS. DURING THE 100 HOURS DEMONSTRATION OF PLANT ELECTRICAL OUTPUT, INCREASES IN REACTOR COOLANT CONDUCTIVITY AND CHLORIDE ION CONCENTRATION WERE OBSERVED. WHEN PROJECTIONS INDICATED THAT TECH SPEC LIMITS WOULD BE EXCEEDED PRIOR TO COMPLETION OF THE 100 HOURS, A REACTOR SHUTDOWN WAS INITIATED BY THE LAST REMAINING REACTOR STARTUP TEST, TURBINE TRIP. WHEN STEAMING RATES FELL BELOW 100,000 LBS/HM DUE TO THE SCRAM, CONDUCTIVITY AND CHLORIDE CONCENTRATION EXCEEDED LIMITS. INVESTIGATION FOUND 16 LEAKING CONDENSER TUBES. THEY WERE PLUGGED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FITZPATRICK (1001) • COOLANT QUALITY • LEAK • CONDENSER • TUBING • FAILURE, TUBING • TEST, SYSTEM OPERABILITY • REACTOR STARTUP TESTING • REACTOR SHUTDOWN

107250
SET POINT DRIFT IN APRM INOPERABLE ALARM AT FITZPATRICK

NIAGARA MOHAWK POWER CORP., SYRACUSE, NY

3 PGS. LTR W/AM 75-06 TO NRC DIRECTORATE OF LICENSING, DEC. 17, 1975, DOCKET 50-333, TYPE--2MR, WPC--G.E., AE--STONE & WEBSTER

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 47% POWER, APRM 11 FAILED TO GO INOPERABLE WITH LESS THAN 11 LPM INPUTS. IT WENT INOPERABLE WITH LESS THAN 10 LPM INPUTS. THE INSTRUMENT WAS RESET TO GO INOPERABLE AT 12 INPUTS.

100720 PLANTAGE
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

ELIZABETH (BWR) • INSTRUMENT, LINEAR • FAILURE, INSTRUMENT • TEST, SYSTEM OPERABILITY • SET POINT • CORRECT
 • AMPLIFICATION • INSTRUMENT, POWER RANGE

100722
 SUSPECTED VOIDS IN CONTAINMENT BUILDING BASEMENT CONCRETE AT GRAND GULF 1
 MISSISSIPPI POWER & LIGHT COMPANY, JACKSON
 2 PAGES, LETTER TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JULY 24, 1975, DOCKET 50-321, TYPE--
 BWR, NRC-G.E., AE--DECHTEL

CAUSE - STEEP CONCRETE. THE CONCRETE FOUNDATION SLAB FOR THE CONTAINMENT STRUCTURE WAS PLACED
 DURING A 30-HOUR PERIOD ON A CONTINUOUS BASIS. THE STEEL DAYWELL WALL WAS DESIGNED TO ALLOW THE
 CONCRETE TO CURE THE AIR BEFORE IT. DUE TO THE STEEP CONCRETE USED IN PLACEMENT (2-IN. SLUMP),
 SOME DOUBT EXISTS THAT SUFFICIENT CURING WAS ESTABLISHED TO DO THIS. EXPLORATORY HOLES WILL BE
 DRILLED THROUGH THE EXPOSED SLAB TO DETERMINE THE PRESENCE OF VOIDS. THE INVESTIGATION HAS
 NOT COMMENCED BECAUSE THE UTILITY WAREHOUSE ARE ON STRIKE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

GRAND GULF 1 (BWR) • CONSTRUCTION • CONCRETE • PHOTO • BUILDING • FAILURE, INSTALLATION ERROR • STRUCTURAL
 INTEGRITY

003474
 INVESTIGATION INTO RHR PIPE FAILURE AT PATCH 1
 GEORGIA POWER COMPANY
 2 PAGES, LETTER TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JANUARY 16, 1975, DOCKET 50-321, TYPE--
 BWR, NRC-G.E., AE--SSI

CAUSE - UNKNOWN. ON DECEMBER 15, WHILE OPERATING THE RHR SYSTEM IN THE SHUTDOWN COOLING MODE, A
 LEAK WAS FOUND IN THE HEAVY SPRAY LINE. THE JICKEY PUMP SYSTEM WHICH MAINTAINS THE PROPER WATER
 LEVEL IN THE CURE SPRAY AND RHR LINES WAS OPERATING PROPERLY. STARTING AND TRIPPING OF EACH RHR
 PUMP FROM VIBRATION WHEN PUMP D WAS TRIPPED AND A 1-IN. VERTICAL DISPLACEMENT IN THE DISCHARGE
 PIPING WHEN PUMP D WAS TRIPPED. NO CAUSE FOR THE LEAK WAS FOUND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, PIPE • TESTING • REACTOR STARTUP EXPERIENCE • SHUTDOWN COOLING SYSTEM • LEAK • MATCH 1 (BWR) • PIPES
 AND PIPE FITTINGS

003553
 DIESEL GENERATOR MALFUNCTIONS AT MATCH 1
 GEORGIA POWER COMPANY
 6 PAGES, LETTER WITH REPORT TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JANUARY 16, 1975, DOCKET 50-
 321, TYPE--BWR, NRC-G.E., AE--SSI

CAUSE - DESIGN ERROR. FOUR ABNORMAL OCCURRENCES INVOLVING THE DIESEL GENERATORS OCCURRED DEC. 7
 AND 8. DGA FAILED TO START TWICE AND DGB FAILED TO START ONCE. THE SET POINT ON A TIMER ON
 DGA HAD SHIFTED FROM 7 TO 4 SECONDS. IT TIMED OUT BEFORE THE DIESEL REACHED SPEED. THIS SHUT
 DOWN DGA. A BOOSTER ON THE GOVERNORS WAS RUSTED ON THE AIR SIDE. THIS CAUSED TWO FAILURES. THE
 RUST WAS CLEANED OFF AND THE PUMP SIZE WAS ENLARGED FROM 0.025 TO 0.050 INCH ON ALL 3 DG.
 SURFACE WATER LEAKED INTO THE FUEL OIL THROUGH FLOODED PUMP SEALS, SAMPLE PORTS, AND ACCESS PORT.
 MODIFICATIONS WERE MADE TO PREVENT FLOODING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

SURFACE WATER • REACTOR STARTUP EXPERIENCE • FAILURE, DESIGN ERROR • SET POINT • MATCH 1 (BWR) • PNEUMATIC
 SYSTEM • FUEL, FOSSIL • DRIFT • ENGINES, INTERNAL COMBUSTION • GENERATOR, DIESEL • INSTRUMENTS, MISC.

003473
 RHR TURBINE TRIPS AT MATCH 1
 GEORGIA POWER COMPANY
 2 PAGES, LETTER WITH REPORT TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JANUARY 20, 1975,
 DOCKET 50-321, TYPE--BWR, NRC-G.E., AE--SSI

CAUSE - UNKNOWN. DURING FULL PRECONDITIONING, THE REACTOR CORE ISOLATION COOLING SYSTEM TURBINE
 TRIPPED FOLLOWING AN AUTO START. A REACTOR SCRAM HAD BEEN INITIATED BY MSIV CLOSURE. MPC1
 STARTED SUCCESSFULLY ON LOW LEVEL AND RCIC WAS RESTARTED MANUALLY. SUBSEQUENT TESTS HAVE
 DEMONSTRATED RCIC OPERABLE. THE CAUSE OF THE MALFUNCTION IS BEING INVESTIGATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, EQUIPMENT • CONTAINMENT ISOLATION • REACTOR STARTUP EXPERIENCE • TURBINE • COOLING • MATCH 1 (BWR)

090554
LEVEL SWITCH MALFUNCTIONS AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AD REPORT 75/2 TO DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JANUARY 20, 1975.
DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - WATER FROZEN IN SWITCH. DURING TESTING, A LEVEL SWITCH SERVING HPCR SUCTION AUTO TRANSFER LOGIC WAS FOUND INOPERATIVE. WATER IN THE SWITCH CHAMBER HAD FROZEN, THUS BLOCKING SWITCH OPERATIONS. THE SUBMIT SHAW MODEL 83481-AZ LEVEL SWITCH WAS FURNISHED. THE SWITCHES WILL BE INSULATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT, SWITCH + REACTOR STARTUP EXPERIENCE + TEST, SYSTEM OPERABILITY + FAILURE, DESIGN ERROR + THERMAL INSULATION + WEATHER, SEVERE + MATCH 1 (BWR) + SENSORS, LEVEL + HPCR

090671
UNWELL LEAKAGE BECOMES EXCESSIVE AT MATCH 1
GEORGIA POWER COMPANY
1 PAGE, LETTER TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, FEBRUARY 4, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - PLUGGED DRAINS. DURING STARTUP TESTING, UNWELL LEAKAGE INCREASED TO 12 GPM UNIDENTIFIED LEAKAGE. THE REACTOR WAS SHUT DOWN. A DAYWELL CORKER WAS LEAKING CONDENSATE DUE TO PLUGGED DRAINS. A PACKING LEAK WAS FOUND ON A RECIRCULATION LOOP DISCHARGE VALVE. THE LEAKS WERE REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT + CONTAINMENT AIR COOLING + REACTOR STARTUP EXPERIENCE + SEAL + LEAK RATE + LEAK + MATCH 1 (BWR) + REACTOR SHUTDOWN + DRAINAGE + VALVES

100357
LEVEL SWITCH FAILS AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AD REPORT 75/6 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, FEBRUARY 19, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - DESIGN DEFICIENCY. DURING TESTING WHILE THE UNIT WAS IN COLD SHUTDOWN, AN ADS LEVEL SWITCH FAILED TO OPERATE. THE INSTRUMENT POINTER HAD SLIPPED ON THE SHAFT PREVENTING OPERATION. THE YAMAW LEVEL SWITCH, MODEL 4480C, POINTER CEMENT FAILED ALLOWING THE POINTER TO SLIP ON THE SHAFT. THE VENDOR HAS CHANGED THE TYPE OF CEMENT USED. POINTERS WILL BE CHANGED AS THEY BECOME AVAILABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL + FASTENER + INSTRUMENT CALIBRATION + INSTRUMENT, SWITCH + PRESSURE RELIEF + TEST, SYSTEM OPERABILITY + FAILURE, DESIGN ERROR + MATCH 1 (BWR) + SENSORS, LEVEL

100358
SETPOINT OF PRESSURE SWITCHES IN PWR AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AD REPORT 75/7 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, FEBRUARY 19, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - MISINTERPRETATION OF PROCEDURES. DURING TESTING WITH THE REACTOR IN COLD SHUTDOWN, 2 PRESSURE SWITCHES ACTUATED ABOVE THE TECH SPEC LIMIT. THE SWITCHES ISOLATE THE RHM SYSTEM ON HIGH REACTOR PRESSURE IF THE SHUTDOWN COOLING MODE OF RHM IS IN SERVICE. THE SWITCHES WERE SET INCORRECTLY DURING THE LAST TEST. THE TECHNICIAN MISINTERPRETED THE METHOD OF SETTING THE SWITCHES. PROCEDURES WERE CHANGED. ONE SWITCH HAS A BARNESDALE NO. B2TH1255 AND THE OTHER HAS A STATIC-O-RING NO. 73-4-1400.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + SHUTDOWN COOLING SYSTEM + SET POINT + MATCH 1 (BWR) + COMMUNICATION, SENSORS, PRESSURE

100359
RPV LEVEL SENSOR MALFUNCTION AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AD REPORT 75/9 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, FEBRUARY 23, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - EQUALIZING VALVES OPEN. DURING NORMAL OPERATION, IT WAS OBSERVED THAT THE RPV LEVEL

100356 CONTINUED

INSTRUMENTS WHICH INITIATE ECCS WERE INDICATING UPSCALE. THE EQUALIZING VALVES FOR 2 LEVEL SWITCHES WERE OPEN. WHEN THE VALVES WERE CLOSED, THE INSTRUMENTS CAME ON SCALE. THE VALVES APPARENTLY WERE NOT CLOSED AFTER TESTING. STARTUP PROCEDURE WAS MODIFIED TO REFERENCE A VALVE LINEUP PROCEDURE AND TO OPEN LEVEL SWITCH INDICATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PROCEDURES AND MANUALS • INSTRUMENT, SWITCH • MODIFICATION • FAILURE, MAINTENANCE ERROR • MATCH 1 (EQUI) • EMERGENCY COOLING SYSTEM • VALVES • SENSORS, LEVEL

100356

TIP BALL VALVE FAILS TO CLOSE AT MATCH 1

GEORGIA POWER COMPANY

2 PAGES, LETTER WITH AD REPORT 75/8 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, FEBRUARY 26, 1975, DOCKET 50-321, TYPE--DNR, NRC--G.E., AE--SSI

CAUSE - CABLE LUBRICANT AROUND VALVE. FOLLOWING TIP MACHINE C OPERATION, THE ISOLATION VALVE BALL VALVE FAILED TO CLOSE WHEN THE DETECTION REACHED IT. STORAGE LOCATION IT WAS MANUALLY CLOSED. THE OPERATOR RECEIVED 5 MIN TO THE WHOLE BODY CLOSING THE VALVE. SOME TIP CABLE LUBRICANT BECAME PALLED AROUND THE BALL VALVE. THE VALVE WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • INSTRUMENT, IN LINE • CONTAINMENT ISOLATION • CAUD • LUBRICATION • MATCH 1 (EQUI) • CABLES AND CONNECTIONS • VALVES

100401

SAFETY/RELIEF VALVES SETPOINTS HIGH AT MATCH 1

GEORGIA POWER COMPANY

1 PAGE, LETTER TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, FEBRUARY 29, 1975, DOCKET 50-321, TYPE--DNR, NRC--G.E., AE--SSI

CAUSE - NOT STATED. DURING REACTOR OPERATION, IT WAS LEARNED THE 2 SAFETY/RELIEF VALVES HAD SETPOINTS 5 PSI ABOVE LIMITS. PRESSURE WAS REDUCED BELOW 113 PSIG WITHIN 14 HOURS FOLLOWING A REACTOR SCRAM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

STEAM • PRESSURE RELIEF • REACTOR STARTUP EXPERIENCE • MAIN COOLING SYSTEM • SET POINT • MATCH 1 (EQUI) • VALVES

100400

RELIEF VALVES SET TOO HIGH AT MATCH 1

GEORGIA POWER CO.

2 PAGES, LETTER WITH AD REPORT 75/10 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, FEBRUARY 25, 1975, DOCKET 50-321, TYPE--DNR, NRC--G.E., AE--SSI

CAUSE - IMPROPER CALIBRATION. MANAGEMENT RECEIVED A LETTER FROM GE STATING THAT 2 SAFETY/RELIEF VALVES WERE SET 5 PSI ABOVE THE LIMIT. THE VALVES WERE STILL OPERABLE. A 45 DAY TEMPORARY RELIEF FROM THE LIMIT WAS GRANTED BY NRC. THE VALVES WERE SET WITH NITROGEN INSTEAD OF STEAM. AN INCORRECT SETPOINT WAS USED. PROCEDURES WILL BE MODIFIED TO INCLUDE THE NITROGEN SETPOINT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PROCEDURES AND MANUALS • PRESSURE RELIEF • REACTOR STARTUP EXPERIENCE • FAILURE, ADMINISTRATIVE CONTROL • MAIN COOLING SYSTEM • SET POINT • MATCH 1 (EQUI) • VALVES

100402

NRC TURBINE TRIPPED (CORRECTED REPORT) AT MATCH 1

GEORGIA POWER CO.

2 PAGES, LETTER WITH AD REPORT 75/11 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 3, 1975, DOCKET 50-321, TYPE--DNR, NRC--G.E., AE--SSI

CAUSE - WIRING ERROR. DURING FUEL PRECONDITIONING, A REACTOR SCRAM WAS INITIATED BY MSIV CLOSURE. NRC TURBINE TRIP FOLLOWING AN AUTO START. MPC1 STARTED ON LOW LEVEL. RCIC WAS RESTARTED MANUALLY. A WIRING ERROR WAS FOUND ON THE TURBINE GOVERNOR. THE CABLE CONNECTOR TO THE GOVERNOR HAD BROKEN AND THE REPLACEMENT HAD BEEN WIRED INCORRECTLY RESULTING IN A LOW VOLTAGE SIGNAL TO THE GOVERNOR. THE GOVERNOR RESPONSE TIME WAS REDUCED RESULTING IN A TURBINE TRIP ON OVERSPEED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT ISOLATION • REACTOR STARTUP EXPERIENCE • FAILURE, MAINTENANCE ERROR • TURBINE • COOLING • MATCH 1 (EQUI) • CABLES AND CONNECTIONS

100863

STANDBY LIQUID CONTROL STORAGE TANK CONCENTRATION LOW AT MATCH 1
GEORGIA POWER CO.2 PAGES, LETTER WITH AD REPORT 75/12 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 3, 1975.
DUCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - DRIFT DURING TESTING. A SAMPLE TAKEN FROM THE STANDBY LIQUID CONTROL STORAGE TANK JUST PRIOR TO A REACTOR STARTUP REVEALED THAT THE SODIUM PENTAMETATE CONCENTRATION WAS BELOW THE TECH SPEC LIMIT. STARTUP WAS STOPPED UNTIL THE CONCENTRATION WAS RESTORED TO WITHIN LIMITS. DURING SLC TESTING, SMALL QUANTITIES OF SOLUTION ARE LOST. REQUIRING CONCENTRATION DIFFERENCES IN VOLUME. DURING THE LAST TEST, THE VOLUME DECREASED BELOW THAT REQUIRED FOR THE CONCENTRATION. ADMINISTRATIVE LIMITS HAVE BE ESTABLISHED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

POISSON, SUIBLE + TESTING + REACTOR STARTUP EXPERIENCE + STORAGE CONTAINER + TEST, SYSTEM OPERABILITY + SHUTDOWN SYSTEM, SECONDARY + FAILURE, ADMINISTRATIVE CONTROL + MARCH 1 (BWR) + CONCENTRATION

100864

SETPOINT DRIFT IN LEAK DETECTION INSTRUMENTATION AT MATCH 1
GEORGIA POWER CO.2 PAGES, LETTER WITH AD REPORT 75/13 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 3, 1975.
DUCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE RUCO LEAK DETECTION INSTRUMENTATION ON INSTRUMENT TRIPPED AT 85 GPM AND A SECOND AT 90 GPM. BOTH EXCEEDED THE 80 GPM LIMIT. BOTH WERE RECALIBRATED. THE APPARENT CAUSE WAS DRIFT IN THE GE MODEL 560 ALARM UNITS. THE UNITS HAD BEEN SET CLOSE TO THE LIMIT BECAUSE SYSTEM TRANSIENTS DURING NORMAL SYSTEM OPERATION HAD RESULTED IN ENOUGH HIGH LEAK SIGNALS CAUSING SYSTEM ISOLATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + REACTOR STARTUP EXPERIENCE + TEST, SYSTEM OPERABILITY + LLM + SET POINT + MATCH 1 (BWR) + DRIFT + SENSORS, FLOW

100865

DIFFERENTIAL PRESSURE SWITCH ERRATIC AT MATCH 1
GEORGIA POWER CO.2 PAGES, LETTER WITH AD REPORT 75/14 TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 3, 1975.
DUCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - SET POINT SHIFT. A PSI DIFFERENTIAL PRESSURE SWITCH WOULD OPERATE ERRATICALLY WITH STATIC PRESSURE APPLIED TO IT. INVESTIGATION REVEALED THAT THE SWITCH SET POINT WOULD SHIFT. THE DEFECTIVE CELL WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + REACTOR STARTUP EXPERIENCE + SET POINT + MATCH 1 (BWR) + DRIFT

101163

MPCI STEAM LINE ISOLATION VALVES FAIL TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY

2 PAGES, LETTER TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 13, 1975, DUCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - PRESSURE SWITCH DRIFT. DURING A REACTOR PRESSURE VESSEL DEPRESSURIZATION, TWO MPCI STEAM LINE ISOLATION VALVES FAILED TO CLOSE AT PRESSURES GREATER THAN 100 PSIG. THE SETPOINT OF A BARRISCOE PRESSURE SWITCH, NO. 027-012255-06, HAD DRIFTED BELOW 100 PSIG TO 90 PSIG. THE SWITCH WILL BE CHECKED WEEKLY FOR A MONTH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL SYSTEM + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + REACTOR STARTUP EXPERIENCE + SET POINT + MATCH 1 (BWR) + DRIFT + VALVES + SENSORS, PRESSURE + MPCI

101164

IMPROPER EAC OPERATION AT MATCH 1
GEORGIA POWER COMPANY

3 PAGES, LETTER TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 13, 1975, DUCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - DESIGN ERROR. WHILE OPERATING RHR IN THE SHUTDOWN COOLING MODE, IT WAS OBSERVED THAT THE EAC UNIT IN ONE CORNER ROOM WAS OPERATING WHILE THE OPERATING RHR PUMP WAS IN THE OTHER CORNER ROOM. THE EAC ELEMENTARY WAS FOUND TO BE INCORRECT. AREA TEMPERATURE SWITCHES WOULD HAVE

101104 CONTINUED

INITIATED ITS ASSUMED EAC UNIT IF NEEDED. A DESIGN CHANGE REQUEST WAS ISSUED TO CORRECT THE WIRING ERROR AND TO CORRECT THE APPROPRIATE SYSTEM DRAWINGS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT SYSTEM • CONTAINMENT AIR COOLING • AIR • MODIFICATION • REACTOR STARTUP EXPERIENCE • FAILURE, DESIGN ERROR • COOLING • MATCH 1 (DOWN) • CABLES AND CONNECTIONS

101448

TORUS LEVEL INSTRUMENTATION CALIBRATED INCORRECTLY AT MATCH 1

GEORGIA POWER COMPANY

3 PAGES, LETTER WITH AD REPORT 75/17 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, MARCH 17, 1975, DOCKET 50-321, TYPE--OWN, NRC--G.E., AE--551

CAUSE - MEASUREMENT ERROR. DURING REACTOR OPERATION, IT WAS DETERMINED THAT THE TORUS LEVEL INSTRUMENTATION WAS CALIBRATED INCORRECTLY RESULTING IN AN INDICATED LEVEL 3.75 INCHES LESS THAN ACTUAL WATER LEVEL. WHEN THE INSTRUMENTS WERE FIRST SET UP, A 3.75 INCH ERROR WAS MADE IN MEASURING THE DISTANCE BETWEEN THE TORUS INSTRUMENT PENETRATION AND THE TORUS INVERT. THE INSTRUMENTS WERE RECALIBRATED AND THE TORUS WATER LEVEL LOWERED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MEASUREMENT • INSTRUMENT CALIBRATION • REACTOR STARTUP EXPERIENCE • FAILURE, INSTALLATION ERROR • MATCH 1 (DOWN) • SENSORS, LEVEL • TORUS

101449

TIP BALL VALVE FAILS TO CLOSE AT MATCH 1

GEORGIA POWER COMPANY

2 PAGES, LETTER WITH AD REPORT 75/18 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, MARCH 17, 1975, DOCKET 50-321, TYPE--OWN, NRC--G.E., AE--551

CAUSE - BINDING OF SHAFT. DURING A REACTOR STARTUP AND FOLLOWING TIP OPERATION, A BALL VALVE FAILED TO CLOSE AFTER THE DETECTOR WAS WITHDRAWN TO ITS STORAGE LOCATION. THE VALVE WAS MANUALLY CLOSED. A SMALL PIN IN THE VALVE SHAFT HAD MIGRATED FROM A REMOUNTED POSITION TO AN OFF-SET POSITION CAUSING THE PIN TO BIND AGAINST THE VALVE BODY. ALSO, 1 OF 2 VALVE END PLATES WAS FOUND TO BE LOOSE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • INSTRUMENT, IN CORE • REACTOR STARTUP EXPERIENCE • FAILURE, MAINTENANCE ERROR • MATCH 1 (DOWN) • VALVES

101160

SETPOINT DRIFT IN LEVEL SWITCH AT MATCH 1

GEORGIA POWER COMPANY

2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 26, 1975, DOCKETS 50-321, TYPE--OWN, NRC--G.E., AE--551

CAUSE - REPORTING ERROR. IT WAS REPORTED THAT A REACTOR PRESSURE VESSEL LEVEL SWITCH OPERATED AT 63 INCHES WHICH EXCEEDS THE 50 INCH LIMIT. A REVIEW OF THE DATA SHEETS REVEALED IT ACTUALLY OPERATED AT 42 INCHES. THE SWITCH HAD DRIFTED IN THE CONSERVATIVE RATHER THAN THE NON-CONSERVATIVE DIRECTION. NO PROBLEM WAS FOUND WITH THE BARTON MODEL 200A LEVEL INDICATING SWITCH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PRESSURE VESSELS • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • REACTOR STARTUP EXPERIENCE • TEST, SYSTEM OPERABILITY • SET POINT • MATCH 1 (DOWN) • DRIFT • SENSORS, LEVEL

101161

SETPOINT DRIFT IN LEVEL SWITCH AT MATCH 1

GEORGIA POWER COMPANY

2 PAGES, LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 26, 1975, DOCKET 50-321, TYPE--OWN, NRC--G.E., AE--551

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE RPS, A REACTOR PRESSURE VESSEL LEVEL SWITCH OPERATED AT 5 INCHES WHICH IS BELOW THE 12.5 INCH LIMIT. THE BARTON MODEL 200A LEVEL INDICATING SWITCH WAS RECALIBRATED. NO PROBLEMS WERE FOUND WITH THE SWITCH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PRESSURE VESSELS • REACTOR SAFETY SYSTEM • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • SET POINT • MATCH 1 (DOWN) • DRIFT • SENSORS, LEVEL

101102
SERVICE WATER CONTROL VALVE FAILS AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES. LETTER TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MARCH 26, 1975, DOCKET 50-321, TYPE--
BWR, NRG--G.E., AE--SSI

CAUSE - MOTOR BURNED UP. DURING NORMAL OPERATION IT WAS OBSERVED THAT THE CONTROL ROOM INDICATING LIGHTS TO A BWR SERVICE WATER SYSTEM VALVE DROPE OUT. THE DRIVE MOTOR WAS BURNED UP. THE MOTOR WAS REBUILT AND RETURNED TO SERVICE. THE PRESSURE MOTOR, FRAME NUMBER IS A 15 MINUTE DUTY MOTOR THAT OPERATES AS IMITATING VALVE TO MAINTAIN BWR SERVICE WATER PRESSURE GREATER THAN BWR WATER PRESSURE. IN AUTO, THE VALVE MOTOR MAY EXCEED ITS 15 MIN. DUTY CYCLE. A REPLACEMENT MOTOR RATED FOR CONTINUOUS DUTY WILL BE OBTAINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR STARTUP EXPERIENCE + FAILURE, DESIGN ERROR + AUXILIARY COOLING + MATCH 1 (BWR) + VALVE OPERATORS + MOTORS + VALVES

102150
SETPOINT DRIFT IN PRESSURE SWITCH AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES. LETTER WITH AD REPORT 75/23 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 2, 1975, DOCKET 50-321, TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - UNKNOWN. DURING POWER OPERATION, A RCIC TUNING DIAPHRAGM PRESSURE SWITCH, BARSBOROUGH MODEL 02M-10SS, OPERATING AT 20 PSIG, WHICH EXCEEDS THE 23.0 PSIG LIMIT, NO PROBLEMS WERE FOUND WITH THE INSTRUMENT. THE SWITCH WAS RESET TO COMPLY WITH TECH SPECS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT ISOLATION + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + COOLING + SET POINT + MATCH 1 (BWR) + DRIFT + SENSORS, PRESSURE

102157
TIP MACHINE BALL VALVE FAILS TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES. LETTER WITH AD REPORT 75/24 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 2, 1975, DOCKET 50-321, TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - COIL BURNED UP. WHILE MEASURING TIP DRIVE MOTOR TORQUE, A TIP BALL VALVE FAILED TO CLOSE AFTER THE TIP DETECTOR WAS WITHDRAWN TO ITS STORAGE LOCATION. THE BALL VALVE WAS MANUALLY CLOSED. THE OPEN COIL HAD BURNED UP. THE VALVE LATCH OPEN COIL HAD FAILED SO THE VALVE WOULD NOT LATCH OPEN. THIS RESULTED IN THE OPEN COIL ENERGIZING TO OPEN THE VALVE, DEENERGIZING WHEN THE VALVE OPENED, VALVE CLOSING BECAUSE IT COULD NOT LATCH, AND ENERGIZING THE OPEN COIL. THE REPEATED ACTION CAUSED THE COIL TO OVERHEAT AND MELT THE COIL INSULATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT + INSTRUMENT, IN CORE + MATCH 1 (BWR) + SILENCER + VALVE OPERATORS + VALVES

102158
LEVEL SWITCH FAILS AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES. LETTER WITH AD REPORT 75/25 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 2, 1975, DOCKET 50-321, TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - OUT OF ALIGNMENT. DURING REACTOR POWER OPERATION, THE APY LEVEL SWITCH CONTACT OPENED AS THE LEVEL DECREASED AND, WHILE TESTING, RECLOSED WITH A SIMULATED LEVEL LESS THAN TECH SPEC LIMIT. THE SWITCH AND ITS ACTUATING MAGNET WERE OUT OF ALIGNMENT. THEY WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT SPRAY + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + MATCH 1 (BWR) + SENSORS, LEVEL

102162
OFF GAS HYDROGEN CONCENTRATION EXCEEDS 4% LIMIT AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES. LETTER WITH AD REPORT 75/22 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 10, 1975, DOCKET 50-321, TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - OPERATOR OVERSIGHT. DURING NORMAL OPERATION SJAE 1A FAILED AND CONDENSER VACUUM DECREASED TO 21 IN. HG. GENERATOR LOAD WAS REDUCED AND SJAE 1B WAS PLACED IN SERVICE. AT THIS TIME, THE OFF GAS HYDROGEN CONCENTRATION EXCEEDED 4% AND THE OFF GAS DISCHARGE VALVE WAS NOT CLOSED. AS

102102 PLANTINGUP

SUGGESTED BY DESIGN ENGINEERING. THE ALARM WAS SET CONSERVATIVELY AT 18. ISOLATION IS A NORMAL FUNCTION. A SECOND ALARM WILL BE ADDED WHICH WILL BE SET AT 48 TO ALERT THE OPERATOR TO CLOSE THE VALVE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, OPERATOR ERROR + MISMATCH + MODIFICATION + OFF GAS + MATCH 1 (DNR) + CONCENTRATION + ANALYZERS

102491

SET POINT DRIFT IN PRESSURE SWITCH AT MATCH 1

GEORGIA POWER CO.

3 PAGES. LETTER WITH AOR 75-26 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 15, 1975, DCKET 50-321, TYPE--DNR, NRC--G.E., AE--551

CAUSE - INSTRUMENT DRIFT. DURING TESTING, A REC EXHAUST DIAPHRAGM PRESSURE SWITCH OPERATED AT 20 PSIG INSTEAD OF THE 23.8 PSIG LIMIT. THE BARKSDALE PRESSURE SWITCH, MODEL 02M-AL5055, WAS RESET. NO OBVIOUS PROBLEM WAS FOUND WHICH WOULD CAUSE DRIFT. THE SWITCH HAS AN ACCURACY OF 2% PLUS OR MINUS 4 PSI. THE INSTRUMENTS ARE NORMALLY SET WITHIN 2 PSI OF THE LIMIT WHICH IS THEREFORE LESS THAN THE INSTRUMENT ACCURACY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, ADMINISTRATIVE CONTROL + SET POINT + DRIFT + CONTAINMENT ISOLATION + COOLING

102492

SWITCH CONTACT RECLOSES AFTER OPENING AT MATCH 1

GEORGIA POWER CO.

3 PAGES. LETTER WITH AOR 75-27 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 15, 1975, DCKET 50-321, TYPE--DNR, NRC--G.E., AE--551

CAUSE - OUT OF ADJUSTMENT. DURING TESTING OF THE APV LEVEL SWITCH, CONTACT 1 OPENED AT THE DESIRED SET POINT BUT RECLOSED BELOW THE SET POINT. THIS DID NOT OCCUR EVERY TIME. THE CONTACT AND ITS ACTUATING MAGNET WERE ADJUSTED SO THAT THE CONTACT REMAINED CLOSED TO THE INSTRUMENT RANGE LOW END. CONTACT 3 CLOSED AT THE DESIRED SET POINT BUT FAILED TO OPEN WHEN THE SIMULATED WATER LEVEL WAS RAISED ABOVE THE SET POINT. THIS CONTACT AND ITS ACTUATING MAGNET WERE ALSO ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, LEVEL + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + FAILURE, MAINTENANCE ERROR + CONTAINMENT ISOLATION

102493

SWITCH CONTACT RECLOSES AFTER OPENING AT MATCH 1

GEORGIA POWER CO.

3 PAGES. LETTER WITH AOR 75-28 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 15, 1975, DCKET 50-321, TYPE--DNR, NRC--G.E., AE--551

CAUSE - OUT OF ADJUSTMENT. DURING TESTING, CONTACT 1 OF APV LEVEL SWITCH OPENED AT THE DESIRED SET POINT BUT RECLOSED BELOW THE SET POINT. SIMILAR CONTACT OPERATION HAS OCCURRED ON SEVERAL OCCASIONS. A NEW INSTRUMENT WAS USED TO REPLACE THE FAILED INSTRUMENT. THE YARWAY TYPE 4410C CONTACT AND ITS ACTUATING MAGNET WERE FOUND SLIGHTLY MISALIGNED. A SMALL MISALIGNMENT CAN CAUSE THE CONTACT TO CHANGE STATE WITH THE INSTRUMENT OPERATING AT THE EXTREME ENDS OF ITS RANGE.

AVAILAB. - Y - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, LEVEL + TEST, SYSTEM OPERABILITY + CONTAINMENT ISOLATION + FAILURE, MAINTENANCE ERROR

102494

SWITCH CONTACT RECLOSES AFTER OPENING AT MATCH 1

GEORGIA POWER CO.

3 PAGES. LETTER WITH AOR 75-29 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 15, 1975, DCKET 50-321, TYPE--DNR, NRC--G.E., AE--551

CAUSE - OUT OF ADJUSTMENT. DURING TESTING OF A APV LEVEL SWITCH, CONTACT NO. 1 OPENED AT THE CORRECT SET POINT. AS THE SIMULATED LEVEL WAS FURTHER DECREASED, THE CONTACT CLOSED. THIS IS ONE OF SEVERAL OCCURRENCES OF THIS TYPE OF FAILURE. A NEW POINTER AND MAGNET ASSEMBLY WERE INSTALLED ON THE INSTRUMENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

102734 *CONTINUED*
MATCH 1 (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, LEVEL * TEST, SYSTEM OPERABILITY * FAILURE, MAINTENANCE ERROR * EMERGENCY COOLING SYSTEM

102737
SET POINT DRIFT IN FLOW SWITCH AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AOR 75-30 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 25, 1975, DOCKET 50-321, TYPE-BWR, NRC-G.E., AE-551

CAUSE - INSTRUMENT DRIFT. DURING SURVEILLANCE TESTING, THE NRC PUMP MINIMUM FLOW SWITCH WAS FOUND TO OPERATE ABOVE THE LIMIT. THE BARTON MODEL 290A FLOW SWITCH HAD DRIFTED. IT WAS CALIBRATED AND RETESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, FLOW * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * SET POINT * DRIFT * CONTAINMENT ISOLATION * COOLING

102738
MAIN STEAM ISOLATION VALVE FAILS TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AOR 75-31 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 25, 1975, DOCKET 50-321, TYPE-BWR, NRC-G.E., AE-551

CAUSE - STUCK PILOT SOLENOID. DURING NORMAL OPERATION, A REACTOR SCRAM AND LOW LEVEL ISOLATION WERE RECEIVED. AN OUTWARD MAIN STEAM ISOLATION VALVE DID NOT CLOSE BECAUSE OF A STUCK PILOT SOLENOID. THERE WAS NO EVIDENCE OF FOREIGN MATERIAL THAT WOULD CAUSE THE SOLENOID TO STICK. A NEW SPRING WILL BE INSTALLED AFTER IT IS RECEIVED. AFTER REASSEMBLING THE SOLENOID, THE VALVE WAS SUCCESSFULLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * PVALVES * CONTAINMENT ISOLATION * MAIN COOLING SYSTEM * STEAM * SCRAM, REAL * FAILURE, EQUIPMENT * SOLENOID

102739
RHR SERVICE WATER CROSS TIE VALVE FAILS TO OPEN AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES, LETTER WITH AOR 75-32 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, APRIL 25, 1975, DOCKET 50-321, TYPE-BWR, NRC-G.E., AE-551

CAUSE - BREAKER TRIPPED. DURING TESTING OF THE RHR SERVICE WATER TO RHR CROSS TIE VALVE, THE DRIVE MOTOR BREAKER TRIPPED WHEN THE CONTROL SWITCH WAS TURNED TO OPEN. THE VALVE FAILED TO OPEN. THE BREAKER COULD NOT BE RESET BECAUSE OF A LOOSE LINKAGE. NO REASON WAS FOUND FOR THE BREAKER TRIPPING. A LOOSE SET SCREW WAS FOUND IN THE BREAKER OPERATING MECHANISM. AFTER IT WAS TIGHTENED, THE VALVE WAS SUCCESSFULLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * PVALVES * PBREAKER * TEST, SYSTEM OPERABILITY * FAILURE, MAINTENANCE ERROR * SHUTDOWN COOLING SYSTEM * AUXILIARY COOLING

103006
RHR SYSTEM VALVE FAILS TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES, LETTER WITH AOR 74-34 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, MAY 5, 1975, DOCKET 50-321, TYPE-BWR, NRC-G.E., AE-551

CAUSE - TORQUE SWITCH SET LOW. DURING REMOVAL OF RHR LOOP B FROM THE SHUTDOWN COOLING MODE, A SHUTDOWN COOLING SUCTION VALVE WOULD NOT CLOSE USING THE CONTROL SWITCH. THE WALWORTH CO. 300 LB 20 INCH GATE VALVE TORQUED OUT AT THE START OF A CLOSE CYCLE. THE VALVE WAS MANUALLY CLOSED 3/4 INCH AT WHICH POINT THE VALVE MOTOR ENGAGED AND RAN WITH NO DIFFICULTY. THE TORQUE SWITCH WAS FOUND TO BE SET AT 1.75. THE RECOMMENDED SETTING WAS 2.75. IT WAS RESET TO 2.75.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * PVALVES * SHUTDOWN COOLING SYSTEM * FAILURE, MAINTENANCE ERROR * INSTRUMENT, SWITCH * SET POINT

103099
SET POINT DRIFT IN PRESSURE SWITCH AT MATCH 1
GEORGIA POWER COMPANY

100999 CONTINUED

2 PAGES, LETTER WITH AD 75-35 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, MAY 7, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - UNKNOWN. DURING TESTING OF THE RPV PRESSURE SWITCHES, ONE SWITCH OPERATED ABOVE THE LIMIT. THE REACTOR WAS SHUTDOWN AND THE RPV HEAD VENTS WERE OPEN. NO OBVIOUS PROBLEM WAS FOUND. THE HANDBOOK MODEL 02T-01255 SWITCH WAS RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DESIGN • REACTOR SAFETY SYSTEM • PRESSURE VESSELS

101100

IMPROPER SETPOINT FOR PRESSURE SWITCHES AT MATCH 1
GEORGIA POWER COMPANY

2 PAGES, LETTER WITH AD 75-36 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, MAY 7, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - PROCEDURES NOT CURRENT. DURING TESTING ON TURBINE FAST CLOSURE SCRAM PRESSURE SWITCHES, ALL 4 SWITCHES OPERATED AT 850 PSIG DECREASING INSTEAD OF THE 1300 PSIG LIMIT. A LATER AMENDMENT REQUIRED THE SWITCHES TO INITIATE DEENERGIZATION WITHIN 30 MILLISECONDS OF START OF CONTROL VALVE FAST CLOSURE. STILL LATER, THE 1000 PSIG CRITERIA WAS ADOPTED. PROCEDURES FAILED TO INCLUDE THIS LAST CHANGE. THE SWITCHES WERE RESET AND PROCEDURES CHANGED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, ADMINISTRATIVE CONTROL • SET POINT • PROCEDURES AND MANUALS

101101

STANDBY GAS TREATMENT SYSTEM FAILS TO START AT MATCH 1
GEORGIA POWER COMPANY

2 PAGES, LETTER WITH AD 75-37 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, MAY 7, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - BROKEN SWITCH. WHILE INVESTIGATING A PROBLEM WITH AN ALARM CIRCUIT, AN AUTO START SIGNAL TO STANDBY GAS TREATMENT TRAIN A WAS INITIATED. THE SYSTEM FAILED TO START. THE GE TYPE 500 SWITCH CONTACT FAILED TO CLOSE WHEN THE SWITCH WAS PLACED IN AUTO. A PART OF THE CONTACT WHICH MAINTAINS THE CONTACT WAS BROKEN. THE CONTACT WAS REPLACED WITH A NEW ONE OF THE SAME TYPE. THE REACTOR WAS AT 40% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • STANDBY GAS TREATMENT • FAILURE, COMPONENT • INSTRUMENT, SWITCH

103067

ALL TESTS ON RPV PRESSURE SWITCHES NOT PERFORMED AT MATCH 1
GEORGIA POWER COMPANY

3 PAGES, LETTER WITH AD 75-38 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, MAY 12, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - PROCEDURAL DEFICIENCY. WHILE THE UNIT WAS OPERATING AT 54% POWER, IT WAS FOUND THAT PART OF THE FUNCTIONAL TEST PROCEDURE FOR RPV PRESSURE SWITCHES HAD NOT BEEN PERFORMED. THE REQUIREMENT IS TO PERFORM RPV LEVEL AND OBSERVE THAT THE LEVEL SWITCHES TRACK THE PERTURBATION. THIS REQUIREMENT WAS INADVERTENTLY NOT INCLUDED IN THE TEST PROCEDURES. PROCEDURES WERE MODIFIED TO INCLUDE THIS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • TESTING • INSTRUMENT, SWITCH • SENSORS, LEVEL • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • PRESSURE VESSELS • REACTOR SAFETY SYSTEM

103135

SET POINT DRIFT IN TEMPERATURE SWITCH AT MATCH 1
GEORGIA POWER COMPANY

2 PAGES, LETTER WITH AD 75-39 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, MAY 21, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - INSTRUMENT DRIFT. DURING TESTS ON RPV ROOM DIFFERENTIAL TEMPERATURE SWITCHES WITH THE REACTOR AT 75% POWER, A SWITCH TRIPPED AT 135 F INSTEAD OF THE 100 F LIMIT. THE TRANSMISSION MODEL 030 WT SWITCH SET POINT HAD DRIFTED ABOVE THE LIMIT. NO DAMAGE WAS OBSERVED ON THE SWITCH. AFTER IT WAS RESET, THE SWITCH WAS SUCCESSFULLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

103125 *CONTINUED*
CHARGE \$2.00

MATCH 1 (BURN) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, TEMPERATURE * FAILURE, INSTRUMENT *
*SET POINT * *OMITT * TEST, SYSTEM OPERABILITY

103126
MAIN STEAM ISOLATION VALVE FAILS TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES, LETTER WITH ACR 75-43 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, MAY 22, 1975, DOCKET 50-321,
TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - SOLENOID VALVE STICKING. DURING AN ATTEMPT TO CLOSE THE MAIN STEAM LINE ISOLATION
VALVES, ONE FAILED TO CLOSE USING ITS CONTROL SWITCH. AN AVCO MODEL 443012 SOLENOID OPERATED
VALVE DID NOT SEAL PROPERLY AND PREVENTED AIR FROM BLEEDING OFF THE 451V OPERATING SOLENOID.
THE PLUNGERS IN BOTH THE AC AND DC SOLENOIDS WERE REPLACED WITH REPAIR KIT PARTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

MATCH 1 (BURN) * VALVES * MAIN COOLING SYSTEM * STEAM * FAILURE, COMPONENT * SOLENOID * CONTAINMENT ISOLATION

103475
SECONDARY CONTAINMENT INTEGRITY VIOLATED AT MATCH 1
GEORGIA POWER COMPANY, DALEY
3 PAGES, LETTER WITH ACR 75-41 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, MAY 28, 1975,
DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - BLOWOUT PANEL OPENED. DURING NORMAL OPERATION AT 70% POWER, AN ALARM WAS RECEIVED
INDICATING VIOLATION OF SECONDARY INTEGRITY. A REACTOR BUILDING ROOF BLOWOUT PANEL HAD OPENED.
THE DEFUELING FLOW WAS ISOLATED FROM THE REST OF THE REACTOR BUILDING. A LINK OF CHAIN IN THE
ACTUATING MECHANISM BROKE ALLOWING COMPRESSED AIR TO ENTER THE BLOWOUT PANEL OPENING PISTONS.
THE CHAIN WAS REPLACED AND THE PANEL RECLOSED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

MATCH 1 (BURN) * CONTAINMENT INTEGRITY * *CONTAINMENT * *PRESSURE RELIEF * FAILURE, COMPONENT * CONTROL SYSTEM
* FAILURE, DESIGN ERROR

103453
TORUS VACUUM BREAKER FAILS TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH ACR 75-42 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JUNE 6, 1975, DOCKET 50-
321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - UNKNOWN. WHILE TESTING THE TORUS-VAC VACUUM BREAKERS WITH THE REACTOR OPERATING AT 80%
POWER, A CLOSE INDICATION LIGHT ON A VACUUM BREAKER FAILED TO COME ON WHEN THE VB WAS CLOSED.
THE VB WAS CYCLED SEVERAL TIMES UNTIL THE LIGHT CAME ON. SINCE PRIMARY CONTAINMENT WAS REQUIRED,
THE TORUS COULD NOT BE ENTERED FOR INSPECTION. ENTRY WILL BE MADE DURING A FUTURE SHUTDOWN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

MATCH 1 (BURN) * INDICATORS * *CONTAINMENT VACUUM BREAKER * TORUS * CONTAINMENT * TEST, SYSTEM OPERABILITY *
FAILURE, EQUIPMENT

103454
PRESSURE SWITCH SET ABOVE LIMITS AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH ACR 75-43 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JUNE 6, 1975, DOCKET 50-
321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - MISINTERPRETATION OF PROCEDURES. DURING TESTING WITH THE REACTOR AT 82% POWER, THE
TURBINE FIRST STAGE PERMISSIVE SWITCHES WERE FOUND TO BE SET ABOVE THE LIMIT. THE INSTRUMENT
TECHNICIAN HAD MISINTERPRETED THE PROCEDURES AND SET THE SWITCHES TOO HIGH. THEY WERE RESET.
PROCEDURES WERE REVISED TO CLARIFY THE SET POINT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

MATCH 1 (BURN) * *SET POINT * *INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * *FAILURE,
MAINTENANCE ERP R * COMMUNICATION * PROCEDURES AND MANUALS * TURBINE

103455
SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT MATCH 1
GEORGIA POWER COMPANY

103055 CONTINUED

2 PAGES. LETTER WITH AOR 75-44 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JUNE 6, 1975, DOCKET 90-321, TYPE-DNR, NRC-G.E., AE-SS1

CAUSE - INSTRUMENT DRIFT. DURING TESTING ON A RECIC STEAMLINE BP SWITCH WITH THE REACTOR AT 82% POWER, THE SWITCH ACTUATED AT 200 IN. WATER INSTEAD OF THE 190 IN. LIMIT. THE BARTON MODEL 200A BP SWITCH WAS RESET. THE CAUSE WAS INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • INSTRUMENT • SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • RESET POINT • DRIFT • CONTAINMENT ISOLATION • COOLING

103094

INDICATED HIGH SULPHUR IN FUEL OIL AT MATCH 1

GEORGIA POWER COMPANY

3 PAGES. LETTER WITH AOR 75-45 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JUNE 20, 1975, DOCKET 90-321, TYPE-DNR, NRC-G.E., AE-SS1

CAUSE - OIL SAMPLE. ANALYSIS OF A FUEL OIL SAMPLE TAKEN FROM 1 OF 5 DIESEL GENERATOR STORAGE TANKS INDICATED A SULPHUR CONTENT OF 3.37% WHICH EXCEEDS THE 0.5% LIMIT. A DUPLICATE SAMPLE WAS TAKEN AND ANALYZED. RESULTS INDICATED THAT THE SULPHUR CONTENT WAS LESS THAN 1%. APPARENTLY A OIL SAMPLE WAS TAKEN AT FIRST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • COMPOSITION • CONCENTRATION • FUEL, FOSSIL • GENERATOR, DIESEL • CHEMICAL ANALYSIS • SULPHUR

103071

MAIN STEAM ISOLATION VALVE FAILS TO CLOSE AT MATCH 1

GEORGIA POWER COMPANY

3 PAGES. LETTER WITH AOR 75-46 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JUNE 25, 1975, DOCKET 90-321, TYPE-DNR, NRC-G.E., AE-SS1

CAUSE - DIRT IN SOLENOID VALVE. FOLLOWING A REACTOR SHUTDOWN, A MAIN STEAM ISOLATION VALVE FAILED TO CLOSE ON SIGNAL. WHEN THE TEST PUSH BUTTON WAS DEPRESSED, THE VALVE CLOSED INDICATING THAT THERE WAS NO PROBLEM WITH THE MSIV ITSELF. AN AUTOMATIC VALVE CORP. MODEL 443012 SOLENOID OPERATED VALVE FAILED TO FUNCTION PROPERLY. ONE PLUNGER DID NOT SEAT PROPERLY PREVENTING AIR FROM BLEEDING OFF THE MSIV. THE SOLENOID PLUNGER SEAT REVEALED A BUILDUP OF SOME DEBRIS. THE SEAT WAS CLEANED AND THE PLUNGER REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • VALVES • CONTAINMENT ISOLATION • MAIN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • SOLENOID • PNEUMATIC SYSTEM • CAUD • STEAM

104055

SECONDARY CONTAINMENT INTEGRITY VIOLATED AT MATCH 1

GEORGIA POWER COMPANY

3 PAGES. LETTER WITH AOR 75-48 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JULY 2, 1975, DOCKET 90-321, TYPE-DNR, NRC-G.E., AE-SS1

CAUSE - DOOR LEFT OPEN. DURING AN INSPECTION WHILE OPERATING AT 79% POWER, THE EQUIPMENT DOOR TO THE REACTOR BUILDING VENTILATION SUPPLY FAN ROOM WAS FOUND OPEN. THE OPENING CREATED A VIOLATION OF SECONDARY CONTAINMENT. THE DOOR WAS CLOSED. INVESTIGATION DID NOT REVEAL A CAUSE FOR THE DOOR BEING OPEN. A HASP AND PADLOCK WERE INSTALLED ON THE DOOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • SURVEILLANCE PROGRAM • BUILDING • CONTAINMENT INTEGRITY

104056

REFUELLING FLOOR CONTAINMENT INTEGRITY VIOLATED AT MATCH 1

GEORGIA POWER COMPANY

3 PAGES. LETTER WITH AOR 75-49 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, JULY 2, 1975, DOCKET 90-321, TYPE-DNR, NRC-G.E., AE-SS1

CAUSE - BLOWOUT PANEL OPENED. WHILE THE REACTOR WAS OPERATING AT 79% POWER, THE CONTROL ROOM ANNUNCIATOR MONITORING THE REFUELLING FLOOR BLOWOUT PANELS ALARMED INDICATING A VIOLATION OF SECONDARY CONTAINMENT INTEGRITY. THE REFUELLING FLOOR WAS ISOLATED FROM THE REST OF THE REACTOR BUILDING AT THIS TIME. A BOWEN MFG. CO. TORNAID RELIEF VENT AND SHORE MATCH OPENED WHEN A LINK OF CHAIN IN THE ACTUATING MECHANISM BROKE ALLOWING COMPRESSED AIR TO ENTER THE OPERATING PISTONS. THE CHAIN WAS REPLACED WITH A CABLE AND THE BLOWOUT PANEL RECLOSED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

104096 (CONTINUED)
(CHARGE 02.00)

CONTAINMENT INTEGRITY • DRAINING • DEFUELING • FAILURE, EQUIPMENT • OPRESSURE RELIEF • MATCH 1 (000)

104097
SURE AOR COMMITMENTS NOT COMPLETED AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES, LETTER WITH AOR 75-50 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 2, 1975, DOCKET 50-321, TYPE--DNR, NPG--G.E., AE--SS1

CAUSE - SHIRT SUPERVISOR ERROR. A REVIEW OF STANDING ORDERS REVEALED THAT SOME AOR COMMITMENTS WERE NOT COMPLETED. THEY WERE MAINLY IN THE AREA OF INSTRUMENT FUNCTIONAL TESTS. THE SHIRT SUPERVISOR IS RESPONSIBLE FOR COMPLETING STANDING ORDERS. A MEMORANDUM WAS SENT TO EACH REMINDING HIM OF HIS RESPONSIBILITY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.00

MATCH 1 (000) • TEST INTERVAL • TESTING • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS

104298
DIESEL GENERATOR BEARING FAILS AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AOR 75-51 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 7, 1975, DOCKET 50-321, TYPE--DNR, NPG--G.E., AE--SS1

CAUSE - OVERHEATING. DURING REACTOR OPERATION AT THE POWER, DIESEL GENERATOR 1B WAS DISCOVERED TO HAVE A DAMAGED IMBARD BEARING FOLLOWING ROUTINE TESTING. BEARING FAILURE WAS DUE TO EXPANSION CAUSED BY OVERHEATING. THE DEFECTIVE BEARING WAS SENT TO THE VENDOR FOR STUDY AS TO THE CAUSE OF OVERHEATING. A NEW BEARING WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.00

MATCH 1 (000) • BEARING • GENERATOR, DIESEL • ENGINE, INTERNAL COMBUSTION • EMERGENCY POWER, ELECTRIC • FAILURE, EQUIPMENT • TEST, SYSTEM OPERABILITY • THERMAL MECHANICAL EFFECT • HIGH TEMPERATURE

104299
DRYWELL HI/LO PRESSURE ALARM RECEIVED AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES, LETTER WITH AOR 75-52 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 8, 1975, DOCKET 50-321, TYPE--DNR, NPG--G.E., AE--SS1

CAUSE - CONDENSATE IN SENSING LINES. WHILE INVESTIGATING THE CAUSE OF DRYWELL HI/LO PRESSURE ALARM WITH THE UNIT AT ONE POWER, THE SENSING LINES TO THE DW RPS AND ECCS PRESSURE SWITCHES WERE FOUND TO CONTAIN CONDENSATE FROM THE DW ATMOSPHERE. CONDENSATION FORMED DUE TO TEMPERATURE DIFFERENCE BETWEEN DW INTERIOR AND THE LOCATION OF THE SENSING LINES OUTSIDE THE DW. THE LINES WERE BLOWN OUT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.00

MATCH 1 (000) • SENSORS, PRESSURE • CONTAINMENT • INSTRUMENT, ABNORMAL INDICATION • WATER • TUBING • FAILURE, DESIGN ERROR • REACTOR SAFETY SYSTEM

104002
PRESSURE SWITCH SENSING LINES CONTAIN WATER AT MATCH 1
GEORGIA POWER COMPANY, BARLEY
3 PGS, LTR N/AOR 75-52 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 8, 1975, DOCKET 50-321, TYPE--DNR, NPG--G.E., AE--SS1

CAUSE - DESIGN DEFICIENCY. WHILE INVESTIGATING THE CAUSE OF DRYWELL HI/LO PRESSURE ALARM, THE SENSING LINES TO THE DRYWELL RPS AND ECCS PRESSURE SWITCHES WERE FOUND TO CONTAIN CONDENSATE. CONDENSATE WAS FORMED DUE TO TEMPERATURE DIFFERENCE BETWEEN DW INTERIOR AND THE LOCATION OF THE SENSING LINES. THE LINES WERE BLOWN OUT. THEY MAY BE REROUTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.00

MATCH 1 (000) • INSTRUMENT, ABNORMAL INDICATION • SENSORS, PRESSURE • CONTAINMENT • CONDENSATION • TUBING • FAILURE, DESIGN ERROR • ANNUNCIATORS

104300
RHR PUMP AIR CIRCUIT BREAKER FAILS TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH AOR 75-53 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 9, 1975, DOCKET 50-321,

104320 CONTINUED
TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - LATCHING MECHANISM SLIPPED. WITH THE REACTOR AT THE POWER, THE BWR PUMP AIR CIRCUIT SHEARED OFF TO CLOSE DURING TESTING. IT WAS REPLACED WITH A SPARE. THE CAM WHICH OPERATED THE LATCHING MECHANISM SLIPPED PREVENTING THE LATCHING MECHANISM FROM WORKING. THE FAULTY COMPONENT WAS REPLACED.

AVAILABILITY - ENCL PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • PNEUMATIC • PUMPS • SHUTDOWN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT

104321
REACTOR BUILDING MONITOR PLUMB INOPERABLE AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH ACR 75-54 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 9, 1975, DOCKET 50-321.
TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - LOOSE CONNECTIONS. RHM CHANNEL A WAS DECLARED INOPERABLE AND REMAINED SO FOR 24 HOURS EXCEEDING THE TIME LIMIT. DURING THIS PERIOD THERE WAS NO CONTROL ROD MOVEMENT EXCEPT THE REQUIRED WEALTHY EXERCISE. FIVE LOOSE CONNECTIONS WERE FOUND. THE CONNECTIONS WERE REPAIRED AND THE CHANNEL DECLARED OPERABLE. THE REACTOR WAS AT THE POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • RADIATION MONITORS • BUILDING • MONITORING SYSTEM, RADIATION • CABLES AND CONNECTORS • FAILURE, MAINTENANCE ERROR

104322
RCIC TURBINE SPEED FAILS TO CONTROL PROPERLY AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES, LETTER WITH ACR 75-55 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 9, 1975, DOCKET 50-321.
TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - WORN GEARS AND BUSHINGS. DURING PLANT SHUTDOWN TO HOT STANDBY, RCIC TURBINE SPEED WOULD NOT EXCEED 1000 RPM ON A MANUAL START. DIRTY CONTACTS WERE FOUND IN A TURBINE SPEED CONTROL CIRCUIT SWITCH. THE TURBINE SPIRAL DRIVING GEAR AND SPIRAL DRIVEN GEAR AND THE UPPER AND LOWER BUSHINGS WERE FOUND TO BE WORN. THE GEARS AND BUSHINGS WERE REPLACED WITH NEW COMPONENTS. THE CONTROL SWITCH WAS CLEANED. THE TURBINE WAS TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • TURBINE • CONTAINMENT ISOLATION • COOLING • TEST, SYSTEM OPERABILITY • BEARING • INSTRUMENT, SWITCH • FAILURE, MAINTENANCE ERROR

104323
MAIN STEAM ISOLATION VALVES FAIL TO CLOSE AT MATCH 1
GEORGIA POWER COMPANY
3 PAGES, LETTER WITH ACR 75-56 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 9, 1975, DOCKET 50-321.
TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - SOLENOID MALFUNCTION. FOLLOWING A REACTOR SHUTDOWN TO HOT STANDBY, 3 MSIV'S FAILED TO CLOSE WHEN THE CONTROL SWITCHES WERE ACTUATED. AUTOMATIC VALVE COMP. MODEL 443B12 SOLENOID VALVES WERE REPLACED WITH NEW ONES. AIR FILTERS TO EACH MSIV WERE CLEANED. SOME DEBRIS AND OIL WAS REMOVED. PLUNGERS IN ANOTHER VALVE HAVE BEEN REPLACED. THE FINAL 2 VALVES WILL BE CHANGED WHEN REPLACEMENT PLUNGERS ARE AVAILABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • VALVES • CONTAINMENT ISOLATION • MAIN COOLING SYSTEM • STEAM • FAILURE, COMPONENT • SOLENOID • FAILURE, DESIGN ERROR

104324
SAFETY/RELIEF VALVE BELLWIS ALARM ACTUATED AT MATCH 1
GEORGIA POWER COMPANY
2 PAGES, LETTER WITH ACR 75-57 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 9, 1975, DOCKET 50-321.
TYPE--BWR, NRG--G.E., AE--SSI

CAUSE - DEFECTIVE PRESSURE SENSOR. A SAFETY/RELIEF VALVE BELLWIS ALARM LIGHT ILLUMINATED AND AT THE SAME TIME ANOTHER ALARM CIRCUIT WAS KNOWN TO BE FAILED. A PLANT SHUTDOWN FROM 52% POWER WAS COMMENCED. A PRESSURE CONTROL INC. PRESSURE SENSOR, PART NO. A17-1, FAILED INDICATING A BELLWIS FAILURE. THE PRESSURE SENSOR WAS REPLACED. THE OTHER ALARM CIRCUIT WAS REPAIRED BY REPLACING THE BURNED AMPHENOL CONNECTOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

106304 CONTINUED
CHARGE \$2.00

MATCH 1 (BWR) • ANNUNCIATIONS • SEAL • VALVES • PRESSURE RELIEF • MAIN COOLING SYSTEM • SENSORS, PRESSURE • CABLES AND CONNECTORS • FAILURE, COMPONENT • REACTOR SHUTDOWN

106493
MPCI SYSTEM INJECTION VALVE FAILS TO OPEN AT MATCH 1
GEORGIA POWER COMPANY, BAXLEY
3 PGS, LTR W/NOIR 75-50 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 24, 1975, DOCKET 50-321, TYPE--
BWR, MFG--G.E., AE--SSI

CAUSE - UNKNOWN. FOLLOWING A REACTOR FEEDWATER PUMP TRIP AND MANUAL SCRAM, THE MPCI SYSTEM AUTO INITIATED ON LOW REACTOR LEVEL. AN INJECTION VALVE FAILED TO OPEN AUTOMATICALLY. IT WAS OPENED BY THE OPERATOR USING THE CONTROL SWITCH. IT IS POSSIBLE THAT THE VALVE WAS NOT GIVEN ENOUGH TIME TO OPEN AUTOMATICALLY. TESTS INDICATE THAT A 7 SECOND INTERVAL EXISTS BEFORE THE VALVE BEGINS TO OPEN FOLLOWING MPCI AUTO INITIATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • VALVES • MPCI • RESPONSE TIME • FAILURE, EQUIPMENT • OPERATION ACTION

106494
MPCI TURBINE TRIPS ON OVERSPEED AT MATCH 1
GEORGIA POWER COMPANY, BAXLEY
3 PGS, LTR W/NOIR 75-50 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 24, 1975, DOCKET 50-321, TYPE--
BWR, MFG--G.E., AE--SSI

CAUSE - UNKNOWN. FOLLOWING A REACTOR FEEDWATER PUMP TRIP AND MANUAL SCRAM, THE P.I.C. SYSTEM AUTO INITIATED ON LOW REACTOR LEVEL. THE TURBINE THEN TRIPPED FROM MECHANICAL OVERSPEED. THE TURBINE ELECTRICAL OVERSPEED INSTRUMENTATION CONTAINED SOME MALFUNCTIONING TRANSISTORS WHICH WERE REPLACED. NORMALLY THE TURBINE WOULD TRIP FROM ELECTRIC OVERSPEED BEFORE MECHANICAL OVERSPEED BECAUSE IT HAS A LOWER SET POINT. THE EXACT CAUSE IS UNKNOWN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • TURBINE • CONTAINMENT ISOLATION • COOLING • FAILURE, EQUIPMENT • INSTRUMENT, PROTECTIVE • ELECTRONIC FUNCTION UNITS

106495
LEVEL SWITCH FAILS TO RESET AT MATCH 1
GEORGIA POWER COMPANY, BAXLEY
3 PGS, LTR W/NOIR 75-50 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, JULY 24, 1975, DOCKET 50-321, TYPE--BWR,
MFG--G.E., AE--SSI

CAUSE - BINDING ACTUATOR. DURING TESTING WHILE THE REACTOR WAS AT 62% POWER, THE RCIC HIGH RPV LEVEL TRIP SWITCH FAILED TO RESET ON SIMULATED RPV LEVEL DECREASE. THE ACTUATOR WAS BINDING. THE SWITCH WAS REPAIRED AND TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • INSTRUMENT, SWITCH • SENSORS, LEVEL • CONTAINMENT ISOLATION • COOLING • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR

106496
MPCI STEAM LINE ISOLATION VALVE FAILS TO CLOSE AT MATCH 1
GEORGIA POWER CO., BAXLEY
3 PAGES, LETTER WITH AWR REPORT 75-61 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, AUG. 1, 1975, DOCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - MOTOR FAILURE. DURING TESTS ON THE MPCI STEAM LINE PRESSURE SWITCHES WHICH ISOLATE THE LINE ON LOW PRESSURE, MPCI STEAM LINE OUTBOARD ISOLATION VALVE STARTED TO CLOSE BUT ITS ACTUATOR TRIPPED. THE MPCI VALVES OVERLOAD ANNUNCIATION ALARMED PRIOR TO ACTUATOR TRIPPING. THE VALVE WAS INADVERTENTLY CLOSED WHEN A TECHNICIAN ATTEMPTED TO PLACE A JUMPER REQUIRED FOR TESTING. INSPECTION REVEALED NO REASON FOR MOTOR FAILURE. THE MOTOR WAS REMOVED AND REINSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) • VALVES • CONTAINMENT ISOLATION • MPCI • VALVE OPERATORS • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

106817
ALL ADS VALVES OPENED INADVERTENTLY AT MATCH 1

104917 CONTINUOUS
 GEORGIA POWER COMPANY, BARLEY
 20 PGS. LTR W/ADM 75-62 TO NRC DIR. OF REG. OPER., AUG. 8, 1975. DCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - IMPROPER USE OF A PROCEDURE. WHILE TESTING THE ADS SYSTEM BECAUSE MPC1 WAS INOPERABLE WITH THE REACTOR AT 84% POWER, ALL 7 ADS VALVES WERE OPENED INADVERTENTLY AND REMAINED OPEN FOR 90 SECONDS. RPV PRESSURE DECREASED RAPIDLY. THE MSIV'S CLOSED AND THE REACTOR SCRAMMED. THIS RESULTED FROM THE IMPROPER USE OF A PROCEDURE. THE PROCEDURE WAS WRITTEN TO BE USED WITH THE PLANT SHUTDOWN. NO DAMAGE WAS OBSERVED IN THE DAYWELL OR TORUS. TEMPERATURES COOLED AT GREATER THAN 120 F/HR AT A FEW LOCATIONS. DAYWELL PRESSURE REMAINED LESS THAN 1 PSIG.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) + PULMONARY + PRESSURE TRANSIENT + FAILURE, OPERATOR ERROR + PROCEDURES AND MANUALS + TEST, SYSTEM OPERABILITY + VALVES + PRESSURE RELIEF + MAIN COOLING SYSTEM + STEAM + REACTOR SHUTDOWN + SCRAM, REAL

104946
 SET POINT DRIFT IN PRESSURE SWITCHES AT MATCH 1
 GEORGIA POWER CO., BARLEY
 2 PAGES, LETTER WITH AD REPORT 75-63 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, AUG. 8, 1975. DCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - INSTRUMENT DRIFT. WHILE PERFORMING SURVEILLANCE ON RPV PRESSURE SWITCH FOR A STARTUP, 2 DAYWELL PRESSURE SWITCHES OPERATED ABOVE THE LIMIT. BOTH WERE RESET. THE CAUSE WAS INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + REACTOR SAFETY SYSTEM

104947
 LEVEL SWITCH FAILS TO OPERATE AT MATCH 1
 GEORGIA POWER CO., BARLEY
 2 PAGES, LETTER WITH AD REPORT 75-64 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, AUG. 8, 1975. DCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - LOOSENING OF SWITCHING STATION MOUNT. DURING TESTING WITH THE REACTOR AT 56% POWER, TORUS LEVEL SWITCH 441-1015A FAILED TO ACTUATE AND COULD NOT BE ADJUSTED TO ACTUATE. LOOSENING OF THE SWITCHING STATION MOUNT HAD RENDERED IT INOPERABLE. REPAIRS WILL BE MADE AS SOON AS POSSIBLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, LEVEL + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + TORUS

104948
 PH AND TEMPERATURE OF EFFLUENT NOT MEASURED AT MATCH 1
 GEORGIA POWER CO., BARLEY
 2 PAGES, LETTER WITH AD REPORT 75-65 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, AUG. 8, 1975. DCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - INADEQUATE COVERAGE BY PERSONNEL. IT WAS DISCOVERED THAT, DURING THE PREVIOUS 24 HOURS, SAMPLE ANALYSIS OF PH AND TEMPERATURE OF WATER DISCHARGED TO THE ALTAMAHA RIVER WERE NOT TAKEN. THE DISCHARGE SAMPLE PUMP WAS INOPERABLE. THIS WAS CAUSED BY INADEQUATE COVERAGE OF THE SITUATION BY PLANT PERSONNEL. THE REACTOR WAS OPERATING AT 56% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) + WATER QUALITY + EFFLUENT + CONDENSER COOLING SYSTEM + TEST INTERVAL + TEMPERATURE + FAILURE, OPERATOR ERROR + FAILURE, EQUIPMENT

104949
 TEMPERATURE OF EFFLUENT NOT TAKEN AT MATCH 1
 GEORGIA POWER CO., BARLEY
 2 PAGES, LETTER WITH AD REPORT 75-66 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, AUG. 8, 1975. DCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - INADEQUATE COVERAGE BY PERSONNEL. A REQUIRED SAMPLE ANALYSIS OF THE TEMPERATURE OF WATER DISCHARGED TO THE ALTAMAHA RIVER WAS NOT TAKEN. THE NORMAL DISCHARGE SAMPLE PUMP WAS INOPERABLE. THIS SITUATION WAS NOT ADEQUATELY COVERED BY PLANT PERSONNEL. THE REACTOR WAS OPERATING AT 56% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

104949 *CONTINUED*
 MATCH 1 (DNR) • TEMPERATURE • EFFLUENT • CONDENSER COOLING SYSTEM • WATER QUALITY • FAILURE, OPERATOR ERROR
 • FAILURE, EQUIPMENT • TEST INTERVAL

104950
 TEMPERATURE ON WATER DISCHARGE NOT TAKEN AT MATCH 1
 GEORGIA POWER CO., BAXLEY
 2 PAGES, LETTER WITH AD REPORT 75-67 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, AUG. 4, 1975.
 DOCKET 50-321, TYPE—DNR, MFG—G.E., AE—SSI

CAUSE - INADEQUATE COVERAGE BY PERSONNEL. A REQUIRED TEMPERATURE ANALYSIS OF WATER DISCHARGED TO THE ALTAHAMA RIVER WAS NOT TAKEN. THE NORMAL DISCHARGE SAMPLE PUMP WAS INOPERABLE. THIS SITUATION WAS NOT ADEQUATELY COVERED BY PLANT PERSONNEL. THE REACTOR WAS OPERATING AT 67% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • TEMPERATURE • EFFLUENT • CONDENSER COOLING SYSTEM • WATER QUALITY • FAILURE, OPERATOR ERROR
 • FAILURE, EQUIPMENT • TEST INTERVAL

105175
 SET POINT DRIFT ON TORUS LEVEL SWITCH AT MATCH 1
 GEORGIA POWER COMPANY, BAXLEY
 2 PGS, LTR W/ADR 75-68 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, AUG. 21, 1975. DOCKET 50-321, TYPE—DNR, MFG—G.E., AE—SSI

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 25% POWER, A TORUS LEVEL SWITCH FAILED TO OPERATE. THIS SWITCH TRANSFERS MPC1 Suction FROM THE CONDENSATE STORAGE TANK TO THE TORUS ON TORUS HIGH LEVEL. THE ROBERTSHAW LEVEL SWITCH, NO. 87041-AB, HAD DRIFTED ABOVE THE INSTRUMENT RANGE. IT WAS ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, LEVEL • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • TORUS • EMERGENCY COOLING SYSTEM

105176
 STACK SAMPLE PUMP FAILS AT MATCH 1
 GEORGIA POWER COMPANY, BAXLEY
 3 PGS, LTR W/ADR 75-69 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, AUG. 21, 1975. DOCKET 50-321, TYPE—DNR, MFG—G.E., AE—SSI

CAUSE - CARBON VANES DISINTEGRATED. WHILE THE REACTOR WAS OPERATING AT 60% POWER, THE STACK SAMPLE PUMP FAILED. WHEN THE AUXILIARY PUMP WAS SWITCHED ON, IT WAS ALSO FOUND TO BE INOPERABLE. A SPARE PUMP WAS IMMEDIATELY INSTALLED. THE DOERR ELECTRIC CORP., MODEL NO. 027 VIII G2724 PUMP FAILURE WAS CAUSED BY CARBON VANES IN THE PUMP DISINTEGRATING. IT IS FELT THAT THE AUXILIARY PUMP HAD PREVIOUSLY DRIVEN DURING OPERATION AND WAS NOT REPAIRED. PROCEDURAL CHANGES WILL BE MADE TO INSURE THAT A FAILED PUMP IS REPAIRED AT ONCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • PUMPS • MONITOR, STACK • MONITORING SYSTEM, RADIATION • FAILURE, CYCLOP MODE • FAILURE, MAINTENANCE ERROR • FAILURE, DESIGN ERROR • MATERIAL

105510
 PRESSURE DIFFERENTIAL SWITCH FOUND VALVED OUT OF SERVICE AT MATCH 1
 GEORGIA POWER COMPANY, BAXLEY
 3 PGS, LTR W/ADR 75-70 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, SEPT. 4, 1975. DOCKET 50-321, TYPE—DNR, MFG—G.E., AE—SSI

CAUSE - FAILURE TO FOLLOW PROCEDURES. WHILE TESTING REACTOR OUTGOING TO TORUS DIFFERENTIAL PRESSURE SWITCHES, THE ISOLATION VALVE FOR ONE SWITCH WAS FOUND CLOSED AND THE TEST VALVE OPEN. A REVIEW OF THE LATEST TEST DATA SHEET REVEALED THE SWITCH PROPERLY RETURNED TO SERVICE AS INDICATED BY THE TECHNICIANS INITIALS. SINCE THERE HAVE BEEN NO MAINTENANCE ACTIVITIES ON THE SWITCH, IT WAS CONCLUDED THAT IT HAD NOT BEEN PROPERLY RETURNED TO SERVICE. THE TECHNICIAN WAS TOLD TO FOLLOW PROCEDURES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DNR) • INSTRUMENT, SWITCH • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, OPERATOR ERROR
 • VALVES • CONTAINMENT VACUUM BREAKER • PROCEDURES AND MANUALS

105911
 PRESSURE SWITCH CAPILLARY TUBING FOUND PLUGGED AT MATCH 1

105511 CONTINUED

GEORGIA POWER COMPANY, HAYLEY

2 PGS. LTR W/AD 75-71 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 2, SEPT. 4, 1975, DOCKET 50-321, TYPE--
BWR, MFG--G.E., AE--SSI

CAUSE - DESIGN ERROR. WHILE TESTING THE TURBINE SV AND CV CLOSURE SCRAM AUTO BYPASS PRESSURE SWITCHES WITH THE REACTOR AT 97% POWER, THE 1/8 INCH CAPILLARY TUBING FOR ONE SWITCH WAS FOUND PLUNGED. THIS WOULD PREVENT THE SWITCH FROM DEPRESSURIZING AND BYPASSING THE SCRAM. THIS TUBING CONNECTS THE INSTRUMENT TO ITS SENSING LINE. A LARGER SIZE TUBING WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM OPERABILITY * FAILURE, DESIGN ERROR * TUBING * CRUD * FAILURE, INSTRUMENT * TURBINE

106439

VACUUM BREAKER INDICATING SWITCH STICKS AT MATCH 1

GEORGIA POWER CO., GEORGIA

3 PGS. LTR W/AD 50-321/1975/72 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, SEPT. 9, 1975, DOCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - UNKNOWN. DURING TESTING ON THE TORUS DRYWELL VACUUM BREAKERS WITH THE REACTOR AT 99% POWER, 1 OF 2 CLOSE INDICATION LIGHTS ON A VACUUM BREAKER REMAINED ILLUMINATED WHEN THE VACUUM BREAKER WAS OPENED. THE VALVE POSITION INDICATING SWITCH WAS STUCK IN THE CLOSE POSITION. THE VALVE WAS SERVICED DAILY AND BEGAN INDICATING CORRECTLY. THE SWITCH WILL BE INSPECTED AND REPAIRED DURING THE NEXT PLANNED OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * INDICATORS * INSTRUMENT, SWITCH * INSTRUMENT, POSITION * CONTAINMENT VACUUM BREAKER * TEST, SYSTEM OPERABILITY * TORUS * CONTAINMENT * FAILURE, INSTRUMENT

106363

RCIC TURBINE TRIP FAILED TO INITIATE WHEN REQUIRED AT MATCH 1

GEORGIA POWER CO., GEORGIA

2 PGS. LTR W/AD 75-73 TO NRC DIRECTORATE OF REGULATION OPERATIONS REGION II, SEPT. 15, 1975, DOCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - SOLENOID LATCHING MECHANISM FAILED. DURING TESTING OF THE RCIC STEAM LINE HIGH FLOW INSTRUMENTATION WITH THE REACTOR AT 65% POWER, A RCIC TURBINE TRIP WAS NOT INITIATED WHEN A RCIC STEAM LINE ISOLATION VALVE WAS CLOSED. THE TURBINE WAS NOT OPERATING AT THIS TIME. A PHILADELPHIA WEAH COMP., TYPE SMD, SOLENOID LATCHING MECHANISM FAILED TO OPERATE THE TURBINE TRIP AND THROTTLE VALVE BECAUSE THE ACTUATING PISTON STUCK. THE PISTON WAS LUBRICATED AND THE TURBINE TRIP AND THROTTLE VALVE OPERATED SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * CONTAINMENT ISOLATION * COOLING * TURBINE * INSTRUMENT, SWITCH * SOLENOID * TEST, SYSTEM OPERABILITY * LUBRICATION * FAILURE, MAINTENANCE ERROR * RCIC

106364

RCIC TURBINE TRIPS ON OVERSPEED AT MATCH 1

GEORGIA POWER CO., GEORGIA

2 PGS. LTR W/AD 75-74 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, SEPT. 15, 1975, DOCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - NOT STATED. DURING A FUNCTIONAL TEST ON THE RCIC TURBINE WITH THE REACTOR AT 86% POWER, THE TURBINE TRIPPED ON OVERSPEED. THIS IS NOT THE FIRST OCCURRENCE OF THIS TYPE. A RCIC OPERABILITY TEST WAS SUCCESSFULLY PERFORMED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * TURBINE * RCIC * TEST, SYSTEM OPERABILITY * INSTRUMENT, PROTECTIVE

106440

SET POINT DRIFT IN LEVEL SWITCH AT MATCH 1

GEORGIA POWER CO., GEORGIA

2 PGS. LTR W/AD 50-321/1975-75 TO NRC DIRECTORATE OF REGULATORY OPERATION, REGION II, SEPT. 17, 1975, DOCKET 50-321, TYPE--BWR, MFG--G.E., AE--SSI

CAUSE - UNKNOWN. DURING TESTING WITH THE REACTOR SHUT DOWN, A REACTOR PRESSURE VESSEL LEVEL SWITCH WAS FOUND TO OPERATE BELOW THE TECH SPEC LIMIT. THE YARWAY LEVEL SWITCH, MODEL 4410C, WAS RESET. INSPECTION DID NOT REVEAL A PROBLEM WITH THE SWITCH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

106440 CONTINUED
CHARGE \$2.00

MATCH 1 (8HR) • INSTRUMENT • SWITCH • INSTRUMENT CALIBRATION • SENSORS • LEVEL • TEST • SYSTEM OPERABILITY • FAILURE • INSTRUMENT • SET POINT • NOISE • REACTOR SAFETY SYSTEM

106844
TESTING OF THE TURBINE CONTROL VALVE TRIP NOT PERFORMED AT MATCH 1
GEORGIA POWER CO., GEORGIA
2 PGS. LTR W/AD 75-76 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, SEPT. 30, 1975, DOCKET 50-321.
TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - RADIATION HAZARD DURING OPERATION. WITH THE REACTOR OPERATING AT 94% POWER, SURVEILLANCE ON THE TURBINE CONTROL VALVE FAST CLOSURE SCRAM TRIP WAS NOT PERFORMED WITHIN THE SPECIFIED TIME INTERVAL. THESE TESTS CANNOT BE PERFORMED WITH THE UNIT ON-LINE BECAUSE OF A RADIATION HAZARD AND BECAUSE THE EMC MUST BE SHUTDOWN. THE SURVEILLANCE WAS PERFORMED LATER WITH THE UNIT OFF-LINE. A TECH SPEC CHANGE HAS BEEN SUBMITTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (8HR) • TEST INTERVAL • TESTING • VALVES • CONTROL • TURBINE • HIGH RADIATION • PLANT PROTECTIVE SYSTEM

106845
TESTING ON RCIC FLOW INSTRUMENTATION NOT PERFORMED AT MATCH 1
GEORGIA POWER CO., GEORGIA
2 PGS. LTR W/AD 75-77 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, SEPT. 30, 1975, DOCKET 50-321.
TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - STEAM LEAK IN RCIC ROOM. WHILE THE REACTOR WAS OPERATING AT 94% POWER, SURVEILLANCE ON THE RCIC FLOW INSTRUMENTATION WAS NOT PERFORMED WITHIN THE SPECIFIED TIME INTERVAL. THERE WAS A STEAM LEAK IN THE RCIC ROOM WHICH PRESENTED A RADIATION HAZARD AT THE TIME. AFTER THE LEAK WAS REPAIRED, SURVEILLANCE WAS PERFORMED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (8HR) • TEST INTERVAL • TESTING • SENSORS • FLOW • RCIC • STEAM • LEAK • AIRBORNE RELEASE

107437
MPCI FLOW INDICATOR READING HIGH AT MATCH 1
GEORGIA POWER CO., BARLEY
2 PGS. LTR W/AD 50-321/1975-79 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 2, OCT. 17, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - LEAK IN SENSING LINE. WHILE OPERATING AT 90% POWER, THE MPCI FLOW INDICATOR WAS READING 1700 GPM WHILE MPCI WAS SHUT DOWN. THE FLOW CONTROLLER NULLED OUT AT 1300 GPM ALSO. A LEAK HAD DAMAGED THE SENSING LINE TO THE INDICATOR. FAULTY TUBING WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (8HR) • SENSORS • FLOW • MPCI • FAILURE • INSTRUMENT • FAILURE • TUBING • LEAK • TUBING • INSTRUMENT • ABNORMAL INDICATION

107410
UNPLANNED RELEASE OF DEWATER FEED TANK TO RIVER AT MATCH 1
GEORGIA POWER CO., BARLEY, GA.
3 PGS. LTR W/AD 50-321/1975-79 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, OCT. 24, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - IMPROPER VALVE LINEUP. WHILE OPERATING AT 80% POWER, ABOUT 2700 GALLONS OF WATER FROM THE DEWATER FEED TANK WERE DISCHARGED TO THE RIVER WHILE THE PLANNED DISCHARGE WAS FROM THE CHEMICAL WASTE SAMPLE TANK ONLY. SAMPLE RESULTS INDICATED NO RELEASE LIMITS WERE EXCEEDED. A LINEUP OF THE FEED TANK WAS MADE ON THE PREVIOUS SHIFT FOR ANOTHER OPERATION. TWO ISOLATION VALVES WERE LEFT OPEN RESULTING IN THE ERROR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (8HR) • RADIOACTIVITY RELEASE • RIVER • WASTE HANDLING • STORAGE CONTAINER • CONTAINMENT ISOLATION • VALVES • WASTE DISPOSAL • DISCHARGE

107912
RADIATION MONITOR NOT TESTED ON TIME AT MATCH 1
GEORGIA POWER CO., BARLEY, GA.

107912 CONTINUED
2 PGS. LTR W/AD 50-321/1975-81 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, NOV. 4, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - ENGINEER OVERSIGHT. WHILE OPERATING AT 55% POWER, IT WAS DISCOVERED THAT THE MONTHLY TEST ON THE STACK GAS ANALYSIS MONITOR HAD NOT BEEN PERFORMED WITHIN THE GRACE PERIOD. THE ENGINEER IN CHARGE OF SURVEILLANCE OVERLOOKED IT BUT THE ENGINEER CHARGED WITH THE ENTIRE PROGRAM DETECTED THE OVERSIGHT. THE TEST WAS THEN CARRIED OUT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) - 01:50 INTERVAL - RADIATION MONITORS - MONITOR, STACK - TESTING - FAILURE, ADMINISTRATIVE CONTROL - REVIEW

107913
MPCI STEAM LINE VALVE FAILS TO OPEN AT MATCH 1
GEORGIA POWER CO., BARLEY, GA.
3 PGS. LTR W/AD 50-321/1975-80 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, NOV. 7, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - VALVE OPERATOR BURNED UP. DURING TESTING WITH THE REACTOR AT 54% POWER, THE OPERATOR WAS FOUND TRIPPED ON THE MPCI STEAM LINE ISOLATION VALVE. THE VALVE OPERATOR HAD BURNED UP. FAILURE WAS CAUSED BY A SLIPPED TERMINAL STRIP IDENTIFICATION PLATE CONTRIBUTING TO AN INCORRECT JUMPING OF SOME VALVE OPERATOR LINES. THE FAILED MOTOR WAS REPLACED. LOOSE IDENTIFICATION STRIPS IN ALL CONTROL ROOM PANELS ARE BEING CHECKED, TIGHTENED, AND GLUED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) - 0 VALVES - VALVE OPERATORS - MPCI - 0 FAILURE, INSTALLATION ERROR - CABLES AND CONNECTORS - STEAM - TEST, SYSTEM OPERABILITY - IDENTIFICATION

107915
WATER MONITORING SYSTEM FOUND INOPERABLE AT MATCH 1
GEORGIA POWER CO., BARLEY, GA.
2 PGS. LTR W/AD 50-321/1975-80 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, NOV. 14, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - PLUGGED SAMPLE LINE. DURING DAILY ROUNDS WITH THE REACTOR OPERATING AT 62% POWER, LAB PERSONNEL FOUND THE WATER MONITORING SYSTEM HAD FAILED TO MONITOR PH AND TEMPERATURE AT THE DISCHARGE STRUCTURE. THE SAMPLE LINE HAD CLOGGED DUE TO RESIDUE BUILDUP. IT WAS BLOWN CLEAN AND SAMPLE FLOW RESTORED. THE LINE WILL BE CLEANED PERIODICALLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) - MONITOR, LIQUID - 0 EFFLUENT - 0 SAMPLING - MONITOR - FLOW BLOCKAGE - CLOG - FAILURE, MAINTENANCE ERROR - MONITORING PROGRAM, ENVIRONMENTAL

108072
CHLORINE DISCHARGE LIMIT EXCEEDED AT MATCH 1
GEORGIA POWER CO., BARLEY, GA.
2 PGS. LTR W/AD 50-321/1975-80 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, NOV. 29, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - PERSONNEL ERROR. WHILE CHLORINATING THE PLANT SERVICE WATER WITH THE REACTOR AT 50% POWER, THE DISCHARGE LIMIT OF 0.85 MG/L WAS EXCEEDED FOR 20 MINUTES. NORMALLY 1 CHLORINATOR IS STARTED AND THE LEVEL IS BROUGHT UP SLOWLY. HOWEVER, THIS TIME 3 CHLORINATORS WERE STARTED SIMULTANEOUSLY AS A RESULT OF PERSONNEL ERROR. PROCEDURES ARE BEING WRITTEN TO PREVENT RECURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) - CONCENTRATION - 0 CHLORINE - CONDENSER COOLING SYSTEM - AUXILIARY COOLING - FAILURE, OPERATOR ERROR - 0 EFFLUENT

108073
RCIC VALVE FAILS TO OPEN AT MATCH 1
GEORGIA POWER CO., BARLEY, GA.
2 PGS. LTR W/AD 50-321/1975-87 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, NOV. 29, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - MAY NOT HAVE BEEN RESET. WHILE OPERATING AT 57% POWER, THE INJECTION VALVE FOR RCIC FAILED TO OPEN DURING A RCIC QUICK START SPECIAL TEST FOR RCIC TURBINE OVERSPEED PROBLEMS. THE VALVE BREAKER WAS TURNED OFF AND THEN BACK ON. THE VALVE OPENED PROPERLY. IT IS POSSIBLE THAT THE VALVE MAY NOT HAVE BEEN RESET BEFORE THE TEST ALTHOUGH THE OPERATOR AFFIRMED THAT IT HAD BEEN AS WELL AS DID THE LIGHT INDICATION. THE BREAKER WILL BE EXAMINED FOR MALFUNCTION.

100073 *CONTINUED*
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * VALVES * PNEUMATIC * TEST, SYSTEM OPERABILITY * FAILURE, EQUIPMENT * BREAKER

100530
 SET POINT DRIFT IN DIFFERENTIAL FLOW SWITCH AT MATCH 1
 GEORGIA POWER CO., DALEY, GA.
 2 PGS. LTR W/AD 50-321/1975-02 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, NOV. 26, 1975, DOCKET 50-321. TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - INSTRUMENT DRIFT. DURING A REACTOR WATER CLEANSUP SYSTEM ISOLATION TEST WHILE OPERATING AT 50% POWER, THE ALARM POINT OF A DIFFERENTIAL FLOW SWITCH WAS FOUND TO BE IN EXCESS OF THE 80 GPM LIMIT. THE GE MODEL 500 ALARM UNIT HAD DRIFTED. THE SWITCH WAS RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, FLOW * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * DRIFT * SET POINT * CONTAINMENT ISOLATION

100531
 SAMPLE LINE FLOW CUT OFF AT MATCH 1
 GEORGIA POWER CO., DALEY, GA.
 2 PGS. LTR W/AD 50-321/1975-05 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, NOV. 26, 1975, DOCKET 50-321. TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - PERSONNEL ERROR. WHILE THE REACTOR WAS OPERATING AT 50% POWER, THE SAMPLE LINE WAS ACCIDENTALLY ISOLATED AT THE INTAKE STRUCTURE CUTTING OFF FLOW TO THE PH AND TEMPERATURE MONITORS. THE CONDITION WAS NOT DETECTED UNTIL THE NEXT DAY. PERSONNEL INVOLVED WERE MADE AWARE OF THE INCIDENT. FLOW WAS RESTORED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * SAMPLING * CONDENSER COOLING SYSTEM * TEMPERATURE * FAILURE, OPERATOR ERROR * FLOW * FLOW BLOCKAGE * MONITOR

100229
 TURBINE CONTROL VALVES NOT TESTED ON TIME AT MATCH 1
 GEORGIA POWER CO., DALEY, GA.
 2 PGS. LTR W/AD 50-321/1975-03 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 1, 1975, DOCKET 50-321. TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - ADMINISTRATIVE DECISION. WHILE OPERATING AT 50% POWER, TURBINE CONTROL VALVE FAST CLOSURE FUNCTIONAL TEST WAS NOT PERFORMED WITHIN THE SPECIFIED PERIOD. THE TEST WAS POSTPONED 2 DAYS TO COINCIDE WITH WEEKLY TESTS OF THE TURBINE CONTROL VALVES TO PREVENT UNNECESSARY CYCLING OF THE CONTROL VALVES AND TO MINIMIZE CHANCES OF A TURBINE TRIP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * TESTING * VALVES * TURBINE * FAILURE, ADMINISTRATIVE CONTROL * TEST INTERVAL

100202
 SERVICE WATER MONITORING SYSTEM INOPERATIVE AT MATCH 1
 GEORGIA POWER CO., DALEY, GEORGIA
 2 PGS. LTR W/AD 50-321/1975-01 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 2, 1975, DOCKET 50-321. TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - PLUGGED SAMPLE LINE. DURING MAINTENANCE ON THE SERVICE WATER SYSTEM, THE SAMPLE LINE TO THE ROBERT SHAW MODEL 900 WATER QUALITY MONITORING STATION BECAME PLUGGED WITH DEBRIS STIRRED UP DURING THE WORK. THE STATION WAS INOPERABLE FOR ONE DAY BEFORE THE LINE WAS UNSTOPPED AND FLOW RESTORED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (BWR) * MONITOR, SAMPLING * MONITOR * AUXILIARY COOLING * PIPES AND PIPE FITTINGS * LEAK * FLOW BLOCKAGE * SAMPLING * FAILURE, MAINTENANCE ERROR

100203
 HYDRAULIC SHOCK SUPPRESSOR FOUND DISCONNECTED AT MATCH 1
 GEORGIA POWER CO., DALEY, GEORGIA
 2 PGS. LTR W/AD 50-321/1975-09 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 2, 1975, DOCKET 50-321. TYPE--BWR, NRC--G.E., AE--SSI

100263 *CONTINUED*

CAUSE - JAW NUTS VIBRATED LOOSE. DURING VISUAL INSPECTION OF THE DRYWELL AFTER SHUTDOWN, A HYDRAULIC SHOCK SUPPRESSOR ON A PSA SAFETY RELIEF VALVE WAS FOUND TO BE DISCONNECTED FROM THE LINE. JAW NUTS ON THE ADJUSTABLE SHUT MARKED LOOSE WITH CONTINUAL VIBRATION OF THE STEAM LINE ALLOWING THE UNIT TO DISCONNECT ITSELF FROM THE LINE. THE SUPPRESSOR WAS RECONNECTED. INSPECTION FOUND 4 OTHER SUPPRESSORS LOOSE. NUTS WERE REINSTALLED AND THREADS CUT TO PREVENT LOOSENING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (HWR) * * * SHOCK ABSORBER * SUPPORT STRUCTURE * PIPES AND PIPE FITTINGS * FAILURE, EQUIPMENT * * * VIBRATION * FASTENER * FAILURE, INSTALLATION ERROR

100264

SET POINT DRIFT IN APRM INOP CIRCUIT AT MATCH 1
GEORGIA POWER CO., BARLEY, GEORGIA

2 PGS. LTR W/AD 50-321/1975-94 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 4, 1975, DOCKET 50-321, TYPE--DNR, HPG--G.E., AE--SSI

CAUSE - PROCEDURAL DEFICIENCY. DURING TESTING WITH THE REACTOR AT 5% POWER, APRM CHANNEL A WOULD NOT INDICATE INOP STATUS UNTIL LESS THAN 10 LPRM INPUTS WERE IN SERVICE. EXISTING CALIBRATION PROCEDURE DOES NOT PROVIDE SUFFICIENT MARGIN FOR SET POINT DRIFT. THE INOP CIRCUIT WAS RESET. PROCEDURE IS BEING REVISED TO PROVIDE MORE CONSERVATISM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (HWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * INSTRUMENT, POWER RANGE * ANNUNCIATORS * TEST, SYSTEM OPERABILITY * SET POINT * DRIFT * FAILURE, INSTRUMENT * FAILURE, ADMINISTRATIVE CONTROL * PROCEDURES AND MANUALS

100827

INTAKE STRUCTURE TEMPERATURE MONITOR FAILS AT MATCH 1

GEORGIA POWER CO., BARLEY, GA

2 PGS. LTR W/AD 50-321/1975-94 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 9, 1975, DOCKET 50-321, TYPE--DNR, HPG--G.E., AE--SSI

CAUSE - RTD SENSOR FAILURE. WHILE IN COLD SHUTDOWN, THE TEMPERATURE MONITOR AT THE INTAKE STRUCTURE WAS FOUND INOPERABLE 10 HOURS AFTER ITS FAILURE RESULTING IN A MISSED GRAB SAMPLE. THE ROBERT SHAW CONTROLS RTD SENSOR HAD MALFUNCTIONED AND WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (HWR) * * * SENSORS, TEMPERATURE * * * CONDENSER COOLING SYSTEM * INTAKE * MONITORING PROGRAM, ENVIRONMENTAL * FAILURE, INSTRUMENT * MONITOR

109246

INTAKE STRUCTURE TEMPERATURE MONITOR FAILS AT MATCH 1

GEORGIA POWER CO., BARLEY, GA

2 PGS. LTR W/AD 50-321/1975-94 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 9, 1975, DOCKET 50-321, TYPE--DNR, HPG--G.E., AE--SSI

CAUSE - RTD SENSOR FAILURE. WHILE IN COLD SHUTDOWN, THE TEMPERATURE MONITOR AT THE INTAKE MONITOR WAS FOUND INOPERABLE 10 HOURS AFTER ITS FAILURE RESULTING IN A MISSED GRAB SAMPLE. SAMPLES WERE TAKEN AFTER DISCOVERY UNTIL THE INSTRUMENT WAS REPAIRED. THE ROBERT SHAW CONTROLS RTD SENSOR WAS FOUND TO HAVE MALFUNCTIONED AND WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (HWR) * * * SENSORS, TEMPERATURE * * * CONDENSER COOLING SYSTEM * INTAKE * MONITORING PROGRAM, ENVIRONMENTAL * SAMPLING * FAILURE, INSTRUMENT

100530

RHR INJECTION VALVE OPERATOR FOUND LOOSE AT MATCH 1

GEORGIA POWER CO., BARLEY, GA

2 PGS. LTR W/AD 50-321/1975-93 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 11, 1975, DOCKET 50-321, TYPE--DNR, HPG--G.E., AE--SSI

CAUSE - LOCK WASHERS NOT INSTALLED. WHILE THE REACTOR WAS IN COLD SHUTDOWN, SEVERAL BOLTS WERE FOUND MISSING FROM THE MOTOR FRAME OF A RHR INJECTION VALVE RESULTING IN PARTIAL SEPARATION OF THE OPERATOR FROM THE VALVE MOUNT. LOCK WASHERS HAD NOT BEEN INSTALLED ON THE BOLTS. THE BOLTS WERE REPLACED WITH LOCK WASHERS INSTALLED TO PREVENT SLIPPAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

100530 *CONTINUED*
MATCH 1 (00R) • VALVES • SHUTDOWN COOLING SYSTEM • FASTENER • VALVE OPERATORS • MONITORS • FAILURE, INSTALLATION ERROR • TEST, SYSTEM OPERABILITY

100073
RHR FLOW INSTRUMENT NOT TESTED ON SCHEDULE AT MATCH 1
GEORGIA POWER CO., BAXLEY, GA
3 PGS, LTR W/AD 50-321/1975-95 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 15, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - INADEQUATE PROCEDURES. DURING A SHUTDOWN, ONE LOOP OF THE RHR SYSTEM WAS OUT FOR MAINTENANCE AND THE OTHER WAS REQUIRED CONTINUALLY FOR SHUTDOWN COOLING. THE TANK WAS DRAINED. PROCEDURES FOR TESTING THE RHR MINIMUM FLOW INSTRUMENTS WERE INADEQUATE FOR THIS MODE OF OPERATION. THE GRACE PERIOD FOR THE TEST RAN OUT BEFORE THE PROCEDURES COULD BE REVISED AND THE TEST COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (00R) • TEST INTERVAL • SENSORS, FLOW • SHUTDOWN COOLING SYSTEM • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • MAINTENANCE AND REPAIR

100544
FUEL GRAPPLE MALFUNCTIONS DURING USE AT MATCH 1
GEORGIA POWER CO., BAXLEY, GA
3 PGS, LTR W/AD 50-321/1975-97 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 15, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - MISALIGNMENT OF SECOND STAGE. WHILE LOWERING A SINGLE CONTROL ROD BLADE GUIDE INTO THE CLINE OF THE REACTOR, THE SECOND STAGE ON THE TELESCOPING FUEL GRAPPLE MOMENTARILY WENT WITHIN THE THIRD STAGE INSTEAD OF FOLLOWING THE FIRST STAGE DOWN. WHEN THE FIRST STAGE WAS FULLY EXTENDED, THE SECOND STAGE FELL FREE UNTIL IT IMPACTED AGAINST THE GRAPPLE STOPS BREAKING SEVERAL PIECES LOOSE FROM THE GRAPPLE. THE SECOND STAGE HAD BEEN MISALIGNED. THE GRAPPLE WAS REPAIRED AND MODIFIED BY INCREASING CLEARANCE. A CHECK SHOWED THAT 1 SMALL STAINLESS STEEL STOP, 14 ALUMINUM PUMP BEVELS AND 2 NYLON BEARINGS WERE LEFT IN THE REACTOR. THESE SHOULD NOT CAUSE FLOW BLOCKAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (00R) • FUEL HANDLING MACHINE • CRUD • DAMAGE • FAILURE, EQUIPMENT • FAILURE, DESIGN ERROR • CORE COMPONENTS • PRESSURE VESSELS

100537
WATER IN DENIH FEED TANK ACCIDENTALLY DISCHARGED TO RIVER AT MATCH 1
GEORGIA POWER CO., BAXLEY, GA
3 PGS, LTR W/AD 50-321/1975-96 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 15, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - INCORRECT VALVE LINEUP. WHILE THE REACTOR WAS IN COLD SHUTDOWN, ABOUT 3243 GALLONS OF WATER IN THE DENIH FEED TANK WAS ACCIDENTALLY DISCHARGED TO THE RIVER BECAUSE OF AN INCORRECT VALVE LINEUP. THE TANK HAD BEEN SAMPLED BUT NOT ANALYZED. THE OPERATOR HAD FAILED TO ADEQUATELY CHECK THE VALVE LINEUP TO THE DENIH FEED TANK PRIOR TO DISCHARGING THE CHEMICAL WASTE SAMPLE AND WASTE SAMPLE TANKS. RAHWASTE PROCEDURES ARE BEING REVISED. TOTAL ACTIVITY RELEASED WAS 100 MICROCURIES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (00R) • RADIOACTIVITY RELEASE • REACTOR COOLANT • DRIVER • WASTE DISPOSAL • WASTE DISPOSAL, LIQUID • FAILURE, OPERATION ERROR

100072
SET POINT DRIFT IN MECHANICAL OVERSPEED AT MATCH 1
GEORGIA POWER CO., BAXLEY, GA
2 PGS, LTR W/AD 50-321/1975-90 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 15, 1975, DOCKET 50-321, TYPE--BWR, NRC--G.E., AE--SSI

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 55% POWER, RHC MECHANICAL OVERSPEED WAS FOUND TO BE SET AT GREATER THAN 6000 RPM. IT WAS RECALIBRATED WITHIN LIMITS. THE ELECTRICAL OVERSPEED WAS TESTED TO BE LESS THAN 6000 RPM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D.C. 20545 10 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (00R) • INSTRUMENT, PROTECTIVE • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • RHC

100071

SET PUMP DRIFT IN AREA TEMPERATURE SWITCHES AT MATCH 1

GEORGIA POWER CO., BARLEY, GA

3 PGS, LTR W/AD 50-321/1975-92 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 23, 1975, DOCKET 50-321, TYPE--DWR, NPG--G.E., AE--SSI

CAUSE - PROCEDURAL DEFICIENCY. WHILE THE REACTOR WAS SHUT DOWN, 3 MAIN STEAM LINE TUNNEL TEMPERATURE SWITCHES WERE FOUND TO HAVE SET POINTS ABOVE THE 200 F LIMIT. THERE WAS A DISCREPANCY BETWEEN THE FUNCTIONAL TEST PROCEDURE AND THE CALIBRATION PROCEDURE. THE CALIBRATION PROCEDURE SPECIFIED A 197 F SET POINT WHEREAS THE FUNCTIONAL TEST SPECIFIED 190 F. DURING PREOPERATIONAL TEST, ALL 3 SWITCHES WERE LEFT SET AT 199 F. THEY DRIFTED BEYOND THE LIMIT. THE CALIBRATION PROCEDURE WAS REVISED TO 190 F.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, TEMPERATURE • FAILURE, INSTRUMENT • SET POINT • DRIFT • COMPARTMENT • PLANT PROTECTIVE SYSTEM • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • TEST, SYSTEM OPERABILITY

100070

CRACKS FOUND IN RECIRC LOOP BYPASS LINE AT MATCH 1

GEORGIA POWER CO., BARLEY, GA

2 PGS, LTR W/AD 50-321/1975-99 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 26, 1975, DOCKET 50-321, TYPE--DWR, NPG--G.E., AE--SSI

CAUSE - STRESS CORROSION CRACKING. WHILE THE REACTOR WAS SHUT DOWN, 2 LINEAR INDICATIONS OF CRACKS WERE FOUND BY ULTRASONIC TESTS IN THE 4-INCH BYPASS LINE ON RECIRC LOOP A JUST UPSTREAM OF THE TEE BEFORE THE 4-INCH BYPASS VALVE. RADIOGRAPHS CONFIRMED THAT THE CRACKS EXISTED. THE PROBLEM, FOUND IN OTHER PLANTS, HAS BEEN ATTRIBUTED TO STRESS CORROSION CRACKING BUT THE EXACT MECHANISMS AND CONTRIBUTING PORTION OF PIPE AND THE TEE HAVE BEEN REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DWR) • PIPES AND PIPE FITTINGS • O/PLN, RECIRCULATION • BYPASS • MAIN COOLING SYSTEM • FAILURE, PIPE • CRACK • FLAW • STRESS CORROSION

100069

TWO DIESEL GENERATORS FAIL TO START AT MATCH 1

GEORGIA POWER CO., BARLEY, GA

2 PGS, LTR W/AD 50-321/1975-100 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION II, DEC. 31, 1975, DOCKET 50-321, TYPE--DWR, NPG--G.E., AE--SSI

CAUSE - UNKNOWN. DURING A WEEKLY TEST WITH THE REACTOR SHUT DOWN, DIESEL GENERATORS 10 AND 1C FAILED TO START ON THE FIRST ATTEMPT. ON ANOTHER START TEST 24 HOURS LATER, ALL 3 DG'S STARTED ON THE FIRST ATTEMPT. THE EXACT CAUSE OF FAILURE HAS NOT BEEN DETERMINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DWR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

100068

DIESEL GENERATORS FAIL TO START AT MATCH 1

GEORGIA POWER CO., BARLEY, GA

2 PGS, LTR W/AD 50-321/1975-100 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, DEC. 31, 1975, DOCKET 50-321, TYPE--DWR, NPG--G.E., AE--SSI

CAUSE - UNKNOWN. DURING A WEEKLY TEST OF THE DIESEL GENERATORS WHILE THE REACTOR WAS SHUT DOWN, 2 DG'S FAILED TO START ON THE FIRST ATTEMPT. DURING ANOTHER TEST 24 HOURS LATER ALL 3 STARTED ON THE FIRST ATTEMPT. THE EXACT CAUSE OF FAILURE HAS NOT BEEN DETERMINED. THE INVESTIGATION IS CONTINUING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 1 (DWR) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

100275

FIRE IN WAREHOUSE DAMAGES VALVES AT MATCH 2

GEORGIA POWER COMPANY

5 PAGES, LETTER WITH REPORT TO AEC DIRECTORATE OF REGULATORY OPERATION

. 10, 1975, DOCKET 50-360, TYPE--

-DWR, NPG--G.E., AE--SSI • BECHTEL

CAUSE - UNKNOWN. AT 3:00 AM, A FIRE OCCURRED INSIDE A TEMPORARY STORAGE SHED. THERE WERE 16

100275 (CONTINUED)

VALVES DAMAGED IN VARYING DEGREES OR WERE IN CLOSE PROXIMITY TO THE FIRE. DAMAGE WAS LIMITED TO SOOT ACCUMULATION AND OXIDATION OF THE PROTECTIVE COATING ON THE VALVE BODIES AND EXTENSIVE DAMAGE TO 5 OPERATORS. THE CAUSE OF THE FIRE IS THOUGHT TO HAVE BEEN A SHORT IN TEMPORARY WIRING. THE VALVES WERE CLEANED, LUBRICATED ON THE INSIDE SURFACES, AND PAINTED ON EXTERIOR SURFACES. THE OPERATORS WERE RETURNED TO THE VENDOR FOR REPAIR OR REPLACEMENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FIRE • OFF GAS • DAMAGE • SHUTDOWN COOLING SYSTEM • CONSTRUCTION • MATCH 2 (0HR) • VALVE OPERATORS • VALVES

104408

FINAL REPORT ON DRYWELL TO SUPPRESSION CHAMBER VENT DAMAGE AT MATCH 2

GEORGIA POWER COMPANY, ATLANTA

4 PAGES, LETTER WITH REPORT TO NRC DIR. OF REGULATORY OPERATIONS, JUNE 23, 1975, DOCKET 50-366, TYPE--DNR, NRG--G.E., AE--558 (BECHTEL)

CAUSE - IMPROPER USE OF TORCH. DURING AN INSPECTION OF THE DRYWELL INTERIOR, THE INSPECTOR FOUND 2 HOLES, 1.5 AND 0.5 INCH DIA., BURNED THROUGH THE DRYWELL TO PRESSURE SUPPRESSION CHAMBER VENT PIPE. THIS APPARENTLY WAS CAUSED BY CARELESS AND IMPROPER USE OF AN OXY-ACETYLENE TORCH DURING NORMAL CONSTRUCTION ACTIVITY. IT IS THOUGHT THAT THE PIPE WAS USED AS A SUPPORT DURING CUTTING OPERATIONS. REPAIR CONSISTED OF CUTTING OUT AN 18 X 24 INCH AREA CONTAINING THE DAMAGE AND INSTALLING A PRE-FABRICATED PATCH FROM THE INSIDE OF THE PIPE. LEAK TIGHTNESS WILL BE VERIFIED DURING PREOPERATIONAL TESTING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MATCH 2 (0HR) • CONSTRUCTION • PIPES AND PIPE FITTING • TORCH • CONTAINMENT • CONTAINMENT INTEGRITY • FAILURE, INSTALLATION ERROR • BUILDING • MAINTENANCE • REPAIR • DAMAGE

090717

REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT HUMBOLDT BAY

PACIFIC GAS AND ELECTRIC COMPANY

1 PAGE, LETTER TO DIRECTORATE OF LICENSING (AEC), JANUARY 6, 1975, DOCKET 50-133, TYPE--DNR, NRG--G.E., AE--BECHTEL

CAUSE - LEAKS AND LOW CLEANUP FLOW. DURING STARTUP FOLLOWING A REFUELING OUTAGE, THE REACTOR WATER CONDUCTIVITY WAS FOUND TO BE 11 MICROMHO/CM. THIS EXCEEDS THE 5 MICROMHO/CM LIMIT. THE CONDUCTIVITY REMAINED ABOVE THE LIMIT FOR 25.4 HOURS. TECH SPEC ALLOWS 24 HOURS AFTER A STARTUP. CONDENSER TUBE SALT WATER LEAKS AND BELOW NORMAL CLEANUP FLOW (DUE TO LOSS OF THE CLEANUP PUMP) CONTRIBUTED TO A SLOWER THAN NORMAL CLEANUP RATE. THE CONDENSER TUBE LEAKS HAVE BEEN REPAIRED. THE CLEANUP PUMP WILL BE RETURNED TO SERVICE AS PARTS FOR REPAIR ARE RECEIVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • HUMBOLDT BAY (0HR) • COOLANT PURIFICATION SYSTEM • COOLANT QUALITY • LEAK • CONDENSER • REACTOR STARTUP • PUMPS

093233

MAJUNCTION OF REACTOR CLEANUP PUMP AT HUMBOLDT BAY

PACIFIC GAS AND ELECTRIC COMPANY, CALIFORNIA

2 PAGES, LETTER TO OFFICE OF NUCLEAR REACTOR REGULATION, JAN. 21, 1975, DOCKET 50-133, TYPE--DNR, NRG--G.E., AE--BECHTEL

CAUSE - PUMP SHAFT SEAL LEAKAGE. DURING THE REFUELING OUTAGE, THE REACTOR CLEANUP PUMP WAS REMOVED FROM SERVICE BECAUSE OF EXCESSIVE LEAKAGE THROUGH THE MECHANICAL SEAL ON THE PUMP SHAFT. THE LEAK OFF SYSTEM COULD NOT HANDLE THE QUANTITY OF WATER COMING THROUGH THE SEAL. THE CLEANUP SYSTEM CAN BE USED WITHOUT THE PUMP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • HUMBOLDT BAY (0HR) • REFUELING • SEAL • COOLANT PURIFICATION SYSTEM • LEAK • PUMPS

093506

SUPPRESSION CHAMBER VACUUM RELIEF VALVES MALFUNCTION AT HUMBOLDT BAY

PACIFIC GAS AND ELECTRIC COMPANY, CALIFORNIA

1 PAGE, LETTER TO DIVISION OF REACTOR LICENSING, JANUARY 31, 1975, DOCKET 50-133, TYPE--DNR, NRG--G.E., AE--BECHTEL

CAUSE - VALVE STICKING. DURING TESTING OF THE SUPPRESSION CHAMBER VACUUM RELIEF VALVES, BOTH VALVES WERE STICKING AND THE SET POINT OF ONE WAS 3.0 INCH OF WATER, EXCEEDING THE 2.5 INCH LIMIT. THERE WAS INADEQUATE DRY LUBRICANT ON THE DISCS AND SEATS. BOTH VALVES WERE RE-LUBRICATED. THE SET POINT OF THE ONE WAS ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

093500 CONTINUOUS
CHARGE \$2.00

MUMBOLDT BAY (BWR) • CONTAINMENT VACUUM BREAKER • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • LUBRICATION • SET POINT • UNIT

102045

REACTOR FEEDPUMP OIL SUPPLY LINE LEAKS AT MUMBOLDT BAY
PACIFIC GAS & ELECTRIC COMPANY, CALIF.

2 PAGES. LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, FEBRUARY 19, 1975, DOCKET 50-133, TYPE--BWR, NRC--
G.E., AE--BECHTEL

CAUSE - UNKNOWN. WHILE OPERATING AT 131 MW, AN OIL LEAK WAS FOUND AT A FITTING IN THE LUBRICATING OIL SUPPLY LINE TO THE INBOARD MOTOR BEARING FOR THE REACTOR FEEDPUMP. THE OTHER FEEDPUMP WAS OUT OF SERVICE FOR OVERHAUL. REACTOR POWER WAS REDUCED AND THE FEEDPUMP SECURED UNTIL THE LEAK WAS REPAIRED. THE UNIT WAS SEPARATED FROM THE SYSTEM FOR 42 MINUTES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MUMBOLDT BAY (BWR) • FAILURE, PIPE • LUBRICATION • LEAK • REACTOR SHUTDOWN • FEEDWATER • PUMPS • PIPES AND PIPE FITTINGS

102577

ADDITIONAL INFORMATION ON POISON INJECTION VALVE MALFUNCTION AT MUMBOLDT BAY
PACIFIC GAS & ELECTRIC CO., CALIF.

1 PAGE. LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MARCH 14, 1975, DOCKET 50-133, TYPE--BWR, NRC--
G.E., AE--BECHTEL

CAUSE - STEAM BINDING BY PACKING. AS REPORTED ON MARCH 27, 1974, THE POISON INJECTION EQUALIZING VALVE FAILED TO PERMIT PROPER POISON SAMPLE FLOW. THE VALVE WAS EXAMINED DURING THE REFUELING OUTAGE. THE VALVE PACKING RESTRICTED STEM MOTION. NEW TEFLON PACKING WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • MUMBOLDT BAY (BWR) • SAMPLING • SHUTDOWN SYSTEM, SECONDARY • SEAL • VALVES

101145

EMERGENCY CONDENSER ISOLATION VALVE FAILS TO OPEN AT MUMBOLDT BAY
PACIFIC GAS & ELECTRIC COMPANY, CALIF.

1 PAGE. LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MARCH 26, 1975, DOCKET 50-133, TYPE--BWR, NRC--
G.E., AE--BECHTEL

CAUSE - UNKNOWN. DURING TESTING WITH THE REACTOR AT 193 MW THE EMERGENCY CONDENSER CONDENSATE RETURN VALVE COULD NOT BE OPERATED FROM THE CONTROL ROOM. IT WAS MANUALLY OPENED. THEN, THE VALVE WAS CLOSED ELECTRICALLY AND RETESTED SATISFACTORILY. INSPECTION REVEALED NO APPARENT CONDITION WHICH COULD CAUSE THE VALVE TO STICK SHUT. TEST FREQUENCY HAS BEEN INCREASED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • MUMBOLDT BAY (BWR) • TEST, SYSTEM OPERABILITY • EMERGENCY COOLING • CONDENSER • VALVES

101703

CONTROL ROD DRIVE STICKS FULLY INSERTED AT MUMBOLDT BAY
PACIFIC GAS & ELECTRIC COMPANY, CALIF.

1 PAGE. LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, APRIL 16, 1975, DOCKET 50-133, TYPE--BWR, NRC--
G.E., AE--BECHTEL

CAUSE - UNKNOWN. WHILE EXERCISING CONTROL ROD DRIVES, CONTROL ROD E-4 STUCK AT THE FULLY INSERTED POSITION. SEVERAL ATTEMPTS TO MOVE THE ROD WERE UNSUCCESSFUL. MAINTENANCE WILL BE PERFORMED DURING THE REFUELING OUTAGE SCHEDULED FOR JUNE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • MUMBOLDT BAY (BWR) • REACTOR CONTROL • TEST, SYSTEM OPERABILITY • CONTROL ROD DRIVE MECHANISMS

103045

EMERGENCY CONDENSER CONDENSATE VALVE FAILS TO OPEN AT MUMBOLDT BAY
PACIFIC GAS & ELECTRIC COMPANY, CALIF.

3 PAGES. LETTER TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 2, 1975, DOCKET 50-133, TYPE--BWR, NRC--
G.E., AE--BECHTEL

CAUSE - UNKNOWN. DURING A TEST OF DRY WELL ISOLATION VALVES, THE EMERGENCY CONDENSER CONDENSATE

163055 "CONTINUED"

RETURN VALVE COULD NOT BE OPENED FROM THE CONTROL ROOM. AFTER IT WAS MANUALLY OPENED, IT WAS TESTED SATISFACTORILY. NO CAUSE HAS BEEN FOUND. A SIMILAR FAILURE HAD OCCURRED ABOUT 2 MONTHS EARLIER. ATTEMPTS WERE MADE TO ADJUST THE POSITION OF THE VALVE MANUALLY. THE HIGH ENERGY LINE BREAK SHIELDS INTERFERED WITH MAKING PRECISION MEASUREMENTS. THE VALVE COULD ALWAYS BE CLOSED, IF NEEDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HUMBOLDT BAY (BWR) • VALVES • CONTAINMENT ISOLATION • EMERGENCY COOLING • CONDENSER • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

163674

FUEL ASSEMBLY BEACNE DISENGAGED FROM GRAPPLE AT HUMBOLDT BAY

PACIFIC GAS & ELECTRIC COMPANY, CALIF.

2 PAGES, LETTER TO NRC OFFICE OF ENFORCEMENT & INSPECTION, REGION 5, JUNE 11, 1975, DOCKET 50-133, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNKNOWN. DURING THE TRANSFER OF AN IRRADIATED FUEL ASSEMBLY FROM THE TRANSFER BASKET POSITION IN THE SPENT FUEL POOL TO A POOL STORAGE POSITION, THE FUEL ASSEMBLY BEACNE DISENGAGED FROM THE FUEL GRAPPLE, FELL 6 FT, AND STRUCK THE POOL FLOOR. IT THEN TIPPED AND FELL INTO THE 10 FT DEEP SPENT FUEL CASK PIT. IT IS THOUGHT THAT THE ASSEMBLY HAD NOT BEEN GRAPPLED PROPERLY. DURING A RECOVERY ATTEMPT AS THE ASSEMBLY WAS LIFTED TOWARD THE VERTICAL POSITION, THE CHANNEL CAME OFF AND FUEL RODS FELL OUT OF THE BUNDLE. THE ASSEMBLY WILL BE RECOVERED AFTER THE REFUELING OUTAGE. APPARENTLY THE TIE RODS AND/OR TIE ROD KEEPERS SHEARED WHEN THE ASSEMBLY DROPPED WHICH ALLOWED THE BUNDLE TO SEPARATE.

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HUMBOLDT BAY (BWR) • FUEL ELEMENTS • FUEL HANDLING • FUEL HANDLING MACHINE • FAILURE, OPERATOR ERROR • DAMAGE • REFUELING

163878

EMERGENCY ENGINE GENERATOR TRIPS AT HUMBOLDT BAY

PACIFIC GAS & ELECTRIC COMPANY, CALIF.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 1, 1975, DOCKET 50-133, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INADEQUATE VENTILATION. THE EMERGENCY PROPANE ENGINE GENERATOR TRIPPED OFF LINE AFTER 10 MINUTES OF OPERATION DURING FULL LOAD TESTING REQUIRED DURING EACH REFUELING OUTAGE. THE ENGINE TRIPPED DUE TO HIGH COOLING WATER TEMPERATURE. AN ENGINE GENERATOR ENCLOSURE WAS CONSTRUCTED IN JANUARY TO PROTECT THE UNIT FROM HIGH ENERGY LINE BREAKS OUTSIDE CONTAINMENT. RECIRCULATION OF AIR WITHIN THE ENCLOSURE CAUSED THE HIGH TEMPERATURE. ENGINE VENTILATION IS CURRENTLY BEING MODIFIED. A SATISFACTORY RETEST WILL BE MADE PRIOR TO POWER OPERATION.

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HUMBOLDT BAY (BWR) • ENGINES, INTERNAL COMBUSTION • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN ERROR • MODIFICATION • MISSILE GENERATION AND PROTECTION • REFUELING • GENERATORS • EMERGENCY POWER, ELECTRIC

164379

EARTHQUAKE OCCURS AT HUMBOLDT BAY

U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON

10 PAGES, LETTER WITH ATTACHMENT TO PACIFIC GAS & ELECTRIC COMPANY, JULY 3, 1975, DOCKET 50-133, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - NATURAL EVENT. THE REACTOR WAS IN THE SHUTDOWN CONDITION FOR REFUELING AND MAINTENANCE WHEN A SEISMIC EVENT OCCURRED ON JUNE 7, 1975. THE EPICENTER WAS ABOUT 15 MILES SOUTH OF THE SITE. ABOUT 100 AFTERSHOCKS OCCURRED WITHIN 48 HOURS BUT NONE OF THESE TRIGGERED THE SEISMIC EQUIPMENT. THE MAXIMUM RECORDED UNCORRECTED u -VALUE WAS 0.3G IN THE EAST-WEST DIRECTION IN THE STORAGE BUILDING. THIS IS GREATER THAN THE 0.29G ASSIGNED OPERATING BASIS EARTHQUAKE VALUE. THE UNCORRECTED RECORDED PEAK ACCELERATION DURATION WAS LESS THAN 3 SECONDS. INVESTIGATION DID NOT REVEAL ANY EFFECT. ALL SAFEGUARD SYSTEMS WERE UNAFFECTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HUMBOLDT BAY (BWR) • EARTHQUAKE • EARTHQUAKE EPICENTER • REFUELING • AGENCY, NRC • DURATION, SHORT • OPERATING EXPERIENCE

164901

CONTROL ROD FAILS AT HUMBOLDT BAY

PACIFIC GAS & ELECTRIC CO., SAN FRANCISCO, CALIF.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 31, 1975, DOCKET 50-133, TYPE--BWR, NRC--G.E., AE--BECHTEL

104961 *CONTINUED*

CAUSE - UNKNOWN. WHILE STARTING UP FOR INITIAL POWER OPERATION FOLLOWING THE REFUELING OUTAGE, A CONTROL ROD STUCK IN THE FULLY INSERTED POSITION. SEVERAL ATTEMPTS WERE MADE TO MOVE THE ROD, BUT THE DRIVE WOULD ONLY TRAVEL ONE NOTCH. THE REACTOR WILL BE OPERATED WITH THIS DRIVE INSERTED UNLESS IT CAN BE MADE FULLY OPERABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HUMBOLDT BAY (BWR) * CONTROL RODS * CONTROL ROD DRIVE MECHANISMS * FAILURE, EQUIPMENT * REACTOR CONTROL

109055

THREE WORKERS RECEIVE EXPOSURES OF MORE THAN 1250 MREM AT HUMBOLDT BAY
PACIFIC GAS & ELECTRIC COMPANY, SAN FRANCISCO, CALIFORNIA

3 PAGES, LETTER WITH REPORT TO NRC OFFICE OF ICE, AUGUST 8, 1975, DOCKET 50-133, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - MAINTENANCE ACTIVITY. NEAR THE END OF THE ANNUAL REFUELING OUTAGE, 3 WORKERS WERE TEMPORARILY ASSIGNED TO ASSIST IN HIGH RADIATION AREA MAINTENANCE WORK. A COMPLETED FORM AEC-4 WAS NOT AVAILABLE FOR THEM SINCE THEY DO NOT NORMALLY WORK IN A RADIATION AREA. WHEN THE ERROR WAS DISCOVERED, THEY WERE REMOVED FROM THE RADIATION AREA. EXPOSURES FOR THE QUARTER RANGED FROM 2.42 TO 3.00 REM. PROCEDURES WERE REVISED TO REQUIRE CHECKING THE FORM AEC-4.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HUMBOLDT BAY (BWR) * RADIATION EXPOSURE, RECORD KEEPING * FAILURE, ADMINISTRATIVE CONTROL * PROCEDURES AND MANUALS * PERSONNEL EXPOSURE, RADIATION * REFUELING * MAINTENANCE AND REPAIR

106451

SLUG INSERT OF CONTROL RODS DURING SPURIOUS TRIP AT HUMBOLDT BAY
PACIFIC GAS & ELECTRIC CO., CALIF.

3 PGS, LHM W/RTU TO NRC OFFICE OF I & E, REGION V, SEPT. 23, 1975, DOCKET 50-133, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INSTRUMENT NOISE. DURING A HOT STARTUP, 2 SPURIOUS REACTOR TRIPS OCCURRED ON THE APPROACH TO CRITICAL. ON THE SECOND TRIP, THE CONTROL RODS TOOK 5-10 SECONDS TO FULLY INSERT. THE SPURIOUS TRIPS RESULTED FROM PICOHMMETER NOISE WHICH IS ONLY A PROBLEM ON THEIR MOST SENSITIVE RANGE. DURING THIS VERY RAPID TRANSIENT ONLY THE 4 MASTER TRIP SOLENOID VALVES OPENED. THE 32 INDIVIDUAL REACTOR TRIP VALVES DID NOT OPEN. THE SLOW SCRAM TIME RESULTED FROM THE 32 INDIVIDUAL VALVES VENTING THROUGH THE 4 MASTER TRIP VALVES. A NORMAL REACTOR TRIP OCCURS FROM ANY SAFETY SYSTEM SIGNAL. PICOHMMETER NOISE CEASES WHEN THE REACTOR REACHES HEATING POWER LEVEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HUMBOLDT BAY (BWR) * RESPONSE TIME * CONTROL RODS * FAILURE, DESIGN ERROR * NOISE * INSTRUMENT, POWER RANGE * SCRAM, SPURIOUS

108252

EMERGENCY CONDENSER CONDENSATE VALVE FAILS TO OPEN AT HUMBOLDT BAY
PACIFIC GAS & ELECTRIC CO., SAN FRANCISCO, CALIF.

3 PGS, AU DPR-7/75-3 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 25, 1975, DOCKET 50-133, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - IMPROPER MANUAL ADJUSTMENT. THE EMERGENCY CONDENSER CONDENSATE RETURN VALVE WAS MANUALLY ADJUSTED TWICE TO ELIMINATE LEAKAGE THROUGH THE VALVE. DURING A SPECIAL TEST 3 DAYS LATER, THE VALVE COULD NOT BE OPERATED ELECTRICALLY FROM THE CONTROL ROOM. APPARENTLY, THE VALVE WAS IMPROPERLY ADJUSTED MANUALLY CAUSING IT TO STICK. AFTER THE VALVE WAS MANUALLY OPENED, IT OPERATED SATISFACTORILY. AN ADDITIONAL VALVE WILL BE ADDED THAT WILL BE USED TO INITIATE THE EMERGENCY CONDENSER. THE PRESENT VALVE WILL BE USED FOR ISOLATION PURPOSES ONLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HUMBOLDT BAY (BWR) * VALVES * CONDENSER * EMERGENCY COOLING * FAILURE, OPERATOR ERROR * TEST, SYSTEM OPERABILITY * MODIFICATION

100070

EXPERIMENTAL INVESTIGATION OF MSIV OPERATION AT LA CROSSE
DAIRYLAND POWER COOPERATIVE, WISCONSIN

56 PAGES, LETTER TO AEC DIRECTORATE OF LICENSING TRANSMITTING REPORT, JANUARY 24, 1975, DOCKET 50-409, TYPE--BWR, NRC--AC, AE--SGT & LUNDY

CAUSE - LACK OF LUBRICATION. DURING A SYSTEM STARTUP, THE MAIN STEAM ISOLATION VALVES DID NOT FULLY CLOSE PROPERLY. AN INVESTIGATION INDICATED THAT THE MSIV ADJUST OVER THE MAJORITY OF ITS TRAVEL RANGE WHEN ACTUATED BUT DID NOT LOUPE IMMEDIATELY INTO ITS SEAT. THIS WAS DUE PRIMARILY TO THE DETEIORATION AND ABSENCE OF LUBRICATION IN CRITICAL LOAD BEARING AREAS OF THE ACTUATOR

100070 *CONTINUED*

MECHANISM. SEVERAL CORRECTIVE MEASURES WERE TAKEN TO INSURE PROPER OPERATION. A HIGH TEMPERATURE LUBRICANT WAS USED. LUBRICATING GROOVES WERE ADDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT + CONTAINMENT ISOLATION + STEAM + FAILURE, MAINTENANCE ERROR + LACROSSE (BWR) + EXAMINATION + MAIN COOLING SYSTEM + LUBRICATION + VALVES

100071

INVESTIGATION OF CMU MECHANISM AT LA CROSSE

DAIRYLAND POWER COOPERATIVE, WISCONSIN

56 PAGES, LETTER TO AEC DIRECTORATE OF LICENSING TRANSMITTING REPORT, JANUARY 24, 1975, DOCKET 50-409, TYPE--BWR, HPG--AC, AE--SGT & LUNDY

CAUSE - CONNECTOR PLUG CONTAMINATION. DURING A NORMAL REACTOR SHUTDOWN, A CONTROL ROD DID NOT INSERT UPON INITIATION OF THE ALL ROD INSERT SIGNAL BY THE OPERATOR. THE INVESTIGATION OF THE INTERMITTENT FAILURE DETERMINED THE CAUSE TO BE AN ACCUMULATION OF CONTAMINANTS ON TOP OF THE MOTOR LEAD CONNECTOR PLUG WHICH PROVIDED A RELATIVELY LOW RESISTANCE PATH TO GROUND RESULTING IN A TRIP OF THE THERMAL OVERLOAD FOR ONE PHASE. THE CONTAMINANTS WAS PRIMARILY HYDRAULIC OIL. A PLUG OF A DIFFERENT DESIGN WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CMU + MODIFICATION + FAILURE, DESIGN ERROR + LACROSSE (BWR) + EXAMINATION + CABLES AND CONNECTORS + CONTROL ROD DRIVE MECHANISMS

102239

ARCING OF RELAY CONTACTS AT LACROSSE

DAIRYLAND POWER COOPERATIVE, WIS.

1 PAGE, LETTER TO NRC DIVISION OF REGULATORY OPERATIONS, REGION 3, APRIL 10, 1975, DOCKET 50-409, TYPE--BWR, HPG--AC, AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING AN INVESTIGATION OF AN INTERMITTANT ALARM ON THE PLANT 125-V DC ELECTRICAL SYSTEM, THE 400-V AUTOMATIC TRANSFER SWITCH OPERATED CAUSING UNEXPECTED ARCING OF AUXILIARY RELAY CONTACTS IN THE SWITCH CONTROL CIRCUITS. THE ARCING CAUSED DAMAGE TO THE AUXILIARY CONTACTS. THE CAUSE OF THE ARCING IS BEING INVESTIGATED. THE PLANT WAS SHUT DOWN PRIOR TO THE INCIDENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ELECTRIC POWER + FAILURE, INSTRUMENT + LACROSSE (BWR) + ELECTRIC ARC + RELAYS

103191

AUTOMATIC TRANSFER SWITCH IN 400 V SYSTEM DAMAGED AT LA CROSSE

DAIRYLAND POWER COOPERATIVE, WIS.

13 PAGES, LETTER WITH AD 75-1 TO NRC DIRECTORATE OF LICENSING, MAY 8, 1975, DOCKET 50-409, TYPE--BWR, HPG--AC, AE--SGT & LUNDY

CAUSE - PROCEDURAL DEFICIENCY. DURING TESTS TO LOCATE THE SOURCE OF A 125 VDC GROUND ALARM, THE INVESTIGATION PROCEDURE WAS REVISED TO INSPECT ADDITIONAL POSSIBLE SOURCES. DURING TESTING THE UNDERVOLTAGE COILS IN THE 400 V SWITCHGEAR ISOLATED RESULTING IN AN APPARENT, BUT NOT ACTUAL, UNDERVOLTAGE STATUS. THE AUTOMATIC TRANSFER SWITCH THEN OPERATED UNDER LOAD. THE CURRENT FLOW RESULTED IN ARCING WHICH DAMAGED A CENTRAL WIRE, AND RELAY CONTACTS. THE RELAY WAS REPLACED. PROCEDURES WERE MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

RELAYS + ELECTRIC POWER + ELECTRIC ARC + MAINTENANCE AND REPAIR + DAMAGE + FAILURE, ADMINISTRATIVE CONTROL + PROCEDURES AND MANUALS + LACROSSE (BWR)

103456

CORE SPRAY PUMPS HAVE LOW FLOW RATES AT LA CROSSE

DAIRYLAND POWER COOPERATIVE, WIS.

6 PAGES, LETTER WITH AD 75-3 TO NRC DIRECTORATE OF LICENSING, JUNE 16, 1975, DOCKET 50-409, TYPE--BWR, HPG--AC, AE--SGT & LUNDY

CAUSE - SEDIMENT IN THE SYSTEM. TESTING OF THE DIESEL-DRIVEN ALTERNATE CORE SPRAY PUMPS DURING THE REFUELING OUTAGE FOUND ACTUAL FLOWS TO BE 20 TO 50 GPM LOW. IT IS BELIEVED THAT SEDIMENT FROM THE MISSISSIPPI RIVER WATER HAS ACCUMULATED TO CAUSE SUFFICIENT FLOW RESTRICTION TO INCREASE PIPE FRICTION LOSSES AND SUBSEQUENT REDUCTION IN FLOW. APPROPRIATE METHODS TO CLEAN THE SYSTEM TO IMPROVE PERFORMANCE ARE BEING INVESTIGATED. PLANT STARTUP WILL NOT COMMENCE UNTIL CORRECTIVE ACTION HAS BEEN COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

103656 *CONTINUED*
CHARGE \$2.00

*FLOU * *PURE SPRAY * TEST, SYSTEM OPERABILITY * FAILURE, EQUIPMENT * CAND * FRICTION * FLOW BLOCKAGE * PIPES
AND PIPE FITTINGS * REFUELING * LACROSSE (BWR)

103877

FUEL ASSEMBLY DAMAGED DURING HANDLING AT LA CROSSE
DAIRYLAND POWER COOPERATIVE, WIS.

4 PAGES, LETTER WITH ATTACHMENT TO NRC DIRECTORATE OF LICENSING, JUNE 26, 1975, DOCKET 50-409, TYPE--BWR, MFG--
AC, AE--SGT & LUNDY

CAUSE - OPERATOR ERROR. FUEL ELEMENT 2-12 WAS MOVED FROM CORE POSITION H-4 TO K-8. WHEN THE
ELEMENT WAS LOWERED INTO THE SHROUD CAN, THE UPPER INTERMEDIATE SPACER GRID CAUGHT ON THE SHROUD
CAN AND WAS DISPLACED ON ONE SIDE. THE TENSIMETER USED TO INDICATE THE WEIGHT OF THE SUSPENDED
FUEL ELEMENT HAD BEEN INADVERTENTLY LOCKED BY THE OPERATOR. WHEN THE ELEMENT BEGAN TO DRAIN, NO
INDICATION WAS SHOWN ON THE TENSIMETER. FUEL RODS WERE NOT DAMAGED. THE DAMAGED GRID IS BEYOND
REPAIR. BURNUP WAS 7.575 MW/MTU. ABOUT 50% OF THE USEFUL ENERGY WILL REMAIN UNUSED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

LACROSSE (BWR) * *FUEL ELEMENTS * FUEL HANDLING * FAILURE, OPERATOR ERROR * FUEL HANDLING MACHINE * *DAMAGE *
FUEL BURNUP

104308

SET POINT DRIFT IN PRESSURE CHANNEL AT LACROSSE
DAIRYLAND POWER COOPERATIVE, LA CROSSE, WIS.

4 PAGES, LETTER WITH AOR 75-4 TO NRC DIVISION OF REGULATORY OPERATIONS, REGION 3, JULY 11, 1975, DOCKET 50-
409, TYPE--BWR, MFG--AL, AE--SGT & LUNDY

CAUSE - VOLTAGE REGULATOR FAILURE. DURING A TEST ON REACTOR PRESSURE SAFETY CHANNEL 1, A SCRAM
SIGNAL WAS RECEIVED AT THE CORRECT SET POINT, THEN CLEARED BY ITSELF. REPEAT TESTS PRODUCED
SIMILAR RESULTS. THE FUEL VOLTAGE REGULATOR WAS FAILING CAUSING A HIGHER VOLTAGE OUTPUT FROM THE
POWER SUPPLY. THE REGULATOR UNIT WAS REPLACED WITH A SIMILAR ONE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

LACROSSE (BWR) * *INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM OPERABILITY *
*SET POINT * *DRIFT * FAILURE, COMPONENT * ELECTRIC POWER * REACTOR SAFETY SYSTEM * ELECTRONIC FUNCTION UNITS

104811

CONTAINMENT BUILDING INTEGRATED LEAK RATE EXCEEDS LIMIT AT LACROSSE
DAIRYLAND POWER COOPERATIVE, LA CROSSE, WIS.

5 PGS, LTR W/AOR 75-05 TO NRC DIR. OF LICENSING, JULY 26, 1975, DOCKET 50-409, TYPE--BWR, MFG--AC, AE--SGT &
LUNDY

CAUSE - VALVE MISALIGNMENT AND MINOR LEAKS. DURING A REFUELING OUTAGE CONTAINMENT BUILDING
INTEGRATED LEAK RATE TEST, THE AS-FOUND CONDITION WAS 0.628/24 HR. THE MAXIMUM ALLOWABLE LEAKAGE
RATE IS 0.12/24 HR. A VALVE ADDED DURING A RECENT CHANGE TO THE SHUTDOWN CONDENSER VENT TO OFF
GAS WAS FOUND TO BE OPEN. IT WAS OMITTED FROM THE VALVE CHECK LIST. THE VALVE WAS CLOSED.
SEVERAL VALVE SEATS WERE REPLACED AND VALVES REPACKED. PIPE FITTINGS WERE TIGHTENED. THIS TEST
WAS REPEATED AFTER REPAIRS WITH PRELIMINARY CALCULATIONS INDICATING A LEAKAGE RATE OF 0.058/24 HR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

LACROSSE (BWR) * *LEAK RATE * TEST, LEAK RATE * *CONTAINMENT * CONTAINMENT INTEGRITY * REFUELING * MAINTENANCE
AND REPAIR * PENETRATIONS, PRIMARY CONTAINMENT

104955

LEAKAGE ON ELECTRICAL PENETRATIONS EXCEEDS LIMIT AT LA CROSSE
DAIRYLAND POWER COOPERATIVE, LA CROSSE, WISCONSIN

4 PAGES, LETTER WITH AO REPORT 75-6 TO NRC DIRECTORATE OF LICENSING, AUG. 14, 1975, DOCKET 50-409, TYPE--BWR,
MFG--AC, AE--SGT & LUNDY

CAUSE - UNKNOWN. DURING TESTING, THE LEAK FLOW RATE DETERMINED FROM ELECTRICAL PENETRATIONS 4 AND
6 EXCEEDED THE PERMISSIBLE FLOW RATE. THE PENETRATIONS WERE REPAIRED BY COATING COMPRESSION
FITTINGS ON THE OUTSIDE OF THE CONTAINMENT VESSEL WALL WITH AN EPOXY SEALANT COMPOUND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

LACROSSE (BWR) * *LEAK RATE * *CONTAINMENT PENETRATION, ELECTRICAL * TEST, SYSTEM OPERABILITY * TEST, LEAK
RATE * CONTAINMENT INTEGRITY

107421
 REACTOR FORCED CIRCULATION PUMP VALVE FAILS TO OPEN AT LACROSSE
 OAKLAND POWER COOPERATIVE, LA CROSSE, WIS.
 2 PGS. AUG-7 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 17, 1975, DOCKET 50-404, TYPE--BWR, NRC--AC, AE--
 SGT E LUNDY

CAUSE - SEAL LEAK ON HYDRAULIC OPERATION. DURING STARTUP PREPARATIONS ON 2 SUCCESSIVE DAYS, THE DISCHARGE VALVE FOR REACTOR FORCED CIRCULATION PUMP 1 & FAILED TO OPEN AUTOMATICALLY WHEN THE PUMP SPEED WAS AT OR ABOVE THE REQUIRED SPEED. MANUAL RESETTING OF THE HYDRAULIC SYSTEM THROTTLE VALVE WAS REQUIRED. LEATHER SEALS WERE REPLACED ON THE PISTONS ON THE HYDRAULIC OPERATORS OF THE 1 & DISCHARGE AND Suction VALVES. LEAKS REDUCE THE PRESSURE DIFFERENTIAL AVAILABLE FOR OPERATION OF THE VALVES. A FOLLOWUP INSPECTION FOUND ANOTHER LEAK AT THE OPERATOR SHAFT CONNECTION TO THE PISTON. A WASHER WAS INSTALLED TO SEAL THIS LEAK. THE VALVE NOW OPERATES SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

VALVES + MAIN CIRCULATING SYSTEM + FLOW, RECIRCULATION + VALVE OPERATORS + SEAL + LEAK + FAILURE, EQUIPMENT + HYDRAULIC SYSTEM + LACROSSE (BWR)

109613
 CONTROL ROD SCRAM INITIATION DELAYED AT LACROSSE
 OAKLAND POWER COOP., LACROSSE, WI
 2 PGS. LTR WAO 75-08 TO NRC DIRECTORATE OF REGULATION OPERATIONS, REGION III, DEC. 31, 1975, DOCKET 50-409, TYPE--BWR, NRC--AC, AE--SGT E LUNDY

CAUSE - UNDETERMINED. FOLLOWING INITIATION OF A MANUAL SCRAM FROM 94% POWER, A CONTROL ROD FAILED TO SCRAM HYDRAULICALLY IN THE NORMAL MANNER. IT DID INSERT. INVESTIGATION, AS REPORTED ON JAN. 14, INDICATED THAT THE ROD DID SCRAM HYDRAULICALLY BUT INITIATION OF INSERTION WAS DELAYED. SCRAM ACTION WAS ACCOMPLISHED WITHIN LIMITS. THE DRIVE WAS REPLACED WITH A SPARE MECHANISM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

LACROSSE (BWR) + RESPONSE TIME + FAILURE, SCRAM MECHANISM + FAILURE, EQUIPMENT + CONTROL ROD DRIVE MECHANISMS

101707
 SUPPRESSION POOL PHENOMENA FOR MARK 2 CONTAINMENT AT LIMERICK 1 AND 2
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, APRIL 4, 1975, DOCKETS 50-352/353, TYPE--BWR, NRC--G.E., AE--DECHTEL

CAUSE - POSSIBLE DESIGN DEFICIENCY. FURTHER INVESTIGATIONS OF THE SUPPRESSION POOL PHENOMENA ASSOCIATED WITH SAFETY RELIEF VALVE AND LOCA BLOWDOWN DISCHARGES HAVE INDICATED THAT THE DESIGN BASES AND LOAD COMBINATIONS USED IN THE PSAR MAY NOT HAVE IDENTIFIED ALL THE PHENOMENA FOR THIS CONTAINMENT DESIGN. RESULTS OF THESE DESIGN CONSIDERATIONS WILL BE COMPARED AGAINST THE PRESENT DESIGN. ANY MODIFICATIONS WHICH MAY BE REQUIRED WILL BE IMPLEMENTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT DESIGN + CONTAINMENT, PRESSURE SUPPRESSION + HYDRAULIC EFFECT + STRESS ANALYSIS + FAILURE, DESIGN ERROR + BLOWDOWN + PRESSURE TRANSIENT + LIMERICK 2 (BWR) + CONSTRUCTION + LIMERICK 1 (BWR) + PHUS

098705
 STANDBY LIQUID CONTROL SYSTEM VOLUME LOW AT MILLSTONE
 NORTHEAST NUCLEAR ENERGY COMPANY
 3 PAGES, LETTER TO DIRECTORATE OF LICENSING (AEC), JANUARY 2, 1975, DOCKET 50-245, TYPE--BWR, NRC--G.E., AE--ED:SGO

CAUSE - PARTIALLY PLUGGED SENSING LINE. WHILE OPERATING AT 97% POWER, THE OPERATOR NOTED AN UNWARRANTED INCREASE IN THE LEVEL OF THE STANDBY LIQUID CONTROL SYSTEM TANK. THE LEVEL SENSING LINE HAD BECOME PLUGGED. AFTER THE LINE WAS BLOWN OUT, THE LEVEL INDICATED 2800 GALLONS IN THE TANK. THIS IS BELOW THE 2900 GALLON LIMIT. A SLOW BUILDUP OF SODIUM PENTAFOSPHATE CRYSTALS ON THE END OF THE BUBBLER TUBE CAUSED A RESTRICTION IN THE TUBING RESULTING IN AN INDICATION OF HIGHER THAN ACTUAL TANK LEVEL. THE LEVEL WAS INCREASED. A BLOW OUT LINE WAS INSTALLED FOR WEEKLY BLOW OUT OF THE TUBING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CRUD + MODIFICATION + STORAGE CONTAINER + FAILURE, DESIGN ERROR + SHUTDOWN SYSTEM, SECONDARY + TUBING + MILLSTONE POINT 1 (BWR) + SENSORS, LEVEL

098706
 NO FLUID INDICATION IN TWO BERGER-PATERSON SNUDDERS AT MILLSTONE
 NORTHEAST NUCLEAR ENERGY COMPANY
 3 PAGES, LETTER TO DIRECTORATE OF LICENSING (AEC), JANUARY 4, 1975, DOCKET 50-245, TYPE--BWR, NRC--G.E., AE--

[illegible]

7-10-68 - A large amount of equipment was found in the area of the building. It was found that the equipment was not properly stored and was in poor condition. The equipment was found to be of various types and was in various stages of repair. The equipment was found to be of various types and was in various stages of repair. The equipment was found to be of various types and was in various stages of repair.

04-5584
DATE 9 LINE INCREASES REMAINING DECREASES AT WILLSTONE
NOT RELEVANT TO COMPANY'S COMPLETION
3 PAGES 557 LETTER WITH REPORT 75/2 : O DIRECTORATE OF LICENSING, JANUARY 30, 1975, DOCUMENT 50-245, PAGE
96-63 - RE-EVALUATION

AVAILABILITY - NEW PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00)

CASE - A WARNING ERROR IN INSTRUMENTATION WHILE A HOUSE HEATING BOILER WAS BEING PLACED ON LINE. THE OVERHEATING FEED TANK AND SINCE TANK CONCENTRATION WAS FOUND ON A MODERATELY HIGH LEVEL. AN ISOLATION VALVE LEAK ALLOWED HIGH ACTIVITY CONCENTRATE TO LEAK FROM THE HEATING BOILER DURING MAINTENANCE WORK SO THAT THE CONTAMINATED WATER WENT TO THE HEATING SYSTEM INSTEAD OF BEING RETURNED TO MAKEUP PUMP FLOOD MAIN SYSTEM. THE TANK WAS MISSING DURING MAINTENANCE WORK. THE CONCENTRATED CELL TANK MONITORED ADVISORY CONCENTRATION INTO THE CONDENSATE RETURN TANK. THE CONDENSATE CELL TANK FORMED NOISES. AS ISOLATION VALVE LEAK ALLOWED HIGH ACTIVITY CONCENTRATE TO LEAK FROM THE HEATING BOILER DURING MAINTENANCE WORK SO THAT THE CONTAMINATED WATER WENT TO THE HEATING SYSTEM INSTEAD OF BEING RETURNED TO MAKEUP PUMP FLOOD MAIN SYSTEM. THE TANK WAS MISSING DURING MAINTENANCE WORK. THE CONDENSATE CELL TANK MONITORED ADVISORY CONCENTRATION INTO THE CONDENSATE RETURN TANK. THE CONDENSATE CELL TANK FORMED NOISES. AS ISOLATION VALVE LEAK ALLOWED HIGH ACTIVITY CONCENTRATE TO LEAK FROM THE

104009
NOTICE OF PROPOSED IMPOSITION OF CIVIL PENALTIES AT MILLSTONE
U.S. NUCLEAR REGULATORY COMMISSION
4. PLANS, LETTERS AND ATTACHMENT TO NORTH EAST NUCLEAR ENERGY COMPANY, APRIL 10, 1979, Docket 90-245, TYPE--PNA.
NRC--U.S. AT--BOSLO

104009 CONTINUED

CAUSE - ADMINISTRATIVE ERROR. DURING AN INSPECTION, IT WAS FOUND THAT CERTAIN ACTIVITIES APPEARED TO BE IN NONCOMPLIANCE WITH NRC REQUIREMENTS. THE ITEMS ARE THE RESULT OF FAILURE TO IMPLEMENT AND/OR FOLLOW THE SITE SECURITY PLAN. PROPER CONTROL WAS NOT ESTABLISHED BETWEEN THE OPERATING AREA OF UNIT 1 AND THE CONSTRUCTION AREA OF UNIT 2. THE EFFECTIVENESS OF THE MANAGEMENT CONTROL SYSTEM IS IN QUESTION IN THAT IT DID NOT PREVENT THE INCIDENTS. NRC PROPOSES TO IMPOSE CIVIL PENALTIES OF \$17500.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MILLSTONE POINT 1 (BWR) • REACTOR, PWR • COMPLIANCE • SECURITY • QUALISTICS • ECONOMICS • FAILURE, ADMINISTRATIVE CONTROL • MILLSTONE POINT 2 (PWR)

104289

INEFFECTIVE CONTROL WAS INSPECTED AT MILLSTONE 1
NORTHEAST NUCLEAR ENERGY COMPANY, CORP.

1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, APRIL 22, 1975, Docket 50-245, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - UNLOCKING HANDLE STUCK. AS REPORTED EARLIER, A CONTROL ROD WENT TO THE OVERTRAVEL POSITION DURING A SHUTDOWN MARGIN CHECK. INSPECTION OF THE ROD INDICATED THAT THE UNLOCKING HANDLE LOCATED AT THE TOP OF THE VELOCITY LIMITER WAS STUCK IN THE UNCOUPLED POSITION WHICH RESULTED IN THE UNCOUPLING OF THE CONTROL ROD. IF THE HANDLE DOES NOT MOVE FREELY DURING EXERCISING, THE ROD WILL BE REJECTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00.

MILLSTONE POINT 1 (BWR) • REGENERATION • REFUELING • FAILURE, EQUIPMENT • CONTROL RODS

104297

GAS TURBINE GENERATOR ABILITY TO START LOST AT MILLSTONE 1
NORTHEAST NUCLEAR ENERGY COMPANY, CORP.

3 PAGES, LETTER WITH ACR 75/7 TO NRC DIV. OF REACTOR LICENSING, APRIL 24, 1975, Docket 50-245, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - DEFECTIVE OSCILLATOR BOARD. WHILE THE UNIT WAS OPERATING AT 1308 PMW, THE GAS TURBINE TRIP/SHUT DOWN ALARM SOUNDED. THE CIRCUIT BREAKER WHICH ALLOWS INVERTER OPERATION HAD TRIPPED. IT WAS RESET AND TRIPPED THREE TIMES WITHIN A 3-HR PERIOD. AN OSCILLATOR BOARD IN THE INVERTER CIRCUITRY CAUSED CURRENT SPIKES WHICH TRIPPED THE BREAKER. FAILURE WAS ATTRIBUTED TO A HIGHER THAN RECOMMENDED AC INPUT VOLTAGE. THE OSCILLATOR BOARD WAS REPLACED AND THE AC INPUT WAS ISOLATED UNTIL A PERMANENT SOLUTION IS FOUND. THE INVERTER IS BEING SUPPLIED BY THE BACKUP BATTERY BANK. CAPABILITY OF THE GAS TURBINE TO BACK START WAS LOST FOR 15 MINUTES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MILLSTONE POINT 1 (BWR) • GENERATORS • TURBINE • EMERGENCY POWER, ELECTRIC • FAILURE, COMPONENT • ELECTRONIC FUNCTION UNITS • FAILURE, DESIGN ERROR

108073

REACTOR COOLANT SAMPLES NOT TAKEN DURING STARTUP AT MILLSTONE 1
NORTHEAST NUCLEAR ENERGY COMPANY, CORP.

3 PAGES, LETTER WITH ACR 75-11 TO NRC DIV. OF REACTOR LICENSING, MAY 20, 1975, Docket 50-245, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - PROCEDURAL DEFICIENCY. DURING A NORMAL REACTOR STARTUP FROM A COLD SHUTDOWN CONDITION, THE REACTOR COOLANT WAS NOT SAMPLED FOR CONDUCTIVITY AND CHLORIDE CONTENT AS REQUIRED AT STEAMING RATES LESS THAN 100,000 LBS/HR. PROCEDURES DID NOT PROVIDE DISCRETE DIRECTIONS TO OPERATIONS PERSONNEL FOR PERFORMANCE OF THIS REQUIREMENT. ALTHOUGH FULLY COGNIZANT OF THE REQUIREMENT, THE SUPERVISOR FAILED TO OBTAIN THE REQUIRED SAMPLING. PROCEDURES WILL BE MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SAMPLING • REACTOR COOLANT • TEST INTERVAL • FAILURE, ADMINISTRATIVE CONTROL • COOLANT QUALITY • PROCEDURES AND MANUALS • MILLSTONE POINT 1 (BWR)

108074

BERGEN-PATERSON SHAFTS FOUND WITH NO FLUID LEVEL INDICATION AT MILLSTONE 1
NORTHEAST NUCLEAR ENERGY COMPANY, CORP.

3 PAGES, LETTER WITH ACR 75-10 TO NRC DIV. OF REACTOR LICENSING, MAY 20, 1975, Docket 50-245, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - O-RING PINCHED DURING ASSEMBLY. DURING AN UNSCHEDULED MAINTENANCE OUTAGE, INSPECTION OF BERGEN-PATERSON SHAFTS IN THE DRYWELL REVEALED 2 UNITS WHICH SHOWED NO FLUID LEVEL INDICATIONS AND A THIRD UNIT WHICH WAS LOW. NO DEGRADATION OF EITHER O-RING OR SEAL MATERIAL WAS REVEALED. THERE WAS SOME EVIDENCE OF O-RING SPLITTING WHICH APPEARED TO BE A RESULT OF IMPROPER REASSEMBLY.

103076 PLANT/INLET

W-PIPING APPEARED TO HAVE BEEN PINCHED DURING REASSEMBLY. ALL 3 UNITS WERE OVERHAUL TO AND REINSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MEMORANDUM CHARGE \$2.00

HILLSTONE POINT 1 (1041) • PIPING ASSEMBLY • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • FAILURE, MAINTENANCE ERROR • SURVEILLANCE PROGRAM • SEAL • LEAK • FAILURE, EQUIPMENT

103075

TARGET AREA SAFETY/RELIEF VALVE FAILS TO RESET AT HILLSTONE 1
NORTHWEST NUCLEAR ENERGY COMPANY, CORP.

3 PAGES, LETTER WITH ACR 75-9 TO NRC DIV. OF REACTOR LICENSING, MAY 20, 1975, DOCKET 50-245, TYPE--DNR, NRC--G.E., AE--EASCO

CAUSE - PILOT MALFUNCTION. DURING A REQUIRED SURVEILLANCE WHILE OPERATING AT 90% POWER, A SAFETY/RELIEF VALVE FAILED TO RESET AFTER BEING MANUALLY OPENED UNTIL THE PRESSURE DECREASED TO 100 PSIG. THE REACTOR WAS MANUALLY SCRAMMED. THE PILOT PORTION OF THE VALVE WAS REPLACED WITH THE MAIN VALVE BEING VISUALLY INSPECTED IN PLACE. NO GROSS FAILURE, OBSTRUCTION, OR DAMAGE WAS NOTED. ONE OF THE PILOT VALVES SHOWED INDICATIONS OF STEAM BLOW-BY AND ONE OF THE PILOT BALANCE PISTONS DID NOT MOVE FREELY DURING DISASSEMBLY. DURING OILDRUM, THE OILDRUM RATE DURING THE FIRST RUN WAS 155 FPM WHICH EXCEEDS THE 100 FPM LIMIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MEMORANDUM CHARGE \$2.00

HILLSTONE POINT 1 (1041) • VALVES • PRESSURE RELIEF • MAIN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • OILDRUM • THERMAL TRANSIENT • PRESSURE TRANSIENT • STEAM • REACTOR SHUTDOWN

103140

GAS TURBINE GENERATOR UNIT MALFUNCTION AT HILLSTONE 1
NORTHWEST NUCLEAR ENERGY COMPANY, CORP.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, MAY 29, 1975, DOCKET 50-245, TYPE--DNR, NRC--G.E., AE--EASCO

CAUSE - INCORRECT VALVE POSITION. DURING TESTING, THE GAS TURBINE GENERATOR UNIT TRIPPED TWICE WHILE CARRYING A LOAD OF ABOUT 9 MWE. INVESTIGATION REVEALED THAT THE MANUAL OPERATION OF THE BYPASS VALVE AROUND THE ELECTRIC GENERATOR LUBE OIL HEAT EXCHANGER WAS INCORRECTLY POSITIONED SO THAT THE VALVE COULD NOT CLOSE COMPLETELY AS THE OIL TEMPERATURE INCREASED. ALSO, A TEMPERATURE SWITCH WHICH ALARMS HIGH OIL TEMPERATURE WAS JUT UP CALIBRATION. THE HIGH TEMPERATURE TRIP WAS REACHED BEFORE THE ALARM SOUNDED. THE VALVE WAS LOCKED IN THE CORRECT POSITION AND THE TEMPERATURE SWITCH RESET. THE UNIT THEN RAN SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MEMORANDUM CHARGE \$2.00

HILLSTONE POINT 1 (1041) • GENERATORS • TURBINE • EMERGENCY POWER, ELECTRIC • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • VALVES • COOLING • INSTRUMENT, SWITCH • LUBRICATION • TEMPERATURE • FAILURE, EQUIPMENT

103079

APR/LPCI INTERLOCK PRESSURE SWITCH FAILS TO FUNCTION AT HILLSTONE
NORTHWEST NUCLEAR ENERGY COMPANY, CORP.

2 PAGES, LETTER WITH ACR 75-12 TO NRC DIVISION OF REACTOR LICENSING, JULY 2, 1975, DOCKET 50-245, TYPE--DNR, NRC--G.E., AE--EASCO

CAUSE - CORROSION. DURING A TEST WITH THE REACTOR AT 90% POWER, AN APR/LPCI CORE COOLING PUMP INTERLOCK PRESSURE SWITCH FAILED TO FUNCTION. IT HAD BEEN TESTED PREVIOUSLY BY A LEAK WHICH CAUSED WATER TO RUN DOWN THE CONDUIT INTO THE SWITCH HOUSING. THE SWITCH HAD BEEN CLEANED. APPARENTLY, THE WATER HAD CAUSED SOME CORROSION OF THE SWITCH INTERNALS WHICH CAUSED THE PISTON ASSEMBLY TO STICK. THE SWITCH WAS REPLACED. OPENINGS THAT COULD POSSIBLY ALLOW MOISTURE TO GET INTO THE CONDUIT HAVE BEEN SEALED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MEMORANDUM CHARGE \$2.00

HILLSTONE POINT 1 (1041) • INSTRUMENT, SWITCH • SENSORS, PRESSURE • INSTRUMENT, INTERLOCK • CORROSION • FAILURE, INSTALLATION ERROR • LPCI • TEST, SYSTEM OPERABILITY

104000

TARGET AREA SAFETY RELIEF VALVES FAILS TO RESET AFTER TEST AT HILLSTONE
NORTHWEST NUCLEAR ENERGY COMPANY, CORP.

3 PAGES, LETTER WITH ACR 75-9 TO NRC DIVISION OF REACTOR LICENSING, JULY 11, 1975, DOCKET 50-245, TYPE--DNR, NRC--G.E., AE--EASCO

CAUSE - MALFUNCTION OF PILOT VALVES. WHILE OPERATING AT 90% POWER, TARGET AREA SAFETY/RELIEF VALVE 8 WAS MANUALLY OPENED FOR TESTING. IT FAILED TO RESET UNTIL THE PRESSURE DECREASED TO 100 PSIG. THE REACTOR WAS MANUALLY SCRAMMED. ONE OF THE PILOT VALVES SHOWED INDICATIONS OF STEAM

104000 PLANTATION

BLow-off AND ONE PILE VALVE BALANCE POSITION JOG WAS DONE FULLY DURING DECOMMISSION. A COMBINATION OF THESE 2 DEFECTS IS BELIEVED TO HAVE PREVENTED THE VALVE FROM CLOSING. DURING THE FIRST RUN, THE REACTION CONDENSER RATE WAS 155 PPM WHICH EXCEEDED THE 100 PPM LIMIT. NO DAMAGE OCCURRED.

AVAILABILITY - ONE PUBLIC DOCUMENT NRCN, 1717 = STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

104000

AS TURBINE GENERATOR FAILS TO COMPLETE STARTUP SEQUENCE AT WILLSTONE

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

3 PAGES, LETTER WITH REPORT 75-13 TO THE DIVISION OF NUCLEAR LICENSING, JULY 14, 1975, DECLET 50-245, TYPE--DNR, WPC--C.E., AC--000000

CAUSE - UNKNOWN. WHILE UNDERTAKING A LOAD REDUCTION FOR A PROPOSED CORRECTION AND EVALUATION, THE REACTOR TURBINE GENERATOR STOPPED DUE TO A REACTOR HIGH WATER LEVEL. THIS INITIATED AN EMERGENCY AS TURBINE GENERATOR STOPPED. THE UNIT STOPPED AND FAILED TO COMPLETE ITS STARTUP SEQUENCE. NO APPARENT CAUSATIONS COULD BE FOUND. DURING SUBSEQUENT TESTS, THE UNIT PERFORMED SATISFACTORILY.

AVAILABILITY - ONE PUBLIC DOCUMENT NRCN, 1717 = STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

104000

ORDER IMPOSING CIVIL PENALTIES AT WILLSTONE

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

3 PAGES, LETTER WITH ATTACHMENT TO THE NUCLEAR ENERGY COMMISSION, JULY 18, 1975, DECLET 50-245, TYPE--DNR, WPC--C.E., AC--000000

CAUSE - SECURITY VIOLATIONS. CONCLUDES THAT A SERIES OF NONCOMPLIANCE REGARDING SECURITY AND OTHER. ONE ITEM WAS REMITTED. ENCLOSES AN ORDER IMPOSING CIVIL PENALTIES OF \$7500.00.

AVAILABILITY - ONE PUBLIC DOCUMENT NRCN, 1717 = STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

105000

SET POINT ERROR ON FLOW SENSOR AT WILLSTONE 1

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

2 PAGES, LETTER WITH REPORT 75-13 TO THE DIVISION OF NUCLEAR LICENSING, JULY 22, 1975, DECLET 50-245, TYPE--DNR, WPC--C.E., AC--000000

CAUSE - UNKNOWN INSTRUMENT DEFECT. WHILE TESTING THE ISOLATION CONDENSER INSTRUMENTATION WITH THE REACTOR AT 77.50 PPM, 1 OF THE 4 FLOW SENSORS WAS FOUND TO READ BELOW THE REQUIRED 100 PPM SET POINT. THE APPARENT CAUSE WAS A RANDOM SET POINT ERROR. THE INSTRUMENT WAS RECALIBRATED.

AVAILABILITY - ONE PUBLIC DOCUMENT NRCN, 1717 = STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

106000

DIFFERENTIAL PRESSURE DATA VARIED FROM ANTICIPATED VALUES AT WILLSTONE 1

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

3 PAGES, LETTER WITH REPORT 75-13 TO THE DIVISION OF NUCLEAR LICENSING, AUG. 1, 1975, DECLET 50-245, TYPE--DNR, WPC--C.E., AC--000000

CAUSE - SENSING TUBE FAILURE. TWO OF THE 4 SENSING TUBES WERE NOTED TO HAVE DIFFERENTIAL PRESSURES THAT VARIED FROM THE ANTICIPATED VALUES. REACTOR POWER WAS REDUCED FROM 900 TO 400 AND THE 2 HIGH SENSING TUBES WERE CLOSED. SUBSEQUENT INSPECTION OF ALL 4 FLOW RESISTANCES AFTER A SHORTER PERIOD OF OPERATION HAD OCCURRED IN 3 OF 4 LOW PRESSURE SENSING TUBES. THESE TUBES ARE CONNECTED TO THE TUBING SECTION OF THE FLOW METERING. NEW FLOWING LOW PRESSURE SENSING TUBES THAT ARE LOWER AND OF A LONGER TUBE WHICH WOULD BE INSTALLED.

AVAILABILITY - ONE PUBLIC DOCUMENT NRCN, 1717 = STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

WILLSTONE POINT 1 (DNR) • PLANTS • OPERATIONS DEFECT • REACTOR COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • REACTION CONDENSER • REACTOR SAFETY SYSTEM • FAILURE, TUBING

106000

100101

RE POINT UNIT IN TIME DELAY RELAY AT MILLSTONE 1
 NORTHEAST NUCLEAR ENERGY CORP., MONTICELLO, CT
 2 PGS., LTR 87/03-50-203/75-25 TO NRC OFFICE OF I & E, REGION 1, DEC. 23, 1975, DOCKET 50-245, TYPE--BWR, NRC--
 G.E., AE--GEORGE

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE APRM SETPOINT AND TIME DELAY FUNCTION WITH THE
 UNIT AT LOW POWER, 1 OF THE 4 TIME DELAY RELAYS TRIPPED AT 31.1 SECONDS WHICH EXCEEDS THE 30.0
 SECOND LIMIT. THE PROBLEM WAS ATTRIBUTED TO INSTRUMENT DRIFT. THE RELAY WAS RESET, RETESTED,
 AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

MILLSTONE POINT 1 (BWR) • INSTRUMENT CALIBRATION • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • RESET POINT
 • POINT • REACTION SAFETY SYSTEM • DELAYS

100101

RADIOACTIVITY LIQUIDS DISCHARGED FROM SWAMP AT MILLSTONE 2
 NORTHEAST NUCLEAR ENERGY CORP., CONN.
 7 PGS., LTR 87/03-50-203/75-25 TO NRC DIVISION OF REACTOR LICENSING, APRIL 8, 1975, DOCKET 50-245, TYPE--
 BWR, NRC--G.E., AE--GEORGE

CAUSE - MISUNDERSTANDING. RADIOACTIVE LIQUIDS WERE DISCHARGED THREE IN ONE DAY FROM AN
 UNDERGROUND SWAMP IN THE WEST CONDENSER PIT SWAMP IN UNIT 2. TOTAL ACTIVITY WAS 40 MICRO-CURIES.
 ALTHOUGH SWIFT SUPERVISORS WERE ASSIGNED AT THIS TIME, PREVIOUS SAMPLES FROM THE SWAMP SHOWED NO
 ACTIVITY, NONE WAS ANTICIPATED. THEREFORE, PROVISION HAD NOT BEEN MADE. OTHER BATCHES WERE
 SAMPLED PRIOR TO DISCHARGE. THE ACTIVITY WAS A RESULT OF CONTAMINATION OF THE HOUSE HEATING
 STEAM PIPING IMPORTED EARLIER. PROCEDURES HAVE BEEN MODIFIED TO PREVENT REOCCURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

REACTOR, PWR • REACTOR SHUTDOWN EXPERIENCE • RADIOACTIVITY RELEASE • FAILURE, ADMINISTRATIVE CONTROL •
 MILLSTONE POINT 2 (PWR) • MILLSTONE POINT 1 (BWR)

100000

CRACK INDICATIONS IN RECIRCULATION BYPASS PIPING AT MONTICELLO
 NORTHEAST NUCLEAR ENERGY CORP., WIS.
 5 PGS., LTR 87/03-50-203/75-25 TO NRC DIVISION OF REACTOR
 LICENSING, JANUARY 30, 1975, DOCKET 50-203, TYPE--BWR, NRC--G.E., AE--GEORGE

CAUSE - UNKNOWN. DURING THE REFUELING OUTAGE INSERVICE INSPECTION OF THE REACTOR COOLANT SYSTEM,
 LINEAR INDICATIONS WERE DETECTED IN 2 WELDS IN LOOP A AND 1 IN LOOP B OF THE REACTOR
 RECIRCULATION SYSTEM & THEN BYPASS LINES. AFTER COMPARING THESE DATA WITH THOSE OBTAINED IN
 NOVEMBER, A FOURTH WELD BECAME A SUSPECT. THE CAUSE HAS NOT BEEN DETERMINED. SECTIONS OF PIPING
 WHICH CONTAIN THE 4 REJECTED WELDS WERE REPLACED. THIS PIPING IS TYPE 304 STAINLESS STEEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, PIPE • WELDS • STEEL, STAINLESS • PLAS • REFUELING • MONTICELLO (BWR) • HEAT TREATMENT • BACKFIT •
 PIPES AND PIPE FITTINGS • INSERVICE INSPECTION

000005

REFUELING INTERLOCK BYPASSED AT MONTICELLO
 NORTHEAST NUCLEAR ENERGY CORP., MINNESOTA
 1 PAGE, LTR 87/03-50-203/75-25 TO NRC DIVISION OF REACTOR LICENSING, JANUARY 31, 1975, DOCKET 50-203, TYPE--BWR, NRC--G.E., AE--
 GEORGE

CAUSE - OPERATOR ERROR. DURING REFUELING, A DAMAGED CONTACT AND DRIVE CONNECTOR RESULTED IN A
 FALSE INDICATION FOR A CONTACT ACD. THE ACD WAS VERIFIED TO BE FULLY INSERTED, AND POSITION
 INTERLOCK FOR THAT ROD WAS THEN BYPASSED. THIS VIOLATED LIMITING CONDITIONS. REFUELING
 CONTINUED FOR 2 HOURS BEFORE THE OPERATOR'S ERROR WAS NOTICED. THE CONNECTOR WAS REPAIRED AND
 THE BYPASS REMOVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, OPERATION ERROR • INSTRUMENT, INTERLOCK • REFUELING • MONTICELLO (BWR) • BYPASS • CABLES AND
 CONNECTIONS • CONTROL AND DRIVE MECHANISMS

000007

CRACK SPRAY CHECK VALVE LEAK RATES EXCEED LIMIT AT MONTICELLO
 NORTHEAST NUCLEAR ENERGY CORP., MINNESOTA
 2 PGS., LTR 87/03-50-203/75-25 TO NRC DIVISION OF REACTOR LICENSING, FEB. 10, 1975, DOCKET 50-203,
 TYPE--BWR, NRC--G.E., AE--GEORGE

099057 - CONTINUED

CAUSE - SCALE ON SEAT. DURING LOCAL LEAK RATE TESTS, BOTH CORE SPRAY TESTABLE CHECK VALVES WERE FOUND LEAKING IN EXCESS OF LIMITS. FAILURE WAS DUE TO AN ACCUMULATION OF SCALE ON THE SEATING SURFACES. AFTER BEING CLEANED, THE VALVES WERE RETESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CORE SPRAY • TEST, LEAK RATE • CAUD • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • MONTICELLO (DNR) • LEAK RATE • VALVE, CHECK

099058

NCIC TURBINE EXHAUST LINE CHECK VALVE LEAKS AT MONTICELLO

NORTHERN STATES POWER COMPANY, MINNESOTA

2 PAGES, LETTER WITH LICENSEE EVENT REPORT TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 10, 1979, DOCKET 90-203, TYPE--DNR, NRC--G.E., AE--DECHTEL

CAUSE - IMPROPER ASSEMBLY. DURING LOCAL LEAK RATE TESTING, A NCIC TURBINE EXHAUST LINE CHECK VALVE WAS FOUND TO HAVE EXCESS LEAKAGE. THE VALVE DISC HAD BEEN ASSEMBLED PREVIOUSLY WITHOUT SUFFICIENT CLEARANCE BETWEEN THE DISC WASHER AND NUT. THE CLEARANCE WAS INCREASED AND THE DISC LAPPED. THE VALVE WAS SATISFACTORILY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT ISOLATION • TEST, LEAK RATE • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • MONTICELLO (DNR) • LEAK RATE • COOLING • VALVE, CHECK

099059

MAIN STEAM LINE DRAIN VALVE LEAKS AT MONTICELLO

NORTHERN STATES POWER COMPANY, MINNESOTA

2 PAGES, LETTER WITH LICENSEE EVENT REPORT TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 10, 1979, DOCKET 90-203, TYPE--DNR, NRC--G.E., AE--DECHTEL

CAUSE - UNKNOWN. DURING LOCAL LEAK RATE TESTING, AN OUTBOARD MAIN STEAM LINE DRAIN ISOLATION VALVE WAS FOUND TO BE LEAKING IN EXCESS OF LIMITS. THE VALVE WAS TOO RADIOACTIVE TO INSPECT. IT WAS REPLACED. IT IS SUSPECTED THAT THERE WERE SCRATCHES IN THE SEAT AND GATE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • STEAM • TEST, LEAK RATE • TEST, SYSTEM OPERABILITY • MONTICELLO (DNR) • MAIN COOLING SYSTEM • LEAK RATE • VALVES

099060

LPIC CHECK VALVE LEAK RATE EXCEEDS LIMIT AT MONTICELLO

NORTHERN STATES POWER COMPANY, MINNESOTA

2 PAGES, LETTER WITH LICENSEE EVENT REPORT TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 10, 1979, DOCKET 90-203, TYPE--DNR, NRC--G.E., AE--DECHTEL

CAUSE - SCALE ON SEAT. DURING LOCAL LEAK RATE TESTING, A LPIC TESTABLE CHECK VALVE WAS FOUND LEAKING IN EXCESS OF LIMITS. THE LEAKAGE WAS DUE TO AN ACCUMULATION OF SCALE ON SEATING SURFACES. THE SEATING SURFACES WERE CLEANED AND LAPPED. THE VALVE RETESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

TEST, LEAK RATE • CAUD • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • MONTICELLO (DNR) • LEAK RATE • VALVE, CHECK • LPIC

100007

COMPONENT MODIFIED WITHOUT PRIOR SAFETY REVIEW AT MONTICELLO

NORTHERN STATES POWER COMPANY, MINN.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 24, 1979, DOCKET: 90-203, TYPE--DNR, NRC--G.E., AE--DECHTEL

CAUSE - LACK OF UNDERSTANDING. A STOPPER WAS TACK WELDED TO THE MIDGE ARM OF A NPIC EXHAUST LINE CHECK VALVE WITHOUT PROPER ENGINEERING ANALYSIS AND SAFETY REVIEW BEING PERFORMED. INSPECTION REVEALED NO WELD INDICATIONS. THE MIDGE ARM WILL BE REPLACED WHEN A REPLACEMENT PART IS OBTAINED. THE CAUSE WAS A LACK OF UNDERSTANDING OF ADMINISTRATIVE DIRECTIVES BY THE PERSONNEL INVOLVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SAFETY REVIEW • MODIFICATION • FAILURE, MAINTENANCE ERROR • MONTICELLO (DNR) • VALVE, CHECK • NPIC

100007
 MINNAPOLIS SHAFT SUPPRESSOR IMPROVABLE AT MINNAPOLIS
 MINNAPOLIS POWER COMPANY, MINNAPOLIS
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 27, 1975, DOCKET 90-203, TYPE--DNR, NRC--G.E., RE--
 DECEMBER

CAUSE - DAMAGED SEAL. DURING NORMAL OPERATION, A BENDER-PATERSON SAMPLER LOCATED OUTSIDE THE MINNAPOLIS WAS DISCOVERED TO BE IMPROVABLE DUE TO LOSS OF OIL. IT WAS REPLACED IN KIND. FAILURE RESULTED FROM A LEAK DUE TO A CUT O-RING. THE AREA AROUND THE O-RING CALLED. TWO OTHER SAMPLERS WERE FOUND TO BE LEAKING OIL THROUGH CUT IN DAMAGED SEALS. SEAL DAMAGE APPARENTLY OCCURRED DURING ASSEMBLY OF THE SUPPRESSORS. ALSO, SAND WAS FOUND IN THE ACCUMULATORS. THESE UNITS WERE SANDBLASTED AND REPAIRED PRIOR TO SHIPMENT TO THE SITE.

AVAILABILITY - NRC PUBLIC DOCUMENT NRC, 1717 M STREET, WASHINGTON, D.C. 20545 10 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SHAFT ASSEMBLY • FAILURE, MAINTENANCE ERROR • SEAL • MINNAPOLIS 1000 • JARAGE • SUPPORT STRUCTURE • SURVEILLANCE PROGRAM • LEAK • PIPES AND PIPE FITTINGS

100017
 NUCLEAR STEAM LINE ISOLATION VALVE FAILS TO CLOSE (SUPPLEMENT) AT MINNAPOLIS
 MINNAPOLIS POWER COMPANY, MINNAPOLIS
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 20, 1975, DOCKET 90-203, TYPE--DNR, NRC--G.E., RE--
 DECEMBER

CAUSE - GREASE DEGRADATION. DURING TESTING IN DECEMBER 30, 1974, NRC OUTBOARD STEAM LINE ISOLATION VALVE FAILED TO CLOSE. THE VALVE WAS INSPECTED DURING THE RECENT REPAIR AND INSPECTION. LIMIT AND TORQUE SWITCHES WERE ADJUSTED. IT WAS FOUND THAT THE MAIN GEAR TRAIN GREASE AND THE LIMIT SWITCH GREASE HAD DEGRADATED. THEY WERE CLEANED AND REPAIRED. THE VALVE TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT NRC, 1717 M STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • MAINTENANCE AND REPAIR • CONTAINMENT ISOLATION • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • MINNAPOLIS 1000 • DAMAGE • LUBRICATION • COOLING • VALVE OPERATIONS • VALVES

100031
 FOLLOWUP REPORT ON OFF GAS SYSTEM EXPLOSION AT MINNAPOLIS
 MINNAPOLIS POWER COMPANY, MINNAPOLIS
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, APRIL 2, 1975, DOCKET 90-203, TYPE--DNR, NRC--G.E., RE--
 DECEMBER

CAUSE - CATALYST IN PIPING. AS REPORTED EARLIER, HYDROGEN EXPLOSIONS OCCURRED THREE DURING TESTING OF THE MODIFIED OFF GAS SYSTEM. SUBSEQUENT TESTING, USING SPECIAL MONITORING INSTRUMENTATION, REVEALED THE PRESENCE OF CATALYST PELLETS IN BOTH RECOMBINED VESSELS BEHIND THE RETENTION SCREENS. IN BOTH PREHEATERS, IN A PRESSURE CONTROL VALVE AND IN 2 CAPPED LOW POINT DRAIN. THE PELLETS MUST HAVE BEEN TRANSPORTED DURING SYSTEM FLUSHING. ALL OFF GAS PIPING WAS CLEANED USING 10,000 PSI WATERS JETTING, DRY AND WET SAND BLASTING, AND A FINAL CHEMICAL CLEANING USING PHOSPHORIC ACID. THE CATALYST RETENTION SCREENS WERE MODIFIED TO PREVENT REOCCURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT NRC, 1717 M STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

EXPLOSION • HYDROGEN • SAMPLE CONTAMINATION • FILTER, SCREEN • MODIFICATION • FAILURE, DESIGN ERROR • OFF GAS • MINNAPOLIS 1000 • CATALYST • RECOMBINERS

100004
 NUCLEAR STEAM SUPPLY VALVE IMPROVABLE AT MINNAPOLIS
 MINNAPOLIS POWER COMPANY, MINNAPOLIS
 1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 15, 1975, DOCKET 90-203, TYPE--DNR, NRC--G.E., RE--
 DECEMBER

CAUSE - UNDERVOLTAGE RELAY COIL FAILURE. WHILE THE REACTOR WAS OPERATING AT 100% POWER, THE CONTROL CIRCUIT FOR A NUCLEAR STEAM SUPPLY VALVE WAS DISCOVERED TO BE DE-ENERGIZED DUE TO AN OPEN UNDERVOLTAGE RELAY COIL. INVESTIGATION OF THE CAUSE OF THE COIL FAILURE IS CONTINUING. THE COIL WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT NRC, 1717 M STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MINNAPOLIS 1000 • VALVES • CONTAINMENT ISOLATION • COOLING • FAILURE, COMPONENT • DELAYS • TEST, SYSTEM OPERABILITY

100077
 CORE SPRAY VALVE FAILS TO OPEN AT MINNAPOLIS
 MINNAPOLIS POWER CO., MINNAPOLIS
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 6, 1975, DOCKET 90-203, TYPE--DNR, NRC--G.E., RE--
 DECEMBER

103677 MC-INTERMEDIUM

CAUSE - NO APPARENT CAUSE. DURING A TEST WITH THE REACTOR AT 65% POWER, CORE SPRAY INJECTION VALVE A CLOSED BUT HAD NOT ACTED OPEN ON SIGNAL FROM THE CONTROL ROOM. IT WAS MANUALLY OPENED AND WAS OPERATED PROPERLY DURING SUBSEQUENT TESTING. INVESTIGATIONS REVEALED NO APPARENT CAUSE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

MONTICELLO (EQUIP) • VALVES • CORE SPRAY • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

104065

HIGH PRESSURE SCRAM SWITCH FOUND INOPERABLE AT MONTICELLO
NORTHERN STATES POWER COMPANY, MINN.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 18, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--RECHTEL

CAUSE - IMPROPER ADJUSTMENT. DURING TESTING WITH THE REACTOR AT 65% POWER, A REACTOR HIGH PRESSURE SCRAM SWITCH WAS FOUND TO BE INOPERABLE. THE SAMWALE MODEL 82T-81255 PRESSURE SWITCH FAILED TO TRIP BECAUSE THE BOUNDOON TUBE STOP PLATE WAS IMPROPERLY ADJUSTED. THE STOP PLATE WAS ADJUSTED AND THE SWITCH RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

MONTICELLO (EQUIP) • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • REACTOR SAFETY SYSTEM • DATA LOGGING SYSTEM • INSTRUMENT, SWITCH

104215

CRACKS OBSERVED IN FAILED FUEL ASSEMBLIES AT MONTICELLO
NORTHERN STATES POWER COMPANY, MINN.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 26, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--RECHTEL

CAUSE - HYDROGEN. VISIBLE CRACKS WERE OBSERVED IN SEVERAL CORNER PINS OF 10 INITIAL CORE 787 FUEL ASSEMBLIES. THE ASSEMBLIES ARE BEARING REMOVED FROM THE CORE AFTER CYCLES 2 AND 3. LEAKS HAVE BEEN IDENTIFIED IN 150 OF 400 INITIAL CORE ASSEMBLIES BY DATE. NO LEAKS HAVE BEEN IDENTIFIED IN RELOAD FUEL. REMAINING INITIAL CORE FUEL WILL BE REPLACED DURING THE UPCOMING REFUELING. FUEL PIN FAILURES ARE BELIEVED CAUSED BY HYDROGEN AND PELLET-TYPE INTERACTION MECHANISMS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

MONTICELLO (EQUIP) • FUEL ROD • CRACKS • LEAK • FAILURE, FUEL ELEMENT • HYDROGEN • FUEL ELEMENTS

104731

REACTOR WATER LEVEL SENSOR INOPERABLE AT MONTICELLO
NORTHERN STATES POWER COMPANY, MINN.

1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, JULY 23, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--RECHTEL

CAUSE - LEAK IN BOUNDOON TUBE. WHILE THE REACTOR WAS OPERATING AT 67% POWER, A SMALL LEAK DEVELOPED IN A REACTOR PRESSURE GAUGE WHICH LOWERED THE REFERENCE LEG LEVEL FOR THE SCRAM AND ECCS INITIATING WATER LEVEL INSTRUMENTS CONNECTED TO THE SAME TAP. THE LEAK WAS IN THE BOUNDOON TUBE. THE CAUSE IS UNKNOWN. THE GAUGE WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

MONTICELLO (EQUIP) • SENSORS, PRESSURE • PRESSURE VESSELS • SENSORS, LEVEL • LEAK • REACTOR SAFETY SYSTEM • FAILURE, INSTRUMENT

104959

TORUS COOLING INJECTION VALVE FAILS AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MINNESOTA

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, AUG. 6, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--RECHTEL

CAUSE - LIMIT SWITCH FAILURE. DURING A TEST WITH THE REACTOR AT 71% POWER, BWR TORUS COOLING INJECTION VALVE OPERATION MOTOR FAILED DUE TO STALLED MOTOR CURRENT. THE MOTOR WOUND TO A VALVE OPERATION MOTOR STALLED BECAUSE LIMIT SWITCHES FAILED TO DE-ENERGIZE MOTOR WINDINGS. A LOOSE STEEL CLAMP ALLOWED THE VALVE STEM TO ROTATE DURING VALVE OPERATION RESULTING IN LIMIT SWITCH DEVIATION. THE SYSTEM CLAMP SET SCREW WAS SHEARED. LARGER SET SCREWS WERE INSTALLED. THE MOTOR WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

MONTICELLO (EQUIP) • VALVES • TORUS • COOLING • VALVE OPERATOR • TEST, SYSTEM OPERABILITY • FAILURE, DESIGN ERROR • MODIFICATION • FASTENER • EMERGENCY COOLING SYSTEM • INSTRUMENT, SWITCH

109852

THREE EMPLOYEES RECEIVE EXCESSIVE HAND EXPOSURES AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MINN.

3 PGS., LETTER WITH REPORT TO NRC DIRECTOR OF ICE, AUGUST 15, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--DECHTEL

CAUSE - IMPROPER MAINTENANCE TECHNIQUES. THREE EMPLOYEES RECEIVED HAND EXPOSURE RANGING FROM 21.41 TO 39.97 REMS BASED ON FINGER CIPS. EXPOSURE OCCURRED DURING REPLACEMENT OF A LEAKING SHAFT SEAL ON A REACTOR WATER CLEAN-UP PUMP. IT WAS NECESSARY TO HANDLE THE IMPELLER, WHICH WAS READING 60 R/HR AT 2 INCHES, WITH TRIPLE-GLUED HANDS. WHOLE BODY EXPOSURES WERE ABOUT A FACTOR OF 25 LESS THAN HAND EXPOSURES. MORE APPROPRIATE MAINTENANCE TECHNIQUES WILL BE APPLIED DURING FUTURE JOBS OF THIS TYPE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) • OPERATIONAL EXPOSURE, RADIATION • MAINTENANCE AND REPAIR • PUMPS • SEAL • COOLANT PURIFICATION SYSTEM • EXPOSURE, SKIN • TRANSPORTATION AND HANDLING • FAILURE, ADMINISTRATIVE CONTROL

109939

WATER PUMP SEAL WATER LINE FAILS AT MONTICELLO

NORTHERN STATES POWER COMPANY, MINN.

1 PG., LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 20, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--DECHTEL

CAUSE - STRESS AND VIBRATION. WHILE THE UNIT WAS OPERATING AT 648 POWER, A 1/2 INCH AISI TYPE 304, SCH 80, SEAMLESS THREADED NIPPLE FAILED AT THE THREAD ROOT. IT WAS LOCATED IN THE SEAL WATER LINE BETWEEN AULM PUMP 12 AND THE SEAL WATER HEAT EXCHANGER. THE SYSTEM WAS IMMEDIATELY ISOLATED. STRESS WAS INDUCED IN THE PIPE AT FITUP. VIBRATION AND CONCENTRATION OF STRESS IN THE THREADS RESULTED IN FATIGUE FAILURE. THE NIPPLE WAS REPLACED IN KIND. THE TOTAL RELEASE WAS 0.7 CI.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) • PIPES AND PIPE FITTINGS • FAILURE, PIPE • FAILURE, FATIGUE • FAILURE, INSTALLATION ERROR • VIBRATION • STRESS • REACTOR COOLANT

109846

THE TORUS COOLING INJECTION VALVE FAILS TO CLOSE AT MONTICELLO

NORTHERN STATES POWER COMPANY, MINN.

2 PGS., LTR TO NRC DIV. OF REACTOR LICENSING, SEPT. 3, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--DECHTEL

CAUSE - TORQUE SWITCH SET IMPROPERLY. DURING A TEST WITH THE REACTOR AT 638 POWER, A THE TORUS COOLING INJECTION VALVE FAILED TO CLOSE COMPLETELY. THE ROTARY MODEL TOR VALVE OPERATOR MOTOR REENERGIZED PREMATURELY BECAUSE OF INCORRECT TORQUE SWITCH SETTING. THE TORQUE SWITCH WAS RECALIBRATED USING PROPER PROCEDURES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) • VALVES • SHUTDOWN COOLING SYSTEM • TORUS • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • SET POINT • INSTRUMENT, SWITCH • VALVE OPERATORS

109846

MPCI TURBINE STEAM SUPPLY VALVE FAILS AT MONTICELLO

NORTHERN STATES POWER COMPANY, MINN.

2 PGS., LTR TO NRC DIV. OF REACTOR LICENSING, SEPT. 9, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--DECHTEL

CAUSE - RELAY COIL FAILS. DURING NORMAL OPERATION AT 638 POWER, THE CONTROL CIRCUIT FOR A STEAM SUPPLY TO MPCI TURBINE VALVE WAS FOUND TO BE DE-ENERGIZED. THE UNDERVOLTAGE RELAY HAD OPENED WHEN ITS RELAY COIL OPEN CIRCUITED. THE COIL WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) • VALVES • MPCI • STEAM • FAILURE, COMPONENT • RELAYS

100069

LUB OIL LEVEL IN HYDRAULIC SNUBBER AT MONTICELLO

NORTHERN STATES POWER CO., MINN.

3 PGS., LTR NRC 263/75-16 TO NRC DIVISION OF REACTOR LICENSING, SEPT. 24, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--DECHTEL

CAUSE - IMPROPERLY INSTALLED SEAL. DURING COLD SHUTDOWN, A SNUBBER LOCATED INSIDE THE BRYWELL WAS FOUND TO BE LUB ON OIL. TESTS SHOWED IT WAS OPERABLE. THE BERGER-PATRSON MSSA-10 LEAKED OIL DUE TO IMPROPERLY INSTALLED SEAL. THE UNIT WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

100000 PLANTHOUSE
CHARGE 02.000

MONTICELLO (UNIT) • PLANTHOUSE • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • SURVEILLANCE PROGRAM • SEAL • OLEUM • FAILURE, MAINTENANCE ERROR

100022
COUNT RATE UP SURFACE AREA MOUNTAIN (UNIT AT MONTICELLO)
NORTHMAN STATES PLANT CO., MINNEAPOLIS, MINN.
2 PGS. LTR W/NO 100/75-20 TO NRC DIVISION OF REACTOR LICENSING, SEPT. 30, 1975. JACKET 50-203, TYPE--BWR, NRC--WASH. DC--
-DECHTEL

CAUSE - FUEL FLOW RAMP FROM DETECTION. DURING REFUELING LINE OPERATIONS, THE COUNT RATE OF
SOURCE AREA MOUNTAIN 20 DECREASED BELOW 5 CPS. THE COUNT RATE REQUIRED TO BE CONSIDERED OPERABLE.
NUCLEAR FUEL TO SUSTAIN THE REQUIRED COUNT RATE WAS REMOVED FROM THE VICINITY OF THE DETECTOR.
FUEL WAS RELOADED NEAR THE DETECTOR AND SOURCE COUNT RATE INCREASED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE 02.000

MONTICELLO (UNIT) • INSTRUMENT, NUCLEAR • INSTRUMENT, STARTUP • OILY/ATER • PARTS • REFUELING • FAILURE,
ADMINISTRATIVE CONTROL • FUEL HANDLING • CRITICALITY SAFETY

107916
PERMANENT PUZZLE SURFACE CRACKS FORMING AT MONTICELLO
NORTHMAN STATES PLANT CO., MINNEAPOLIS, MINN.
2 PGS. LTR W/NO 107/75-20 TO NRC DIVISION OF REACTOR LICENSING, OCT. 22, 1975. JACKET 50-203, TYPE--BWR, NRC--
WASH. DC--DECHTEL

CAUSE - LEAKAGE PAST THERMAL SHIELD. DURING FUELWATER SPARGER REPLACEMENT, LIQUID PERMANENT
EXAMINATION REVEALED INDICATIONS OF CRACKING IN THERMAL SHIELD RADIATION OF A REACTOR VESSEL FUELWATER
PUZZLES. CRACKING WAS CAUSED BY LEAKAGE OF FUELWATER PAST THE THERMAL SHIELD WHICH CAUSED
THERMAL LOAD AT THE BURN RADIATION. INDICATIONS ARE BEING REMOVED BY GRINDING. IMPROVED THERMAL
SHIELDS, AS RECOMMENDED BY GE WILL BE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE 02.000

MONTICELLO (UNIT) • PLANTHOUSE • SURFACE • PUZZLE • FUELWATER • MAIN COOLING SYSTEM • FAILURE, DESIGN ERROR •
MODIFICATION • ADDUCTION • PRESSURE VESSELS • THERMAL MECHANICAL EFFECT

107919
STARTING SYSTEM OF DIESEL GENERATOR FAILS AT MONTICELLO
NORTHMAN STATES PLANT CO., MINNEAPOLIS, MINN.
2 PGS. LTR W/NO 107/75-21 TO NRC DIVISION OF REACTOR LICENSING, OCT. 20, 1975. JACKET 50-203, TYPE--BWR, NRC--
WASH. DC--DECHTEL

CAUSE - LOOSE AIR LINE FITTING. DURING A TEST WHILE IN A REFUELING OUTAGE, START SYSTEM 2 ON
DIESEL GENERATOR 11 FAILED DUE TO A LOOSE FITTING ON A CONTROL AIR LINE TO THE AIR START MOTORS.
THE FITTING WAS APPARENTLY NOT TIGHTENED SUFFICIENTLY WHEN PREVENTIVE MAINTENANCE WAS PERFORMED
IN AUGUST. THE FITTING WAS TIGHTENED AND OPERABILITY DEMONSTRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE 02.000

MONTICELLO (UNIT) • GENERATOR, DIESEL • ENGINES, INTERNAL COMBUSTION • PNEUMATIC SYSTEM • PIPES AND PIPE
FITTINGS • LEAK • FAILURE, MAINTENANCE ERROR • REFUELING • TEST, SYSTEM OPERABILITY

107976
CONTAINMENT ISOLATION VALVES FAIL TO MEET LEAK TIGHTNESS CRITERIA AT MONTICELLO
NORTHMAN STATES PLANT CO., MINNEAPOLIS, MINN.
9 PGS. LTR W/NO 107/75-17 TO NRC DIVISION OF REACTOR LICENSING, NOV. 11, 1975. JACKET 50-203, TYPE--BWR, NRC--
WASH. DC--DECHTEL

CAUSE - GENT ON SCALE ON SEAT SURFACE. DURING THE REFUELING OUTAGE WHILE CONDUCTING LOCAL LEAK
RATE TEST, 18 VALVES FAILED TO MEET THE LEAK TIGHTNESS CRITERIA. PILOT AND MAIN POPPET SEATS
WERE LAPPED ON 4 VALVES. A MAIN STEAM LINE DRAIN VALVE WAS REPLACED IN KIND WITHOUT INSPECTION
BECAUSE OF HIGH RADIOACTIVITY. TWO CORE SPRAY CHECK VALVES, A CRD VALVE, AND A STANDBY LIQUID
CONTROL VALVE HAD SCALE ON THE SEATING SURFACES. THEY WERE CLEANED AND LAPPED. A DRYWELL SUMP
VALVE HAD A PIECE OF WASHER ON THE SEAT. THE SEAT WAS CLEANED. A MFC TURBINE EXHAUST CHECK
VALVE HAD A SCRATCHED SEAT. THE SURFACE WAS LAPPED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE 02.000

MONTICELLO (UNIT) • LEAK RATE • VALVES • VALVE, CHECK • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE •
REFUELING • CONTAINMENT ISOLATION

107600

LPCL RELIEF VALVE INLET LINE CRACKS AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MINN.

2 PGS, LTR W/AD 263/75-22 TO NRC DIVISION OF REACTOR LICENSING, NOV. 11, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - EXCESS CYCLIC MOVEMENT. DURING THE REFUELING OUTAGE, A CRACK WAS DISCOVERED IN THE 1 INCH INLET NIPPLE TO LOOP 6 LPCL RELIEF VALVE. IT CRACKED BECAUSE OF EXCESS CYCLIC MOVEMENT INDUCED BY UNRESTRAINED RELIEF VALVE DISCHARGE LINE. THE INLET CONNECTION STRESS WAS REDUCED BY MODIFYING THE DISCHARGE LINE AND THE INLET CONNECTION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) + PIPES AND PIPE FITTINGS + LPCL + CRACK + LEAK + FAILURE, PIPE + FAILURE, FATIGUE + STRESS + CYCLING + FAILURE, DESIGN ERROR

108257

DIESEL GENERATOR TRIPS ON OVERSPEED AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MINN.

2 PGS, LTR W/AD 263/75-22 TO NRC DIVISION OF REACTOR LICENSING, NOV. 26, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - MALADJUSTED CAM OPERATED SWITCH. DURING A TEST WHILE THE REACTOR WAS IN A REFUELING SHUTDOWN, DIESEL GENERATOR 12 TRIPPED ON OVERSPEED DURING FAST START. THE CAM OPERATED SWITCH IN THE FAST START CONTROL CIRCUIT WAS IMPROPERLY POSITIONED WHEN THE ENGINE GOVERNOR WAS REPLACED ON OCT. 15. THE CAM WAS ADJUSTED AND OPERABILITY WAS DEMONSTRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) + GENERATOR, DIESEL + ENGINES, INTERNAL COMBUSTION + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + INSTRUMENT, SWITCH + REFUELING

108258

SET POINT DRIFT ON APR TIME DELAY RELAY AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MINN.

2 PGS, LTR W/AD 263/75-24 TO NRC DIVISION OF REACTOR LICENSING, NOV. 26, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING A TEST OF THE APR SYSTEM DURING THE REFUELING OUTAGE, THE AUTO BLUN DOWN DELAY RELAY FOR ONE CHANNEL FAILED TO ENERGIZE IN THE REQUIRED TIME PERIOD. THE GE MODEL CR2020 41J A41 SERIES A, 115/125 VDC, 3-100 SEC PNEUMATIC TIME DELAY RELAY HAS A REPETITIVE ACCURACY OF $\pm 10\%$. IT WAS RESET TO 106 SECONDS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) + DELAYS + INSTRUMENT CALIBRATION + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + REFUELING + ENGINEERED SAFETY FEATURE

108259

FIP BALL VALVE FAILS TO CLOSE AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MINN.

2 PGS, LTR W/AD 263/75-25 TO NRC DIVISION OF REACTOR LICENSING, NOV. 26, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - STUCK LIMIT SWITCH. WHILE PREPARING FOR CONTINUENT LEAK TESTING DURING THE REFUELING OUTAGE, FIP BALL VALVE 3 FAILED TO CLOSE COMPLETELY. WHEN THE VALVE WAS TAPPED, IT CLOSED. A WAFER-TYPE LIMIT SWITCH STUCK PREVENTING THE VALVE FROM CLOSING. THE GEN. PNEUMATICS, CAT NO. 008 R0300 BALL VALVE WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MONTICELLO (BWR) + VALVES + INSTRUMENT, IN CORE + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + INSTRUMENT, SWITCH + REFUELING

108260

REC TURBINE FAILS TO START AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MINN.

2 PGS, LTR W/AD 263/75-26 TO NRC DIVISION OF REACTOR LICENSING, NOV. 26, 1975, DOCKET 50-263, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - STEAM CONTROL VALVE STUCK CLOSED. DURING A TEST WITH THE REACTOR SHUT DOWN FOR REFUELING, THE REC TURBINE FAILED TO START WHEN GIVEN A FAST START. THE STEAM CONTROL VALVE HAD STUCK CLOSED. CORROSION PRODUCTS AND CRUD HAD BUILT UP ON THE VALVE STEM AND PIVOTS CAUSING BINDING OF THE VALVE. THE STEM AND PIVOTS WERE POLISHED AND LUBRICATED. FAST START CAPABILITY WAS

100260 CONTINUED
DEMONSTRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

MONTICELLO (BWR) + PRCIC + TURBINE + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + VALVES + CORROSION +
FAILURE, MAINTENANCE ERROR + CRUD

109186
HYDRAULIC SHOCKER FOUND TO BE INOPERABLE AT MONTICELLO
NORTHERN STATES POWER CO., MINNEAPOLIS, MN

2 PGS. LTR W/AD 263/75-27 TO NRC DIVISION OF OPERATING REACTORS, DEC. 31, 1975, DOCKET 50-263, TYPE--BWR, NRG--
G.E., AE--BELMTEL

CAUSE - IMPROPERLY INSTALLED. WHILE OPERATING AT 100% POWER, A HYDRAULIC SHOCKER LOCATED OUTSIDE
THE DRYWELL WAS DISCOVERED TO BE INOPERABLE DUE TO LOOSENESS AND IMPROPER ORIENTATION OF THE PIPE
CLAMP. THE CLAMP WAS IMPROPERLY INSTALLED DURING PLANT CONSTRUCTION. IT WAS ADJUSTED AND
TIGHTENED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

MONTICELLO (BWR) + SHOCK ABSORBER + SUPPORT STRUCTURE + PIPES AND PIPE FITTINGS + FASTENER + FAILURE,
INSTALLATION ERROR + SURVEILLANCE PROGRAM + FAILURE, EQUIPMENT

100361
WASTE EVAPORATION CONCENTRATION LEAKS AT NINE MILE POINT 1
NIAGARA MOHAWK POWER CORP., N.Y.

2 PGS. LTR WITH AD RPT 75/3 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 1, MARCH 5, 1975, DOCKET 50-
220, TYPE--BWR, NRG--G.E., AE--NIAGARA MOHAWK

CAUSE - GROSS CORROSION. DURING A PLANT STARTUP, THRU WALL LEAKAGE WAS FOUND ALONG A HORIZONTAL
LINE 1/2 INCH BELOW THE CIRCUMFERENTIAL WELD BETWEEN THE TANK SHELL AND TANK HEAD ON THE WASTE
EVAPORATION CONCENTRATOR. CORRODED AREAS WERE FOUND ON THE TANK BOTTOM. FAILURE RESULTED FROM
GROSS CORROSION AND PITTING CAUSED BY SULFURIC ACID CONTAMINATION. THE CONCENTRATOR WILL EITHER
BE REPAIRED OR REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

NINE MILE POINT (BWR) + WASTE TREATMENT, EQUIPMENT + EVAPORATION + LEAK + CORROSION + FAILURE, EQUIPMENT +
SULFURIC ACID

100387
HPCI PUMP FAILS TO START AT NINE MILE POINT 1
NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES. LETTER WITH AD REPORT 75/4 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 1, MARCH 5, 1975,
DOCKET 50-220, TYPE--BWR, NRG--G.E., AE--NIAGARA MOHAWK

CAUSE - LOOSE LINKAGE IN SWITCH. DURING A STARTUP, A HPCI PUMP (NO. 12F.W.1) FAILED TO START DUE
TO A BROKEN LINKAGE ON THE SUCTION PRESSURE SWITCH. VIBRATION DISCONNECTED THE LINKAGE BETWEEN
THE BOUNDARY TUBE AND THE MERCURIO SWITCH. THE SWITCH LINKAGE WAS REPLACED. IT WILL BE CHECKED
PERIODICALLY WHEN THE PUMP IS OPERATING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, COMPONENT + NINE MILE POINT (BWR) + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + VIBRATION + CABLES AND
CONNECTORS + PUMPS + HPCI

102281
EMERGENCY VENTILATION SYSTEM VALVE FAILS TO OPEN AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES. LETTER WITH LTR 75/5 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, APRIL 14, 1975, DOCKET 50-220,
TYPE--BWR, NRG--G.E., AE--NIAGARA MOHAWK

CAUSE - SOLENOID FAILURE. DURING TESTING OF THE EMERGENCY VENTILATION SYSTEM, A VALVE FAILED TO
OPEN AS REQUIRED. IT WAS IMMEDIATELY HAND-OPENED. THE SOLENOID VALVE IN THE RPS FAILED DUE TO A
BROKEN STEM AND METAL CRACK. THE SOLENOID WAS REPAIRED. THE SYSTEM TEST WAS COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

NINE MILE POINT (BWR) + VALVES + VENTILATION SYSTEM + FAILURE, COMPONENT + SOLENOID + TEST, SYSTEM
OPERABILITY + VALVE OPERATIONS

102049
EMERGENCY VENTILATION SYSTEM FAILS TO OPERATE AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES. LETTER WITH AUR 75-5 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 1, APRIL 16, 1975, DOCKET 50-220. TYPE--BWR, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - SOLENOID VALVE FAILURE. DURING TESTING OF THE EMERGENCY VENTILATION SYSTEM, THE SYSTEM INLET VENTILATION VALVE FAILED TO OPEN DUE TO A BROKEN STEM IN ONE NPS SOLENOID VALVE AND METAL BRUISE IN ANOTHER. THE SOLENOID VALVE WERE REPAIRED AND THE SYSTEM TEST COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT - NINE MILE POINT (BWR) - VENTILATION SYSTEM - CRUI - TEST, SYSTEM OPERABILITY - SOLENOID - VALVES

102055
SET POINT DRIFT IN LEVEL SWITCH AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES. LETTER WITH AUR 75-56 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, MAY 6, 1975, DOCKET 50-220. TYPE--BWR, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTING WHILE THE UNIT WAS OPERATING AT 94% POWER, THE REACTOR LEVEL LO-LO-LO SWITCH WAS FOUND TO ACTUATE AT 131 INCHES OF WATER RATHER THAN THE REQUIRED 128.5 INCHES. THE INSTRUMENT WAS RECALIBRATED. THE CAUSE WAS INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) - INSTRUMENT CALIBRATION - SENSORS, LEVEL - TEST, SYSTEM OPERABILITY - FAILURE, INSTRUMENT - SET POINT - DRIFT - REACTOR SAFETY SYSTEM - INSTRUMENT, SWITCH

102056
VALVE FAILS TO OPEN AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES. LETTER WITH AUR 75-57 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, MAY 6, 1975, DOCKET 50-220. TYPE--BWR, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - LOOSE CONNECTION IN TERMINAL BLOCK. DURING TESTING WITH THE UNIT SHUT DOWN, A VALVE FAILED TO OPERATE. A LOOSE CONNECTION WAS FOUND IN THE REMOTE MANUAL WIRING TERMINAL BLOCK. THE VALVE OPERATED PROPERLY AFTER THE CONNECTION WAS TIGHTENED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) - TEST, SYSTEM OPERABILITY - CABLES AND CONNECTORS - FAILURE, EQUIPMENT - FAILURE, MAINTENANCE ERROR - VALVES

102057
RELAY COIL IN THE RPS FAILS AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES. LETTER WITH AUR 75-59 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, MAY 6, 1975, DOCKET 50-220. TYPE--BWR, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - NORMAL FAILURE FROM HIGH USAGE. DURING NORMAL OPERATION AT 55% POWER, THE RELAY COIL IN A RPS RELAY SHORTED. THE RELAY FAILED IN THE TRIPPED CONDITION. FAILURE APPEARED TO BE NORMAL AS A RESULT OF THE ENVIRONMENT AND HIGH USAGE. THE COIL IS ALWAYS ENERGIZED. IT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) - RELAYS - FAILURE, COMPONENT - REACTOR SAFETY SYSTEM

102058
APRM FAILS TO ALARM AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., N.Y.
2 PAGES. LETTER WITH AUR 75-59 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, MAY 6, 1975, DOCKET 50-220. TYPE--BWR, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - OPEN TRANSISTOR. DURING TESTS OF THE APRM'S WHILE OPERATING AT 55% POWER, 1 OF THE 8 UNITS FAILED TO PROVIDE A HIGH ALARM. THE SCRAM FUNCTION TESTED SATISFACTORY. AN OPEN TRANSISTOR WAS FOUND IN THE DUAL ALARM UNIT. IT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

ANNUNCIATORS - FAILURE, COMPONENT - SOLID STATE DEVICE - TEST, SYSTEM OPERABILITY - NINE MILE POINT (BWR)

103209

SET POINT DRIFT IN FLOW SENSOR AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AD 75-11 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, JUNE 3, 1975, DOCKET 50-220, TYPE--BWR, MFG--G.E., AE--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 94% POWER, AN EMERGENCY CONDENSER HIGH FLOW SENSOR TRIPPED AT 17.5 PSID, WHICH IS LESS THAN THE 18 PSID LOWER LIMIT. THE INSTRUMENT WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, FLOW • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • EMERGENCY COOLING

103210

SET POINT DRIFT IN PRESSURE SWITCHES AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AD 75-12 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, JUNE 3, 1975, DOCKET 50-220, TYPE--BWR, MFG--G.E., AE--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTS WITH THE REACTOR OPERATING AT 93% POWER, MINOR SET POINT DRIFT WAS FOUND ON 3 HIGH DRYWELL PRESSURE SENSORS. THE LIMIT IS 3.9 PLUS OR MINUS .099 PSIG. THIS IS VERY RESTRICTIVE. THE INSTRUMENTS WERE IMMEDIATELY RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM • CONTAINMENT

103211

SET POINT DRIFT IN LEVEL SENSORS AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AD 75-13 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, JUNE 3, 1975, DOCKET 50-220, TYPE--BWR, MFG--G.E., AE--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR OPERATING AT 92% POWER, 3 OF THE 4 LO-LO WATER LEVEL SENSORS OPERATED BELOW THE 12% IN WATER LIMIT. THE INSTRUMENTS WERE RECALIBRATED TO THE REQUIRED SET POINT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, LEVEL • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • EMERGENCY COOLING SYSTEM • PRESSURE VESSELS

103656

EMERGENCY VENTILATION SYSTEM HEATER NOT BEING TESTED AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AD 75-15 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, JULY 2, 1975, DOCKET 50-220, TYPE--BWR, MFG--G.E., AE--NIAGARA MOHAWK

CAUSE - OVERSIGHT. DURING AN NRC INSPECTION WHILE OPERATING AT 90% POWER, THE INSPECTOR NOTED THAT THE 10 KW HEATER TEST ON THE EMERGENCY VENTILATION SYSTEM WAS NOT BEING PERFORMED PER TECH SPECS. THE TEST HAD BEEN OVERLOOKED. THE HEATER WAS TESTED AND FOUND ACCEPTABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • TEST INTERVAL • VENTILATION SYSTEM • HEATERS • REVIEW • AGENCY, NRC • FAILURE, ADMINISTRATIVE CONTROL

103697

SET POINT DRIFT IN REACTOR WATER LEVEL SENSORS AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., N.Y.

2 PAGES, LETTER WITH AD 75-16 TO NRC DIR. OF REGULATORY OPERATIONS, REGION 1, JULY 2, 1975, DOCKET 50-220, TYPE--BWR, MFG--G.E., AE--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING ROUTINE TESTING WHILE THE REACTOR WAS AT 92% POWER, 2 REACTOR WATER LO-LO LEVEL SENSORS WERE FOUND OUT OF CALIBRATION. THEY WERE 3 AND 4.5 INCHES, RESPECTIVELY, BELOW THE 7 FT 11 INCH LIMIT. THE CAUSE WAS MINOR SET POINT DRIFT. THE INSTRUMENTS WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

103097 CONTINUED
 NINE MILE POINT (BHR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, LEVEL • TEST, SYSTEM
 OPERABILITY • FAILURE, INSTRUMENT • RESET POINT • DRIFT • REACTOR SAFETY SYSTEM • PRESSURE VESSELS

103098
 SET POINT DRIFT IN CRYWELL PRESSURE SENSORS AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AOR 75-17 TO NRC DMR, OF REGULATORY OPERATIONS, REGION 1, JULY 2, 1975, Docket 50-220.
 TYPE--BHR, NPG--G.E., AE--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 92% POWER, 2 HIGH DRYWELL PRESSURE
 SWITCHES TRIPPED AT 3.7 AND 3.75 PSIG. THE LIMIT RANGE IS 3.447 TO 3.953 PSIG. THE CAUSE WAS
 MINOR SET POINT DRIFT. THE INSTRUMENTS WERE RECALIBRATED. AN INVESTIGATION INTO THE REPLACEMENT
 OF THE SENSORS OR RELAXATION OF RANGE IS UNDERWAY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

NINE MILE POINT (BHR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM
 OPERABILITY • FAILURE, INSTRUMENT • RESET POINT • DRIFT • CONTAINMENT • REACTOR SAFETY SYSTEM

103099
 STANDBY LIQUID CONTROL SYSTEM PUMP FAILS TO START AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., N.Y.
 2 PAGES, LETTER WITH AOR 75-14 TO NRC DMR, OF REGULATORY OPERATIONS, REGION 1, JULY 2, 1975, Docket 50-220.
 TYPE--BHR, NPG--G.E., AE--NIAGARA MOHAWK

CAUSE - BREAKER TRIGGER NOT LATCHED. DURING TESTING WITH THE REACTOR AT 95% POWER, A STANDBY
 LIQUID CONTROL SYSTEM PUMP WOULD NOT START. THE POWER BREAKER TRIGGER WAS NOT LATCHED. THE
 BREAKER WAS RESET AND THE TEST COMPLETED SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

NINE MILE POINT (BHR) • PUMPS • SHUTDOWN SYSTEM, SECONDARY • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT •
 BREAKER

103041
 MILK SAMPLE NOT ANALYZED ON TIME AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 2 PAGES, LETTER WITH AOR REPORT 75-20 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 1, AUG. 4, 1975,
 Docket 50-220, TYPE--BHR, NPG--G.E., AE--NIAGARA MOHAWK

CAUSE - SLOW SHIPPING. A MILK SAMPLE WAS NOT ANALYZED FOR 9 DAYS. ETS REQUIRES ANALYSIS WITHIN 8
 DAYS. THE SAMPLE WAS SENT TO THE LAB VIA GROUND TRANSPORTATION. IN THE FUTURE, IT WILL BE SENT
 BY AIR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

NINE MILE POINT (BHR) • MILK • SAMPLING • TRANSPORTATION AND HANDLING • TEST INTERVAL • FAILURE,
 ADMINISTRATIVE CONTACT

103042
 TORUS VACUUM RELIEF TO ATMOSPHERE SWITCHES NOT TESTED AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 2 PAGES, LETTER WITH AOR REPORT 75-19 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 1, AUG. 4, 1975,
 Docket 50-220, TYPE--BHR, NPG--G.E., AE--NIAGARA MOHAWK

CAUSE - TEST OVERLOOKED. DURING A REVISION OF TECH SPECS, A CHANGE IN TESTING REQUIREMENTS WENT
 UNNOTED AND A SURVEILLANCE TEST ON TORUS VACUUM RELIEF TO ATMOSPHERE SWITCHES WAS NOT COMPLETED.
 THE OMISSION WAS NOTED DURING A REVIEW OF THE TECH SPECS AND THE TEST COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

NINE MILE POINT (BHR) • TEST INTERVAL • INSTRUMENT, SWITCH • SENSORS, PRESSURE • FAILURE, ADMINISTRATIVE
 CONTROL • REVIEW • TESTING

103043
 EMERGENCY CONDENSER VENT RADIATION MONITOR FAILS AT NINE MILE POINT
 NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
 2 PAGES, LETTER WITH AOR REPORT 75-18 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 1, AUG. 4, 1975,
 Docket 50-220, TYPE--BHR, NPG--G.E., AE--NIAGARA MOHAWK

CAUSE - HIGH AMBIENT TEMPERATURE. DURING ROUTINE OPERATION AT 80% POWER, THE EMERGENCY CONDENSER
 VENT RADIATION MONITOR WENT UPSCALE ISOLATING THE SYSTEM AS DESIGNED. NO HIGH RADIATION WAS

105003

CONFINEMENT. APPARENTLY THE HIGH TEMPERATURE ENVIRONMENT CAUSED A COMPONENT TO FAIL. THE MONITOR WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (CON) • RADIATION MONITORS • CONDENSER • EMERGENCY COOLING • FAILURE, INSTRUMENT • TEMPERATURE • PERFECT • FAILURE, COMPONENT

105037

SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWIT. AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., N.Y.

2 PGS. LTR W/IN 75-21 TO NRC DIRECTOR OF REGULATORY OPERATIONS, REGION 1, SEPT. 3, 1975, DECREE 50-220, TYPE--OHR, REC--C.E., AC--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 64% POWER, A CORE SPRAY SPACER DIFFERENTIAL PRESSURE SWITCH TRIPPED AT 0.4 PSID INSTEAD OF THE REQUIRED 5 PSID. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE INSTRUMENT WAS RECALIBRATED TO THE REQUIRED VALUE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (CON) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • CORE SPRAY

105038

REACTOR BUILDING VENT POSITION SPIRLED AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., N.Y.

1 PAGE. LTR W/IN 75-22 TO NRC DIR. OF REGULATORY OPERATIONS, SEPT. 3, 1975, DECREE 50-220, TYPE--OHR, REC--C.E., AC--NIAGARA MOHAWK

CAUSE - SILENCED VALVE FAILED. DURING ROUTINE OPERATION AT 62% POWER, THE REACTOR BUILDING VENT POSITION SPIRLED CAUSING OPERATION OF THE EMERGENCY VENT SYSTEM. DURING REPAIR WORK, SILENCED VALVE ON 202-30 WOULD NOT OPERATE SATISFACTORILY. IT WAS FORCED TO OPEN. THE SPRING PLUGGER W/IN TIP WAS FOUND BOUNDED. THE TIP WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (CON) • VALVES • SILENCED • VENTILATION SYSTEM • OUTLETING • RADIATION MONITORS • FAILURE, COMPONENT • CONTAINMENT ISOLATION

105039

LOWING DETECTION SENSITIVITY IN MILK SAMPLE INADEQUATE AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., N.Y.

2 PGS. LTR W/IN 75-23 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, SEPT. 3, 1975, DECREE 50-220, TYPE--OHR, REC--C.E., AC--NIAGARA MOHAWK

CAUSE - PROCEDURES NOT FOLLOWED. A MILK SAMPLE FROM LOCATION NO. 1 SHOWED AN ACTIVITY OF 1-131 OF 0.70 PLUS OR MINUS 0.30 PC/L WHICH WAS AN ASSOCIATED ERROR OF 40% RATHER THAN THE REQUIRED 25%. THE CONTRACTOR DID NOT FULFILL THE PROCEDURAL REQUIREMENTS PLACED ON HIM. HE HAS BEEN INFORMED OF THE NECESSITY TO FOLLOW PROCEDURES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (CON) • RADIOLOGICAL ANALYSIS • CHEMICAL ANALYSIS • DISCING • FAILURE, OPERATION ERROR • PROCEDURES AND MANUALS • MILK

105040

APRN PAILS UNSERVICEABLE AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

2 PGS. LTR W/IN 75-24 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION 1, OCT. 3, 1975, DECREE 50-220, TYPE--OHR, REC--C.E., AC--NIAGARA MOHAWK

CAUSE - LOOSE COMPONENT IN POWER SUPPLY. DURING OPERATION AT 61% POWER, ONE APRN VENT UNSERVICEABLE. TWO APRN INPUS TO THE APRN WERE LOST THEIR POWER SUPPLY DUE TO A LOOSE COMPONENT IN THE POWER SUPPLY. THE PROBLEM WAS CORRECTED. THE APRN WAS RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (CON) • INSTRUMENT, POWER RANGE • ELECTRIC POWER • FAILURE, COMPONENT • CABLES AND CONNECTORS • REACTOR SAFETY SYSTEM

105041

100991 CONTINUED

REACTOR PUMP #115 TO START AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

2 PGS. LTR W/AD 75-25 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, OCT. 3, 1975, DOCKET 50-220, TYPE-BWR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - LARGE FUSE HOLDER. DURING THE PROCESS OF SHUTDOWN FOR REFUELING FEEDWATER PUMP 12 WOULD NOT START UP SEPARATE. THE CIL PUMP MOTOR BREAKER HAD A LARGE 120 V CONTROL FUSE HOLDER ON THE TERMINAL BLOCK APPARENTLY CAUSED BY VIBRATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • PUMPS • FEEDWATER • FAILURE, EQUIPMENT • INSTRUMENT, PROTECTIVE • VIBRATION • BREAKER

100992

UNITELL FLOW URINAL LEAKAGE INCREASES TO ABOVE LIMIT AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

2 PGS. LTR W/AD 75-26 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, OCT. 3, 1975, DOCKET 50-220, TYPE-BWR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - REACTOR PUMP MOTOR COOLING LINE LEAK. DURING A ROUTINE SHUTDOWN FOR REFUELING WITH THE REACTOR AT 200 PSIG, THE UNITELL FLOOR URINAL LEAKAGE INCREASED ABOVE 5 GPM. A LEAK WAS FOUND ON A REACTOR RECIRCULATION PUMP POTCH COOLING LINE (NOT A PART OF THE RC BOUNDARY). THE LEAKING INSULATED BUSHING IN THE PUMP OIL COOLING SYSTEM WILL BE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • LEAK • PIPES AND PIPE FITTINGS • COOLING • MOTORS • FAILURE, PIPE • REFUELING

100993

POWER SUPPLY FOR RADIATION MONITOR FAILS AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

2 PGS. LTR W/AD 75-27 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, OCT. 3, 1975, DOCKET 50-220, TYPE-BWR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - DEFECTIVE COMPONENT. DURING THE REFUELING SHUTDOWN, THE POWER SUPPLY FOR A RADIATION MONITOR FAILED CAUSING OPERATION OF EMERGENCY VENTILATION AND ISOLATION OF THE EMERGENCY CONDENSER SYSTEM. THE POWER SUPPLY WAS REPLACED RETURNING THE SYSTEM TO NORMAL. BAD POWER SUPPLY COMPONENTS WILL BE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • RADIATION MONITORS • ELECTRIC POWER • FAILURE, COMPONENT • REFUELING

100994

SET POINT DRIFT IN TEMPERATURE SWITCH AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

2 PGS. LTR W/AD 75-28 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, OCT. 3, 1975, DOCKET 50-220, TYPE-BWR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE UNIT SHUTDOWN FOR REFUELING, A MAIN STEAM LINE TEMPERATURE SWITCH WAS FOUND TO ACTUATE AT 173 F, WHICH IS LESS THAN THE 190 F LIMIT. IT WAS READJUSTED TO THE REQUIRED LIMITS. THE APPARENT CAUSE WAS INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • INSTRUMENT CALIBRATION • SENSORS, TEMPERATURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REFUELING • INSTRUMENT, SWITCH

107768

SET POINT DRIFT IN TEMPERATURE SWITCH AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.

2 PGS. LTR W/AD 75-29 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, NOV. 4, 1975, DOCKET 50-220, TYPE-BWR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING A CALIBRATION CHECK WITH THE REACTOR IN SHUTDOWN CONDITION, A MAIN STEAM LINE TEMPERATURE SWITCH WAS FOUND TO ACTUATE AT 216 F RATHER THAN THE 200 F LIMIT. THE BI-METALLIC THERMAL SWITCH, PART NO. 17002-40, RANGE -100 TO +600 F WAS RECALIBRATED TO TRIP AT 199 F. INSTRUMENT DRIFT WAS THE APPARENT CAUSE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, TEMPERATURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM

107700
SET POINT DRIFT IN TEMPERATURE SWITCH AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
2 PGS. LTR W/NO 75-32 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, NOV. 4, 1975. Docket 50-220, TYPE-
-DNR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING A CALIBRATION CHECK WHILE THE REACTOR WAS SHUT DOWN, A PAIR
STEAM LINE TEMPERATURE SWITCH WAS FOUND TO ACTUATE AT 212 F WHICH EXCEEDS THE 200 F LIMIT. THE
BI-METALLIC THERMAL SWITCH, PART NO 17002-40, RANGE -100 TO +600 F WAS RECALIBRATED TO TRIP AT
199 F. THE APPARENT CAUSE WAS INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

NINE MILE POINT (DNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, TEMPERATURE • TEST, SYSTEM
OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM

108517
RADIATION MONITORS FAIL TO TRANSFER VENTILATION SYSTEMS AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
3 PGS. LTR W/NO 75-32 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, NOV. 20, 1975. Docket 50-220,
TYPE-DNR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - OPERATOR ERROR. DURING RADIATION PROTECTION TESTING WITH THE REACTOR IN A REFUELING
OUTAGE, BOTH RADIATION MONITORS IN THE REACTOR BUILDING VENTILATION DUCT FAILED TO PROVIDE
TRANSFER TO EMERGENCY VENTILATION SYSTEM UNTIL 20 MPM AND 30 MPM RESPECTIVELY WAS APPLIED TO
THE SENSORS. CALIBRATION HAD JUST BEEN PERFORMED. AN INADVERTANT ADJUSTMENT WAS MADE PRIOR TO
CALIBRATION. BETTER COORDINATION BETWEEN THE VERIFICATION OF TRIP POINT AND ELECTRONIC ALIGNMENT
WILL BE IMPLEMENTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

NINE MILE POINT (DNR) • RADIATION MONITORS • VENTILATION SYSTEM • SET POINT • FAILURE, OPERATOR ERROR •
INSTRUMENT CALIBRATION • FAILURE, COMMON MODE • REFUELING

100510
CHEMICAL CONCENTRATION OF EFFLUENT EXCEEDS LIMIT AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., SYRACUSE, N.Y.
3 PGS. LTR W/NO 75-32 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, NOV. 20, 1975. Docket 50-220,
TYPE-DNR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - VALVE LEAK. DURING A REFUELING SHUTDOWN THE MAKE-UP WATER, ALLEGEDLY, WASTE TANK DISCHARGE
VALVE TO THE LAKE WAS FOUND PARTIALLY OPEN RESULTING IN 1000 GALLONS OF PH12.4 AND HIGH SULPHATE
CONTENT WATER BEING INADVERTANTLY DISCHARGED TO THE LAKE. THE VALVE WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

NINE MILE POINT (DNR) • VALVES • LEAK • STORAGE CONTAINER • WASTE STORAGE • EFFLUENT • CONCENTRATION •
SULFATE • REFUELING • LAKE

100810
SET POINT DRIFT IN EMERGENCY VENT RADIATION MONITORS AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., SYRACUSE, NY
2 PGS. LTR W/NO 75-32 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, DEC. 3, 1975. Docket 50-220, TYPE-
-DNR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - UNKNOWN. UPSCALE TRIP POINTS ON BOTH EMERGENCY VENT RADIATION MONITORS WERE FOUND TO TRIP
AT 20 AND 30 MPM RATHER THAN THE 10 MPM LIMIT. INVESTIGATION REVEALED NO REASON FOR THE
MISADJUSTMENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

NINE MILE POINT (DNR) • RADIATION MONITORS • VENTILATION SYSTEM • SET POINT • DRIFT • TEST, SYSTEM
OPERABILITY • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH

100811
INADVERTANT DISCHARGE TO THE LAKE FROM WASTE TANK AT NINE MILE POINT
NIAGARA MOHAWK POWER CORP., SYRACUSE, NY
2 PGS. LTR W/NO 75-32 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, DEC. 5, 1975. Docket 50-220, TYPE-
-DNR, NRC-G.E., AE-NIAGARA MOHAWK

CAUSE - VALVE PARTLY OPEN. DURING THE REFUELING OUTAGE WHILE NEUTRALIZING THE MAKE-UP WATER,
WASTE TANK, THE DISCHARGE VALVE TO THE LAKE WAS FOUND PARTLY OPEN. ABOUT 1000 GALLONS OF
PH12.4 AND HIGH SO4 CONTENT WATER WAS INADVERTANTLY DISCHARGED TO THE LAKE. THE VALVE WAS
REPAIRED.

100011 PLANTINURUP

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (NMP) • VALVES • LEAK • WASTE HANDLING • STORAGE CONTAINER • LAKE • EFFLUENT, CHEMICAL • FAILURE, OPERATION ERROR • REFUELING

100012

SAF FAILS TO PROVIDE AN ADEQUATE SIGNAL AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, NY

2 PGS. LTR N/AJ 75-35 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, DEC. 5, 1975, Docket 50-220, TYPE--BOM, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - FAILED CAPACITOR. DURING THE REFUELING OUTAGE, STARTUP RANGE MONITOR 13 FAILED TO PROVIDE AN ADEQUATE SIGNAL TO THE MONITOR. THE INDICATION WAS DOWNSCALE. A CAPACITOR IN THE PRE-AMPLIFIER UNIT HAD FAILED. THREE SAYS WERE AVAILABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (NMP) • REACTION, PWR • INSTRUMENT, STARTUP RANGE • FAILURE, COMPONENT • ELECTRONIC FUNCTION UNITS • FAILURE, INSTRUMENT • REFUELING • INSTRUMENT, ANALOGAL INDICATION

100013

SET POINT DRIFT IN TURNS VACUUM RELIEF VALVE AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, NY

2 PGS. LTR N/AJ 75-35 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, DEC. 5, 1975, Docket 50-220, TYPE--BOM, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - SET POINT DRIFT. DURING TESTING WHILE THE PLANT WAS SHUT DOWN FOR REFUELING, A TURNS VACUUM RELIEF VALVE WAS FOUND TO OPERATE AT 3.5 INCHES OF WATER RATHER THAN THE 0.8 INCH LIMIT. THIS IS MORE CONSERVATIVE THAN THE LIMIT BUT BEYOND NORMAL SET POINT DEVIATION. THE VALVE WAS RECALIBRATED TO ACCEPTABLE VALUES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (NMP) • CONTAINMENT VACUUM BREAKER • TURNS • TEST, SYSTEM OPERABILITY • S.P. POINT • DRIFT • REFUELING • BUILDING

100014

CHLORIDES IN REACTOR COOLANT EXCEED LIMIT AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, NY

2 PGS. LTR N/AJ 75-35 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, DEC. 5, 1975, Docket 50-220, TYPE--BOM, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - LEAK IN CONDENSER TUBE. DURING THE REACTOR HEAT-UP FOLLOWING A REFUELING OUTAGE, CHLORIDES INCREASED FROM 80 PPM TO 150 PPM. THE REACTOR WAS PLACED IN COLD SHUTDOWN WITHIN 10 MINUTES. A LEAK IN A CONDENSER TUBE PRODUCED THE HIGHER CHLORIDE LEVELS. THE TUBE WAS PLUGGED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (NMP) • PLUGGANT QUALITY • CHLORIDE • CONCENTRATION • FAILURE, TUBING • CONDENSER • REACTOR SHUTDOWN • LEAK • TUBING

100015

SET POINT DRIFT IN DRYWELL PRESSURE SWITCH AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, NY

2 PGS. LTR N/AJ 75-35 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, DEC. 17, 1975, Docket 50-220, TYPE--BOM, NRC--G.E., AE--NIAGARA MOHAWK

CAUSE - INSTRUMENT DRIFT. DURING TESTING WHILE THE UNIT WAS IN A REFUELING OUTAGE, 1 OF THE 4 HIGH DRYWELL PRESSURE SENSORS WAS FOUND TO TRIP AT 3.6 PSI RATHER THAN THE 3.3 PSI LIMIT. NO APPARENT REASON WAS FOUND FOR THE DRIFT IN THE BARTON MODEL NO 200 SENSOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NINE MILE POINT (NMP) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM • CONTAINMENT • REFUELING

100016

STACK CONTINUED NOT ANALYZED AT NINE MILE POINT

NIAGARA MOHAWK POWER CORP., SYRACUSE, NY

2 PGS. LTR N/AJ 75-35 TO NRC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, DEC. 29, 1975, Docket 50-220, TYPE--BOM, NRC--G.E., AE--NIAGARA MOHAWK

109193 ALUTERNOJO

CAUSE - OPERATIONAL OVERSIGHT. DURING A REVIEW OF THE STACK RELEASE OF ENGINE AND PARTICULATES WHILE THE UNIT WAS IN A REFUELING STOPPAGE, NO STACK SAMPLE CHANGE AND ANALYSIS WAS FOUND FOR ONE WEEK. THE OPERATOR WAS TOLD TO MONITOR THE TECH SPEC REQUIREMENTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

WINE MILL POINT (EQUIP) - SAMPLING - MONITORING, STACK - MONITORING SYSTEM, RADIATION - FAILURE, OPERATOR ERROR - REFUELING - REVIEW - TEST INTERFERE

093547

SHAMER RANGE MONITOR FAILS AT WINE MILL POINT

NIAGARA MOHAWK POWER CORPORATION, NEW YORK

3 PAGES, LETTER WITH AD REPORT 75/1 TO NRC DIVISION OF REACTOR LICENSING, DECEMBER 30, 1976, Docket 50-220, TYPE--DNR, NRC--G.E., AC--NIAGARA MOHAWK

CAUSE - DETECTOR FAILURE. DURING SCHEDULED TESTING, 1 OF THE 4 SOURCE RANGE MONITORS WAS FOUND TO BE INOPERABLE. ONLY 3 SETS ARE REQUIRED FOR STARTUP. THE DETECTOR WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT - WINE MILL POINT (EQUIP) - TEST, SYSTEM OPERABILITY - INSTRUMENT, STARTUP RANGE

099870

REACTION DUE TO TONUS VACUUM BREAKER FAILS TO OPEN AT YSTER CREEK

JERSEY CENTRAL POWER & LIGHT COMPANY, NEW JERSEY

4 PAGES, LETTER WITH AD REPORT 75/1 TO NRC DIVISION OF REACTOR LICENSING, JANUARY 17, 1975, Docket 50-219, TYPE--DNR, NRC--G.E., AC--BURNS & ROE

CAUSE - UNSTABLE BALANCE CONDITIONS. DURING TESTING OF THE REACTION DUE TO TONUS VACUUM BREAKER VALVES WHILE THE REACTOR WAS AT 1910 MW, ONE FAILED TO UNSEAT AT THE MAXIMUM ALLOWABLE OPERATING DIFFERENTIAL PRESSURE. FAILURE IS ATTRIBUTED TO AN UNSTABLE BALANCE CONDITION AT THE VALVE CLOSURE POINT. THIS CAUSED THE VALVE TO SEAT BEFORE INSTEAD OF OPENING. THE VALVE WAS READJUSTED. REPORTS ARE UNDERWAY TO VERIFY THESE VALUES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

YSTER CREEK (EQUIP) - CONTAINMENT VACUUM BREAKER - BUILDING - TEST, SYSTEM OPERABILITY - FAILURE, MAINTENANCE ERROR - TONUS

099709

INADEQUATE RELEASE OF RADIOACTIVE LIQUID TO DISCHARGE CANAL AT YSTER CREEK

JERSEY CENTRAL POWER & LIGHT COMPANY

5 PAGES, LETTER WITH AD REPORT 75/2 TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 13, 1975, Docket 50-219, TYPE--DNR, NRC--G.E., AC--BURNS & ROE

CAUSE - PROBLEMS WITH EFFICIENCY. WHILE THE REACTOR WAS IN COLD SHUTDOWN, PREPARATIONS WERE MADE TO INSPECT THE CONDENSER FOR TUBE LEAKS. TO DO THIS, BACKUP VALVES WERE OPENED TO DRAIN THE WATER OUT. THEY WERE NOT CLOSED. TUBE LEAKAGE WAS ABOUT 3 GPM. THE LEAKAGE FLOWED THROUGH THE OPEN VALVES TO THE DISCHARGE CANAL. ABOUT 4200 GALLONS WERE RELEASED BEFORE THE CONDITION WAS RECOGNIZED AND CORRECTED. THE TOTAL CALCULATED RELEASE WAS 5.13 X 10³ MICROCURIES. PROCEDURES HAVE BEEN MODIFIED TO INCLUDE CLOSING THE VALVES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MAINTENANCE AND REPAIR - YSTER CREEK (EQUIP) - PROCEDURES AND MANUALS - REVIEW - REACTOR CLOSURE - MODIFICATION - RADIOACTIVITY RELEASE - FAILURE, ADMINISTRATIVE CONTROL

100042

CONTAINMENT SPRAY PUMP FAILS TO START AT YSTER CREEK

JERSEY CENTRAL POWER & LIGHT COMPANY

3 PAGES, LETTER WITH AD REPORT 75/3 TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 19, 1975, Docket 50-219, TYPE--DNR, NRC--G.E., AC--BURNS & ROE

CAUSE - UNKNOWN. DURING TESTING OF THE CONTAINMENT SPRAY SYSTEM WHILE OPERATING AT 1200 MW, A PUMP FAILED TO START IN THE AUTOMATIC MODE. DURING RETESTS TO DETERMINE THE CAUSE, THE PUMP STARTED EACH OF THE 4 TIMES. NO CAUSE OF FAILURE HAS BEEN FOUND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT SPRAY - FAILURE, EQUIPMENT - YSTER CREEK (EQUIP) - TEST, SYSTEM OPERABILITY - PUMPS

100576

CONTAINMENT SPRAY PUMP FAILS TO START AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO.

5 PAGES, LETTER WITH AN REPORT 7576 TO NRC DIVISION OF REACTOR LICENSING, MARCH 13, 1975, DOCKET 50-219, TYPE--
NR, 75-666, RE--BURNS & ROE

CAUSE - BREAKER MALFUNCTION. DURING TESTING WITH THE REACTOR AT 1095 MW, A CONTAINMENT SPRAY PUMP FAILED TO START IN THE AUTOMATIC MODE WHEN GIVEN A SIMULATED SIGNAL. THE BREAKER TRIP BAR HAD FAILED TO RESET AFTER A PREVIOUS TRIP OF THE BREAKER. THE TRIP BAR BUSHINGS WERE CLEANED AND LUBRICATED AND THEN TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, COMPONENT • CONTAINMENT SPRAY • OYSTER CREEK (OAR) • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE
EQUIPMENT • LUBRICATION • BREAKER • PUMPS

100573

AVERAGE PLANT LINEAR HEAT GENERATION RATE EXCEEDED AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO.

5 PAGES, LETTER WITH AN REPORT 7576 TO NRC DIVISION OF REACTOR LICENSING, MARCH 13, 1975, DOCKET 50-219, TYPE--
NR, 75-666, RE--BURNS & ROE

CAUSE - CONTROL ROD MALFUNCTION. DURING THE WEEKLY CONTROL ROD EXERCISE WITH THE REACTOR AT 1097 MW, A CONTROL ROD INSERTED FROM POSITION 40 TO POSITION 20 WHEN THE OPERATOR ATTEMPTED TO REINSERT IT TO POSITION 40. THE INSERTION CAUSED THE LINEAR HEAT GENERATION RATES IN FUEL ASSEMBLIES SURROUNDING THIS CONTROL ROD TO INCREASE SHARPLY IN THE UPPER PORTION OF THE CORE EXCEEDING THE LIMIT. NO FUEL FAILURES OCCURRED. ADJACENT RODS WERE MOVED TO CORRECT THIS SITUATION. THE APPARENT CAUSE WAS INTERMITTENT FAILURE OF THE ROD-IN RELAY. THE RELAY WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT • OYSTER CREEK (OAR) • TEST, SYSTEM OPERABILITY • HEAT GENERATION, INTERNAL • ROY CHANNEL •
RELAYS • CONTROL ROD DRIVE MECHANISMS

100910

STACK WAS SAMPLE SYSTEM MALFUNCTION AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT COMPANY

5 PAGES, LETTER WITH AN REPORT 7576 TO NRC DIVISION OF REACTOR LICENSING, MARCH 19, 1975, DOCKET 50-219, TYPE--
NR, 75-666, RE--BURNS & ROE

CAUSE - DESIGN ERROR. WHILE THE REACTOR WAS OPERATING AT 1062 MW, AN OPERATOR SWITCHED FROM STACK WAS SAMPLE PUMP A TO PUMP B FOR TACHOMETER TESTING. PUMP A TRIPPED OFF. AN ATTEMPT TO RESET PUMP A WAS UNSUCCESSFUL. THE OPERATOR RESET THE THERMAL OVERLOAD AND RESTARTED PUMP A AND THEN PUMP B. TOTAL TIME WITH NEITHER PUMP WAS ONE MINUTE. THE EXISTING CIRCUIT PROVIDES JUST ONE THERMAL OVERLOAD FOR BOTH PUMPS. THEREFORE, WHEN PUMP A TRIPPED, PUMP B COULD NOT BE RESTARTED UNTIL THE OVERLOAD WAS RESET. THE CIRCUIT WILL BE MODIFIED. PUMP A WILL BE INSPECTED TO DETERMINE WHY IT TRIPPED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

OYSTER CREEK (OAR) • MODIFICATION • FAILURE, DESIGN ERROR • JPF GAS • FLOW • PUMPS • RADIATION MONITORS

101144

JENKINS/RYAN HEATER IN STG SYSTEM FAILS AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT COMPANY

5 PAGES, LETTER WITH AN REPORT 7577 TO NRC DIVISION OF REACTOR LICENSING, MARCH 27, 1975, DOCKET 50-219, TYPE--
NR, 75-666, RE--BURNS & ROE

CAUSE - PLUGGED ORIFICE IN CONTROLLER. WHILE TESTING THE STANDBY GAS TREATMENT SYSTEM WITH THE REACTOR AT 1040 MW, IT WAS OBSERVED THAT THE JENKINS/RYAN HEATER IN TRAIN 1 FAILED TO ENERGIZE. FAILURE WAS CAUSED BY A PLUGGED ORIFICE IN THE AIR SUPPLY TO THE CONTROLLER THAT INSTALLED 2 JENKINS/RYAN HEATERS. A NEW TYPE (DIFFERENTIAL RELAY (DOORE PRODUCTS)) WAS INSTALLED IN PLACE OF THE ORIGINAL ORIFICE BECAUSE IT IS LESS SUSCEPTIBLE TO PLUGGING. THIS MODIFICATION WILL BE MADE TO TRAIN 2 ALSO. THE NEPA AND CHEMICAL FILTERS ARE BEING TESTED PRIOR TO THE REPAIRING OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, COMPONENT • OYSTER CREEK (OAR) • CONTROL • CRU • MODIFICATION • TEST, SYSTEM OPERABILITY • FAILURE,
DESIGN ERROR • ORIFICE • STANDBY GAS TREATMENT • HEATERS

101410

AVERAGE LINEAR HEAT GENERATION RATE EXCEEDED FOR PWR ASSEMBLIES AT OYSTER CREEK

10410 CONTINUED
 JERSEY CENTRAL POWER & LIGHT COMPANY
 3 PAGES, LETTER WITH NO REPORT 75/0 TO NRC DIVISION OF REACTOR LICENSING, APRIL 3, 1975, DOCKET 50-219, TYPE--
 BUR, MW--G.E., AE--BURNS & ROE

CAUSE - JUDGMENT ERROR IN MONITORING. REACTOR POWER WAS LOWERED TO ACCOMMODATE FUEL
 SHAPING. DURING A LATER MONITORING, IT WAS FOUND THAT THE LINEAR HEAT GENERATION RATE FOR 4
 ASSEMBLIES WAS AT LEAST OF THE LIMIT OF 10.57 MW/FT AT THE LOCAL EXPOSURE OF THE FUEL INVOLVED.
 THE CAUSE WAS FAILURE TO PROPERLY MONITOR THE REACTOR CORE. FOLLOWING THE POWER SHAPING, THERE
 WAS A JUDGMENT ERROR MADE IN SELECTING WHICH FUEL TO MONITOR. THE AMPLITUDE OF THE AFFECTED FUEL
 WAS REDUCED TO 9.92 MW/FT BY INSERTION OF CONTROL ROD GROUP 23 FROM POSITION 36 TO POSITION 32.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

INSTRUMENT, IN CORE + OYSTER CREEK (BUR) + POWER DISTRIBUTION + HEAT GENERATION, INTERNAL + FAILURE,
 ADMINISTRATIVE CONTROL + HOT CHANNEL + RATE + FUEL ELEMENTS

101162
 ELECTRICAL FAULT CAUSES BREAKER TO TRIP AT OYSTER CREEK
 JERSEY CENTRAL POWER & LIGHT COMPANY
 3 PAGES, LETTER WITH NO REPORT 75/0 TO NRC DIVISION OF REACTOR LICENSING, APRIL 8, 1975, DOCKET 50-219, TYPE--
 BUR, MW--G.E., AE--BURNS & ROE

CAUSE - JUMPED CABLE. DURING THE REFUELING UTILITY, BREAKER IC TRIPPED DUE TO A FAULT IN BUS IC.
 POWER TO REACTOR PROTECTION SYSTEM 1 WAS REESTABLISHED BY TRANSFERRING POWER FEED TO THE
 TRANSFORMER. THE BREAKER TRIP WAS CAUSED BY A SHORT IN 1 OF THE 2 PHASE LEADS BETWEEN THE BUS
 AND THE GISEL GENERATOR. A HIGH POTENTIAL TEST OF 25 KV DC RESULTED IN FAILURE OF 3 OF THE 5
 OTHER LEADS. THE INSTALLED CABLE IS VULCARE, INSULATED AND SHIELDED, NO. SE-50004, RATED AT 5
 KV. THE FAILED SECTIONS WILL BE REPLACED WITH JE VULCARE, 5000 V, 500 PCM TYPE SI-50004. THEY
 WILL BE TESTED AT 15 KV DC MAXIMUM FOR 15 MINUTES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

EMERGENCY POWER, ELECTRIC + FAILURE, EQUIPMENT + OYSTER CREEK (BUR) + REFUELING + CABLES AND CONNECTIONS +
 BREAKER

101090
 TORUS VACUUM BREAKER VALVE LEAKAGE HIGH AT OYSTER CREEK
 JERSEY CENTRAL POWER & LIGHT COMPANY
 3 PAGES, LETTER WITH NO REPORT 75/0 TO NRC DIVISION OF REACTOR LICENSING, APRIL 16, 1975, DOCKET 50-219, TYPE--
 BUR, MW--G.E., AE--BURNS & ROE

CAUSE - COMPONENT FAILURE. DURING LOCAL LEAK RATE TESTS WITH THE UNIT SHUT DOWN FOR REFUELING, 2
 REACTOR BUILDING TO TORUS VACUUM BREAKER BLEED VALVES WERE FOUND TO HAVE LEAK RATES IN EXCESS OF
 LIMITS. THE VALVES WILL BE ADJUSTED AND/OR REPAIRED. IT IS ANTICIPATED THAT THESE VALVES WILL
 BE REPLACED DURING THE CURRENT REFUELING OUTAGE OR DURING THE NEXT OUTAGE OF SUFFICIENT LENGTH OF
 TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

OYSTER CREEK (BUR) + TEST, LEAK RATE + CONTAINMENT VACUUM BREAKER + BUILDING + REFUELING + TEST, SYSTEM
 OPERABILITY + LEAK RATE + VALVES + TORUS

102202
 LEAKAGE OF THE MAIN LINE DRAIN AND BYPASS EXCEEDS LIMIT AT OYSTER CREEK
 JERSEY CENTRAL POWER & LIGHT CO.
 3 PAGES, LETTER WITH NO REPORT 75/11 TO NRC DIV. OF REACTOR LICENSING, APRIL 19, 1975, DOCKET 50-219, TYPE--BUR, MW--
 G.E., AE--BURNS & ROE

CAUSE - VALVE PACKING LEAK. LOCAL LEAK RATE TESTS CONDUCTED ON THE MAIN STEAM LINE DRAIN AND
 BYPASS LINE DURING A REFUELING UTILITY SHOWED THE LEAKAGE TO BE 30.3 SCFH AT 20 PSIG PRESSURE.
 THE PACKING ON A VALVE HAD FAILED. AFTER THE PACKING HAS BEEN REPLACED, THE LINE WILL BE
 RETESTED TO DETERMINE IF A FAILURE OF REDUNDANT COMPONENTS HAD OCCURRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

OYSTER CREEK (BUR) + VALVES + SEAL + MAIN DRAINING SYSTEM + STEAM + CLEAN + TEST, SYSTEM OPERABILITY + TEST,
 LEAK RATE + CONTAINMENT INTEGRITY + REFUELING

102504
 SET POINT SHIFT IN PRESSURE SWITCHES AT OYSTER CREEK (BUR)
 JERSEY CENTRAL POWER & LIGHT CO.
 3 PAGES, LETTER WITH NO REPORT 75-12 TO NRC DIVISION OF REACTOR LICENSING, MAY 8, 1975, DOCKET 50-219, TYPE--BUR,
 MW--G.E., AE--BURNS & ROE

103204 CONTINUUM

CAUSE - INSTRUMENT DRIFT. DURING TESTING ON THE 4 LOW REACTOR PRESSURE SWITCHES WHILE THE UNIT WAS BEING REFUELED, 2 SWITCHES TRIPPED AT 270 AND 280 PSIG. THESE VALUES ARE LESS THAN THE 285 PSIG LIMIT. THE SWITCHES WERE IMMEDIATELY RECALIBRATED. THE FEASIBILITY OF RAISING THE PRESSURE SWITCH SETTINGS TO ALLEVIATE THE PROBLEM OF SET POINT DRIFT IS BEING STUDIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SYSTEM CHECK (BUND) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + REFUELING + EMERGENCY COOLING SYSTEM

103206

TOTAL PEAKING FACTOR IN A CORE LOCATION EXCEEDS LIMIT AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO.

3 PAGES, LETTER WITH AD 75-15 TO NRC DIVISION OF REACTOR LICENSING, JUNE 6, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - ADMINISTRATIVE CONTROL. DURING INITIAL STARTUP FOR CYCLE 5 OPERATION, A FULL SET OF TFP TRACKS WAS COLLECTED AFTER THE POWER WAS INCREASED TO 718. CALCULATIONS INDICATED THAT THE TOTAL PEAKING FACTOR IN 1 CORE LOCATION WAS IN EXCESS OF TECH SPECS. THE APRM SCRAM AND ROD BLOCK SETTINGS WERE DETERMINED NOT TO BE ACCORDING TO SPECIFICATION. THE SETTINGS WERE ADJUSTED. THE CAUSE WAS LACK OF OPERATING EXPERIENCE WITH THE NEW CORE LOADING AND WITH THE CONSIDERABLE REACTOR LICENSE RESTRICTIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SYSTEM CHECK (BUND) + POWER DISTRIBUTION + INSTRUMENTS, MISC. + INSTRUMENT, IN CORE + TEST, SYSTEM OPERABILITY + FAILURE, ADMINISTRATIVE CONTROL

103205

EMERGENCY SERVICE WATER PUMP DISCHARGE PRESSURE LOW AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO.

3 PAGES, LETTER WITH AD 75-14 TO NRC DIVISION OF REACTOR LICENSING, JUNE 6, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - LEAKING CHECK VALVE. DURING A TEST WITH THE REACTOR AT 2212 MW, AN EMERGENCY SERVICE WATER PUMP FAILED TO DEVELOP SUFFICIENT DISCHARGE PRESSURE. FAILURE WAS ATTRIBUTED TO DIRT IN THE CHECK VALVE AT THE DISCHARGE OF THE REDUNDANT PUMP WHICH PREVENTED PROPER VALVE SEATING. THE FLUX CAUSED REVERSE ROTATION OF THE IDLE PUMP AND THE REDUCED PRESSURE OF THE OPERATING PUMP. THE CHECK VALVE WAS CLEANED AND REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SYSTEM CHECK (BUND) + PUMPS + EMERGENCY COOLING + FAILURE, COMPONENT + VALVE, CHECK + CRUD + FAILURE, MAINTENANCE ERROR + TEST, SYSTEM OPERABILITY + PRESSURE, INTERNAL

103631

SET POINT IN RELIEF VALVE PRESSURE SWITCHES AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO.

4 PAGES, LETTER WITH AD 75-16 TO NRC DIVISION OF REACTOR LICENSING, JUNE 24, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - INSTRUMENT DRIFT. DURING SURVEILLANCE ON THE 5 ELECTROMATIC RELIEF VALVE PRESSURE SWITCHES, 2 SWITCHES TRIPPED AT 1089 AND 1085 PSIG RESPECTIVELY. MAXIMUM ALLOWABLE TRIP POINTS ARE 1084 AND 1082 PSIG RESPECTIVELY. THE SWITCHES WERE RESET. THE CAUSE IS INSTRUMENT DRIFT. THE REACTOR WAS IN THE REFUELING MODE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SYSTEM CHECK (BUND) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + PRESSURE RELIEF + REFUELING

103701

CORE SPRAY ISOLATION VALVE FAILS TO CLOSE AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO.

3 PAGES, LETTER WITH AD 75-17 TO NRC DIV. OF REACTOR LICENSING, JUNE 27, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - BROKEN POWER LEAD. DURING SURVEILLANCE ON THE 4 LOW REACTOR PRESSURE CORE SPRAY VALVE PERMISSIVE PRESSURE SWITCHES WHILE OPERATING AT 1600 MW, ONE OF THE PARALLEL ISOLATION VALVES FAILED TO CLOSE COMPLETELY. IT HAD FRACTURED PROPERLY EARLIER. THE TAG ON PHASE B OF THE VALVE MOTOR BREAKER STAB WAS BROKEN RESULTING IN INTERMITTENT CONTACT WITH THE ASSOCIATED BUS BAR. THIS CAUSED THE VALVE MOTOR TO TRIP. THE MOTOR BREAKER STAB WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

103701 CONTINUOUS
CHARGE 02-001

OYSTER CREEK (UNIT) • VALVES • CONTAINMENT ISOLATION • CORE SPRAY • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • CABLES AND CONNECTORS • VALVE OPERATIONS • FAILURE, EQUIPMENT

103700
HANDHOLE COVERS IN SOLIDS FILTER TRAP SET IN PLACE AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT COMPANY
3 PAGES, LETTER WITH ADM 75-18 TO NRC DIV. OF REACTOR LICENSING, JULY 1, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - UNKNOWN. WHILE THE REACTOR WAS OPERATING AT 1025 MWt, IT WAS DISCOVERED THAT TWO 0.5 INCH HANDHOLE COVERS IN THE STANDBY GAS TREATMENT FILTER TRAP WERE NOT IN PLACE. ONE WAS UPSTREAM OF THE FIRST ABSOLUTE FILTER AND THE OTHER DOWNSTREAM OF THE SECOND ABSOLUTE FILTER. THE COVERS WERE IMMEDIATELY SECURED IN PLACE. THE CAUSE COULD NOT BE DETERMINED. A FINAL PROCEDURE WAS NOT USED FOR THE LAST NEPA FILTER TESTING. A PROCEDURE FOR THIS HAS BEEN GENERATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02-001

OYSTER CREEK (UNIT) • STANDBY GAS TREATMENT • CONTAINMENT INTEGRITY • PROCEDURES AND MANUALS • MODIFICATION • TEST, FILTER • FILTER, ABSOLUTE

104221
SET POINT DRIFT IN PRESSURE SWITCHES AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT COMPANY
2 PAGES, LETTER WITH ADM 75-19 TO DIVISION OF REACTOR LICENSING, JULY 17, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - INSTRUMENT DRIFT. DURING TESTS IN THE REACTOR HIGH PRESSURE SCRAM SENSORS WITH THE UNIT AT 1025 MWt, 3 OF THE 4 SWITCHES TRIPPED 5 TO 9 PSI ABOVE THE 1000 PSIG (PLUS HEAD CORRECTION) LIMIT. THE CAUSE WAS SWITCH REPEATABILITY. THE SENSORS WERE RECALIBRATED AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02-001

OYSTER CREEK (UNIT) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM • MAIN COOLING SYSTEM

104685
SET POINT DRIFT IN PRESSURE SWITCH AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT COMPANY, MORRISTOWN, N.J.
3 PGS, LTR W/ADM 75-20 TO NRC DIV. OF REACTOR LICENSING, JULY 25, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - UNKNOWN. WHILE TESTING THE HIGH DRYWELL PRESSURE INITIATION OF THE CORE SPRAY SYSTEM WITH THE REACTOR OPERATING AT 1004 MWt, 1 OF THE 4 HIGH DRYWELL PRESSURE SWITCHES WAS FOUND TO TRIP AT 2.15 PSIG WHICH EXCEEDS THE 2.00 PSIG LIMIT. IT WAS RESET TO 2.00 PSIG. THE SPECIFIC CAUSE OF DRIFT COULD NOT BE DETERMINED. THE INSTRUMENT WAS OPERATING WITHIN ITS DESIGN ACCURACY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02-001

OYSTER CREEK (UNIT) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • SET POINT • DRIFT • REACTOR SAFETY SYSTEM • FAILURE, INSTRUMENT • CONTAINMENT

104994
ISOLATION CONDENSER SYSTEM STEAM LINE VALVE FAILS TO CLOSE AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT COMPANY, MORRISTOWN, N.J.
3 PGS, LTR W/ADM 75-21 TO NRC DIV. OF REACTOR LICENSING, AUG. 11, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E., AE--BURNS & ROE

CAUSE - TORQUE SWITCH SETTING LOW. DURING A TEST WITH THE REACTOR AT 1001 MWt, ISOLATION CONDENSER SYSTEM STEAM LINE VALVE FAILED TO CLOSE ON SIGNAL. THE MOTOR OPERATOR TORQUE SWITCH HAD TRIPPED. THE SETTING WAS INCREASED WITHIN THE RECOMMENDED RANGE AND THE VALVE WAS RETESTED SUCCESSFULLY. THE CAUSE FOR THE TRIPPING OF THE TORQUE SWITCH COULD NOT BE DETERMINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02-001

OYSTER CREEK (UNIT) • VALVES • CONTAINMENT ISOLATION • COOLING • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • SET POINT

105165
STACK GAS SAMPLE PUMP THERMAL OVERLOAD TRIPS AT OYSTER CREEK

10585 *CONTINUED*

JERSEY CENTRAL POWER & LIGHT COMPANY, MORRISTOWN

3 PGS. LTR W/ADR 75-22 TO NRC DIV. OF REACTOR LICENSING, AUG. 19, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E.,
AC--BURNS & ROE

CAUSE - UNKNOWN. WHILE THE REACTOR WAS OPERATING AT 1375 MW, THE STACK GAS SAMPLE PUMP STOPPED WHEN ITS THERMAL OVERLOAD TRIPPED. THE THERMAL OVERLOAD WAS RESET AND THE PUMP RESTARTED. IT WAS OUT OF SERVICE FOR 2 MINUTES. THE CAUSE IS UNDER INVESTIGATION. THIS PUMP HAS TRIPPED PREVIOUSLY WHILE THE ABUNDANT PUMP HAS NOT GIVEN TROUBLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHANGE 02-JUL

SYSTEM AREA (BWR) * PUMPS * OPERATOR, STACK * MONITORING SYSTEM, RADIATION * FAILURE, EQUIPMENT *
INSTRUMENT, PROTECTIVE

10590

STACK EFFLUENT PUT MONITORED FOR IODINE AND PARTICULATES AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT COMPANY, MORRISTOWN

3 PGS. LTR W/ADR 75-23 TO NRC DIV. OF REACTOR LICENSING, AUG. 28, 1975, DOCKET 50-219, TYPE--BWR, NRC--G.E.,
AC--BURNS & ROE

CAUSE - MAINTENANCE ERROR. WITH THE REACTOR OPERATING AT 1375 MW, STACK GAS LOW FLOW ALARM SOUNDED. THE PARTICULATE AND CHAMICAL FILTERS IN FILTER TRAIN A REQUIRED REPLACEMENT DUE TO NORMAL WEARING. ASSUMING NEW FILTERS WERE INSTALLED IN TRAIN B, THE FOREMAN PUT TRAIN B IN SERVICE. AFTER TRAIN A FILTERS WERE REPLACED, THE TECHNICIAN FAILED TO NOTICE THAT TRAIN A WAS STILL IN SERVICE AND DID NOT CHANGE FLOW BACK TO TRAIN A. THE ERROR WAS FOUND AND CORRECTED 3 DAYS LATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHANGE 02-JUL

SYSTEM AREA (BWR) * MONITOR, STACK * FAILURE, MAINTENANCE ERROR * FILTERS * MONITORING SYSTEM, RADIATION

10637

STACK GAS SAMPLE PUMP FAILS AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO., N.J.

3 PGS. LTR W/ADR 50-219/75/23 TO NRC DIVISION OF DIVISION OF REACTOR LICENSING, SEPT. 8, 1975, DOCKET 50-219,
TYPE--BWR, NRC--G.E., AC--BURNS & ROE

CAUSE - PUMP LUBRICATOR MALFUNCTION. WHILE INVESTIGATING THE CAUSE OF LOW FLOW ALARM, THE SHIFT FOREMAN DISCOVERED THAT STACK GAS SAMPLE PUMP A, THE ONE THAT HAD BEEN OPERATING, WAS NOT RUNNING. THE THERMAL OVERLOAD WAS RESET AND PUMP B STARTED 10 MINUTES AFTER THE ALARM WAS RECEIVED. THE DIAPHRAGM ON THE PUMP LUBRICATOR HAD BROKEN. THE PUMP WAS REPAIRED. THE FULL LOAD AMPERAGE FOR PUMP A IS 14.4 AMPS COMPARED WITH 12.3 AMPS FOR PUMP B. NO REASON FOR THIS IS KNOWN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHANGE 02-JUL

SYSTEM AREA (BWR) * PUMPS * SAMPLING * STACK * MONITOR, STACK * FAILURE, EQUIPMENT * LUBRICATION

10645

SET POINT SHIFT IN PRESSURE SWITCHES AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO., N.J.

3 PGS. LTR W/ADR 50-219/75/23 TO NRC DIVISION OF DIVISION OF REACTOR LICENSING, SEPT. 8, 1975, DOCKET 50-219, TYPE--BWR,
NRC--G.E., AC--BURNS & ROE

CAUSE - SET POINT REPEATABILITY. WHILE TESTING THE 5 ELECTROMATIC RELIEF VALVE PRESSURE SWITCHES WITH THE REACTOR IN COLD SHUTDOWN, 2 SWITCHES TRIPPED AT 1080 AND 1084 PSIG RESPECTIVELY EXCEEDING THE MAXIMUM ALLOWABLE TRIP POINTS OF 1077 AND 1082 PSIG. INSTRUMENT SET POINT REPEATABILITY IS THE CAUSE. THE DRESSER, TYPE 1539 MX, SWITCHES WERE IMMEDIATELY RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHANGE 02-JUL

SYSTEM AREA (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM
OPERABILITY * FAILURE, INSTRUMENT * SHIFT * PRESSURE RELIEF * SET POINT

10646

CONTAINMENT VACUUM BREAKER CONTROL DEFICIENCY AT OYSTER CREEK

JERSEY CENTRAL POWER & LIGHT CO., N.J.

2 PGS. LTR TO NRC DIVISION OF DIVISION OF REACTOR LICENSING, SEPT. 10, 1975, DOCKET 50-219, TYPE--BWR, NRC--
G.E., AC--BURNS & ROE

CAUSE - WIRING DESIGN ERROR. WHILE PERFORMING LOCAL LEAK RATE TESTS, 2 REACTOR BUILDING TO TORUS VACUUM BREAKER VALVES WOULD NOT CLOSE ON A HIGH DRYWELL PRESSURE SIGNAL AS REQUIRED. THE APPARENT CAUSE WAS A DESIGN ERROR IN THE WIRING. THE VALVES WERE MANUALLY OPERATED FROM THE CONTROL ROOM. DURING NORMAL OPERATION, THESE VALVES ARE CLOSED. A DESIGN CHANGE WAS INITIATED TO ACCOMPLISH CLOSURE ON HIGH DRYWELL PRESSURE.

106346 (CONTINUED)
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OYSTER CREEK (ENR) • CONTAINMENT VACUUM BREAKER • CONTROL SYSTEM • FAILURE, DESIGN ERROR • CONTAINMENT INTEGRITY • BUILDING • TUBES • TEST, SYSTEM OPERABILITY

106531
 EMERGENCY SERVICE WATER PUMP FAILS TO START AUTOMATICALLY AT OYSTER CREEK
 JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
 3 PGS, LTR W/AD 50-219/75-26 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 3, 1975, DOCKET 50-219, TYPE--
 ENR, NRC--G.E., AE--BURNS & ROE

CAUSE - TIME DELAY RELAY FAILURE. EMERGENCY SERVICE PUMP 52 C FAILED TO START AUTOMATICALLY DURING A TEST OF CONTAINMENT SPRAY SYSTEM 2 WITH THE REACTOR AT 1730 MWT. THIS RESULTED FROM FAILURE OF A CONTACT SWITCH IN THE TIME DELAY RELAY 16 K 4 A. THE RELAY WAS REPLACED. THE PUMP THEN TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OYSTER CREEK (ENR) • PUMPS • AUXILIARY COOLING • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • RELAYS

106905
 NOTICE OF VIOLATION OF QUALITY ASSURANCE CRITERIA AT OYSTER CREEK
 NUCLEAR REGULATORY COMMISSION, WASHINGTON, D.C.
 11 PGS, LTR W/AD 50-219/75-27 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 17, 1975, DOCKET 50-219, TYPE--
 ENR, NRC--G.E., AE--BURNS & ROE

CAUSE - ADMINISTRATIVE CONTROL DEFICIENCY. BASED ON THE RESULTS OF AN INSPECTION, IT APPEARS THAT CERTAIN ACTIVITIES WERE NOT CONDUCTED IN FULL COMPLIANCE WITH NRC REGULATIONS. ITEM OF NONCOMPLIANCE, WHEN VIEWED COLLECTIVELY, DEMONSTRATE A LACK OF PROPER MANAGEMENT CONTROL OF THE QUALITY ASSURANCE PROGRAM. SEVERAL ITEMS WERE CORRECTED DURING THE INSPECTION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OYSTER CREEK (ENR) • QUALITY ASSURANCE • FAILURE, ADMINISTRATIVE CONTROL • COMPLIANCE • TRAINING • TESTING • LEGALISTICS • AGENCY, NRC • EXAMINATION

107226
 SET POINT DRIFT IN PRESSURE SWITCHES AT OYSTER CREEK
 JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
 4 PGS, LTR W/AD 50-219/75-27 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 17, 1975, DOCKET 50-219, TYPE--
 ENR, NRC--G.E., AE--BURNS & ROE

CAUSE - SWITCH REPEATABILITY. DURING TESTING OF THE LJM REACTOR PRESSURE CORE SPRAY PERMISSIVE PRESSURE SWITCHES WITH THE REACTOR AT 903 MWT, 2 OF THE 4 SWITCHES TRIPPED AT 275 PSIG AND 277 PSIG, RESPECTIVELY. THESE VALUES ARE LESS THAN THE 285 PSIG LIMIT. THE CAUSE WAS SWITCH REPEATABILITY. THE BURNSDALE, B2T-A1255, SWITCHES WERE IMMEDIATELY RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OYSTER CREEK (ENR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • CORE SPRAY

107604
 STANDBY GAS TREATMENT SYSTEM INOPERABLE AT OYSTER CREEK
 JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
 3 PGS, LTR W/AD 50-219/75-28 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 26, 1975, DOCKET 50-219, TYPE--
 ENR, NRC--G.E., AE--BURNS & ROE

CAUSE - SOLENOID PUR VALVE FAILS. WHILE OPERATING AT 700 MWT, THE EMERGENCY EXHAUST SYSTEM FAN TRIP ALARM WAS RECEIVED. THE CONTROL CIRCUIT FUSE FOR THE FAN WAS BLOWN. THE AIR SOLENOID VALVE COIL FOR THE SOFT UNIFICE VALVE HAD FAILED. THE DEFECTIVE COIL WAS REPLACED AND THE STANDBY GAS TREATMENT SYSTEM WAS TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OYSTER CREEK (ENR) • VALVE OPERATORS • SOLENOID • STANDBY GAS TREATMENT • FAILURE, COMPONENT

107767
 JURUS-TO-DRYWELL VACUUM BREAKER ALARM FAILS TO OPERATE AT OYSTER CREEK
 JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
 3 PGS, LTR W/AD 50-219/75-29 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 6, 1975, DOCKET 50-219, TYPE--

107707 CONTINUOUS
NRC, NRC--G.E., AE--BURNS & ROE

CAUSE - UNKNOWN. WHILE TESTING THE TORUS TO DRYWELL VACUUM BREAKERS WITH THE REACTOR AT 1800 MW, ALARM SYSTEM 2 FAILED TO ANNUNCIATE WHEN V-20-B WAS OPENED. SUBSEQUENT OPERATION SHOWED THE ALARM TO BE OPERABLE. IT IS POSTULATED THAT A STICKING MICASWITCH FOR THE VALVE WAS THE CAUSE OF THE FAILURE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OSTER CREEK (HNM) + ANNUNCIATIONS + TEST, SYSTEM OPERABILITY + CONTAINMENT VACUUM BREAKER + INSTRUMENT, SWITCH

109252
SPEAKABLE CONTAMINATION ON CASK EXCEEDS LIMIT AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
2 PGS, LTR N/AJ 50-21975-31 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 6, 1975, DOCKET 50-219, TYPE--
NRC, NRC--G.E., AE--BURNS & ROE

CAUSE - UNKNOWN. A SPENT FUEL CASK WAS RECEIVED FROM NUCLEAR FUEL SERVICES THAT HAD 1 OF 12 SPEARS THAT EXCEEDED THE 2000 UPM/30 CM LIMIT BY 148. NO CAUSE WAS FOUND. THE CASK HAD BEEN CLEANED TWICE BEFORE BEING SENT OUT FROM NPS. THE DRIVER AND THE PUBLIC WERE NOT ENDANGERED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OSTER CREEK (HNM) + CONTAMINATION + SHIPPING CONTAINER + SURVEY, RADIATION + NPS + FUEL ELEMENTS

100403
SET POINT DRIFT IN PRESSURE SWITCHES AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
2 PGS, LTR N/AJ 50-21975-30 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 14, 1975, DOCKET 50-219, TYPE--
NRC, NRC--G.E., AE--BURNS & ROE

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 800 POWER, 2 OF THE 4 LOW REACTOR CUM SPRAY VALVE PERMISSIVE PRESSURE SWITCHES TRIPPED BELOW THE 205 PSIG LIMIT. THE AS FOUND TRIP POINTS WERE 277 AND 282 PSIG. THE BARKSWALE SWITCHES WERE RECALIBRATED. THE APPARENT CAUSE WAS INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OSTER CREEK (HNM) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + CUM SPRAY

100516
DRYWELL VACUUM BREAKER ALARM FAILS TO ANNUNCIATE AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
2 PGS, LTR N/AJ 50-21975-31 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 3, 1975, DOCKET 50-219, TYPE--
NRC, NRC--G.E., AE--BURNS & ROE

CAUSE - DEFECTIVE RELAY CONTACTS. DURING A TEST OF THE TORUS-TO-DRYWELL VACUUM BREAKERS WHILE OPERATING AT 700 POWER, ALARM SYSTEM 11 FAILED TO ANNUNCIATE IN THE CONTROL ROOM. AN AGASTAT RELAY CO. MODEL 7022 AC TIME DELAY DRIP OUT RELAY FAILED TO OPERATE BECAUSE THE CONTACTS WERE DEFECTIVE. IT WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OSTER CREEK (HNM) + ANNUNCIATIONS + CONTAINMENT VACUUM BREAKER + TORUS + CONTAINMENT + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + RELAYS

100803
EMERGENCY DIESEL GENERATOR FAILS TO START AT OYSTER CREEK
JERSEY CENTRAL POWER & LIGHT CO., MORRISTOWN, N.J.
2 PGS, LTR N/AJ 50-21975-32 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 11, 1975, DOCKET 50-219, TYPE--
NRC, NRC--G.E., AE--BURNS & ROE

CAUSE - VARNISH ON RELAY ARMATURE. DURING TESTING WITH THE REACTOR AT 600 POWER, EMERGENCY DIESEL GENERATOR 1 FAILED TO START ON SIGNAL TO FAST START (AUTOMATIC) LOGIC CIRCUIT. AN ELECTRO-MOTIVE DIV. PART NO. 839023 RELAY FOR THE LOGIC CIRCUIT FAILED TO OPERATE DUE TO VARNISH ON THE RELAY ARMATURE. VARNISH PREVENTED THE CONTACTS FROM OPENING AS REQUIRED. THE RELAY WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OSTER CREEK (HNM) + GENERATION, DIESEL + ENGINES, INTERNAL COMBUSTION + TEST, SYSTEM OPERABILITY + FAILURE, COMPONENT + RELAYS + EMERGENCY POWER, ELECTRIC

093195
125 V DC DISTRIBUTION CENTER OVERHEATED AT JYSTER CREEK
JENKINS CENTRAL POWER & LIGHT CO., PHILADELPHIA, PA
2 PGS. LTR W/AM 50-219775-33 TO AEC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 23, 1975, Docket 50-219, TYPE--
BWR, NRC--G.E., AE--BECHTEL

CAUSE - FAILURE TO FOLLOW PROCEDURES. DURING A TEST ON STATION A BATTERIES WITH THE REACTOR AT
BOX POWER, PERSONNEL ERROR IN FOLLOWING THE PROCEDURE CAUSED THE 125 V DC DISTRIBUTION CENTER TO
BE OVERHEATED. AFTER REPAIRING THE CENTER, 3 RECIRCULATION PUMPS, FEEDWATER PUMP 4, AND
CLEANUP SYSTEM A PUMP TRIPPED AS EXPECTED. A PLANT SHUTDOWN WAS COMMENCED. RECIRCULATION PUMPS
WENT OPERABLE AND THE LOAD REDUCTION WAS TERMINATED. PROCEDURES WILL BE REVISED TO DEFINE
THE STEPS MORE CLEARLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

SYSTEM (CREEK 1000) + ELECTRIC POWER + TEST, SYSTEM OPERABILITY + BATTERIES + CHARGERS + FAILURE, OPERATOR
ERROR + PROCEDURES AND MANUALS

093251
SETPOINT DRIFT IN VALUUM SWITCHES AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
1 PAGE, LTR TO AEC DIRECTORATE OF LICENSING, JANUARY 23, 1975, Docket 50-277, TYPE--BWR, NRC--G.E., AE--
BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE LOW CONDENSER VALUUM APS TRIPS WITH THE REACTOR
AT 100% POWER, 2 SWITCHES TRIPPING BELOW THE 23 INCH MW LIMIT. ONE TRIPPED AT 22.77 INCHES AND
THE OTHER AT 22.33 INCHES. THE SWITCHES WERE IMMEDIATELY RECALIBRATED. THE APPARENT CAUSE WAS
INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

REACTOR SAFETY SYSTEM + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM
OPERABILITY + PEACH BOTTOM 2 (BWR) + SET POINT + DRIFT + SENSORS, PRESSURE

093266
CONTAINMENT SPRAY ISOLATION VALVE LEAKS AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
1 PAGE, LTR TO AEC DIRECTORATE OF LICENSING, JANUARY 23, 1975, Docket 50-277, TYPE--BWR, NRC--G.E., AE--
BECHTEL

CAUSE - SCRATCHES ON SEAT AND DISC. LOCAL LEAK RATE TESTS FOR THE AHRM CONTAINMENT SPRAY VALVES
DURING A MAINTENANCE OUTAGE FOUND AN OUTBOARD ISOLATION VALVE LEAKING. SMALL SCRATCHES WERE
FOUND ON THE VALVE SEAT AND DISC. AFTER THE SCRATCHES WERE REMOVED, THE VALVE WAS SATISFACTORILY
LEAK TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CONTAINMENT SPRAY + FAILURE, EQUIPMENT + CONTAINMENT ISOLATION + TEST, LEAK RATE + TEST, SYSTEM OPERABILITY +
PEACH BOTTOM 2 (BWR) + LEAK RATE + VALVES

093265
MAIN STEAM LINE SAMPLER ISOLATION VALVE LEAKS AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
1 PAGE, LTR TO AEC DIRECTORATE OF LICENSING, JANUARY 23, 1975, Docket 50-277, TYPE--BWR, NRC--G.E., AE--
BECHTEL

CAUSE - TEST PRESSURE UNDER THE SEAT. LOCAL LEAK RATE TESTS PERFORMED DURING AN OUTAGE SHOWED THE
INBOARD MAIN STEAM LINE SAMPLER ISOLATION VALVES NOT SEALING TIGHTLY. TEST PRESSURE IS UNDER THE
SEAT WHERE OPERATING PRESSURE IS ABOVE THE SEAT CAUSING IT TO SEAT MORE TIGHTLY. THE COMPRESSION
SPRING WHICH CLOSURE THE VALVE WAS ADJUSTED SLIGHTLY TO PROVIDE MORE POSITIVE VALVE CLOSURE.
ACTUATOR AIR PRESSURE WAS INCREASED SLIGHTLY TO COMPENSATE FOR THE SPRING ADJUSTMENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CONTAINMENT ISOLATION + STEAM + TEST, LEAK RATE + SAMPLING + TEST, SYSTEM OPERABILITY + PEACH BOTTOM 2 (BWR) +
LEAK RATE + VALVES

093371
STAY-FULL ACCUMULATOR LEVEL SWITCH FAILS TO OPERATE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
1 PAGE, LTR TO OFFICE OF NUCLEAR REACTOR REGULATIONS, JANUARY 27, 1975, Docket 50-277, TYPE--BWR, NRC--
G.E., AE--BECHTEL

CAUSE - INTERNAL BINDING. DURING TESTING WHILE THE UNIT WAS SHUTDOWN FOR MAINTENANCE, A CORE

093571 PLANTING

SPRAY STAY-FULL ACCUMULATION LEVEL SWITCH FAILED TO ANNUNCIATE ON OPERATE THE VENT SCREENED VALVE WHEN THE ACCUMULATOR WAS OPERATED. THE FLINT WAS DEFENDING. THE CONNECTING ROD HAD A STUBBLE END WHICH WAS BINDING AGAINST THE INSIDE OF THE ISOLATION TUBE. AFTER IT WAS STRAIGHTENED, THE SWITCH OPERATED FREELY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT - CORE SPRAY - REACTOR, PWR - INSTRUMENT, SWITCH - TEST, SYSTEM OPERABILITY - FAILURE, MAINTENANCE ERROR - PEACH BOTTOM 2 (COMM) - SENSORS, LEVEL - ACCUMULATORS

093600

WATER VALVE THROTTLING VALVE FAILS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA

1 PAGE, LETTER TO DIRECTOR, DIVISION OF REACTOR PROJECTS, JANUARY 20, 1975, SUBJECT 50-277, TYPE--BWR, WGC--G.E., AE--DELETED

CAUSE - VIBRATION. THE REACTOR WAS SHUT DOWN AND DEPRESSURIZED WITH THE AHW OPERATING IN THE STOPPING COOLING MODE. WHILE OPENING THE AHW THROTTLING REACTOR INJECTION VALVE FROM THE CONTROL ROOM, THE MOTOR FAILED ELECTRICALLY. VIBRATION DURING VALVE OPERATION HAD LOOSED THE SET SCREW HOLDING THE VALVE SHAFT ANTI-ROTATION STOP KEY. THE KEY SLIPPED DOWN AND JAMMED AGAINST THE VALVE STEM RESULTING IN IMMEDIATE LOCKUP IN THE OPERATION. THE MOTOR WAS REPLACED. THE ANTI-ROTATION STOP AND KEY WERE REALIGNED. THE SET SCREW WAS TIGHTENED TO PLACE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT - DESIGN ERROR - VIBRATION - STOPPING COOLING SYSTEM - PEACH BOTTOM 2 (COMM) - VALVE OPERATORS - VALVES

093602

WATER SUPPLY VALVE LEAKS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA

1 PAGE, LETTER TO DIRECTOR, DIVISION OF REACTOR LICENSING, JANUARY 29, 1975, SUBJECT 50-277, TYPE--BWR, WGC--G.E., AE--DELETED

CAUSE - SCRATCHES IN SEAT. DURING LEAK RATE TESTS WITH THE UNIT STOPPED FOR MAINTENANCE A REFC STEAM SUPPLY VALVE HAD A LEAK RATE IN EXCESS OF 2300 CC/MIN. TWO WEDGE SURFACE SCRATCHES WERE FOUND IN THE VALVE SEAT. THEY WERE REMOVED. RETESTING INDICATED A NEGLECTABLE LEAKAGE RATE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT - CONTAINMENT ISOLATION - TEST, LEAK RATE - TEST, SYSTEM OPERABILITY - PEACH BOTTOM 2 (COMM) - LEAK RATE - COOLING - VALVES

093603

CORE SPRAY LINE VENT VALVE LEAKS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA

1 PAGE, LETTER TO DIRECTOR, DIVISION OF REACTOR LICENSING, JANUARY 29, 1975, SUBJECT 50-277, TYPE--BWR, WGC--G.E., AE--DELETED

CAUSE - DAMAGED SEAT. DURING MAINTENANCE OUTAGE TESTING OF THE CORE SPRAY DISCHARGE ISOLATION VALVES, THE VENT SCREENED WAS FOUND TO LEAK IN EXCESS OF LIMIT. THE SEATING SURFACE OF THE VALVE WAS DAMAGED. THE VALVE SEAT WAS REPLACED. THE TEST WAS COMPLETED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT - CORE SPRAY - FAILURE, EQUIPMENT - CONTAINMENT ISOLATION - TEST, SYSTEM OPERABILITY - PEACH BOTTOM 2 (COMM) - LEAK - VALVES

093620

A TRIP INSTRUMENT NOT IN SERVICE DURING STARTUP AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA

2 PAGES, LETTER TO DIRECTOR, DIVISION OF REACTOR LICENSING, FEBRUARY 3, 1975, SUBJECT 50-277, TYPE--BWR, WGC--G.E., AE--DELETED

CAUSE - MAINTENANCE ERROR. DURING A ROUTINE STARTUP INSPECTION, A REACTOR LOW WATER LEVEL SWAMP/REACTOR HIGH WATER LEVEL MFCI TURBINE TRIP INSTRUMENT WAS FOUND OUT OF SERVICE. FOLLOWING MAINTENANCE ON ITS INSTRUMENT TEST VALVE ALICE, THE CORRECT VALVE LINEUP WAS NOT PERFORMED. THE INSTRUMENT WAS IMMEDIATELY SACKFILLED, VENTED, AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OPERATION - REACTOR SAFETY SYSTEM - INSTRUMENT, SWITCH - FAILURE, MAINTENANCE ERROR - PEACH BOTTOM 2 (COMM) - SENSORS, LEVEL

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100090 MULTIMEDIA
REACTION WAS AT THE PUMP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM
OPERABILITY + PEACH BOTTOM 2 (BNR) + SET POINT + JET + SENSORS, PRESSURE + LPCI

100092

EXCESS LEAKAGE THROUGH NITROGEN SYSTEM CHECK VALVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 21, 1975, DOCKET 50-277, TYPE--BNR, NRC--G.E.,
AT--BCHTEL

CAUSE - DAMAGED SEAT. DURING LOCAL LEAK RATE TESTING WHILE THE REACTOR WAS SHUTDOWN, 1 OF THE 2
CHECK VALVES IN THE INSTRUMENT NITROGEN SYSTEM WAS FOUND TO LEAK EXCESSIVELY. THE VALVE SEATING
SURFACES WERE DAMAGED. A DUPLICATE CHECK VALVE WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT + TEST, LEAK RATE + NITROGEN + TEST, SYSTEM OPERABILITY + DAMAGE + PEACH BOTTOM 2 (BNR) +
LEAK + VALVE, CHECK + INSTRUMENTS, WISC.

100093

WPC TURNING EXHAUST CHECK VALVE LEAKAGE HIGH AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 22, 1975, DOCKET 50-277, TYPE--BNR, NRC--G.E.,
AT--BCHTEL

CAUSE - HIGH SURFACE IMPERFECTIONS. DURING LOCAL LEAK RATE TESTING WHILE THE UNIT WAS SHUTDOWN,
THE WPC TURNING EXHAUST CHECK VALVE WAS FOUND TO LEAK IN EXCESS OF 2000 CC/MIN. LEAKAGE
RESULTED FROM HIGH SURFACE IMPERFECTIONS IN THE DISC AND SEAT. THE DISC WAS MACHINED AND THE
SEAT LAPPED. THE VALVE WAS SATISFACTORILY LEAK TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT + PLAN + TEST, SYSTEM OPERABILITY + PEACH BOTTOM 2 (BNR) + LEAK RATE + VALVE, CHECK + LPCI

100094

DIFFERENTIAL PRESSURE SWITCH FAILS TO RESPOND AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 23, 1975, DOCKET 50-277, TYPE--BNR, NRC--G.E.,
AT--BCHTEL

CAUSE - LIMING BINDING. DURING TESTING OF THE DIFFERENTIAL PRESSURE SWITCHES ON THE JET PUMP
WATER USED IN THE LPCI PUMP SELECTION LOGIC, ONE FAILED TO RESPOND TO A SIGNAL. UPON DISASSEMBLY
OF THE SWITCH, ONE OF THE INTERNAL CONNECTING WIRES WAS FOUND TO BE INTERFERING WITH THE SWITCH
LIMING. THE WIRING WAS REVERSESED AND THE SWITCH WAS RECALIBRATED. THE REACTOR WAS IN SHUTDOWN
CONDITION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + FAILURE,
INSTALLATION ERROR + PEACH BOTTOM 2 (BNR) + CABLES AND CONNECTORS + SENSORS, PRESSURE + LPCI

100075

FISH TRAPPED IN INTAKE SCREENS AT PEACH BOTTOM 2 AND 3
PHILADELPHIA ELECTRIC CO., PA.
1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 7, 1975, DOCKETS 50-277/278, TYPE--BNR, NRC--G.E.,
AT--BCHTEL

CAUSE - HEAVY TRASH DURING HIGH FLOW. DURING A PERIOD OF VERY HIGH RIVER FLOW CAUSED BY HEAVY
RAINS AND MELTING SNOW, THE PLANT INTAKE SCREEN ACCUMULATED AN EXTREMELY HEAVY LOAD OF LEAVES AND
SMALL TREE LIMBS. FISHED WITH THE TRASH WERE FISH IN EXCESS OF THE 4 CU FT LIMIT. THIS
CONDITIONS LASTED FOR ONLY A 24-HR PERIOD. FISH WERE TRAPPED IN THE TRASH. DURING PERIODS OF
SLOWER INCREASE IN RIVER FLOW, FISH TEND TO CONCENTRATE ALONG THE SHORELINE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FILTER, SCREEN + PEACH BOTTOM 2 (BNR) + WEATHER, SEVERE + ANIMAL, FISH + MORTALITY + PEACH BOTTOM 3 (BNR) +
ECOWISEMAN COULING SYSTEM

100077
SECOND PAN ON COOLING TOWER FAILS AT PEACH BOTTOM 2 AND 3
PHILADELPHIA ELECTRIC CO., PA.
2 PAGES. LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 16, 1975. DOCKET 50-277, TYPE--DNR, NRC--G.E., AE--
BECHTEL

CAUSE - MOTOR DRIVING OIL SEAL FAILURE. WHILE BOTH UNITS WERE OPERATING AT ABOUT 90% POWER, A SECOND PAN ON COOLING TOWER C FAILED. THE MOTOR DRIVING OIL SEAL HAD FAILED. SINCE 5 OF THE 11 PANS WERE RUNNING, WATER TEMPERATURE LEAVING THE TOWER REMAINED ONLY SLIGHTLY. THE PAN WAS REPLACED 4 DAYS LATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • FAILURE, EQUIPMENT • SEAL • PEACH BOTTOM 2 TOWER • COOLING TOWER • PEACH BOTTOM 2 TOWER • COOLING TOWER, MECHANICAL • MOTORS • BELTDRIVERS

100076
SET POINT DRIFT IN VACUUM SWITCH AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PA.
1 PAGE. LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 16, 1975. DOCKET 50-277, TYPE--DNR, NRC--G.E., AE--
BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT FULL POWER, THE SET POINT OF A CONDENSER LOW VACUUM SWITCH PRESSURE SWITCH WAS FOUND TO BE 22.85 INCHES OF Hg. WHICH IS LESS THAN THE 23-INCH LIMIT. THE CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS IMMEDIATELY RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR SAFETY SYSTEM • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • PEACH BOTTOM 2 TOWER • CONDENSER • SET POINT • DRIFT • SENSORS, PRESSURE

101143
REFUELING AREA EXHAUST RADIATION MONITOR FAILS DOWNSCALE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE. LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 26, 1975. DOCKET 50-277, TYPE--DNR, NRC--G.E., AE--
BECHTEL

CAUSE - ZENER DIODE FAILURE. THE REFUELING AREA EXHAUST RADIATION MONITOR FAILED DOWNSCALE WHILE THE REACTOR WAS OPERATING AT 100% POWER. THIS WAS 1 OF 4 DETECTORS. A ZENER DIODE IN THE DETECTOR CIRCUITRY WAS FAILING DUE TO LEAKING EFFECTS. THE COMPONENT WAS REPLACED AND THE CHANNEL RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • VENTILATION SYSTEM • REFUELING • PEACH BOTTOM 2 TOWER • ELECTRONIC FUNCTION UNITS • RADIATION MONITORS

101146
IMPROPER VALVING DEFEATS LPCI LOOP SELECTION LOGIC AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE. LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 27, 1975. DOCKET 50-277, TYPE--DNR, NRC--G.E., AE--
BECHTEL

CAUSE - BLOCKING PERMIT NOT CLEARED. A BLOCKING WORK PERMIT APPLIED TO THE COMMON ROOT VALVES FOR REACTOR PUMP B DIFFERENTIAL PRESSURE SWITCHES FOR REPAIR OF A VALVE BLOCK WAS NOT CLEARED PRIOR TO REACTOR OPERATION. THIS DEFEATED THE REACTOR PUMP DIFFERENTIAL PRESSURE SWITCHES. THE VALVING WAS IMMEDIATELY CORRECTED. A MECHANISM HAS BEEN DEVELOPED TO IMPROVE THE QUALITY OF INFORMATION PRESENTED TO THE REVIEWER TO PRECLUDE A RECURRENCE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTROL SYSTEM • FAILURE, OPERATOR ERROR • MAINTENANCE AND REPAIR • PROCEDURES AND MANUALS • PEACH BOTTOM 2 TOWER • VALVES • LPCI

101490
SRM CHANNEL FAILS DOWNSCALE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE. LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 31, 1975. DOCKET 50-277, TYPE--DNR, NRC--G.E., AE--
BECHTEL

CAUSE - POWER SUPPLY FAILURE. THE C SRM WAS DISCOVERED TO HAVE FAILED DOWNSCALE DURING A NORMAL SCAN OF CONTROL ROOM INSTRUMENTS. THE UNIT WAS AT FULL POWER. COMPONENTS IN THE POWER SUPPLY HAD FAILED. FAILED COMPONENTS WERE REPLACED IN THE POWER SUPPLY AND THE CHANNEL WAS RETURNED TO SERVICE.

10502
J. Edgar Hoover, Director, Federal Bureau of Investigation

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United States regarding the results of its investigation of the activities of the American Friends Service Committee in the Philippines.

[illegible]

~~SECRET~~

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RECORDS FOR ON COMPANY FORM LUST AT 9400 BOSTON 2
MILLINGTON ELECTRIC COMPANY, PA.

1. Photo letter to me dated 21st of April 1975, JCR file 93-277276, 1974-80, 406-6.2..

[illegible]

AMERICAN TV - THE PUBLIC MARCH 17, 1974, WASHINGTON, D. C. 1974 100 CENTS/PAGE -- WASHINGTON
-PAGE 22)

PAID LUMP SUM EQUIPMENT + LOGS/CATLINS + PLACED DURING 2 YEARS + LEASE + (OIL LOGS TOGETHER + (OIL LOGS TOGETHER, MECHANICAL +
+ LOGS)

108787

REF ID: A66044

PHILADELPHIA ELECTRIC COMPANY, PA.
A. PAULS, LETTER TO HQ, OFFICE OF NUCLEAR REGULATION, APRIL 11, 1975, DDCREF 90-717, 1975--000, 1975--000, 1975--000

CAUSE - VIBRATION. DURING TESTING OF THE ARI SYSTEM WITH THE REACTOR AT FULL POWER, THE HPSM FLOW WAS APPRECIABLE WHILE THE HPSM/HEAT EXCHANGER DISCHARGE VALVE WAS INDICATING FULL CLOSED. HIGH VALVE VIBRATION DUE TO THE THROTTLING DOWN OF THE VALVE, CAUSED THE DISC LOCK AND FACH BECAME TO FRACTURE ALLOWING THE HUT TO BACK OFF. THE LOOSENING OF THE DISC INCREASED STEAM VIBRATION AND RESULTED IN A FATIGUE FAILURE OF THE STEM BY THE TIME DURING AREA. THREADS IN THE VALVE BODY WERE COMPLETELY DESTROYED. THE VALVE WILL BE MODIFIED TO REDUCE VIBRATION.

AVAILABILITY - RMC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- NUMBER CHARGE \$2.50

FAILURE, COMPONENT • MULTIPLICATION • TEST, SYSTEM OPERABILITY • VIBRATION • SHUTDOWN COOLING SYSTEM • PERCH
BOTTOM 2 (LOW) • FLUX • WAVES

102417

JAYGEN SAMPLE LINE CHECK VALVE LEAK RATE EXCESSIVE AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.
2 PAGES, LETTER TO HON. DIV. OF NUCLEAR LICENSING, APRIL 10, 1979, JCNK# 50-277, TYPE--BWR, NRC--G.E., RE--
RECEIVED

CAUSE - SCRATCH IN VALVE SEAT. DURING LEAK RATE TESTING OF THE DRYWELL OXYGEN ANALYZER SAMPLE ISOLATION VALVES WITH THE UNIT AT 100% POWER, THE INBOARD CHECK VALVE WAS FOUND TO LEAK IN EXCESS OF 200 CC/MIN. A SCRATCH WAS FOUND IN THE VALVE SEAT. THE VALVE SEAT AND DISC WERE BOTH LAPPED. RETESTING SHOWED SATISFACTORY LEAK RATE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • LAYERS • TEST, LEAK RATE • MONITOR, SAMPLING • MONITOR • TEST, SYSTEM OPERABILITY • CONTAINMENT ATMOSPHERE, IMPR • PEACH BOTTOM 2 TONS • LEAK RATE • VALUE, CREEK

102214

102903

TEMPERATURE OF THE COLUMN IN UNIT 2 WILL BE MEASURED WHEN THE JOURNAL BECOMES ACCESSIBLE.

AVAILABILITY - NRC PUBLIC DOCUMENT NUM. 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • PEACH BOTTOM 2 (UNIT) • DESIGNATED EMERGENCY • SYSTEMS, LEVEL • FAILURE, SUPPLEMENTATION • TEMPERATURE • EMERGENCY CHARGING SYSTEM

102904

LOW CHANNEL C PILES AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

3 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 5, 1975, DCKET 50-277, TYPE--QUR, NRC--G.E., AE--DECHTEL

CAUSE - MANUAL REFILL AVAILABLE ASSEMBLY. WHILE THE UNIT WAS OPERATING AT FULL POWER, LOW CHANNEL C PILES WERE OBSERVED. THE DETECTOR/DOSE ASSEMBLY WAS DAMAGED. AN IMMEDIATE LOCATION OF THE LOW DETECTOR/DOSE ASSEMBLY WAS MADE BY THE JOURNAL. THIS CAUSED FAILURE OF THE HIGH VOLTAGE PUMP SUPPLY. THE CHANNEL IS BEING LEFT OUT TO SERVICE UNTIL REPAIRS CAN BE MADE.

AVAILABILITY - NRC PUBLIC DOCUMENT NUM. 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • DESIGNATED, VOLUME • REACTION MONITORS • INSTRUMENT, INTERLOCK • AVAILABLE, COMPONENT • PLANNED AND CONDITIONS • ELECTRIC POWER

102905

THIS CHANNEL TEST PILE AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

3 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 6, 1975, DCKET 50-277, TYPE--QUR, NRC--G.E., AE--DECHTEL

CAUSE - MANUAL FLUID LEAK. DURING A SURVEILLANCE TEST, AN OUTFLOW FROM STATION ISOLATION, WHEN CLOSED IN 2.5 SECONDS. SURVEILLANCE TIME IS BETWEEN 3 AND 5 SECONDS. A HIGH HYDRAULIC PUMP LEAK WAS FOUND AT A PIPE FITTING AND REPAIRED. CHARGING TIME WAS ADJUSTED TO 1.5 SECONDS.

AVAILABILITY - NRC PUBLIC DOCUMENT NUM. 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • OVERSHOOT TIME • VALUES • CONTAINMENT ISOLATION • MAIN COOLING SYSTEM • SPAN • TEST, SYSTEM OPERABILITY • LEAK • FAILURE, EQUIPMENT • HYDRAULIC SYSTEM

102906

CIRCULATION PUMP FLOW TRANSMISSION FAILS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

3 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 6, 1975, DCKET 50-277, TYPE--QUR, NRC--G.E., AE--DECHTEL

CAUSE - LOOSE ADJUSTMENT MECHANISM. WHILE THE UNIT WAS OPERATING AT 92% POWER, IT WAS OBSERVED THAT THE RECIRCULATION PUMP FLOW TRANSMITTER DID NOT RESPOND TO FLOW CHANGES. THE SPAN ADJUSTMENT SCREWS HAD BECOME LOOSE. THE INSTRUMENT WAS CHECKED, ALIGNED, RECALIBRATED, AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT NUM. 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • OVERSHOOT, PUMP • FLOW, RECIRCULATION • FAILURE, INSTRUMENT • REACTOR SAFETY SYSTEM

102907

LOCAL LEAK RATE TESTING NOT COMPLETED ON TIME AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

3 PAGES, LETTER WITH ATTACH. TO DIV. OF REACTOR LICENSING, MAY 15, 1975, DCKET 50-277, TYPE--QUR, NRC--G.E., AE--DECHTEL

CAUSE - PLANT LOAD FACTOR. AS OF MAY 15, SOME OF THE LOCAL LEAK RATE TESTS REQUIRED BY TECH SPECS TO BE PERFORMED WITHIN 2 YEARS HAD NOT BEEN COMPLETED. BECAUSE OF THE PLANT LOAD FACTOR, LEAK TESTING COULD NOT BE COMPLETED ON TIME. THE UNIT WILL BE SHUTDOWN ON MAY 16 AND THE REMAINING TESTS COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT NUM. 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • TEST, LEAK RATE • TEST INTERVAL • FAILURE, ADMINISTRATIVE CONTROL • OPERATIONS, PRIMARY CONTAINMENT

102908

RADIOACTIVITY IN CRITICAL PATHWAY AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC COMPANY, PA.

3 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 16, 1975, DCKETS 50-277/278, TYPE--QUR, NRC--G.E., AE--DECHTEL

100972 RELATIVITY

CAUSE - NORMAL VARIATIONS IN RELATIVITY. ONE OF A SEVERAL RELATIVITY SAMPLES INDICATED A LEVEL OF 1-133 OF 11 PPM. NO MEASUREMENTS 1-133 ATTRIBUTABLE TO PEACH BOTTOM UNIT HAVE EVER BEEN MEASURED PRIOR TO THIS TIME. THE LEVEL IS 9.0 PPM AT THIS TIME THE ENTIRE YEAR. A DEER LATER 1 OF 11 SAMPLES INDICATED 1.0 PPM. THIS SAMPLE WAS FROM THE SAME LOCATION AS THE FORMER ONE. INVESTIGATION INDICATED THAT UNIT 2 WAS SHUTTING DOWN BEFORE THE FIRST SAMPLE. ALSO BEEN AT LOWER ELEVATION IN THE OPERATION OF THE SAMPLE DURING THE YEAR THAT THE JOINT RELEASE RATE WAS HIGHER FOLLOWING THE YEAR. NO RELEASE LIMITS WERE ESTABLISHED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

PEACH BOTTOM 2 (UNIT) + PEACH BOTTOM 3 (UNIT) + PLODING + OVER + FLOW CHAIN + MONITORING PROGRAM, ENVIRONMENTAL + AIRCRAFT RELEASE

100993

CAUSE - FAULT IN NITROGEN PRESSURE LOSS INDICATOR AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, MAY 23, 1975, Docket 50-277, TYPE--BWR, MFG--G.E., AE--RECHTEL

CAUSE - UNKNOWN. DURING LOCAL LEAK RATE TESTING OF INSTRUMENT NITROGEN PRESSURE LOSS INDICATOR VALUES WHILE OPERATING AT FULL POWER. THE OUTBOARD CHECK INDICATOR WERE HAS FOUND TO BEAR IN EXCESS OF 2000 CC/HR. THE CAUSE IS BEING INVESTIGATED. THE VALVE WILL BE REPAIRED OR REPLACED DURING THE PRESENT UNITARY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

PEACH BOTTOM 2 (UNIT) + PLODING, CHECK + CONTAINMENT ISOLATION + LEAK RATE + TEST, SYSTEM OPERABILITY + TEST, LEAK RATE + FAILURE, EQUIPMENT + INSTRUMENTS, REPAIR + PNEUMATIC SYSTEM + NITROGEN

100994

CAUSE - FAULT IN COOLING TOWER FAN AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, MAY 23, 1975, Docket 50-277/278, TYPE--BWR, MFG--G.E., AE--RECHTEL

CAUSE - MAIN MOTOR BEARING. WITH COOLING TOWER IN SERVICE, FAN 3 TRIPPED INTERMITTENTLY FROM HIGH VIBRATION. THE MOTOR BEARINGS WERE NOISE. ANOTHER FAN WAS OUT-OF-SERVICE. THE BEARINGS WERE REPLACED AND THE FAN RETURNED TO SERVICE. TECH SPECS REQUIRE 10 OF THE 11 FANS TO BE OPERATING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

PEACH BOTTOM 2 (UNIT) + PEACH BOTTOM 3 (UNIT) + COOLERS + COOLING TOWER + MOTORS + BEARING + FAILURE, COMPONENT + VIBRATION

101040

CAUSE - BINDING IN SWITCH. DURING LOCAL LEAK RATE TESTING OF RHR SYSTEM VALVES WHILE OPERATING AT FULL POWER, THE LOW LEVEL ALARM DID NOT OPERATE AND THE VENT SOLENOID VALVE DID NOT OPEN. THE CAUSE WAS APPARENTLY BINDING IN THE SWITCH ASSEMBLY AND MISALIGNMENT OF THE SWITCHES. THE SWITCHES WERE REPLACED AND ALIGNED TO GIVE THE OPTIMUM TRIP AND RESET ACTIONS.

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, MAY 23, 1975, Docket 50-277, TYPE--BWR, MFG--G.E., AE--RECHTEL

CAUSE - BINDING IN SWITCH. DURING LOCAL LEAK RATE TESTING OF RHR SYSTEM VALVES WHILE OPERATING AT FULL POWER, THE LOW LEVEL ALARM DID NOT OPERATE AND THE VENT SOLENOID VALVE DID NOT OPEN. THE CAUSE WAS APPARENTLY BINDING IN THE SWITCH ASSEMBLY AND MISALIGNMENT OF THE SWITCHES. THE SWITCHES WERE REPLACED AND ALIGNED TO GIVE THE OPTIMUM TRIP AND RESET ACTIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

PEACH BOTTOM 2 (UNIT) + INSTRUMENT, SWITCH + SENSORS, LEVEL + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SHUTDOWN COOLING SYSTEM + TEST, LEAK RATE + FAILURE, MAINTENANCE ERROR

101047

CAUSE - SET POINT KNOB BUMPED. DURING TESTING OF THE REACTOR WATER CLEANUP SYSTEM HIGH TEMPERATURE ISOLATION SWITCHES WHILE OPERATING AT FULL POWER, ONE SWITCH TRIPPED AT 215 F WHICH EXCEEDS THE 140 F LIMIT. THE INSTRUMENT IS MOUNTED ON A RACK IN A HEAVILY TRAVELED OPEN HALLWAY. THE SET POINT KNOB ADJUSTMENT PROTRUDES FROM THE FRONT AND WAS APPARENTLY INADVERTENTLY MOVED. THE SWITCH WAS RESET. A FULL FRONT COVER WILL BE INSTALLED.

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, MAY 23, 1975, Docket 50-277, TYPE--BWR, MFG--G.E., AE--RECHTEL

CAUSE - SET POINT KNOB BUMPED. DURING TESTING OF THE REACTOR WATER CLEANUP SYSTEM HIGH TEMPERATURE ISOLATION SWITCHES WHILE OPERATING AT FULL POWER, ONE SWITCH TRIPPED AT 215 F WHICH EXCEEDS THE 140 F LIMIT. THE INSTRUMENT IS MOUNTED ON A RACK IN A HEAVILY TRAVELED OPEN HALLWAY. THE SET POINT KNOB ADJUSTMENT PROTRUDES FROM THE FRONT AND WAS APPARENTLY INADVERTENTLY MOVED. THE SWITCH WAS RESET. A FULL FRONT COVER WILL BE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.000

103147 PLUMBING
CHARGE \$2.00

PEACH BOTTOM 2 (1000) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, TEMPERATURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • RESET POINT • OMIFF • FAILURE, DESIGN ERROR

103091
LEAKAGE ON PRESSURIZER CHECK VALVES EXCESSIVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 27, 1975, DCKET 50-277, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNDER INVESTIGATION. A PRELIMINARY LEAK RATE TEST ON 4 FEEDWATER CHECK VALVES DURING THE UNIT SHUTDOWN INDICATED SUFFICIENT LEAKAGE TO WARRANT MAINTENANCE. MINOR SURFACE INDICATIONS WERE NOTED AND WERE EASILY REMOVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) • VALVE, CHECK • FEEDWATER • LEAK RATE • TEST, LEAK RATE • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

103090
LEAKAGE THROUGH RHR TORUS COOLING VALVES EXCESSIVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 26, 1975, DCKET 50-277, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNDER INVESTIGATION. DURING LOCAL LEAK TESTING, 2 RHR TORUS COOLING VALVES WERE FOUND TO LEAK IN EXCESS OF 6000 CC/MIN. MINOR SEATING SURFACE IMPERFECTIONS WERE OBSERVED. THE VALVES WILL BE REPAIRED AND RETESTED AS SOON AS POSSIBLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) • VALVES • SHUTDOWN COOLING SYSTEM • TORUS • LEAK RATE • TEST, LEAK RATE • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

103090
RHR OUTBOARD INJECTION VALVE LEAKS EXCESSIVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 28, 1975, DCKET 50-277, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNDER INVESTIGATION. DURING LOCAL LEAK TESTING WITH THE REACTOR SHUTDOWN, A RHR OUTBOARD INJECTION VALVE WAS FOUND TO LEAK IN EXCESS OF 6000 CC/MIN. MINOR SURFACE INDICATIONS WERE NOTED ON THE SEATING SURFACES. FOLLOWING REPAIRS, THE VALVE WILL BE RETESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) • VALVES • SHUTDOWN COOLING SYSTEM • LEAK RATE • TEST, LEAK RATE • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

103092
LEAKAGE THROUGH LONG PATH RECIRCULATION VALVE EXCESSIVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 28, 1975, DCKET 50-277, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNDER INVESTIGATION. DURING LOCAL LEAK TESTING WITH THE UNIT SHUTDOWN, A LONG PATH RECIRCULATION VALVE LEAKED IN EXCESS OF 2000 CC/MIN. MINOR INDICATIONS WERE FOUND ON THE SEATING SURFACES. A SEAT LAPPING TOOL IS BEING FABRICATED FOR VALVE REPAIR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) • VALVES • FLOW, RECIRCULATION • MAIN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • FAILURE, EQUIPMENT • LEAK RATE

103090
SUSPECTED EXCESSIVE LEAKAGE THROUGH RHR VALVES AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.
2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 12, 1975, DCKET 50-277, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - VALVE WEAR. PRIOR TO SHUTDOWN, PRELIMINARY LOCAL LEAK RATE TESTS ON THE RHR VALVES USING WATER AS A TEST FLUID INDICATED LEAKAGE THROUGH LOOP A INBOARD AND OUTBOARD TORUS COOLING VALVES AND OUTBOARD INJECTION VALVE. FOLLOWING SHUTDOWN THESE VALVES WERE REPAIRED WITHOUT ADDITIONAL TESTING. ONE VALVE HAD LOOSE SEAT RINGS. LEAKAGE ON THE OTHER 2 WAS ATTRIBUTED TO VALVE WEAR. ALL 3 WERE REPAIRED AND RETESTED.

103600 CONTINUOUS

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR, PWR + VALVES + SHUTDOWN COOLING SYSTEM + LEAK RATE + FAILURE, EQUIPMENT + TEST, SYSTEM OPERABILITY + TEST, LEAK RATE + PEACH BOTTOM 2 (000)

103601

MAIN STACK MONITORING SYSTEM OUT OF SERVICE AT PEACH BOTTOM 2 AND
PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 13, 1975, Docket 50-277, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - BYPASS VALVE LEFT OPEN. WHILE UNIT 2 WAS SHUTDOWN AND UNIT 3 WAS AT 538 PPM, A VIOLENT TURBULENCE CAUSED WATER TO BE DRAIN INTO THE MAIN PLANT STACK MONITORING SYSTEM SAMPLE LINE. TO REMOVE THE WATER, THE PARTICULATE AND CHARCOAL FILTERS WERE BYPASSED. THE BYPASS VALVE WAS INADVERTENTLY LEFT OPEN FOR 12 HOURS, REMOVING THE FILTERS FROM SERVICE. FILTER CARTRIDGES WERE REPLACED AND THE BYPASS VALVE CLOSED. A TAG WAS PLACED ON THE VALVE INDICATING THAT THE VALVE MUST BE CLOSED AT ALL TIMES EXCEPT WHEN CARTRIDGES ARE BEING CHANGED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (000) + PEACH BOTTOM 3 (000) + VALVES + BYPASS + MONITOR, STACK + FAILURE, OPERATOR ERROR + MONITORING SYSTEM, RADIATION + FILTERS + STACK

103602

CONTAINMENT SPRAY VALVE OPERATOR FAILS AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.

1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, JUNE 19, 1975, Docket 50-277, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - LIMITING OPERATOR MALFUNCTION. DURING TESTING WITH THE REACTOR AT 508 PPM, CONTAINMENT SPRAY INHERENT VALVE B WAS IDENTIFIED AS ELECTRICALLY INOPERABLE. THE BOLTS WHICH ATTACH THE VALVE YORE TO THE VALVE BODY HAD FAILED. THE VALVE WAS OPEN. FAILURE APPEARS TO HAVE BEEN CAUSED BY A MALFUNCTION OF THE LIMITING OPERATOR. THE MOTOR ACTION HAD FAILED. SOME MALFUNCTION OF THE VALVE OPERATOR OR LIMIT SWITCH ASSEMBLY HAD OCCURRED. REPLACEMENT PARTS ARE ON ORDER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (000) + VALVE OPERATIONS + VALVES + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + CONTAINMENT SPRAY

103603

OUTBOARD FEEDWATER CHECK VALVE LEAKS AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.

1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, JUNE 20, 1975, Docket 50-277, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - UNKNOWN. WHILE OPERATING AT 678 PPM, LEAK WAS FOUND TO BE COMING FROM THE MAIN STEAM ISOLATION VALVE ROOM (MIR) THE FLOOR JUST OUTSIDE. THE LEAK WAS FROM THE OUTBOARD FEEDWATER CHECK VALVE. THE REACTOR WAS SHUTDOWN TO REPAIR THE CHECK VALVE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (000) + VALVE, CHECK + FEEDWATER + LEAK + FAILURE, EQUIPMENT + REACTOR SHUTDOWN

103704

VENT SWITCH FAILS TO OPERATE VENT VALVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.

1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, JUNE 23, 1975, Docket 50-277, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - FUSE FATIGUE. FOLLOWING A HEAD SPRAY ACCUMULATOR LOW LEVEL ALARM, IT WAS FOUND THAT THE VENT SILENCER VALVE HAD FAILED TO OPEN TO REFILL THE HEAD SPRAY HIGH POINT ACCUMULATOR. THE ACCUMULATOR WAS MANUALLY VENTED TO INSURE THAT THE HEAD SPRAY LINE WAS FILLED. AN OPEN FUSE WAS FOUND TO THE SILENCER VALVE. IT WAS REPLACED AND THE SWITCH WAS CYCLED SEVERAL TIMES TO OPEN. THE VALVE SUCCESSFULLY. THE REACTOR WAS SHUTDOWN AT THE TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (000) + VALVES + SILENCER + EMERGENCY COOLING SYSTEM + FAILURE, INSTRUMENT + INSTRUMENT, PROTECTIVE

103705
 400 INJECTION VALVE FAILS TO OPERATE AT PEACH BOTTOM 2
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, JUNE 26, 1975, DOCKET 50-277, TYPE--BWR, MFG--G.E., AE--
 UNCLTEL

CAUSE - SHUT DOWN KEY. WHILE PLACING SHUTDOWN COOLING IN SERVICE WITH THE UNIT IN COLD
 SHUTDOWN, A 400 VALVE FAILED TO OPEN ELECTRICALLY. THE KEY BETWEEN THE MOTOR SHAFT AND
 TEMPERATURE DRIVE GEAR HAD FAILED. THE BROKEN KEY WAS REPLACED AND THE VALVE WAS OPERATED PRIOR
 TO REACTOR STARTUP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + VALVES + SHUTDOWN COOLING SYSTEM + FAILURE, COMPONENT + VALVE OPERATORS

103806
 TWO COOLING TOWERS OUT OF SERVICE AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 27, 1975, DOCKET 50-277, TYPE--BWR, MFG--G.E., AE--
 UNCLTEL

CAUSE - DISTRIBUTION HEADER FAILURE. WITH COOLING TOWER C OUT OF SERVICE FOR SCHEDULED
 MAINTENANCE, COOLING TOWER A WAS ALSO REMOVED FROM SERVICE DUE TO A GROSS LEAK ON THE
 DISTRIBUTION HEADER. BANDING AROUND THE HEADER FAILED FOR A SECOND TIME IN 2 DAYS RESULTING IN
 THE BLOWOUT OF A PORTION OF THIS WOODEN STRUCTURE. THE DAMAGED PLANNING WAS REPLACED BY A STEEL
 BAND SECURED BY STAINLESS STEEL CLAMPS. THE TOWER WAS RETURNED TO SERVICE IN 16 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + PEACH BOTTOM 3 (BWR) + COOLING TOWER + PIPES AND PIPE FITTINGS + FAILURE, COMPONENT +
 COOLING TOWER, MECHANICAL

103803
 SECOND COOLING TOWER REMOVED FROM SERVICE AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 27, 1975, DOCKETS 50-277/278, TYPE--BWR, MFG--G.E.,
 AE--UNCLTEL

CAUSE - DISTRIBUTION HEADER FAILURE. WITH COOLING TOWER C OUT OF SERVICE FOR SCHEDULED
 MAINTENANCE, COOLING TOWER A WAS ALSO REMOVED FROM SERVICE DUE TO A GROSS LEAK ON THE
 DISTRIBUTION HEADER. THE BANDING AROUND THE HEADER FAILED RESULTING IN THE BLOWOUT OF A PORTION
 OF THIS WOODEN STRUCTURE. THE DAMAGED WOODEN PLANNING WAS REPLACED AND SECURED BY A STAINLESS
 STEEL PLATE. THE TOWER WAS RETURNED TO SERVICE WITHIN 30 MINUTES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + PEACH BOTTOM 3 (BWR) + COOLING TOWER + PIPES AND PIPE FITTINGS + FAILURE, COMPONENT +
 COOLING TOWER, MECHANICAL

104001
 RELIEF VALVE OPENS CAUSING REACTOR DEPRESSURIZATION AT PEACH BOTTOM 2
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 27, 1975, DOCKET 50-277, TYPE--BWR, MFG--G.E., AE--
 UNCLTEL

CAUSE - PILOT SEAT LEAKAGE. RELIEF VALVE TRIK HAD BEEN OPERATED FOR 3 10-SECOND PERIODS TO CONTROL
 REACTOR PRESSURE FOLLOWING A MAIN STEAM LINE ISOLATION ASSOCIATED WITH A UNIT TRIP. LATER, THE
 VALVE SPONTANEOUSLY OPENED FOR 13 MINUTES. REACTOR PRESSURE DROPPED FROM 800 TO 200 PSIG. THE AIR
 SOLENOID VALVE WAS FOUND TO BE PARTIALLY OPEN. ALSO, THE SELF-ACTUATING PILOT SEAT LEAKAGE WAS
 FOUND TO BE EXCESSIVE. THIS IS BELIEVED TO BE THE CAUSE. THE LEAKING PILOT VALVE WAS LAPPED,
 LEAK TESTED, AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + VALVES + OVERPRESSURE RELIEF + MAIN COOLING SYSTEM + BLOWDOWN + PRESSURE TRANSIENT +
 FAILURE, EQUIPMENT

103801
 REACTOR WATER CLEANUP INLET ISOLATION VALVE FAILS AT PEACH BOTTOM 2
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 27, 1975, DOCKET 50-277, TYPE--BWR, MFG--G.E., AE--
 UNCLTEL

CAUSE - WATER IN VALVE MOTOR. THE REACTOR WATER CLEANUP INLET OUTBOARD ISOLATION VALVE FAILED TO

103841 CONTINUED

OPERATE FROM THE MAIN CONTROL ROOM SWITCH. THE VALVE WAS OPEN AND THE SYSTEM IN OPERATION PRIOR TO THE OCCURRENCE. WATER HAD ENTERED THE MOTOR AND CAUSED ARMATURE FAILURE. MOISTURE ENTERED DURING A VALVE STEM PACKING LEAK 2 WEEKS EARLIER. A REPLACEMENT MOTOR WAS INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + VALVES + CONTAINMENT ISOLATION + MOXANT PURIFICATION SYSTEM + FAILURE, EQUIPMENT + MOTORS + WATER + VALVE OPERATIONS

103884

REACTOR LOW LEVEL LPCI SWITCH FAILS TO PICK UP AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY, PA.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 30, 1975, DUCRETS 50-277, TYPE--BWR, WFG--G.E., AE--BECHTEL

CAUSE - MISALIGNMENT. DURING TESTING WITH THE UNIT SHUT DOWN, THE CONTACTS ON THE REACTOR LOW LEVEL LPCI SWITCH WHICH PROVIDE THE LPCI SYSTEM INITIATION FROM REACTOR LOW WATER LEVEL FAILED TO OPERATE. THE APPARENT CAUSE WAS MISALIGNMENT BETWEEN THE MAGNET AND REED SWITCH. THE REED SWITCH WAS REALIGNED TO PROVIDE OPTIMUM SWITCH PICKUP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + INSTRUMENT, SWITCH + SENSORS, LEVEL + FAILURE, MAINTENANCE ERROR + LPCI + PRESSURE VESSELS + TEST, SYSTEM OPERABILITY

104027

TWO COOLING TOWERS SIMULTANEOUSLY INOPERATIVE AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC COMPANY

2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, JULY 29, 1975, DUCRETS 50-277/278, TYPE--BWR, WFG--G.E., AE--EDASCO

CAUSE - SET POINT SHIFT IN SWITCH. BOTH UNITS WERE OPERATING AT 50% POWER. COOLING TOWER C WAS OUT OF SERVICE DUE TO AN APPARENT MALFUNCTION OF A FLOW SWITCH IN THE LIFT PUMP LUBE WATER SUPPLY LINE. ON TOWER B, FAN F WAS OUT OF SERVICE WITH A FAN DRIVE MOTOR FAILURE. FAN E TRIPPED DUE TO A FAULTY VIBRATION SWITCH. TOWER B WAS INOPERATIVE SINCE ONLY 9 FANS WERE OPERABLE. THE SET POINT IN THE VIBRATION SWITCH HAD DRIFTED. THE SWITCH WAS REPLACED AND THE FAN STARTED WITHIN ONE HOUR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + PEACH BOTTOM 3 (BWR) + COOLING TOWER + COOLING TOWER, MECHANICAL + FAILURE, EQUIPMENT + VALVES + INSTRUMENT, SWITCH + SET POINT + SHIFT + VIBRATION

104075

STACK FLOW TRANSMITTERS FAIL AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 30, 1975, DUCRETS 50-277/278, TYPE--BWR, WFG--G.E., AE--BECHTEL

CAUSE - LIGHTNING STRIKE. WHILE BOTH UNITS WERE OPERATING AT 50% POWER, LIGHTNING APPARENTLY STRUCK THE MAIN OFFGAS STACK, RESULTING IN DAMAGE TO BOTH OFFGAS STACK FLOW TRANSMITTERS. ONE OF THE 2 TRANSMITTERS WAS REPAIRED AND RETURNED TO SERVICE. THE SECOND ONE IS WAITING REPLACEMENT PARTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + PEACH BOTTOM 3 (BWR) + SENSORS, FLOW + STACK + MONITOR, STACK + WEATHER, SEVERE + ELECTRIC ARC + FAILURE, INSTRUMENT + ELECTRONIC FUNCTION UNITS

103882

RHM SYSTEM VALVE MOTOR FAILS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 1, 1975, DUCRET 50-277, TYPE--BWR, WFG--G.E., AE--BECHTEL

CAUSE - EXCESSIVE VIBRATION. DURING USE OF THE RHM SYSTEM IN THE SHUTDOWN COOLING MODE, A VALVE WAS POSITIONED MANUALLY FROM THE CONTROL ROOM TO ADJUST FLOW. AN INSPECTION REVEALED THAT THE STEM TO ANTI-ROTATION KEY HAD FALLEN OUT, RESULTING IN ROTATION OF THE STEM WHICH UPSET THE OPERATOR CALIBRATION. APPARENTLY THE KEY BECAME JAMMED BETWEEN THE ANTI-ROTATION ARM AND THE PACKING FOLLOWER WHICH RESULTED IN EXCESSIVE LOAD ON THE MOTOR. THE CAUSE WAS EXCESSIVE VIBRATION DURING THIS MODE OF OPERATION. THE STEM ANTI-ROTATION ARM WAS POSITIONED AND THE KEY REPLACED. THE MOTOR STATOR IS BEING REWOUND AND A NEW MOTOR IS BEING MANUFACTURED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

104002 - CONTINUED
CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + VALVES + SHUTDOWN COOLING SYSTEM + MIGRATION + FAILURE, EQUIPMENT + VALVE OPERATORS + FAILURE, DESIGN ERROR

104002

UNPLANNED RELEASE OF CONTAMINATED WATER OCCURS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

3 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 1, 1975, DOCKET 50-277, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - TUBE LEAK IN HEAT EXCHANGER. DURING AN INVESTIGATION OF A SUSPECTED TUBE LEAK IN BWR HEAT EXCHANGER WITH THE UNIT IN COLD SHUTDOWN, THERE WAS APPARENTLY SOME MIGRATION OF REACTOR WATER INTO THE HIGH PRESSURE SERVICE WATER SYSTEM SIDE OF THE HEAT EXCHANGER. WHEN A LEAK WAS IDENTIFIED, THE HEAT EXCHANGER WAS REMOVED FROM SERVICE AND ISOLATED. A TUBE WAS LEAKING. IT WAS PLUGGED ALONG WITH 3 OTHERS IN A HIGH INLET WATER IMPINGEMENT AREA. THE RELEASE WAS ONLY A SMALL FRACTION OF THE LIMIT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + RADIOACTIVITY RELEASE + SHUTDOWN COOLING SYSTEM + HEAT EXCHANGERS + FAILURE, TUBING + TUBING + LEAK + FAILURE, EQUIPMENT

104008

BOTH STACK FLOW TRANSMITTERS FAIL AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 11, 1975, DOCKET 50-277, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - LIGHTNING STRIKE. ON THE EVENING OF JULY 3, LIGHTNING APPARENTLY STRUCK THE MAIN OFFGAS STACK RESULTING IN DAMAGE TO BOTH OFFGAS STACK FLOW TRANSMITTERS. UNIT 2 WAS AT FULL POWER AND UNIT 3 AT 50% POWER. DIFFICULTY IN OBTAINING THE REQUIRED SPARE PARTS DELAYED REPAIR UNTIL THE AFTERNOON OF JULY 4. ONE OF THE 2 TRANSMITTERS WAS RETURNED TO SERVICE. REPAIR OF THE OTHER IS AWAITING REPLACEMENT PARTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + PEACH BOTTOM 3 (BWR) + SENSORS, FLOW + STACK + OFF GAS + WEATHER, SEVERE + ELECTRIC ARC + FAILURE, INSTRUMENT

104216

CORE SPRAY PUMP MOTOR COULERS FAIL TO OPERATE AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 10, 1975, DOCKET 50-277, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - SET POINT DRIFT. DURING A TEST WITH THE REACTOR AT 50% POWER, A CORE SPRAY PUMP AGH COULER C TRIPPED WHEN OPERATED IN RUN MODE. BOTH COULERS FAILED TO OPERATE IN THE 27% MODE. THE FIRST FAILURE RESULTED FROM A THERMAL OVERLOAD TRIP WHICH IS ATTRIBUTED TO A RANDOM TRIP. THE SECOND FAILURE RESULTED FROM A SET POINT DRIFT IN A DIFFERENTIAL PRESSURE SWITCH. AFTER SWITCH RECALIBRATION, BOTH COULERS OPERATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + BLOWERS + COOLING + COMPARTMENT + CORE SPRAY + FAILURE, INSTRUMENT + SET POINT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY

104217

VENTILATION FAN DAMPER SOLENOID COIL FAILS AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 10, 1975, DOCKETS 50-277/278, TYPE--BWR, NRC--G.E., AE--BCHTEL

CAUSE - COIL BURNED UP. DURING AN EQUIPMENT CHECK WHILE BOTH UNITS WERE OPERATING AT 50% POWER, THE INDICATING LAMPS FOR CONTROL ROOM EMERGENCY VENTILATION FAN B RUNNING STATUS WERE OBSERVED TO BE OUT. THE CONTROL PUMP TRANSDUCER HAD SHORTED TO GROUND DUE TO FAILURE OF A SOLENOID COIL IN THE FAN DAMPER CIRCUIT. THE FAN DAMPER VALVE HAD EXCESSIVE AIR LEAKAGE PAST THE SEAT AND PLUNGER CAUSING THE PLUNGER TO BE FORCED OUT OF THE MAGNETIC FIELD OF THE ENERGIZED SOLENOID COIL AND CAUSING THE COIL TO BURN OUT. THE TRANSDUCER, SOLENOID VALVE AND COIL WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) + PEACH BOTTOM 3 (BWR) + SOLENOID + VENTILATION SYSTEM + CONTROL SYSTEM + FAILURE, EQUIPMENT + TRANSDUCERS + BLOWERS

104901
HIGH PRESSURE SERVICE WATER PUMP FAILS TO START AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY
2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 8, 1975, DOCKET 50-277, TYPE--BWR, NPS--G.E., AE--BECHTEL

CAUSE - BREAKER CELL SWITCH SUPPORT BENT. WHILE TESTING THE HIGH PRESSURE SERVICE WATER SYSTEM WITH THE REACTOR AT 55% POWER, PUMP 2A FAILED TO START. THE BREAKER CELL SWITCH SUPPORT WAS BENT. THIS APPARENTLY OCCURRED DURING OPERATOR QUALIFICATION TESTS IN WHICH THE BREAKER WAS RACKED OUT AND IN. THE PUMP WAS NOT RUN AFTER THE BREAKER WAS RETURNED TO SERVICE BECAUSE NO WORK WAS ASSOCIATED WITH THIS TEST. THE SUPPORT WAS STRAIGHTENED AND THE PUMP TESTED SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) * PUMPS * AUXILIARY CIRCUIT * TEST, SYSTEM OPERABILITY * BREAKER * DAMAGE * FAILURE, OPERATION ERROR * TESTING

105177
TWO COOLING TOWERS SIMULTANEOUSLY INOPERATIVE AT PEACH BOTTOM 2 AND 3
PHILADELPHIA ELECTRIC COMPANY
1 PG, LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 21, 1975, DOCKET 50-277/279, TYPE--BWR, NPS--G.E., AE--BECHTEL

CAUSE - PLUGGED COOLING WATER LINE TO PUMP. UNIT 2 WAS AT 55% POWER AND UNIT 3 AT 42% POWER WITH COOLING TOWER B OUT OF SERVICE FOR SCHEDULED MAINTENANCE TO THE DISTRIBUTION HEADS. DURING THIS MAINTENANCE, THE COOLING WATER SUPPLY TO THE UPPER BEARING IN COOLING TOWER LEFT PUMP NO. A PLUGGED SO THE PUMP WAS IMMEDIATELY REMOVED FROM SERVICE TO CLEAR THE LINE. COOLING TOWER B WAS PLACED IN SERVICE WITHIN 20 MINUTES AND TOWER A AFTER 4 HOURS. THERE WAS NO MEASURED RIVER WATER TEMPERATURE CHANGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) * PEACH BOTTOM 3 (BWR) * COOLING TOWER * COOLING TOWER, MECHANICAL * PUMPS * BEARING * COOLING * PLUG BLOCKAGE

105535
REACTOR RECIRCULATION SYSTEM SAMPLE VALVE FAILS TO CLOSE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY
2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 27, 1975, DOCKET 50-277, TYPE--BWR, NPS--G.E., AE--BECHTEL

CAUSE - STICKY SOLENOID VALVE. DURING TESTING WITH THE UNIT SHUTDOWN, REACTOR RECIRCULATION SYSTEM OUTWARD SAMPLE ISOLATION VALVE FAILED TO CLOSE. ITS SOLENOID VALVE WAS STUCK. AFTER CLEANING THE SOLENOID VALVE, THE SAMPLE VALVE WAS RETESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

VALVES * SAMPLING * CONTAINMENT ISOLATION * FLOW, RECIRCULATION * MAIN COOLING SYSTEM * FAILURE, EQUIPMENT * SOLENOID * PEACH BOTTOM 2 (BWR)

105536
STANJOY GAS TREATMENT SYSTEM FAN FAILS TO START AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC COMPANY
2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 27, 1975, DOCKET 50-277, TYPE--BWR, NPS--G.E., AE--BECHTEL

CAUSE - SWITCH MALFUNCTION. DURING TESTING WITH THE UNIT SHUTDOWN, STJOY FAN B FAILED TO AUTO START WITH FAN A IN PULL-TO-LOCK AND A REACTOR BUILDING VENTILATION ISOLATION SIGNAL. THE DIFFERENTIAL PRESSURE SWITCH WHICH ACTUATES THE FAN WAS FOUND STUCK IN THE OPEN POSITION. MAINTENANCE WAS PERFORMED ON THE ACTUATOR PLATE HINGE. THE AUTO START PUMP FOR FAN B TESTED SATISFACTORILY SEVERAL TIMES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) * STANJOY GAS TREATMENT * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * INSTRUMENT, SWITCH * PLOWERS

105533
OIL SPILL OCCURS AT PEACH BOTTOM 2 AND 3
PHILADELPHIA ELECTRIC COMPANY
2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 29, 1975, DOCKET 50-277, TYPE--BWR, NPS--G.E., AE--BECHTEL

CAUSE - DISCHARGE LINE VALVE FAILURE. WHILE BOTH UNITS WERE AT ABOUT 50% POWER, AN INVESTIGATION OF AN ALARM FOUND THAT THE LUBE OIL CENTRIFUGE WAS DISCHARGING OIL FROM THE WATER DISCHARGE LINE. OIL RAN UNDER THE ROLL-UP DOOR AND FLOWED ACROSS THE GROUND OUTSIDE. ABOUT 200 GALLONS ENTERED THE STORM SEWER, OF WHICH 10 GALLONS REACHED THE RIVER. THE SOLENOID VALVE ON THE WATER

100533 R. J. J. J. J.

DESCENDING LINE FAILED TO CLOSE WHEN THE CENTRIFUGAL TRIPPER. THE CENTRIFUGAL WAS REPAIRED. OIL WAS RECOVERED FROM THE REVER AND THE STORM DRAIN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) + PEACH BOTTOM 3 (1000) + OILCUTTING + OILCUT + DRIVER + FAILURE, EQUIPMENT + VALVES + SENSORS + INSTRUMENT

100534

COOLING TOWER INOPERABLE WITH LOW RIVER FLOW AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AU 50-277-75-17 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 13, 1975, DOCKET 50-277/276, TYPE--BWR, NRC--CER, AC--BECHTEL

CAUSE - LEAK IN LEFT PUMP PACKING GLAND. WHILE BOTH UNITS WERE OPERATING AT SSR POWER, A SIGNIFICANT LEAK DEVELOPED IN COOLING TOWER A LEFT PUMP PACKING GLAND REQUIRING REMOVAL OF THE PUMP FROM SERVICE. RIVER FLOW WAS LESS THAN 10,000 CFS AT THE TIME. THE CAUSE WAS FAILURE OF THE SUPPORTS FOR THE LEFT PUMP LOWER GUIDE BEARING. THIS REQUIRES A MAJOR DISMANTLING OF THE PUMP AND REPAIR. CORRECTIVE ACTION WILL THEN BE DETERMINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) + PEACH BOTTOM 3 (1000) + COOLING TOWER + PUMPS + COOLING TOWER, MECHANICAL + SEAL + FAILURE, EQUIPMENT

100535

SECOND FAN ON COOLING TOWER LOST AT PEACH BOTTOM 2 AND 3

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AU 50-277-75-18 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 24, 1975, DOCKET 50-277/276, TYPE--BWR, NRC--CER, AC--BECHTEL

CAUSE - UNKNOWN. WITH THE TOWER IN SERVICE AND BOTH UNITS OPERATING AT SSR POWER, FAN 2 TRIPPED DUE TO A HIGH VIBRATION SIGNAL. WHILE FAN 2 WAS OUT OF SERVICE FOR MAINTENANCE, FAN 1 WAS RETURNED TO SERVICE WITHOUT EXCESSIVE VIBRATION IN ABOUT 30 MINUTES. THE CAUSE IS BEING INVESTIGATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) + PEACH BOTTOM 3 (1000) + COOLERS + COOLING TOWER, MECHANICAL + COOLING TOWER + FAILURE, EQUIPMENT + VIBRATION

100537

AUTO CLOSE FUNCTION OF TWO TIP MACHINE VALVES FAIL AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AU 50-277-75-19 TO NRC DIV. OF REACTOR LICENSING, SEPT. 26, 1975, DOCKET 50-277, TYPE--BWR, NRC--CER, AC--BECHTEL

CAUSE - SHIELD LIMIT SWITCH FAILURE. DURING ROUTINE OPERATION OF TIP MACHINES 1 AND 4 WITH THE REACTOR AT SSR POWER, THE DETECTOR STOPPED IN THE REACTOR CORE AND WOULD NOT RESPOND TO EITHER AUTOMATIC OR MANUAL WITHDRAWAL COMMANDS. WITH THE DETECTOR INSERTED, THE TIP ISOLATION VALVE CANNOT BE CLOSED. IN BOTH CASES, THE SHIELD LIMIT SWITCH FAILED, SENDING A FALSE IN SHIELD SIGNAL TO THE CONTROL UNIT. THIS DISABLED ALL WITHDRAWAL CONTROL FUNCTIONS. LOGIC BYPASS JUMPERS WERE USED TO BYPASS THE DETECTOR. SHIELD LIMIT SWITCHES WERE ADJUSTED TO GIVE PROPER OPERATION OVER THE FULL DETECTOR TRAVEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) + INSTRUMENT, SWITCH + INSTRUMENT, POSITION + VALVES + INSTRUMENT, IN CORE + INSTRUMENT, NUCLEAR + FAILURE, INSTRUMENT + FAILURE, MAINTENANCE ERROR

100538

TIP MACHINE ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AU 50-277-75-20 TO NRC DIVISION OF REACTOR LICENSING, SEPT. 26, 1975, DOCKET 50-277, TYPE--BWR, NRC--CER, AC--BECHTEL

CAUSE - STICKING VALVE SOLENOID MECHANISM. WHILE THE REACTOR WAS AT SSR POWER, THE BALL VALVE OF TIP MACHINE 4 FAILED TO CLOSE AUTOMATICALLY FOLLOWING ROUTINE OPERATION. THE BALL VALVE SOLENOID MECHANISM WAS STICKING OR BINDING. THE ENTIRE BALL VALVE ASSEMBLY WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (1000) + VALVES + INSTRUMENT, IN CORE + INSTRUMENT, NUCLEAR + SOLENOID + FAILURE, EQUIPMENT

102627

COOLING TOWER UNOPERABLE AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC CO., PA.
 2 PGS. AD 50-277770-75-19 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 26, 1975. DDCRETS 50-277770.
 TYPE--DNR, RFG--G.E., AE--DECHTEL

CAUSE - WOUNDS AND DISTRIBUTION HEADS FAIL. A SIGNIFICANT LEAK ON A DISTRIBUTION HEAD OF COOLING TOWER C REQUIRED REMOVAL OF THE TOWER FROM SERVICE WHILE BOTH UNITS WERE AT 55% POWER. WOUNDS ON A WOUNDS DISTRIBUTION HEADS FAILED PERMITTING THE HEADS TO OPEN. THE LEAK WAS REPAIRED AND THE TOWER RETURNED TO SERVICE WITHIN 2 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (DNR) + PEACH BOTTOM 3 (DNR) + PIPES AND PIPE FITTINGS + ACQUIE OIL, MECHANICAL + COOLING TOWER + FAILURE, EQUIPMENT

100649

MAIN STACK FLOW TRANSMITTERS FAIL AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC CO., PA.
 2 PGS. AD 75-02 AND 75-01 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 30, 1975. DDCRETS 50-277770.
 TYPE--DNR, RFG--G.E., AE--DECHTEL

CAUSE - LIGHTNING STRIKE. WITH UNIT 4 AT 55% POWER AND UNIT 3 SHUT DOWN, A LIGHTNING STRIKE USABLE WITH MAIN STACK FLOW TRANSMITTERS. DAMAGED COMPONENTS WERE REPLACED AND THE TRANSMITTERS RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (DNR) + PEACH BOTTOM 3 (DNR) + INSTRUMENT, STACK + ELECTRIC ARC + WEARER, SEVERE + FAILURE, INSTRUMENT + FAILURE, SIMULTANEOUS + INSTRUMENT, REDUNDANT

100970

SECOND FAN ON COOLING TOWER LOST AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
 2 PGS. EN 75-20 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 3, 1975. DDCRETS 50-277770. TYPE--DNR, RFG--G.E., AE--DECHTEL

CAUSE - COUPLING FAILURE. FAN D ON COOLING TOWER C WAS REMOVED FROM SERVICE BECAUSE OF A COUPLING FAILURE. FAN P WAS OUT OF SERVICE FOR MAINTENANCE. UNIT 2 WAS AT 57% POWER AND UNIT 3 WAS IN SHUTDOWN. THE TOWER WAS THEN RETURNED TO AN OPERABLE STATUS. FAN D IS AWAITING REPAIR PARTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (DNR) + PEACH BOTTOM 3 (DNR) + PUMPS + COOLING TOWER + FAILURE, EQUIPMENT

100977

BOTH COOLING TOWERS REMOVED FROM SERVICE AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
 2 PGS. EN 75-21 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 6, 1975. DDCRETS 50-277770. TYPE--DNR, RFG--G.E., AE--DECHTEL

CAUSE - HIGH MUD CONTENT IN RIVER. LARGE AMOUNTS OF RAINFALL CAUSED BY HURRICANE ELOUISE SIGNIFICANTLY INCREASED THE SUSQUEHANNA RIVER FLOW FOR 6 DAYS. DURING THE PERIOD, THE WATER WAS VERY MUDDY AND HAD LARGE QUANTITIES OF FLOATING DEBRIS. THIS CAUSED REPEATED PLUGGING OF THE LUBRICATING WATER FILTER IN THE COOLING TOWERS. BOTH TOWERS WERE REMOVED FROM SERVICE UNTIL THE MUD CONTENT DECREASED. BOTH UNITS WERE OPERATING AT ABOUT 50% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (DNR) + PEACH BOTTOM 3 (DNR) + COOLING TOWER + PUMPS + WEATHER, SEVERE + RIVER + PLUG + FILTER, SCREEN

107210

SECOND FAN ON COOLING TOWER LOST AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
 2 PGS. AD 50-277770-75-22 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 10, 1975. DDCRETS 50-277770.
 TYPE--DNR, RFG--G.E., AE--DECHTEL

CAUSE - SHAFT BEARING FAILURE. WHILE OPERATING BOTH UNITS AT ABOUT 55% POWER WITH FAN D LOCKED FOR MITER SHAFT AND LINE BEARING REPLACEMENT, FAN P ON COOLING TOWER C TRIPPED DUE TO HIGH VIBRATION. THE GEAR REDUCER PINION SHAFT BEARING HAD FAILED. REPAIRS ON FAN D WERE COMPLETED AND IT WAS RETURNED TO SERVICE 10 DAYS LATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

107210 PLANTING
CHANGE 02.001

PEACH BOTTOM 2 (0001) * PNEUMICS * PNEUMIC TOWER * BEARING * FAILURE, EQUIPMENT

107219
UPPER ISOLATION VALVE ON LEVEL INSTRUMENT FOUND CLOSED AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AD 50-277-75-06 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 10, 1975, DOCKET 50-277, TYPE--BWR, HPG--G.E., AE--BECHTEL

CAUSE - TECHNICIAN ERROR. DURING A TEST WITH THE REACTOR AT 558 POWER, THE UPPER ISOLATION VALVE TO SCRAM DISCHARGE VOLUME HI LEVEL SCRAM SWITCH WAS FOUND CLOSED. THE PROBABLE CAUSE WAS FAILURE TO OPEN THE VALVE AFTER THE PREVIOUS TEST. THE VALVE WAS OPENED. THE SERIOUSNESS OF THE ERROR WAS STRESSING TO THE TECHNICIANS INVOLVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.001

PEACH BOTTOM 2 (0001) * SENSORS, LEVEL * VALVES * CONTAINMENT ISOLATION * TEST, SYSTEM OPERABILITY * FAILURE, MAINTENANCE ERROR

107493
SET POINT SHIFT IN PRESSURE SWITCHES AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AD 50-277-75-05 TO NRC DIVISION OF REACTOR LICENSING, OCT. 26, 1975, DOCKET 50-277, TYPE--BWR, HPG--G.E., AE--BECHTEL

CAUSE - INSTRUMENT SHIFT. DURING TESTING OF THE REACTOR HIGH PRESSURE SCRAM SWITCH SET POINTS WHILE OPERATING AT 508 POWER, 3 OF THE 4 SWITCHES EXCEEDED THE 1055 PSIG LIMIT BY 9, 4, AND 2 PSI, RESPECTIVELY. THE CAUSE WAS INSTRUMENT SHIFT. THE SWITCHES WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.001

PEACH BOTTOM 2 (0001) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * SET POINT * SHIFT * REACTOR SAFETY SYSTEM

107605
SECOND COOLING TOWER REMOVED FROM SERVICE AT PEACH BOTTOM 2 AND 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. ENVIRONMENTAL DEVIATION RPT. 50-277/278-75-23 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 24, 1975, DOCKETS 50-277/278, TYPE--BWR, HPG--G.E., AE--BECHTEL

CAUSE - LEAKS IN FIRE DETECTION SYSTEM. WHILE BOTH UNITS WERE OPERATING AT ABOUT 558 POWER AND WITH COOLING TOWER A OUT OF SERVICE BECAUSE OF LIFT PUMP BEARING FAILURE, COOLING TOWER C WAS REMOVED FROM SERVICE FOR ABOUT 14 HOURS FOR MAINTENANCE OF THE FIRE DETECTION SYSTEM PIPING. EXCESSIVE NITROGEN LEAKAGE WAS RESPONSIBLE FOR ALARMS ABOUT EVERY 8 HOURS. ACCESSIBLE PIPING CONNECTIONS WHICH WERE LEAKING WERE REPAIRED. THE FREQUENCY OF ALARMS WAS REDUCED TO ONCE PER DAY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.001

PEACH BOTTOM 2 (0001) * PEACH BOTTOM 3 (0001) * FIRE PROTECTION * COOLING TOWER * LEAK * PIPES AND PIPE FITTINGS * NITROGEN * FAILURE, EQUIPMENT

107807
ALL COOLING TOWERS REMOVED FROM SERVICE AT PEACH BOTTOM 2 AND 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. ENVIRONMENTAL DEVIATION RPT. 50-277/278-75-24 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 29, 1975, DOCKETS 50-277/278, TYPE--BWR, HPG--G.E., AE--BECHTEL

CAUSE - MUDDY RIVER WATER. LARGE AMOUNTS OF RAINFALL CAUSED BY LOCAL STORMS RAPIDLY INCREASED THE SUSQUEHANNA RIVER FLOW TO 134000 CFS. THE RIVER BECAME VERY MUDDY CAUSING REPEATED PLUGGING OF THE LUBRICATING WATER FILTER. LUBRICATING WATER IS SUPPLIED TO THE MAIN LIFT PUMP SHAF. BOTH OPERATING COOLING TOWERS WERE REMOVED FROM SERVICE WITH BOTH UNITS OPERATING AT ABOUT 558 POWER. DURING THE OUTAGE, MAINTENANCE ON COOLING TOWER C INCLUDED REPAIR OF A LEAKING DISTRIBUTION HEADER, REPLACEMENT OF THE LUBE OIL PUMP, AND CORRECTION OF ADDITIONAL FIRE ALARM SYSTEM NITROGEN PIPING LEAKS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE 02.001

PEACH BOTTOM 2 (0001) * PEACH BOTTOM 3 (0001) * COOLING TOWER * WEATHER, SEVERE * RIVER * SURFACE WATER * WATER * CRUL * MAINTENANCE AND REPAIR * FAILURE, SIMULTANEOUS

107845

107005 UNCONTINUED
APRM FLOW BIAS SIGNAL FAILS UPSCALE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AJ 50-277-75-06 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 30, 1975, Docket 50-277, TYPE--RM, NRC--GRC, AE--BECHTEL

CAUSE - INTERNAL SHORT IN FLOW TRANSMITTER. WITH THE UNIT AT 50% POWER, AN INTERNAL SHORT IN CHANNEL B FLOW TRANSMITTER CAUSED THE TRANSMITTER TO INDICATE UPSCALE. THIS IN TURN CAUSED CHANNEL B APRM FLOW BIAS SIGNAL TO FAIL UPSCALE. THE DEFECTIVE COMPONENTS CONTAINING THE SHORTS WERE REPLACED. THE FLOW TRANSMITTER WAS RECALIBRATED AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) + PSNS, RS, FLOW + ELECTRONIC FUNCTION UNITS + FAILURE, INSTRUMENT

107007
J-RING GASKET LEAKS IN INERTING NITROGEN SUPPLY VALVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AJ 50-277-75-09 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 31, 1975, Docket 50-277, TYPE--RM, NRC--GRC, AE--BECHTEL

CAUSE - INCORRECT TEST LINE USED. WHILE PREPARING TO DO A LOCAL LEAK RATE TEST IN THE INWARD FLANGE OF THE DRYWELL AND TORUS INERTING NITROGEN SUPPLY VALVE, NITROGEN WAS FOUND TO LEAK OUT OF THE TEST CONNECTION. IT WAS THOUGHT THAT THE INNER J-RING LEAKED. INVESTIGATION FOUND THAT THE CONNECTION USED FOR THE TEST COMMUNICATED DIRECTLY WITH THE SUPPLY LINE AND WAS NOT THE CONNECTION FOR TESTING THE JOINT J-RING SEAL. THE LINE WAS CAPPED. THE SEALS WILL BE TESTED IN THE NEAR FUTURE. THE REACTOR WAS AT 50% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) + SEAL + LEAK + VALVES + CONTAINMENT PURGE + NITROGEN + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + TESTING

107008
DIESEL GENERATOR BREAKER FAILS TO OPERATE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AJ 50-277-75-07 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 31, 1975, Docket 50-277, TYPE--RM, NRC--GRC, AE--BECHTEL

CAUSE - IMPERATIVE CHARGING MOTOR. WHILE ADJUSTING THE DIESEL GENERATOR E-4 FOR TESTING, THE BREAKER FAILED TO CLOSE. THE BREAKER CHARGING SPRING WAS NOT CHARGED FOLLOWING THE PREVIOUS OPENING. THE CHARGING MOTOR HAD FAILED DUE TO BRUSH WEAR, CAUSED BY A BROKEN COMMUTATOR HOUSING. THE BREAKER WAS REPLACED WITH A SPARE. THE FAILED CHARGING MOTOR WAS THEN REPLACED AND THE BREAKER REINSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) + BREAKER + GENERATOR, DIESEL + ENGINES, INTERNAL COMBUSTION + TEST, SYSTEM OPERABILITY + FAILURE, COMPONENT + MOTORS

107009
O-RING GASKET LEAK ON TORUS PURGE SUPPLY VALVE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AJ 50-277-75-08 TO NRC DIVISION OF REACTOR LICENSING, OCT. 31, 1975, Docket 50-277, TYPE--RM, NRC--GRC, AE--BECHTEL

CAUSE - WRONG TEST LINE USED. WHILE PREPARING FOR A LOCAL LEAK RATE TEST IN THE OUTWARD FLANGE OF THE TORUS PURGE INWARD ISOLATION VALVE, CONTAINMENT ATMOSPHERE WAS FOUND TO LEAK OUT OF THE TEST CONNECTION. IT WAS SUSPECTED THAT THE INNER O-RING LEAKED. INVESTIGATION SHOWED THAT THE CONNECTION USED FOR THE TEST WAS NOT THE ONE FOR TESTING THE SEAL BUT THAT IT COMMUNICATED DIRECTLY WITH THE SUPPLY LINE OUTWARD OF THE VALVE. THE CONNECTION WAS CAPPED. THE O-RING SEALS WILL BE TESTED IN THE NEAR FUTURE. THE REACTOR WAS AT 50% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) + VALVES + CONTAINMENT PURGE + FAILURE, MAINTENANCE ERROR + TESTING + LEAK + TORUS + TEST, SYSTEM OPERABILITY + SEAL

100002
HYDRAULIC SHUTTERS FOUND INOPERABLE AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AJ 50-277-75-70 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, NOV. 14, 1975, Docket 50-277, TYPE--RM, NRC--GRC, AE--BECHTEL

CAUSE - LEAKING O-RINGS AND SEALS. DURING A ROUTINE INSPECTION WHILE THE UNIT WAS IN SHUTDOWN,

100002 - CONTINUED

THE RESERVOIRS OF FIVE HYDRAULIC SHOCKERS WERE FOUND EMPTY. THE J-RINGS AND GASKETS WERE LEAKING. THE DEFECTIVE J-RINGS AND GASKETS WILL BE REPLACED. THE SHOCKERS WILL BE TESTED FOR OPERATING CAPABILITIES AND LEAKS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • SHOCKER ASSEMBLY • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • SURVEILLANCE PROGRAM • FAILURE, EQUIPMENT • OSEAL • LEAK

100001

LEAK IN 1-INCH LINE CRACKS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.

1. PUS. NO. 50-277-75-71 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 17, 1975, DOCKET 50-277, TYPE--BWR, RE--BENTEL

CAUSE - VIBRATION. WHILE ONE LOOP B WAS OPERATING IN THE SHUTDOWN MODE WITH THE REACTOR SHUTDOWN AND DEPRESSURIZED, A LEAK WAS OBSERVED. THE LEAK WAS FROM A CRACKED SOCKET WELD WHERE THE 1-INCH PIPE CONNECTED TO A SOCKET ON THE 2-INCH HEADER. BECAUSE OF THE LOW HEAT LOADS, IT WAS NECESSARY TO THROTTLE THE REACTOR VALVE. THIS CAUSED VIBRATION WHICH CRACKED THE WELD. THIS WELD WAS REPAIRED. INSTALLATION OF ADDITIONAL SUPPORTS IN THIS AREA IS BEING STUDIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • PIPES AND PIPE FITTINGS • LEAK • SHUTDOWN COOLING SYSTEM • FAILURE, DESIGN ERROR • PARALLEL PIPE • VIBRATION

100200

LEAK IN 4-IN PIPING CRACKS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.

1. PUS. NO. 50-277-75-72 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 19, 1975, DOCKET 50-277, TYPE--BWR, RE--BENTEL

CAUSE - VIBRATION. WHILE ONE LOOP B WAS OPERATING IN THE SHUTDOWN COOLING MODE, A LEAK WAS OBSERVED IN THE VICINITY OF A VALVE. A CRACK HAD OCCURRED IN A VENT LINE ADJACENT TO THE WELD CONNECTING THE VENT LINE TO THE PROCESS LINE. BECAUSE OF THE LOW HEAT LOADS WHEN IN SHUTDOWN COOLING MODE, IT WAS NECESSARY TO THROTTLE THE VALVE. THIS CAUSED VIBRATION WHICH RESULTED IN THE CRACK. REPAIRS WERE MADE USING APPROVED PROCEDURES. ADDITIONAL BRACING WILL BE INSTALLED WHEN APPROVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • PIPES AND PIPE FITTINGS • LEAK • OPERATING PIPE • FAILURE, DESIGN ERROR • VIBRATION • SUPPORT STRUCTURE • CRACK • SHUTDOWN COOLING SYSTEM

100205

SHUT DOWN RELIEF VALVE BODY LEAKS AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.

1. PUS. NO. 50-277-75-73 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 21, 1975, DOCKET 50-277, TYPE--BWR, RE--BENTEL

CAUSE - CRACK IN VALVE BODY. WITH ONE LOOP B OPERATING IN THE SHUTDOWN COOLING MODE, A LEAK WAS OBSERVED IN THE BODY OF THE RELIEF VALVE. A CRACK HAD OCCURRED ON THE VALVE BASE AT THE TRANSITION TO THE NIPPLE. REPAIRS WERE MADE IN ACCORDANCE WITH APPROVED PROCEDURES. BECAUSE THE SYSTEM WAS OPERATING IN LOW HEAT LOADS, IT WAS NECESSARY TO THROTTLE THE CONTROL VALVE CAUSING VIBRATION WHICH RESULTED IN THE CRACK. ADDITIONAL BRACING WILL BE ADDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (UNIT) • VALVES • PRESSURE RELIEF • SHUTDOWN COOLING SYSTEM • FAILURE, DESIGN ERROR • LEAK • VIBRATION • SUPPORT STRUCTURE • CRACK

100203

THE HYDRAULIC SHOCKERS FOUND INOPERABLE AT PEACH BOTTOM 2

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.

1. PUS. NO. 50-277-75-74 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 26, 1975, DOCKET 50-277, TYPE--BWR, RE--BENTEL

CAUSE - SEAL LEAKS. DURING A ROUTINE INSPECTION WITH THE REACTOR IN COLD SHUTDOWN, THE RESERVOIRS OF 2 HYDRAULIC SHOCKERS WERE FOUND EMPTY. GASKETS AND J-RINGS WERE LEAKING. DEFECTIVE GASKETS, SEALS, J-RINGS, AND FITTINGS WILL BE REPLACED. FOLLOWING REPAIR, EACH UNIT WILL BE CHECKED IN A TEST STAND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

100243 RECONTINUED
PEACH BOTTOM 2 (BWR) • OSMOSE ABSORBER • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • SURVEILLANCE PROGRAM • OSEAL • OSEAL • FAILURE, EQUIPMENT

100250
SET POINT DRIFT IN TEMPERATURE SWITCH AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AC 50-277-75-76 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 20, 1975, DOCKET 50-277, TYPE--BWR,
NRC--G.E., AE--ORCHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING WHILE THE UNIT WAS IN COLD SHUTDOWN, THE SET POINT OF 1 OF THE 4 REC STEAM SUPPLY LINE AREA HIGH TEMPERATURE SWITCHES WAS FOUND TO HAVE DRIFTED 2° ABOVE THE 200°F LIMIT. THE SWITCH WAS IMMEDIATELY RECALIBRATED AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, TEMPERATURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REC

100551
TWO COOLING TOWERS SIMULTANEOUSLY IMPERABLE AT PEACH BOTTOM 2 AND 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AC 50-277-75-76 TO NRC DIVISION OF REACTOR LICENSING, NOV. 20, 1975, DOCKETS 50-277/278, TYPE--BWR,
NRC--G.E., AE--ORCHTEL

CAUSE - LUBRICATING WATER PUMP BEARING FAILURE. WITH UNIT 2 SHUT DOWN, UNIT 3 AT 55% POWER, AND COOLING TOWER A OUT OF SERVICE DUE TO A LIFT PUMP BEARING FAILURE, COOLING TOWER C LIFT PUMP TRIPPED DUE TO FAILURE OF ITS LUBRICATING WATER PUMP MOTOR BEARINGS. INSPECTION DURING THE OUTAGE REVEALED THAT PAA 4 HAD THROWN ITS SHAFT BEARING AIR DRAGGING 2 OF THE FAN BLADES AND SOME OF THE TOWER INTERNAL STRUCTURAL SUPPORTS. HIGH VIBRATION ON PAMS C AND A WAS CORRECTED BY RE-ALIGNMENT. DEFICIENCIES WERE CORRECTED. THE TOWER WAS OUT OF SERVICE FOR 10 DAYS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) • PEACH BOTTOM 3 (BWR) • COOLING TOWER • PLOWERS • BEARING • SUPPORT STRUCTURE • DAMP • FAILURE, EQUIPMENT • PUMPS • COOLING TOWER, MECHANICAL

100553
PIPE SUPPORT FOUND DAMEN AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AC 50-277-75-76 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 20, 1975, DOCKET 50-277, TYPE--BWR,
NRC--G.E., AE--ORCHTEL

CAUSE - NOT STATED. DURING A ROUTINE INSPECTION OF PLANT PIPING WHILE THE REACTOR WAS IN COLD SHUTDOWN, A RIGID PIPE SUPPORT WAS FOUND TO BE BROKEN ON THE HRA SHUTDOWN COOLING SECTION LINE DOWNSTREAM OF THE GUTTA SEPARATION VALVE. IT WAS REPLACED IN KIND. THE INVESTIGATION IS CONTINUING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • SHUTDOWN COOLING SYSTEM • SURVEILLANCE PROGRAM • FAILURE, EQUIPMENT

100552
HRA HEAD SPRAY LINE VENT FAILS TO OPEN AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AC 50-277-75-77 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 5, 1975, DOCKET 50-277, TYPE--BWR,
NRC--G.E., AE--ORCHTEL

CAUSE - GROUND IN SOLENOID VALVE CIRCUIT. UPON RECEIPT OF HEAD SPRAY ACCUMULATOR LOW LEVEL ALARM WHILE THE UNIT WAS SHUT DOWN, INVESTIGATION REVEALED THAT THE VENT SOLENOID VALVE FAILED TO OPEN TO REFILL THE HEAD SPRAY HIGH POINT ACCUMULATOR. A GROUND IN THE SOLENOID VALVE CIRCUIT RESULTED IN A BLUDD FUSE. THE GROUND WAS CORRECTED AND THE ACCUMULATOR RETURNED TO NORMAL SERVICE. UNTIL THE VALVE WAS OPERABLE, THE OPERATOR MANUALLY VENTED THE ACCUMULATOR WHEN NEEDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

OVALS • CONTAINMENT SPRAY • ELECTRIC POWER • FAULT • FAILURE, EQUIPMENT • SHUTDOWN COOLING SYSTEM • PEACH BOTTOM 2 (BWR) • ACCUMULATORS

100795
REC-MBIRN NITROGEN ANALYZERS NOT OPERATING PROPERLY AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA

100745 - CONTINUED
 2 PGS. AD 50-277-75-76 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 11, 1975, DOCKET 50-277, TYPE--BWR,
 WFO--G.E., AE--BCHTEL

CAUSE - SAMPLE PUMP TRIPPED DURING INSTRUMENTATION SURVEILLANCE WHILE OPERATING AT 52% POWER. THE CONCENTRATION OF RECOMBINER PROMOTER EFFLUENT WAS OBSERVED TO BE ABNORMALLY LOW. THE INLET SAMPLE PUMP OF THE ANALYZER WAS TRIPPED BECAUSE ITS CONTROL SWITCH WAS NOT FULLY ROTATED TO THE ON POSITION. THE MOTOR ON THE INLET PUMP OF THE OTHER ANALYZER HAD WORKED OUT. THE INLET PUMP WAS REPLACED. DATA WERE RECALIBRATED AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) • OPERATION • MONITORING • DEFECTS • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • FAILURE, MAINTENANCE ERROR • PROBABLE • RECOMMENDATIONS

100750
 THE COOLING TOWERS SIMULTANEOUSLY INSUPERATIVE AT PEACH BOTTOM 2 AND 3
 PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA
 2 PGS. AD 50-277-75-76-77 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 12, 1975, DOCKETS 50-277/278,
 TYPE--BWR, WFO--G.E., AE--BCHTEL

CAUSE - DISTRIBUTION HEADER LEAK. WITH BOTH UNITS OPERATING AT 55% POWER AND COOLING TOWER A OUT OF SERVICE DUE TO A LIFT PUMP BEARING FAILURE, A LARGE LEAK IN THE SOUTH SIDE WATER DISTRIBUTION HEADER AT THE TOP OF THE TOWER NECESSITATED SHUTDOWN OF TOWER B. THE LEAKING SECTION HAD BEEN REPAIRED 6 MONTHS AGO. A LARGER STAINLESS STEEL PIECE WAS USED THIS TIME AND STAINLESS STEEL RETAINING BANDS WERE APPLIED TO REPLACE THE FIBERGLASS BANDS. COOLING TOWER A WAS RETURNED TO SERVICE IN 14 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) • PEACH BOTTOM 3 (BWR) • COOLING TOWER • PIPES AND PIPE FITTINGS • LEAK • FAILURE, PIPE

100800
 ACID ISOLATION VALVE FAILS TO OPEN AT PEACH BOTTOM 2
 PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA
 2 PGS. AD 50-277-75-79 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 17, 1975, DOCKET 50-277, TYPE--BWR,
 WFO--G.E., AE--BCHTEL

CAUSE - TIGHT VALVE PACKING. DURING A TEST WITH THE REACTOR AT 67% POWER, THE ACID OUTBOARD ISOLATION VALVE FAILED TO CLOSE. THE VALVE PACKING WAS TOO TIGHT. THE PACKING WAS LOOSEMED AND THE VALVE WAS SUCCESSFULLY STROCK SEVERAL TIMES. THIS IS A NORMALLY OPEN VALVE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) • VALVES • CONTAINMENT ISOLATION • ACID • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • FAILURE, EQUIPMENT • SEAL

100822
 REACTOR PRESSURE VESSEL STABILIZERS SLIGHTLY DEFORMED AT PEACH BOTTOM 2
 PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA
 2 PGS. UNUSUAL EVENT RPT TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 23, 1975, DOCKET 50-277, TYPE--BWR,
 WFO--G.E., AE--BCHTEL

CAUSE - BINDING. DURING AN INSPECTION OF THE UPPER PORTIONS OF THE DRYWELL WITH THE REACTOR IN COOL SHUTDOWN, 2 OF THE 6 REACTOR VESSEL STABILIZERS APPEARED TO HAVE BEEN SLIGHTLY DEFORMED. INDICATIONS WERE THAT THE STABILIZERS WERE BINDING UP DURING PLANT OPERATION AND WERE SUBJECT TO CYCLIC LOADING DURING VESSEL HEAT UP AND COOL DOWN. FATIGUE ANALYSIS ON THE AFFECTED STABILIZERS INDICATED THAT THE STABILIZERS WERE ACCEPTABLE FOR CONTINUED OPERATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 2 (BWR) • DEFORMATION • SUPPORT STRUCTURE • SHOCK ABSORBER • THERMAL MECHANICAL EFFECT • SURVEILLANCE PROGRAM • PRESSURE VESSELS

100750
 SET POINT SHIFT IN DIFFERENTIAL PRESSURE SWITCHES AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY
 1 PAGE, LETTER TO WHEATGLASS (E) LICENSING (AEC), JANUARY 3, 1976, DOCKET 50-278, TYPE--BWR, WFO--G.E., AE--BCHTEL

CAUSE - CONSTANT CYCLIC ACTION. DURING TESTING WITH THE REACTOR AT 12% POWER, A BWR LOOP SELECTION SET PUMP RISEN DIFFERENTIAL PRESSURE SWITCH WAS TRIPPED AND WOULD NOT RESET AND 2 OTHERS HAD OUT OF SETPOINT SETTINGS. ALL 3 WERE RECALIBRATED. THESE SWITCHES ARE SUBJECT TO A CONSTANT CYCLIC ACTION DUE TO NORMAL PRESSURE DIFFERENCES. ALSO, THESE SWITCHES RESPOND TO A LOW DIFFERENTIAL PRESSURE.

090730 REUNITING
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + REACTOR STARTUP EXPERIENCE + TEST, SYSTEM OPERABILITY + SET POINT + PEACH BOTTOM 3 (BWR) + UNIT + SECTIONS, PRESSURE + LPCI

090900
 FOUR-INCH RECIRCULATION BYPASS LINE CRACK INDICATIONS AT PEACH BOTTOM 3
 U.S. ATOMIC ENERGY COMMISSION, WASHINGTON
 1 PAGE, DIRECTORATE OF REGULATORY OPERATIONS NOTIFICATION OF AN INCIDENT, NO. 149, JANUARY 6, 1975, DUCRET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNKNOWN. DURING UT TESTING, CRACK-LIKE INDICATIONS WERE NOTED AT 2 LOCATIONS ON THE ISOLABLE PORTION OF THE 4-INCH RECIRCULATION BYPASS LINE. INDICATIONS APPEAR TO ORIGINATE IN THE INTERIOR SURFACE. THE PIPING WAS EXAMINED IN SEPT. 1974 AND FOUND TO BE ACCEPTABLE. THE LINE CONTAINING THE INDICATIONS WILL BE REPLACED. THIS PIPE IS FROM A DIFFERENT HEAT OF MATERIAL FROM THAT IN WHICH CRACKS HAVE BEEN REPORTED AT OTHER UNITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, PIPE + HELIX + FLAW + TEST, NONDESTRUCTIVE + MAIN COOLING SYSTEM + FLOW, RECIRCULATION + BYPASS + ULTRASONICS + BACKFIT + PEACH BOTTOM 3 (BWR) + PIPES AND PIPE FITTINGS

090933
 APPARENT FAILURE OF STEAM LINE SAMPLE VALVE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
 1 PAGE, LETTER TO DIRECTORATE OF LICENSING (AEC), JANUARY 12, 1975, DUCRET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - BENT ACTUATION ARM. WITH THE REACTOR AT 95.18 POWER, IT APPEARED THAT THE INBOARD MAIN STEAM LINE SAMPLE ISOLATION VALVE (INSIDE THE DRYWELL) WOULD NOT ISOLATE. THE OUTBOARD ISOLATION VALVE WAS CLOSED IMMEDIATELY. THE VALVE DID CLOSE PROPERLY. THE POSITION INDICATION ACTUATION ARM WAS FOUND TO BE BENT. IT WAS STRAIGHTENED AND THE LIMIT SWITCH ADJUSTED TO REDUCE THE BENDING EFFECT ON THE ARM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT + CONTAINMENT ISOLATION + SAMPLING + REACTOR STARTUP EXPERIENCE + FAILURE, MAINTENANCE ERROR + MAIN COOLING SYSTEM + INSTRUMENT, POSITION + PEACH BOTTOM 2 (BWR) + VALVES

090922
 DRYWELL EQUIPMENT ROOM LEAKAGE EXCEEDS LIMIT AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
 1 PAGE, LETTER TO DIRECTORATE OF LICENSING (AEC) JANUARY 14, 1975, DUCRET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - TWISTED GASKET. DURING LOCAL LEAK RATE TEST OF THE DRYWELL EQUIPMENT ROOM WHILE THE REACTOR WAS IN COLD SHUTDOWN, LEAKAGE FROM THE CONTAINMENT TO THE REACTOR BUILDING EXCEEDED THE 2000 CC/MIN LIMIT. THE OUTER SEALING GASKET WAS TWISTED AND PINCHED OVER A 3 INCH SECTION. NEW GASKETS WERE INSTALLED AFTER BEING COATED WITH A THIN FILM OF HIGH TEMPERATURE GREASE. RETESTING SHOWED NEGLECTIBLE LEAKAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT + TEST, LEAK RATE + CONTAINMENT INTEGRITY + CONTAINMENT EQUIPMENT MATCH + REACTOR STARTUP EXPERIENCE + SEAL + DAMAGE + LEAK + PEACH BOTTOM 3 (BWR)

090943
 PRIMARY CONTAINMENT ISOLATION VALVES FAIL TO CLOSE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
 1 PAGE, LETTER TO AEC DIRECTORATE OF LICENSING, JANUARY 17, 1975, DUCRET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - JOINT AND IMPROPER ASSEMBLY. DURING TESTING OF THE PRIMARY CONTAINMENT ISOLATION VALVES WHILE THE REACTOR WAS SHUTDOWN, 2 VALVES FAILED TO CLOSE. THE DRYWELL FLOOR DRAIN OUTBOARD ISOLATION VALVE WAS REPAIRED BY STRAIGHTENING A MISALIGNED PACKING FOLLOWUP. THE SOLENOID VALVE WAS ALSO DISASSEMBLED AND INSPECTED. THE INSTRUMENT NITROGEN SUPPLY VALVE TO THE TOPUS WAS DISASSEMBLED. NO CAUSE FOR FAILURE WAS FOUND. SOME JOINT ACCUMULATION WAS FOUND IN THE AIR SUPPLY LINES. THE LINES WERE BLOWN OUT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT + CONTAINMENT ISOLATION + CRUD + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + PNEUMATIC SYSTEM + PEACH BOTTOM 3 (BWR) + VALVES

093573
 SUPPLY FLANGE ON VALVE MOTOR FAILS AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
 1 PAGE, LETTER TO DIRECTOR, DIVISION OF REACTOR LICENSING, JANUARY 20, 1975, DOCKET 50-275, TYPE--DNR, NRC--G.E., AE--
 BECHTEL

CAUSE - VIBRATION. DURING ROUTINE OPERATION OF THE SHUTDOWN COOLING MODE OF THE RHR SYSTEM, THE FLANGE WELD TO THE MOTOR TO A VALVE OPERATOR GEAR CASTING FAILED. THE FLANGE IS AN INTEGRAL PART OF THE MOTOR END BELL CASTING. HIGH VALVE VIBRATION DUE TO THE THROTTLING MODE OF THE VALVE CAUSED THE VALVE STEM TO HAMMER THE PACKING OUT OF POSITION CAUSING A FATIGUE FAILURE OF THE CASTING. THE MOTOR CASTING WAS REPLACED. SIMILAR FAILURES HAVE OCCURRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, COMPONENT + FAILURE, FATIGUE + FLANGE + VIBRATION + SHUTDOWN COOLING SYSTEM + FLOW + PEACH BOTTOM 3 (DNR) + VALVE OPERATOR + MOTORS

093572
 RCS PRESSURE SWITCH FAILS AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
 1 PAGE, LETTER TO DIRECTOR, DIVISION OF REACTOR LICENSING, JANUARY 31, 1975, DOCKET 50-276, TYPE--DNR, NRC--
 G.E., AE--BECHTEL

CAUSE - MOISTURE TUBE LEAKAGE. DURING TESTING WITH THE UNIT SHUTDOWN, 1 OF THE 2 RCS PRESSURE SWITCHES WAS FOUND INSUPERABLE FROM CORROSION DAMAGE. MINOR LEAKAGE FROM THE BOUNDARY TUBE RESULTED IN MOISTURE IN THE SWITCH CASE. THE SWITCH ASSEMBLY WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

COMMISSION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + LEAK + PEACH BOTTOM 3 (DNR) + SEASONS, PRESSURE

093830
 MODE SWITCH FAILS TO INITIATE FULL SCRAM SIGNAL AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PENNSYLVANIA
 1 PAGE, LETTER TO DIVISION OF REACTOR LICENSING, FEB. 2, 1975, DOCKET 50-278, TYPE--DNR, NRC--G.E., AE--
 BECHTEL

CAUSE - INTERMITTENT SWITCH CONTACT. AFTER INSERTION OF ALL CONTROL RODS AND PLACEMENT OF THE MODE SWITCH IN SHUTDOWN, THE MODE SWITCH WAS PLACED IN REFUEL POSITION TO ENABLE MOVEMENT OF A SINGLE CONTROL ROD. THE SWITCH FAILED TO ALLOW THE MOTION AND WAS THEN CYCLED TO SHUTDOWN AND BACK TO REFUEL TO CLEAR THE PROBLEM. THEN THE SWITCH FAILED TO INITIATE A FULL SCRAM WHEN MOVED TO SHUTDOWN. THE SWITCH CONTACTS WERE MAKING UP INTERMITTENTLY. THE SWITCH WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

REACTOR SAFETY SYSTEM + REACTOR CONTROL + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + REACTOR STARTUP
 EXPERIENCE + PEACH BOTTOM 3 (DNR)

099695
 RCIC STEAM SUPPLY VALVE LEAKAGE EXCESSIVE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEB. 11, 1975, DOCKET 50-278, TYPE--DNR, NRC--G.E., AE--
 BECHTEL

CAUSE - WORN PACKING. DURING LOCAL LEAK RATE TESTING OF THE RCIC STEAM SUPPLY VALVES WHILE THE UNIT WAS SHUTDOWN, AN INBOARD VALVE INDICATED EXCESSIVE LEAKAGE. THE PACKING WAS WORN. AFTER THE VALVE WAS REPACKED, THE LEAK RATE WAS NEGLIGIBLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, EQUIPMENT + CONTAINMENT ISOLATION + TEST, LEAK RATE + TEST, SYSTEM OPERABILITY + SEAL + LEAK +
 COOLING + PEACH BOTTOM 3 (DNR) + VALVES

099697
 SETPOINT SHIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEB. 19, 1975, DOCKET 50-278, TYPE--DNR, NRC--G.E., AE--
 BECHTEL

CAUSE - BINDING OF CAM. DURING TESTING WITH THE REACTOR SHUTDOWN, A RCIC STEAM LINE HI FLOW ISOLATION SWITCH TRIPPED AT 512 INCHES OF WATER, EXCEEDING THE 450 INCH LIMIT. THIS WAS CAUSED BY BINDING BETWEEN THE CAM FOLLOWER ROLLER SHIRT AND THE CAM AND BY UNEVENNESS OF THE ROLLER ON THE CAM FOLLOWER. THE CAM FOLLOWER WAS REPLACED, PROPERLY ALIGNED, AND CALIBRATED.

099697 CONTINUED
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

CONTAINMENT ISOLATION • INSTRUMENT CALIBRATION • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • FAILURE,
 MAINTENANCE ERROR • COOLING • SET POINT • PEACH BOTTOM 3 (BWR) • DRIFT • SENSORS, FLOW

130268
 SAMPLE SYSTEM ISOLATION VALVE LEAKS AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 24, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E.,
 AE--BECHTEL

CAUSE - DIRT ON SEAT. WHILE OPERATING AT 99.98 POWER AND WHILE TESTING THE PCIS NORMALLY OPEN
 VALVES, THE U2 ANALYZER SAMPLE SYSTEM INNER ISOLATION VALVE LEAK RATE EXCEEDED LIMITS. DIRT WAS
 FOUND ON THE SEAT AND IN THE BODY WHICH PREVENTED TIGHT SEATING OF THE VALVE. AFTER THE VALVE
 WAS CLEANED, IT SEALED PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 10 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

CONTAINMENT ISOLATION • TEST, LEAK RATE • SAMPLING • CRUD • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE
 ERROR • PEACH BOTTOM 3 (BWR) • VALVES

130271
 MPC1 STEAM SUPPLY LINE DRAIN SYSTEM FAILS AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 24, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E.,
 AE--BECHTEL

CAUSE - DIRT IN TRAP ORIFICE. AN INVESTIGATION OF THE MPC1 STEAM SUPPLY LINE MADE WHILE OPERATING
 AT 100% POWER REVEALED THAT THE DRAIN POT WAS NOT DRAINING THROUGH THE OUTLET STEAM TRAP AND HAD
 THE DRAIN POT HIGH LEVEL SWITCH ACTUATED TO OPEN THE STEAM TRAP BYPASS VALVE. THE TRAP ORIFICE
 WAS PLUGGED WITH A SMALL AMOUNT OF DIRT. AFTER BEING CLEANED, IT OPERATED PROPERLY. THE LEVEL
 SWITCH ADJUSTMENT LINKAGE WAS FOUND TO BE BINDING. THE SWITCH MECHANISM WAS REALIGNED AND IS
 OPERATING PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

STEAM • CRUD • INSTRUMENT, SWITCH • FAILURE, MAINTENANCE ERROR • PEACH BOTTOM 3 (BWR) • DRAINAGE • PIPES AND
 PIPE FITTINGS • SENSORS, LEVEL • MPC1

130270
 STANDBY LIQUID CONTROL PUMP TRIPS AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 26, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E.,
 AE--BECHTEL

CAUSE - BREAKER SETTING MARGINAL. DURING TESTING OF THE STANDBY LIQUID CONTROL PUMPS, 1 OF THE 2
 PUMPS FAILED TO START ON TWO ATTEMPTS. IN EACH CASE, THE CIRCUIT BREAKER TRIPPED. ONE PHASE
 MAGNETIC TRIP DEVICE WAS FOUND TO BE ADJUSTED MARGINALLY WITH RESPECT TO THE NORMAL STARTING
 CURRENT OF THE PUMP. ALL THREE MAGNETIC TRIP DEVICES ON THE BREAKER WERE RECALIBRATED TO
 ACCOMMODATE NORMAL PUMP STARTING CURRENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, COMPONENT • INSTRUMENT, PROTECTIVE • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • SHUTDOWN
 SYSTEM, SECONDARY • SET POINT • PEACH BOTTOM 3 (BWR) • BREAKER • PUMPS

100347
 ORTWELL FLOOR DRAIN ISOLATION VALVES CLOSE TOO SLOWLY AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, FEBRUARY 28, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E.,
 AE--BECHTEL

CAUSE - UNKNOWN. DURING THE PCIS SIMULATED AUTOMATIC ACTUATION TEST WITH THE UNIT SHUTDOWN, THE
 INNER AND OUTER ORTWELL FLOOR DRAIN ISOLATION VALVES REQUIRED MORE THAN 10 SECONDS TO CLOSE.
 CLOSING TIMES WERE 6.1 AND 7.0 SECONDS. THE CAUSE HAS NOT BEEN DETERMINED. THE SUPPLY AIR
 PRESSURE AND THE VALVE STROKE WERE ADJUSTED TO BRING THE CLOSING TIME WITHIN ACCEPTABLE VALUES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, EQUIPMENT • CONTAINMENT ISOLATION • RESPONSE TIME • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE
 ERROR • CONTAINMENT SUMP • PEACH BOTTOM 3 (BWR) • VALVES

100396

HYDRAULIC SHUTTER INOPERABLE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 4, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E., AE--
BECHTELCAUSE - UNKNOWN. A ROUTINE INSPECTION OF DRYWELL HYDRAULIC SHUTTERS DURING AN OUTAGE IDENTIFIED
ONE SHUTTER AS HAVING AN EMPTY RESERVOIR. THE SOURCE OF LEAKAGE COULD NOT BE IDENTIFIED. THE
SHUTTER RESERVOIR WAS REFILLED.AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00FAILURE, EQUIPMENT + SHOCK ABSORBER + SUPPORT STRUCTURE + SURVEILLANCE PROGRAM + LEAK + BACKFIT + PEACH BOTTOM
3 (BWR) + PIPES AND PIPE FITTINGS

100676

MAIN STEAM LINE RADIATION MONITOR FAILS AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PA.1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 12, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E., AE--
BECHTELCAUSE - ELECTRONIC FAILURE. A MAIN STEAM LINE RADIATION MONITOR FAILED DOWNSCALE WHILE THE PLANT
WAS OPERATING AT FULL POWER. MISCELLANEOUS ELECTRONIC PARTS WERE REPLACED IN THE DRAWER AND THE
UNIT RETURNED TO SERVICE.AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00FAILURE, COMPONENT + FAILURE, INSTRUMENT + MAIN COOLING SYSTEM + PEACH BOTTOM 3 (BWR) + ELECTRONIC FUNCTION
UNITS + RADIATION MONITORS

100878

LEAKAGE THROUGH VACUUM RELIEF CHECK VALVE EXCESSIVE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 21, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E., AE--
BECHTELCAUSE - GASKET SEAL DEFORMED. WHILE OPERATING AT 100% POWER AND DURING A LOCAL LEAK RATE TEST, A
REACTOR BUILDING-TG-TORUS VACUUM RELIEF CHECK VALVE WAS FOUND TO LEAK IN EXCESS OF LIMITS. THE
VALVE FAILED TO CLOSE TIGHTLY BECAUSE OF DEFORMATION OF THE VALVE'S RUBBER GASKET SEAL. AFTER
REPOSITIONING AND CLEANING THE SEAL, THE LEAKAGE WAS ACCEPTABLE ON THE RETEST.AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00TEST, LEAK RATE + CONTAINMENT VACUUM BREAKER + BUILDING + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE
ERROR + SEAL + LEAK RATE + PEACH BOTTOM 3 (BWR) + TORUS

101461

REACTOR LOW WATER LEVEL SWITCH FAILS TO OPEN AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY, PA.

1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, MARCH 27, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E., AE--
BECHTELCAUSE - STICKING SWITCH CONTACTS. DURING TESTING WITH THE REACTOR AT FULL POWER, A REACTOR LOW
WATER LEVEL SWITCH FAILED TO OPEN TO PROVIDE A GROUP 1 ISOLATION SIGNAL. FAILURE RESULTED FROM
STICKING SWITCH CONTACTS. AFTER THE CONTACTS WERE CLEANED, THE SWITCH TESTED SATISFACTORILY.AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00CONTAINMENT ISOLATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + FAILURE,
MAINTENANCE ERROR + PEACH BOTTOM 3 (BWR) + SENSORS, LEVEL

101778

SETPOINT SHIFT IN VACUUM SWITCH AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, APRIL 10, 1975, DOCKET 50-278, TYPE--BWR, MFG--G.E., AE--
BECHTELCAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE UNIT AT FULL POWER, A CONDENSER LOW VACUUM
SCRAM PRESSURE SWITCH WAS FOUND TO TRIP AT 22.4 IN. HG WHICH IS BELOW THE 23 IN. LIMIT. THE
CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS IMMEDIATELY RESET.AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D.C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

101770 PLANTINUED
 REACTOR SAFETY SYSTEM • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM
 OPERABILITY • CONDENSER • PRESSURE, SUBATMOSPHERIC • SET POINT • PEACH BOTTOM 3 (HWR) • DRIFT • SENSORS,
 PRESSURE

101779
 LEVEL SWITCH FAILS TO OPERATE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, APRIL 10, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--
 BECHTEL

CAUSE - BROKEN WIRE. DURING TESTING WITH THE UNIT AT 60% POWER, THE LOW ACCUMULATOR LEVEL SWITCH
 FAILED TO OPERATE THE RHR LOOP & HIGH POINT VENT VALVE. THE ALARM FUNCTION OF THE SWITCH DID
 OPERATE. A WIRE WITHIN THE SWITCH CASE HAD BEEN PINCHED AND BROKEN. THE WIRE WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 (100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00)

FAILURE, COMPONENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • FAILURE, INSTALLATION ERROR • SHUTDOWN
 COOLING SYSTEM • CABLES AND CONNECTORS • PEACH BOTTOM 3 (HWR) • SENSORS, LEVEL

102479
 HIGH RADIATION TRIP RELAY FAILS TO OPERATE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, APRIL 21, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--
 BECHTEL

CAUSE - SEALED RELAY FAILS. DURING TESTING WITH THE REACTOR OPERATING AT 73% POWER, A HIGH
 RADIATION TRIP RELAY FAILED TO OPERATE. THE HERMETICALLY SEALED RELAY HAD FAILED. THE DEFECTIVE
 RELAY WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00)

PEACH BOTTOM 3 (HWR) • RELAYS • RADIATION MONITORS • VENTILATION SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE,
 INSTRUMENT • CONTAINMENT ISOLATION

102480
 SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, APRIL 25, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--
 BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING WHILE THE REACTOR WAS AT 73% POWER, THE SET POINT OF A
 CORE SPRAY SPARGER TO REACTOR VESSEL DIFFERENTIAL PRESSURE ALARM SWITCH WAS FOUND TO BE 6.05 PSID
 WHICH EXCEEDS THE 6.0 PSID LIMIT. THE CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS IMMEDIATELY
 RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00)

PEACH BOTTOM 3 (HWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM
 OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • CORE SPRAY

102481
 MAIN STEAM LINE HIGH FLOW SWITCH FAILS TO TRIP AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, APRIL 25, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--
 BECHTEL

CAUSE - CAM FOLLOWER BINDING. DURING A TEST WITH THE REACTOR AT 87% POWER, A MAIN STEAM LINE HIGH
 FLOW SWITCH FAILED TO TRIP BECAUSE OF BINDING OF THE CAM FOLLOWER. SOME GLYPHTOL USED TO HOLD THE
 PLUNGER ADJUSTMENT SCREWS IN PLACE HAD RUN INTO THE CAM FOLLOWER AND PIVOT POINT CAUSING
 INCREASED FRICTION. THE SWITCH AND CAM FOLLOWER ASSEMBLY WERE CLEANED AND RESET.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00)

PEACH BOTTOM 3 (HWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, FLOW • TEST, SYSTEM OPERABILITY
 • FAILURE, MAINTENANCE ERROR • CRUD • REACTOR SAFETY SYSTEM • MAIN COOLING SYSTEM

102991
 OXYGEN ANALYZER ISOLATION VALVE LEAK RATE HIGH AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 9, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - SEATING SURFACE SCORED. DURING A ROUTINE LOCAL LEAK RATE TEST OF THE DRYWELL OXYGEN

102991 CONTINUING

ANALYZER SAMPLE ISOLATION VALVES. THE INBOARD VALVE WAS FOUND TO LEAK IN EXCESS OF 2000 CC/MIN. THE REACTOR WAS OPERATING AT 100% POWER. DISASSEMBLY OF THE VALVE INDICATED SCORING ON THE SEATING SURFACE WHICH PREVENTED THE VALVE FROM SEATING TIGHTLY. THE INTERNALS WERE CLEANED AND THE VALVE SEAT MATED. SUBSEQUENT LEAK TESTING WAS SUCCESSFUL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CONTAINMENT ISOLATION • SAMPLING • CONTAINMENT ATMOSPHERE, INERT • LEAK • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • FAILURE, EQUIPMENT • MONITOR

103000

PENETRATION ISOLATION CHECK VALVE FAILS TO SEAT AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 20, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - MALFUNCTION OF INTERNALS. DURING TESTING WITH THE REACTOR AT 100% POWER, THE INBOARD ISOLATION VALVE ON PENETRATION M-SIC WOULD NOT FULLY CLOSE. IT APPEARS THAT THE VALVE INTERNALS ARE FAILING TO SEAT PROPERLY. NEW VALVE INTERNALS HAVE BEEN ORDERED. WHEN RECEIVED, THE VALVE WILL BE REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CONTAINMENT ISOLATION • PENETRATIONS, PRIMARY CONTAINMENT • TEST, SYSTEM OPERABILITY • LEAK RATE • FAILURE, EQUIPMENT

103121

HIGH TEMPERATURE ISOLATION SWITCH FAILS TO TRIP AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 22, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - DIRTY CONNECTION CONTACTS. A MAIN STEAM LINE HIGH TEMPERATURE ISOLATION SWITCH FAILED TO TRIP USING THE LOCAL TRIP TEST PUSHBUTTON. THE REACTOR WAS AT FULL POWER. THE CONNECTION CONTACTS ON THE ELECTRONIC CIRCUIT BOARD WERE DIRTY. THE TRIP CARD WAS REMOVED, CONTACTS CLEANED, AND THE CARD REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • INSTRUMENT, SWITCH • SENSORS, TEMPERATURE • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • CABLES AND CONNECTORS • ELECTRONIC FUNCTION UNITS

103120

MOTOR ON CORE SPRAY INJECTION VALVE FAILS AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.

1 PAGE, LETTER TO NRC DIV. OF REACTOR LICENSING, MAY 29, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - TORQUE SWITCH FAILS. DURING A CLOSING STROKE, A CORE SPRAY INJECTION VALVE MOTOR GROUNDED AND TRIPPED ITS BREAKER. THE REACTOR WAS IN COLD SHUTDOWN. THE TORQUE SWITCH WHICH DE-ENERGIZES THE MOTOR OPERATOR AT THE COMPLETION OF ITS CLOSING STROKE FAILED TO OPERATE. THE DAMAGED MOTOR WAS REPLACED AND THE TORQUE SWITCH REMOVED AND INSPECTED. A HEAVY BUILDUP OF GREASE WAS REMOVED FROM THE BELLVILLE WASHER SECTION AND THE GREASE BYPASS LINE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CORE SPRAY • VALVE OPERATORS • FAILURE, COMPONENT • INSTRUMENT, SWITCH • FAILURE, MAINTENANCE ERROR

103491

TEMPERATURE SENSOR FAILS AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 6, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - PRIMARY SENSOR FAILS. DURING A TEST WITH THE REACTOR AT FULL POWER, IT WAS DISCOVERED THAT THERE WAS NO TEMPERATURE INPUT TO THE REACTOR WATER CLEANUP SYSTEM HIGH TEMPERATURE ISOLATION SWITCH. THE TEMPERATURE ELEMENT PRIMARY SENSOR HAD FAILED. THE CLEANUP SYSTEM WAS ISOLATED AND THE SENSOR WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • SENSORS, TEMPERATURE • INSTRUMENT, SWITCH • COOLANT PURIFICATION SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT

103452
TIP MACHINE BALL VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.
2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 12, 1975, DOCKET 50-270, TYPE--QWR, NRC--G.E., AE--
BECHTEL

CAUSE - JINT IN LIMIT SWITCH. DURING ROUTINE OPERATION OF THE TIP MACHINES, DETECTOR 9 FAILED TO STOP AT THE SHIELD LIMIT AND CLOSE THE BALL VALVE AS IT WAS SETTING RETURNING INTO THE SHIELD CHAMBER. THE REACTOR WAS AT 50% POWER. THE DETECTOR WAS MANUALLY STOPPED. JINT HAD ENTERED THE SHIELD LIMIT SWITCH MECHANISM CAUSING IT TO BIND. THE MECHANISM WAS CLEARED. THE TIP WAS OPERATED SUCCESSFULLY SEVERAL TIMES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • INSTRUMENT, IN CORE • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • INSTRUMENT, POSITION • CRUD

103467
RHM PUMP ROOM COILERS FAIL TO OPERATE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.
2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 13, 1975, DOCKET 50-270, TYPE--QWR, NRC--G.E., AE--
BECHTEL

CAUSE - DEFECTIVE FUSE. DURING A TEST WITH THE REACTOR AT 49.7% POWER, 2 RHM PUMP ROOM COILERS FAILED TO OPERATE IN EITHER THE RUN OR AUTO MODES WHEN THE PUMP WAS RUN. A FUSE WHICH EXHIBITED HIGH RESISTANCE IN THE AUXILIARY CONTROL CIRCUIT REDUCED VOLTAGE ACROSS THE COIL OF A RELAY SUFFICIENTLY TO PREVENT ITS CONTACTS FROM CLOSING. WHEN THE 6 AMP FUSE WAS REPLACED, PROPER OPERATION OF BOTH ROOM COILERS WAS VERIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • COOLING DEVICE • COMPARTMENT • SHUTDOWN COOLING SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • INSTRUMENT, PROTECTIVE • CONTROL SYSTEM

103468
TIP MACHINE BALL VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.
2 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, JUNE 20, 1975, DOCKET 50-270, TYPE--QWR, NRC--G.E., AE--
BECHTEL

CAUSE - LIMIT SWITCH FAILURE. DURING ROUTINE OPERATION OF THE TIP MACHINES WITH THE REACTOR AT 50% POWER, DETECTOR C FAILED TO STOP AT THE SHIELD CHAMBER. THE SHIELD LIMIT SWITCH, WHICH CONTROLS DETECTOR TRAVEL AND BALL VALVE OPERATION, FAILED TO OPERATE WHEN THE DETECTOR REACHED THE IN SHIELD POSITION. THE DETECTOR WAS MANUALLY STOPPED. THE SWITCH WAS FOUND TO BE CLEAN AND FREE OF BINDING. IT WAS ADJUSTED FOR OPTIMUM OPERATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT, IN CORE • INSTRUMENT, POSITION • FAILURE, INSTRUMENT • VALVES

104083
HIGH PRESSURE SERVICE WATER VALVE MOTOR TRIPS AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY, PA.
2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JUNE 30, 1975, DOCKET 50-270, TYPE--QWR, NRC--G.E., AE--
BECHTEL

CAUSE - WATER IN THE MOTOR. DURING TESTING OF THE HIGH PRESSURE SERVICE WATER SYSTEM WITH THE REACTOR AT 50% POWER, THE PHR HEAT EXCHANGER OUTLET VALVE MOTOR TRIPPED ON THERMAL OVERLOAD. MOISTURE HAD ACCUMULATED IN THE MOTOR CAUSING IT TO TRIP ELECTRICALLY. A PREVIOUSLY REPAIRED VALVE STEM LEAK IN THIS VALVE IS SUSPECTED TO HAVE CAUSED THE WATER ACCUMULATION. THE MOTOR WAS DRIED OUT AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • MOTORS • VALVE OPERATORS • AUXILIARY COOLING • SHUTDOWN COOLING SYSTEM • FAILURE, EQUIPMENT • FAILURE, MAINTENANCE ERROR • WATER • TEST, SYSTEM OPERABILITY • HEAT EXCHANGERS

104069
JERSEL BREAKER TO EMERGENCY BUS FAILS TO CLOSE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC COMPANY
1 PAGE, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 7, 1975, DOCKET 50-270, TYPE--QWR, NRC--G.E., AE--
BECHTEL

104205 DECONTAMINATE

CAUSE - MECH LINKAGE. DURING AN ELECTRICAL SWITCHING OPERATION IN PREPARATION FOR DE-ENERGIZING OF AN OFFSITE POWER SIGNAL WITH THE REACTOR AT 50% POWER, DIESEL BREAKER E-13 FAILED TO CLOSE FROM THE CONTROL ROOM. THIS BREAKER SUPPLIES ENERGY FROM THE DIESEL GENERATOR TO EMERGENCY BUS E-13. A LINKAGE IN THE BREAKER MECHANICAL ELEVATION MECHANISM CELL SWITCH WAS FOUND TO BE BENT. THE BREAKER WAS REARDED OUT AND THE LINKAGE STRAIGHTENED AND THE CELL SWITCH ADJUSTED. IT THEN WAS TESTED SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • BREAKER • FAILURE, EQUIPMENT • FAILURE, MAINTENANCE ERROR • EMERGENCY POWER, ELECTRIC

104205

MAIN STEAM LINE NAVIGATION MONITOR FAILS DOWNSCALE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 11, 1975, DOCKET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - RELAY FAILURE. A MAIN STEAM LINE NAVIGATION MONITOR FAILED DOWNSCALE WHILE THE PLANT WAS OPERATING AT 50% POWER. THIS RESULTED FROM A LOSS OF SIGNAL DUE TO FAILURE OF THE TEST RELAY PICK UP AFTER TESTING. THE RELAY WAS IMMEDIATELY REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

NAVIGATION MONITORS • FAILURE, COMPONENT • RELAYS • FAILURE, INSTRUMENT • MAIN COOLING SYSTEM • STEAM • REACTOR SAFETY SYSTEM • PEACH BOTTOM 3 (BWR)

104210

ALIC PUMP SUCTION VALVE FAILS TO OPERATE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY, PA.

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 10, 1975, DOCKET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - LEAD TO RELAY LOOSE. DURING A TEST, ALIC PUMP SUCTION-FROM-CONDENSATE-STORAGE-TANK VALVE FAILED TO OPERATE ELECTRICALLY FROM THE CONTROL ROOM. THE VALVE WAS IN THE OPEN POSITION. THE POSITIVE NC LEAD TO THE CONTROL RELAYS WAS NOT IN CONTACT WITH THE TERMINAL STRIP HOLD DOWN SCREW. THE LEAD WAS CORRECTED AND THE VALVE STROKED SEVERAL TIMES SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CONTAINMENT ISOLATION • COOLING • CABLES AND CONNECTORS • FAILURE, INSTALLATION ERROR • TEST, SYSTEM OPERABILITY

104232

SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY

2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 24, 1975, DOCKET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - LOOSE SET SCREW. DURING A TEST OF THE MAIN STEAM LINE HIGH FLOW SWITCHES WHILE THE UNIT WAS AT 50% POWER, THE SET POINT OF A SWITCH WAS FOUND TO BE SLIGHTLY ABOVE THE LIMIT. REPEATABILITY WAS POOR. THE RETAINING SCREW THAT FASTENS THE DIFFERENTIAL DRIVE ARM TO THE ACTUATING CAM WAS LOOSE ALLOWING DIFFERENTIAL MOVEMENT TO EXIST BETWEEN THE INTERNAL PARTS. THE RETAINING SCREW WAS TIGHTENED AND COATED WITH GLYPHOL. THE SWITCH WAS RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • SET POINT • DRIFT • FAILURE, MAINTENANCE ERROR • REACTOR SAFETY SYSTEM • FAILURE, INSTRUMENT • FASTENER

104237

TORUS WATER CLEANUP PUMP VALVE LEAKAGE EXCESSIVE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY

2 PAGES, LETTER TO NRC DIV. OF REACTOR LICENSING, JULY 25, 1975, DOCKET 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - TORQUE SWITCH SET LOW. DURING LEAK RATE TESTING OF THE TORUS WATER CLEANUP PUMP SUCTION ISOLATION VALVES, THE INBOARD VALVE WAS FOUND TO LEAK IN EXCESS OF 2000 CC/MIN. THE TORQUE SWITCH ON THE MOTOR OPERATOR WAS NOT SET HIGH ENOUGH. ITS SETTING WAS INCREASED AND THE VALVE PACKING TIGHTENED. THE LEAK RATE WAS FOUND TO BE ACCEPTABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • LEAK RATE • VALVES • CONTAINMENT ISOLATION • TORUS • WATER • TEST, SYSTEM OPERABILITY

104737 CONTINUED
 • TEST, LEAK RATE • FAILURE, MAINTENANCE ERROR • INSTRUMENT, SWITCH

104830
 TIP MACHINE BALL VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, JULY 25, 1975, Docket 50-270, TYPE--BWR, NRC--G.E., AE--
 BECHTEL

CAUSE - FAULTY SHIELD LIMIT SWITCH. DURING ROUTINE OPERATION OF THE TIP MACHINES WITH THE REACTOR AT 50% POWER, DETECTOR C FAILED TO STOP AT THE SHIELD LIMIT AND CLOSE THE BALL VALVE AS IT WAS BEING WITHDRAWN TO THE SHIELD CHAMBER. THE SHIELD LIMIT SWITCH FAILED TO OPERATE. THE DETECTOR WAS MANUALLY STOPPED. THE MACHINE WAS DE-ENERGIZED ALLOWING THE BALL VALVE TO CLOSE. THE LIMIT SWITCH WAS INSPECTED AND FOUND TO BE CLEAN. IT WAS READJUSTED AND SUCCESSFULLY TESTED SEVERAL TIMES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • INSTRUMENT, IN LINE • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • INSTRUMENT, POSITION

104969
 PRIMARY CONTAINMENT PENETRATION LEAKS AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, AUG. 1, 1975, Docket 50-270, TYPE--BWR, NRC--G.E., AE--
 BECHTEL

CAUSE - INNER BELLOWS FAILURE. DURING A LOCAL LEAK RATE TEST WITH THE REACTOR AT 50% POWER, A LEAK WAS FOUND IN THE INNER BELLOWS OF A DOUBLE BELLOWS CONTAINMENT PENETRATION. TEST SPACE PRESSURE WILL BE MONITORED DAILY. THE BELLOWS WILL BE INSPECTED DURING THE NEXT OUTAGE OF SUFFICIENT LENGTH. REPAIR OR REPLACEMENT WILL DEPEND ON THE RESULTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • PSRA • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • LEAK • CONTAINMENT INTEGRITY • FAILURE, COMPONENT • OPERATIONS, PRIMARY CONTAINMENT

104967
 HYDRAULIC SNUBBER FAILS AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY, PA.
 2 PAGES, LETTER TO NRC DIVISION OF REACTOR LICENSING, AUG. 4, 1975, Docket 50-270, TYPE--BWR, NRC--G.E., AE--
 BECHTEL

CAUSE - LOOSE FITTING. A ROUTINE INSPECTION OF HYDRAULIC SNUBBERS OUTSIDE THE DRYWELL FOUND ONE TO BE INOPERABLE. IT APPEARS THAT DURING PLACEMENT OF SCAFFOLDING IN CONTACT DURING SUBSEQUENT CONSTRUCTION ACTIVITY, AN ELOC CONNECTING THE SNUBBER TO THE RESERVOIR WAS DAMAGED. ALSO, THE RESERVOIR RETAINING BOLTS APPEAR TO HAVE LOOSENED BECAUSE OF VIBRATION. THE SNUBBER WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • PSRA ASSEMBLY • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • SURVEILLANCE PROGRAM • FAILURE, INSTALLATION ERROR • DAMAGE

104963
 PRIMARY CONTAINMENT ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY
 2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 9, 1975, Docket 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - SOLENOID VALVE MALFUNCTION. DURING TESTING FOR NORMALLY OPEN VALVES OF THE PRIMARY CONTAINMENT ISOLATION SYSTEM WITH THE REACTOR AT 50% POWER, THE INSTRUMENT A2 HEADER TO DRYWELL VALVE FAILED TO CLOSE. APPARENTLY, SOME FOREIGN MATTER PREVENTED THE SOLENOID VALVE WHICH ACTUATES THE VALVE FROM VENTING, THUS THE VALVE DID NOT CLOSE. AIR WAS MANUALLY VENTED AND THE VALVE CLOSED. THE VALVE WAS OPERATED SATISFACTORILY 6 TIMES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CONTAINMENT ISOLATION • INSTRUMENTS, MISC. • FAILURE, EQUIPMENT • SOLENOID • CRAW • PNEUMATIC SYSTEM • TEST, SYSTEM OPERABILITY

105279
 HIGH PRESSURE SERVICE WATER VALVE FOUND TO BE INOPERABLE AT PEACH BOTTOM 3
 PHILADELPHIA ELECTRIC COMPANY
 2 PGS, LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 14, 1975, Docket 50-270, TYPE--BWR, NRC--G.E., AE--BECHTEL

105274 CONTINUING

CAUSE - CRACKED SEAT RING. DURING TESTING OF THE HIGH PRESSURE SERVICE WATER SYSTEM WITH THE REACTOR OPERATING AT 82% POWER, THE OUTLET VALVE FAILED TO CONTROL LOOP FLOW OR PRESSURE. THE VALVE SEAT RING WAS FOUND TO BE CRACKED. IT WAS REMOVED AND THE VALVE LOCKED IN THE WIDE OPEN POSITION. A MAKEUP VALVE WILL BE USED TO CONTROL FLOW UNTIL A NEW SEAT RING CAN BE OBTAINED AND INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • AUXILIARY COOLING • TEST, SYSTEM OPERABILITY • SHUTDOWN COOLING SYSTEM • FAILURE, EQUIPMENT

105276

FEDMATER CHECK VALVE LEAKS AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY

2 PGS. LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 15, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - LEAKS IN SEAL PLATE. DURING A UNIT STARTUP, WATER WAS FOUND TO BE LEAKING FROM THE BONNET JOINT ON THE UPWARD FEDMATER CHECK VALVE. LEAKAGE WAS CAUSED BY 2 PIN HOLE LEAKS IN THE SEAL PLATE 1/2 INCH APART BETWEEN THE CONVOLUTE AND THE SEAL WELD AND A 3 INCH LONG THROUGH-WALL CRACK AT THE BASE OF THE CONVOLUTE. THE SEAL PLATE WAS REPLACED AND THE UNIT RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVE, CHECK • FEDMATER • LEAK • CRACK • REACTOR SHUTDOWN • FAILURE, EQUIPMENT

105296

SET POINT DRIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY

2 PGS. LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 22, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - CONSTANT CYCLIC ACTION. DURING TESTING ON NRC LOOP SELECTION JET PUMP RISER DELTA P SWITCHES WITH THE UNIT AT 84% POWER, THE SWITCH WAS FOUND TO TRIP AT 1.7 PSID WHICH EXCEEDS THE 0.5 TO 1.5 PSID LIMIT RANGE. THE CONSTANT CYCLIC ACTION DUE TO MINIMAL PRESSURE DIFFERENCES BETWEEN JET PUMP LOOPS PLUS THE LUN RANGE MAKE THE SWITCH PRONE TO SET POINT DRIFT. THE SWITCH WAS IMMEDIATELY CALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • EMERGENCY COOLING SYSTEM

105331

TIP MACHINE BALL VALVE FAILS TO CLOSE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY

2 PGS. LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 29, 1975, DOCKET 50-270, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - LIMIT SWITCH MALFUNCTION. DURING ROUTINE OPERATION OF THE TIP MACHINES WHILE THE UNIT WAS OPERATING AT 55% POWER, DETECTOR A FAILED TO STOP AT THE SHIELD LIMIT AND CLOSE THE BALL VALVE AS IT WAS BEING WITHDRAWN TO THE SHIELD CHAMBER. THE SHIELD LIMIT SWITCH FAILED TO OPERATE WHEN THE DETECTOR REACHED THE IN-SHIELD POSITION. THE DETECTOR WAS MANUALLY STOPPED. IT WAS RE-INSERTED PART WAY. THE LIMIT SWITCH OPERATED THIS TIME AND SEVERAL ADDITIONAL TIMES. A GREY POWDER LIKE SUBSTANCE, BELIEVED TO BE THE DRIVE CABLE LUBRICANT, WAS FOUND IN THE SWITCH ACTUATING PARTS. THE SWITCH WAS CLEANED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • INSTRUMENT, IN CURR • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • INSTRUMENT, POSITION • CURR • LUBRICATION • VALVES

105332

SET POINT DRIFT IN RADIATION MONITOR AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC COMPANY

2 PGS. LTR TO NRC DIV. OF REACTOR LICENSING, AUG. 29, 1975, DOCKET 50-279, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. WHILE TESTING THE REACTOR BUILDING EXHAUST RADIATION MONITORS WITH THE UNIT OPERATING AT 55% POWER, THE AS FOUND HIGH RADIATION TRIP SET POINT FOR A MONITOR WAS FOUND TO BE 24 M/R/M. THE FIRM SPEC LIMIT IS 16 M/R/M. THE CAUSE WAS INSTRUMENT DRIFT. THE SET POINT WAS ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • RADIATION MONITORS • VENTILATION SYSTEM • DISCHARGE • BUILDING • SET POINT • DRIFT • TEST, SYSTEM OPERABILITY • CONTAINMENT ISOLATION • INSTRUMENT, SWITCH

106322
CORE SPRAY FULL FLOW TEST VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PA.
2 PGS. AD 50-278/75-51 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 29, 1975, DOCKET 50-278, TYPE--BWR,
NRC--G.E., AE--DECMTEL

CAUSE - DEFECTIVE TURNUP SWITCH AND BROKEN WIRE. DURING TESTING OF THE CORE SPRAY SYSTEM WITH THE REACTOR AT 55.28 POWER, A FULL FLOW TEST VALVE FAILED TO CLOSE FROM THE WIDE OPEN POSITION DURING OPERATION OF BOTH CORE SPRAY PUMPS AT RATED FLOW. DURING SINGLE AND ZERO PUMP OPERATION, THE VALVE CLOSED SATISFACTORILY. A DEFECTIVE TURNUP SWITCH AND A BROKEN WIRE TO THE MOTOR DRIVE RESULTED IN OVERLOADING THE MOTOR. THE BROKEN WIRE WAS REPAIRED AND THE TURNUP SWITCH REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CORE SPRAY • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • CABLES AND CONNECTIONS • VALVE OPERATIONS

106318
REACTOR WATER CHEMISTRY EXCEEDS LIMITS AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PA.
2 PGS. AD 50-278/75-50 TO NRC OFFICE OF DIVISION OF REACTOR LICENSING, SEPT. 12, 1975, DOCKET 50-278, TYPE--BWR, NRC--G.E., AE--DECMTEL

CAUSE - RESIN INTRODUCED INTO REACTOR VESSEL. DURING RETURN OF THE REACTOR WATER CLEANUP SYSTEM TO SERVICE, THE REACTOR WATER CONDUCTIVITY AND PH VALUES EXCEEDED TECH SPEC LIMITS. LATER, DURING RESIN TRAP CLEANING ON THE SAME SYSTEM, CONDUCTIVITY LIMITS WERE EXCEEDED. IT APPEARS THAT IN BOTH INSTANCES DEMINERALIZED RESIN WAS INTRODUCED INTO THE REACTOR VESSEL VIA THE REACTOR WATER CLEANUP SYSTEM RETURN LINE. THE RESIN WAS DEGRADED BY THE HIGH REACTOR WATER TEMPERATURE CAUSING THE WATER CHEMISTRY CHANGE. A REACTOR SHUTDOWN WAS BEGUN BUT CHEMISTRY VALUES WERE RETURNED TO LIMITS BEFORE SHUTDOWN COULD BE ACCOMPLISHED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • COOLANT QUALITY • CATION PURIFICATION SYSTEM • RESIN • TEMPERATURE • EFFECT • MAIN COOLING SYSTEM

106319
NRC INBOARD ISOLATION VALVE FAILS TO OPEN AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PA.
2 PGS. AD 50-278/75-57 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 12, 1975, DOCKET 50-278, TYPE--BWR, NRC--G.E., AE--DECMTEL

CAUSE - UNKNOWN. DURING A SURVEILLANCE TEST WITH THE UNIT AT 558 POWER, THE REACTOR CORE ISOLATION COOLING INBOARD ISOLATION VALVE WAS CLOSED INTENTIONALLY BY AN ISOLATION SCRAM BUT COULD NOT BE REOPENED FOLLOWING RESET OF THE ISOLATION. THE VALVE IS INACCESSIBLE DURING OPERATION. FOLLOWING A SCRAM NOT ASSOCIATED WITH THIS OCCURRENCE, THE VALVE WAS RETURNED. NO ABNORMALITIES WERE DISCOVERED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CONTAINMENT ISOLATION • COOLING • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT

106320
TURUS INSTRUMENT NITROGEN VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PA.
2 PGS. AD 50-278/75-50 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 12, 1975, DOCKET 50-278, TYPE--BWR, NRC--G.E., AE--DECMTEL

CAUSE - DEFECTIVE SOLENOID VALVE SEAT. DURING A SURVEILLANCE TEST WITH THE UNIT IN HOT STANDBY, A TURUS INSTRUMENT NITROGEN ISOLATION VALVE FAILED TO CLOSE. THE SOLENOID VALVE WHICH ACTUATES THIS VALVE FAILED TO OPERATE CORRECTLY BECAUSE OF A DEFECTIVE VALVE SEAT. THE FAULTY SOLENOID VALVE WAS REPLACED AND THE ISOLATION VALVE WAS STRIKED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CONTAINMENT ISOLATION • CONTAINMENT • INSTRUMENTS, MISC. • PNEUMATIC SYSTEM • NITROGEN • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • SOLENOID

106321
WYNELL FLOOD DRAIN ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PA.
2 PGS. AD 50-278/75-55 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 12, 1975, DOCKET 50-278, TYPE--BWR, NRC--G.E., AE--DECMTEL

100321 CONTINUED

CAUSE - DEFECTIVE SEAL IN SOLENOID VALVE. DURING TESTING WITH THE UNIT IN HOT STANDBY, THE JEFFREY PULM DRAIN DRAINAGE ISOLATION VALVE FAILED TO CLOSE WHEN GIVEN AN ISOLATION SIGNAL. A DEFECTIVE SEAT OF A SOLENOID VALVE PREVENTED PROPER OPERATION. THE SOLENOID VALVE WAS REPLACED AND THE ISOLATION VALVE WAS TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (CONT) • VALVES • CONTAINMENT ISOLATION • CONTAINMENT • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • SOLENOID

100322

INSTRUMENT NITROGEN COMPRESSOR VALVE FAILS TO CLOSE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AS 50-270/75-59 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 12, 1975, DOCKET 50-270, TYPE--BWR, NRC--... AE--DCMTEL

CAUSE - UNKNOWN. DURING TESTING WITH THE UNIT IN HOT STANDBY, AN INSTRUMENT NITROGEN COMPRESSOR VALVE FAILED TO CLOSE ON SIGNAL. NO APPARENT PROBLEM WAS FOUND IN THE ACTUATING SOLENOID. AFTER 30 SUCCESSFUL TESTS, THE VALVE FAILED AGAIN. THE ACTUATING SOLENOID VALVE WAS THEN REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (CONT) • VALVES • PNEUMATIC SYSTEM • NITROGEN • TEST, SYSTEM OPERABILITY • SOLENOID • FAILURE, EQUIPMENT • INSTRUMENTS, MISC.

100317

INSTRUMENT NITROGEN COMPRESSOR VALVE FAILS TO CLOSE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AS 50-270/75-59 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 15, 1975, DOCKET 50-270, TYPE--BWR, NRC--... AE--DCMTEL

CAUSE - DEFECTIVE SOLENOID VALVE. DURING TESTING WITH THE REACTOR AT 50% POWER, THE INSTRUMENT NITROGEN COMPRESSOR VALVE FAILED TO CLOSE. THE CAUSE IN THE ACTUATING SOLENOID VALVE FAILED TO MOVE TO THE DE-ENERGIZED POSITION. SUBSEQUENT CYCLING OF THE VALVE CAUSED IT TO OPERATE CORRECTLY. THE ACTUATING SOLENOID WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (CONT) • VALVES • PNEUMATIC SYSTEM • NITROGEN • INSTRUMENTS, MISC. • FAILURE, EQUIPMENT • SOLENOID • TEST, SYSTEM OPERABILITY

100005

TORUS WATER CLEANUP SYSTEM VALVE FAILS TO CLOSE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AS 50-270/75-60 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 24, 1975, DOCKET 50-270, TYPE--BWR, NRC--... AE--DCMTEL

CAUSE - INTERMITTENT HIGH CONTACT RESISTANCE. DURING ROUTINE OPERATION WITH THE UNIT SHUTDOWN, A TORUS WATER CLEANUP PUMP SUCTION VALVE FAILED TO CLOSE COMPLETELY. THE CLOSE TORQUE SWITCH CONTACTS INTERMITTENTLY HAD HIGH RESISTANCE. THE TORQUE SWITCH WAS REPLACED AND THE VALVE CLOSED SUCCESSFULLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (CONT) • VALVES • TORUS • WATER • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • VALVE OPERATORS

100050

LEVEL SWITCH FLOW INOPERABLE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PA.

2 PGS. AS 75-62 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 1, 1975, DOCKET 50-270, TYPE--BWR, NRC--... AE--DCMTEL

CAUSE - BROKEN DISPLACER SUSPENSION CABLE. DURING A TEST WHILE THE UNIT WAS IN COLD SHUTDOWN, THE LEVEL SWITCH FAILED TO OPERATE THE FWD HEAD SPRAY STAY FILL VENT VALVE. THE BRAIDED STEEL CABLE USED TO MOVE THE DISPLACERS IN THE SWITCH HAD WORN THROUGH. THE CABLE WAS REPLACED AND THE SWITCH ALIGNED FOR PROPER PICKUP.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (CONT) • DISPLACERS, LEVEL • INSTRUMENT, SWITCH • FAILURE, INSTRUMENT • FAILURE, COMPONENT • TEST, SYSTEM OPERABILITY • SHUTDOWN COOLING SYSTEM

106001
RELIEF VALVE BELLOWS PRESSURE SWITCHES PROOF IMPROPER AT PEACH BUTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AD 75-65 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 1, 1975, DOCKET 50-270, TYPE--BWR, MFG--
U.S., AE--BENTEL

CAUSE - ELECTRICAL CONNECTION FAILURE. DURING TESTING WHILE THE UNIT WAS IN COLD SHUTDOWN, 2
RELIEF VALVE BELLOWS PRESSURE SWITCHES WERE FOUND TO BE IMPROPER. THE CAUSE WAS FAILURE OF
ELECTRICAL CONNECTIONS. THE CONNECTIONS WERE REPAIRED AND RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PEACH BUTTOM 3 (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM
OPERABILITY + FAILURE, INSTRUMENT + REPAIRS AND CONNECTIONS + VALVES + SEAL + PRESSURE RELIEF

106995
SET POINT DRIFT IN HIGH FLOW SWITCH AT PEACH BUTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AD 75-66 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 3, 1975, DOCKET 50-270, TYPE--BWR, MFG--
U.S., AE--BENTEL

CAUSE - INSTRUMENT DRIFT. DURING A ROUTINE SURVEILLANCE TEST WITH THE REACTOR AT 55% POWER, A
MAIN STEAM LINE HIGH FLOW SWITCH TRIPPED AT A VALUE SLIGHTLY HIGHER THAN THE LIMIT. THE
DIFFERENTIAL PRESSURE SWITCH WAS RESET. IT FUNCTIONED CORRECTLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PEACH BUTTOM 3 (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, FLOW + TEST, SYSTEM OPERABILITY
+ FAILURE, INSTRUMENT + SET POINT + DRIFT + REACTOR SAFETY SYSTEM

107217
DRYWELL RADIATION MONITOR IMPROPER AT PEACH BUTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AD 50-270-75-65 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 13, 1975, DOCKET 50-270, TYPE--BWR,
MFG--U.S., AE--BENTEL

CAUSE - PLUGGED CONTROL VALVE. WHILE OPERATING AT 55% POWER, A LOW SAMPLING SYSTEM EXHAUST PUMP
SUCTION PRESSURE ALARM WAS RECEIVED. FLOW TO THE DRYWELL RADIATION MONITORING SYSTEM WAS REDUCED
DUE TO BLOCKAGE AT A PRESSURE CONTROL VALVE. THE VALVE WAS PARTLY CLOGGED WITH RUST PARTICLES
FROM THE CARBON STEEL SAMPLE INLET PIPING. THE PRESSURE CONTROL VALVE WAS CLEANED AND RETURNED
TO SERVICE. THE CARBON STEEL PIPING WILL BE REPLACED WITH STAINLESS STEEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PEACH BUTTOM 3 (BWR) + RADIATION MONITORS + FLOW BLOCKAGE + CONTAINMENT + VALVES + CONTROL + CRUD

107216
RCIC STEAM SUPPLY VALVE FAILS TO CLOSE AT PEACH BUTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AD 50-270-75-66 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 16, 1975, DOCKET 50-270, TYPE--BWR,
MFG--U.S., AE--BENTEL

CAUSE - NOT IDENTIFIED. DURING A TEST WITH THE REACTOR AT 57% POWER, THE RCIC INBOARD STEAM
SUPPLY ISOLATION VALVE FAILED TO CLOSE FROM THE CONTROL SWITCH. IT WAS CLOSED BY MANUALLY
ACTUATING THE CLOSE CONTACTOR AT THE MOTOR CONTROL CENTER. THE VALVE WAS THEN SUCCESSFULLY
STROKED FROM THE CONTROL SWITCH. FAILURE COULD NOT BE REPEATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PEACH BUTTOM 3 (BWR) + CONTAINMENT ISOLATION + RCIC + TEST, SYSTEM OPERABILITY + BREAKER + VALVES

107690
O-RING GASKET LEAKS ON DRYWELL PURGE VALVE AT PEACH BUTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AD 50-270-75-69 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 31, 1975, DOCKET 50-270, TYPE--BWR,
MFG--U.S., AE--BENTEL

CAUSE - INCORRECT TEST LINE USED. WHILE PREPARING FOR A LOCAL LEAK RATE TEST ON THE INBOARD
FLANGE OF THE DRYWELL PURGE SUPPLY WATER ISOLATION VALVE WITH THE REACTOR OPERATING AT 57% POWER,
CONTAINMENT ATMOSPHERE WAS FOUND TO LEAK OUT OF THE TEST CONNECTION. THE INNER O-RING WAS
SUSPECTED TO BE LEAKING. INVESTIGATION SHOWED DIRECTLY WITH THE VALVE. IT WAS NOT THE ONE FOR
SEAL TESTING. THE CONNECTION WAS CAPPED AND LEAK TESTED. THE SEAL WILL BE TESTED SOON.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM

107698 PEACH BOTTOM 3
CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • SEAL • LEAK • VALVES • CONTAINMENT PURGE • CONTAINMENT • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • TESTING

107699
INERTING SYSTEM SUPPLY ISOLATION VALVE LEAKS EXCESSIVELY AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AU 50-278-75-06 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 31, 1975, DOCKET 50-278, TYPE--BWR,
NRC--JEE, AE--DECHTEL

CAUSE - INSUFFICIENT CLOSING SPRING FORCE. DURING LOCAL LEAK RATE TESTING WITH THE REACTOR AT 55% POWER, THE TORUS MAKEUP SUPPLY ISOLATION VALVE WAS FOUND TO LEAK IN EXCESS OF 2000 CC/MIN. THE CLOSING SPRING OF THE VALVE WAS NOT PROVIDING SUFFICIENT FORCE TO FULLY CLOSE THE VALVE. THE CLOSING SPRING WAS ADJUSTED AND THE VALVE RETESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • LEAK RATE • VALVES • CONTAINMENT ISOLATION • CONTAINMENT PURGE • TORUS • NITROGEN • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • FAILURE, MAINTENANCE ERROR • TEST, LEAK RATE

107700
INERTING SYSTEM SUPPLY CHECK VALVE LEAKS EXCESSIVELY AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AU 50-278-75-07 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, OCT. 31, 1975, DOCKET 50-278, TYPE--BWR,
NRC--JEE, AE--DECHTEL

CAUSE - VALVE PISTON STICKING. DURING LOCAL LEAK RATE TESTING OF THE TORUS MAKE-UP SUPPLY CHECK VALVE, THE VALVE WAS FOUND TO LEAK IN EXCESS OF 2000 CC/MIN. THE VALVE PISTON WAS FOUND TO HANG UP DURING OPERATION, PREVENTING THE VALVE FROM SEATING PROPERLY. THE VALVE WAS REPAIRED AND RETESTED SATISFACTORILY. THE UNIT WAS OPERATING AT 55% POWER AT THE TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • LEAK RATE • VALVE, CHECK • CONTAINMENT PURGE • TEST, SYSTEM OPERABILITY • TORUS • NITROGEN • FAILURE, EQUIPMENT • TEST, LEAK RATE

107697
DRYWELL PURGE SUPPLY VALVE OPENS WITHOUT MANUAL INITIATION AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AU 50-278-75-76 TO NRC OFFICE OF NUCLEAR REACTOR REGULATIONS, NOV. 3, 1975, DOCKET 50-278, TYPE--BWR,
NRC--JEE, AE--DECHTEL

CAUSE - IMPROPER PIPING. WHILE OPERATING AT 57% POWER, THE DRYWELL PURGE SUPPLY ISOLATION VALVE APPARENTLY OPERATED WITHOUT MANUAL INITIATION. AN AIR PIPING MODIFICATION MADE TO SIMILAR VALVES TO CORRECT A SIMILAR PROBLEM IN EARLY 1974 WAS IMPLEMENTED INCORRECTLY ON THIS VALVE. INSPECTION FOUND 2 TORUS EXHAUST TO STANDBY GAS TREATMENT VALVES THAT WERE ALSO PIPED INCORRECTLY. PIPING ON ALL 3 VALVES WAS CORRECTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CONTAINMENT PURGE • FAILURE, INSTALLATION ERROR • PIPES AND PIPE FITTINGS • CONTAINMENT • PNEUMATIC SYSTEM

107673
OXYGEN ANALYZER VALVE FAILS TO CLOSE AT PEACH BOTTOM 3
PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA.
2 PGS. AU 50-278-75-71 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 7, 1975, DOCKET 50-278, TYPE--BWR,
NRC--JEE, AE--DECHTEL

CAUSE - JIRT ON THE SEAT. DURING TESTING WITH THE REACTOR AT 56% POWER, THE DRYWELL OXYGEN ANALYZER SAMPLE SYSTEM OUTER ISOLATION VALVE FAILED TO FULLY CLOSE. JIRT WAS FOUND ON THE SEAT AND IN THE BODY OF THE VALVE PREVENTING TIGHT SEATING. THE VALVE INTERNALS AND SEAT WERE CLEANED. THE DISC, PISTON RINGS, AND BONNET O-RING WERE REPLACED. THE VALVE THEN OPERATED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • SAMPLING • CONTAINMENT ATMOSPHERE, INERT • TEST, SYSTEM OPERABILITY • CRUD • CONTAINMENT ISOLATION

100550

104550 CONTINUED

CORE SPRAY TEST VALVE FAILS TO CLOSE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA

2 PGS. AU 50-278-75-72 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 5, 1975, DCKET 50-278, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - BROKEN WIRE IN TORNAL SWITCH. DURING TESTING IN LOOP A CORE SPRAY PUMP WHILE THE REACTOR WAS OPERATING AT 578 POWER, THE FULL FLOW BYPASS TO TORNAL VALVE FAILED TO CLOSE FULLY. A WIRE ON THE CLOSING TORNAL SWITCH IN THE VALVE OPERATOR HAD BROKEN. THE BROKEN WIRE WAS REPAIRED AND PROPER VALVE OPERATION VERIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • VALVES • CORE SPRAY • BYPASS • TESTING • TEST. SYSTEM OPERABILITY • CABLES AND CONNECTIONS • INSTRUMENT. SWITCH • VALVE OPERATIONS

104793

HPCI STEAM SUPPLY MAIN SYSTEM FAILS TO DRAIN PROPERLY AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA

2 PGS. AU 50-278-75-73 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 17, 1975, DCKET 50-278, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INTERNAL FRICTION AND DEFECTIVE SWITCH. WHILE OPERATING AT 578 POWER, AN INVESTIGATION, INITIATED WHEN MOVEMENT OF THE HPCI STEAM SUPPLY LINE WAS NOTED, REVEALED THAT THE LINE DRAIN PIV WAS NOT DRAINING THROUGH THE OUTLET STEAM TRAP WHEN THE DRAIN POT HIGH LEVEL SWITCH OPENED THE TRAP BYPASS VALVE. WATER HAD ACCUMULATED IN THE STEAM SUPPLY LINE. FRICTION IN THE TRAP INTERNALS CAUSED THE TRAP TO FAIL TO DRAIN. THE LEVEL SWITCH HAD FAILED TO TRIP. NEW INTERNALS WERE INSTALLED IN THE TRAP AND THE TRAP RETURNED TO SERVICE. THE SWITCH WILL BE REPAIRED DURING THE NEXT SCHEDULED OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR. PUMPS • PIPES AND PIPE FITTINGS • STEAM • HPCI • FAILURE, EQUIPMENT • INSTRUMENT. SWITCH • SENSORS, LEVEL • FRICTION • PEACH BOTTOM 3 (BWR)

104881

MAIN STEAM LINE RADIATION MONITOR FAILS AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA

2 PGS. AU 50-278-75-75 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 19, 1975, DCKET 50-278, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - TEST RELAY FAILED TO PICK UP. A MAIN STEAM LINE RADIATION MONITOR FAILED DOWNSCALE WHILE THE UNIT WAS OPERATING AT 568 POWER. THE TEST RELAY HAD FAILED TO PICK UP AFTER TESTING, RESULTING IN LOSS OF SIGNAL TO THE MONITOR. THE RELAY WAS REPLACED IMMEDIATELY AND IT WAS VERIFIED THAT THE MONITOR WAS AGAIN RECEIVING THE DETECTION SIGNAL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • RADIATION MONITORS • MAIN COOLING SYSTEM • FAILURE, INSTRUMENT • DELAYS • TESTING

104882

DRYWELL RADIATION MONITOR FOUND INOPERATIVE AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA

2 PGS. AU 50-278-75-76 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 19, 1975, DCKET 50-278, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - RUST BLOCKING FLOW CONTROL VALVE. DURING AN INSPECTION WHILE OPERATING AT 558 POWER, IT WAS OBSERVED THAT NO FLOW WAS PASSING THROUGH THE DRYWELL RADIATION MONITORING SYSTEM. THE FLOW BLOCKAGE WAS CAUSED BY RUST AT THE PRESSURE CONTROL VALVE. RUST PARTICLES WERE REMOVED FROM THE VALVE AND THE SYSTEM RETURNED TO SATISFACTORY OPERATION. THE CARBON STEEL SAMPLE PIPING IS SCHEDULED TO BE REPLACED WITH STAINLESS STEEL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BOTTOM 3 (BWR) • RADIATION MONITORS • CONTAINMENT • FAILURE, INSTRUMENT • CRUD • VALVES • FAILURE, DESIGN ERROR • MATERIAL • CORROSION

104948

BWR INJECTION VALVES FOUND TO BE LEAKING AT PEACH BOTTOM 3

PHILADELPHIA ELECTRIC CO., PHILADELPHIA, PA

2 PGS. LTR W/AD 50-278-75-76 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, DEC. 30, 1975, DCKET 50-278, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - TO BE DETERMINED. IN PREPARATION FOR LPM VIBRATION FIX OUTAGE, PRELIMINARY LOCAL LEAK RATE TESTS WERE PERFORMED WHILE OPERATING AT 568 POWER. BOTH RHM OUTBOARD INJECTION VALVES WERE

100648 PLUTINGEJO

FOUND TO BE LEAKING. THE INBOARD VALVES WERE VERIFIED AS BEING LEAK TIGHT. THE OUTBOARD VALVES ARE SUBJECT TO THROTTLING OPERATION DURING SODIUM COOLING OPERATION. THE CAUSE OF FAILURE WILL BE DETERMINED AND REPAIRS MADE DURING THE FORTHCOMING OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PEACH BUTCH • LEAK • LEAK RATE • VALVES • SODIUM COOLING SYSTEM • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • CONTAINMENT ISOLATION

100649

HOLE FOR LPM IN HOUSING DRILLED IMPROPERLY IN REACTOR VESSEL AT PERRY 1
CLEVELAND ELECTRIC ILLUMINATION CO., CLEVELAND, OHIO
1 PAGE, LETTER TO NRC OFFICE OF I & E, NOV. 5, 1975, DCKET 50-443, TYPE--BWR, MFG--G.E., AE--GILBERT ASSOC.

CAUSE - ERROR IN TRANSPERING COORDINATES. A HOLE FOR AN LPM IN-CORE HOUSING (2 INCH DIAMETER) WAS DRILLED AT INCORRECT COORDINATES IN THE SITION HEAD OF REACTOR VESSEL HEAD 1 BECAUSE OF AN ERROR IN TRANSPERING COORDINATES FROM A DRAWING TO AN OPERATOR WORK SHEET. THE PROPOSED FIX IS TO INSTALL A PLUG IN THE SAME MANNER AS THE LPM IN-CORE HOUSINGS ARE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PERRY 1 (BWR) • CONSTRUCTION • OPERATIONS, PRIMARY CONTAINMENT • FAILURE, FABRICATION ERROR • FABRICATION FACILITY • INSTRUMENT, IN CORE • PRESSURE VESSELS

100654

SEAWATER LEAK FROM SALT SERVICE WATER SYSTEM HEAT EXCHANGER AT PILGRIM
BOSTON EDISON COMPANY, MASSACHUSETTS
1 PAGE, LETTER TO DIRECTOR, DIRECTORATE OF LICENSING (AEC), JANUARY 6, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - ELECTROLYSIS FROM DISSIMILAR METALS. DURING AN INSPECTION, A SMALL SEAWATER LEAK WAS OBSERVED TO BE COMING FROM THE INSPECTION FLANGE OF A SALT SERVICE WATER SYSTEM LOOP TO REACTOR OUTGOING CLOSED COOLING WATER SYSTEM HEAT EXCHANGER. THE SALT WATER SIDE OF THE HEAT EXCHANGER WAS A COPPER/NICKEL ALLOY. THE FLANGE WAS CARBON STEEL. IT IS POSTULATED THAT ELECTROLYSIS FROM THE DISSIMILAR METALS IN SALT WATER COMBINED WITH CORROSION CAUSES A PIN HOLE TO OCCUR. ALL 4 INSPECTION FLANGES WERE REPLACED. A RUBBER GASKET WAS PLACED ON THE INTERIOR SIDE OF THE FLANGE TO PROTECT THE CARBON STEEL FROM THE SALT WATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • CORROSION • FLANGE • AUXILIARY COOLING • PILGRIM (BWR) • LEAK • AUXILIARY COOLING SYSTEM • HEAT EXCHANGERS

100661

SET POINT DRIFT IN PRESSURE SWITCHES AT PILGRIM
BOSTON EDISON COMPANY
2 PAGES, LETTER WITH LICENSE EVENT REPORT 75/1 TO AEC DIRECTORATE OF LICENSING, JANUARY 8, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE BWR SYSTEM (LPCI MODEL) PRESSURE SWITCHES, 2 SWITCHES WERE FOUND TO HAVE SET POINTS THAT EXCEEDED LIMITS BY ABOUT 7 PSI. THE INSTRUMENTS WERE IMMEDIATELY RECALIBRATED. THE CAUSE WAS MINOR INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • PILGRIM (BWR) • SET POINT • DRIFT • SENSORS, PRESSURE • LPCI

100666

SET POINT DRIFT IN PRESSURE SWITCHES AT PILGRIM
BOSTON EDISON COMPANY
1 PAGE, LETTER TO AEC DIRECTORATE OF LICENSING, JANUARY 9, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE PLIS SYSTEM, 2 PRESSURE SWITCHES WERE FOUND WITH SET POINTS WHICH EXCEEDED THE LIMITS BY ABOUT 7 PSI. THESE SWITCHES PROVIDE A CLOSE SIGNAL TO THE MSIVS ON LOW PRESSURE IN THE MAIN STEAM LINE. THE SWITCHES WERE IMMEDIATELY RECALIBRATED. THE CAUSE WAS MINOR INSTRUMENT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT INTEGRITY • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • PILGRIM (BWR) • SET POINT • DRIFT • SENSORS, PRESSURE

093903
 AIRBORNE EFFLUENTS EXCEED LIMITS AT PILGRIM
 BOSTON Edison COMPANY, MASSACHUSETTS
 8 PAGES, LETTER WITH LICENSEE EVENT REPORT 75/6 TO AEC DIRECTORATE OF LICENSING, JANUARY 22, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - HIGH IODINE IN THE COOLANT. AN ANALYSIS OF CHARCOAL AND PARTICULATE FILTERS FROM THE REACTOR BUILDING VENT AND THE MAIN STACK FOR A ONE WEEK PERIOD REVEALED THE RELEASE RATES OF HALOGENS AND PARTICULATES TO THE ENVIRONMENT EXCEEDED TECH SPEC LIMITS BY 13%. THE CAUSE WAS THE RELEASE OF IODINE FROM THE SYSTEM DURING A MAINTENANCE OUTAGE. HIGH IODINE ACTIVITY IN THE REACTOR COOLANT WAS RESULTED FROM CLADDING DETRIORATION OF A VERY SMALL AMOUNT OF FUEL. DEPRESSURIZATION DURING THE SHUTDOWN RELEASED THE IODINE. RELEASE RATE LIMITS ARE VERY LOW. THE LIMIT FOR AIR LEAVING THE STACK IS 106 μ THAT FOR A WORKER WITH NO RESPIRATORY PROTECTION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

AIRBORNE RELEASE + EFFLUENT + IODINE + MAINTENANCE AND REPAIR + RELEASE RATE + STACK + FAILURE, CLADDING + PILGRIM (BWR)

093923
 RELEASE RATES OF HALOGENS AND PARTICULATES EXCEED LIMIT AT PILGRIM
 BOSTON Edison COMPANY, MASSACHUSETTS
 5 PAGES, LETTER WITH EVENT REPORT 75/5 TO DIVISION OF REACTOR LICENSING, FEBRUARY 6, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - HIGH IODINE ACTIVITY. ANALYSIS OF CHARCOAL AND PARTICULATE FILTERS FROM THE REACTOR BUILDING VENT AND THE MAIN STACK REVEALED THAT THE RELEASE RATES OF HALOGENS AND PARTICULATES EXCEEDED LIMITS FOR ONE WEEK. IODINE SPIKING HAS BEEN OBSERVED IN THE REACTOR COOLANT DURING STARTUP AND SHUTDOWNS AFFECTING FUELING BUILDING EMISSIONS. THE WASTE SYSTEM PRODUCED MORE THAN HALF OF THE TOTAL EMISSIONS. A CHARCOAL FILTER HAS BEEN INSTALLED IN THE WASTE SYSTEM TANK VENTILATION DUCTS AND VENT PIPES. THE RELEASE LIMIT IN STACK DISCHARGE IS ABOUT 1/10 THE AEC LIMIT FOR BREATHABLE AIR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

AIRBORNE RELEASE + EFFLUENT + IODINE + RELEASE RATE + VENTILATION SYSTEM + WASTE TREATMENT + MODIFICATION + FAILURE, DESIGN ERROR + PILGRIM (BWR)

100849
 CLOSURE TIME OF MSIV TOO FAST AT PILGRIM
 BOSTON Edison COMPANY, MASS.
 2 PAGES, LETTER WITH LE REPORT 75/6 TO NRC DIRECTOR, INSPECTION AND ENFORCEMENT, REGION 1, MARCH 10, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - CHANGES IN HYDRAULIC OPERATION. DURING TESTING OF THE MAIN STEAM ISOLATION VALVES, ONE WAS OBSERVED TO HAVE A CLOSURE TIME OF 2.0 SECONDS. THE VALVE WAS CLOSED UNTIL THE CLOSURE TIME WAS PROPERLY ADJUSTED TO BE WITHIN THE 3 TO 5 SECOND LIMIT. THE CAUSE WAS CHANGED IN THE CHARACTERISTICS OF THE MSIV HYDRAULIC OPERATOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT ISOLATION + STEAM + RESPONSE TIME + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + PILGRIM (BWR) + MAIN COOLING SYSTEM + VALVE OPERATORS + VALVES

100900
 RHM VALVE FAILS TO OPEN AT PILGRIM
 BOSTON Edison COMPANY, MASS.
 2 PAGES, LETTER WITH LE REPORT 75/7 TO NRC DIRECTOR, INSPECTION AND ENFORCEMENT, REGION 1, MARCH 10, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

CAUSE - BROKEN GEAR. A RHM MOTOR OPERATED VALVE DID NOT OPEN WHEN GIVEN A SIGNAL FROM THE CONTROL ROOM. A GEAR BROKE IN THE DRIVE TRAIN WHEN THE VALVE ATTEMPTED TO OPEN. AFTER THE MOTOR OPERATOR GEAR WAS REPLACED IN KIND, THE VALVE TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT + FAILURE, EQUIPMENT + PILGRIM (BWR) + SHUTDOWN COOLING SYSTEM + VALVE OPERATORS + VALVES

102132
 GURE SPRAY PUMP MOTOR FAILS AT PILGRIM
 BOSTON Edison COMPANY, MASS.
 2 PAGES, LETTER WITH LE REPORT 75/5 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, APRIL 9, 1975, DCKET 50-293, TYPE--BWR, MFG--G.E., AE--BECHTEL

102132 CONTINUED

CAUSE - INSULATION BREAKDOWN. DURING A TEST, COKE SPRAY PUMP MOTOR A TRIPPED WHEN THE CONTAINMENT SWITCH WAS TURNED TO START. A FAULT CONDITION RESULTED FROM INSULATION BREAKDOWN WITHIN THE COIL STATOR, WHICH RESULTED FROM A MANUFACTURING DEFECT. NO MECHANICAL DEFECTS WERE FOUND. SINCE AMR LOOP B WAS OUT OF SERVICE FOR MAINTENANCE, AN EMERGENCY SHUTDOWN WAS INITIATED UNTIL LOOP B WAS RETURNED TO SERVICE 13 HOURS LATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • PHOTONS • COKE SPRAY • PUMPS • FAILURE, FABRICATION ERROR • TEST, SYSTEM OPERABILITY • REACTOR SHUTDOWN • INSULATION • CABLES AND CONNECTIONS

102133

REACTOR SHUTDOWN TIME TOO FAST AT PILGRIM

BOSTON Edison COMPANY, MASS.

2 PAGES, LETTER WITH UU REPORT 75/6 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, APRIL 9, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - DASHPOT OIL LEVEL LOW. DURING TESTING OF THE MAIN STEAM ISOLATION VALVES, ONE VALVE CLOSED IN 1.5 SEC WHICH IS OUT OF THE 3 TO 5 SEC LIMIT BAND. THE HYDRAULIC DASHPOT OIL RESERVOIR LEVEL WAS LOW. THE CLOSURE TIME WAS ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • RESPONSE TIME • VALVES • CONTAINMENT ISOLATION • MAIN COOLING SYSTEM • STEAM • TEST, SYSTEM OPERABILITY • HYDRAULIC SYSTEM • FAILURE, MAINTENANCE ERROR

102134

SET POINT DRIFT IN TEMPERATURE SWITCH AT PILGRIM

BOSTON Edison COMPANY, MASS.

2 PAGES, LETTER WITH UU REPORT 75/6 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, APRIL 9, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING OF THE MPCI EXHAUST DUCT HIGH TEMPERATURE SWITCHES, ONE SWITCH ACTUATED AT 181 F WHICH IS OUTSIDE OF THE 190-200 F LIMIT RANGE. THE CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS REPLACED WITH ONE CALIBRATED TO ACTUATE AT 194 F.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • PILGRIM (BWR) • SET POINT • DRIFT • SENSORS, TEMPERATURE • MPCI

102135

ARM VALVE FAILS TO CLOSE AT PILGRIM

BOSTON Edison COMPANY, MASS.

2 PAGES, LETTER WITH UU REPORT 75/6 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, APRIL 9, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - TORQUE SWITCH MALFUNCTION. DURING TESTING, AN ARM MOTOR OPERATED VALVE FAILED TO CLOSE AUTOMATICALLY ON SIGNAL DUE TO THE MALFUNCTION OF THE TORQUE SWITCH. THE TORQUE SWITCH WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • INSTRUMENT, SWITCH • TEST, SYSTEM OPERABILITY • PILGRIM (BWR) • SHUTDOWN COOLING SYSTEM • VALVES

102136

ACTION TAKEN TO CONTROL RELEASE OF AIRBORNE EFFLUENTS AT PILGRIM

BOSTON Edison COMPANY, MASS.

2 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, MAY 2, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - MINOR STEAM LEAKS. BASED ON OBSERVATIONS OF AN INCREASING TREND IN THE DAILY GASEOUS RELEASE RATE OF HALOGENS AND PARTICULATES WITH HALF LIVES GREATER THAN 8 DAYS, THE UNIT WAS SHUTDOWN TO LOCATE AND REPAIR STEAM LEAKS IN THE MAIN CONDENSER COMPARTMENT AND OTHER MINOR MAINTENANCE. NUMEROUS PROCEDURAL INNOVATIONS WERE IMPLEMENTED IN AN ATTEMPT TO REDUCE REACTOR COOLANT ACTIVITY. ADDITIONAL CHARCOAL FILTERS WERE INSTALLED IN VARIOUS EXHAUST VENTILATION DUCTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • AIRBORNE RELEASE • MAINTENANCE AND REPAIR • LEAK • PROCEDURES AND MANUALS • MODIFICATION • RELEASE RATE

103041

MPCI TURBINE STOP VALVE FAILS AT PILGRIM
BOSTON EDISON COMPANY, MASS.

2 PAGES, LETTER WITH UMR 75-7 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 7, 1975, DCKET 50-293, TYPE--
DNR, NRC--G.E., AE--BECHTEL

CAUSE - COUPLING THREADS STRIPPED. DURING A ROUTINE INSPECTION, THE MPCI TURBINE STOP VALVE WAS
OBSERVED TO BE OPEN AND THE VALVE DISC STEM SEPARATED FROM THE VALVE OPERATOR. THE THREADS IN
THE OPERATOR TO DISC STEM COUPLING WERE STRIPPED. THE VALVE WAS REPAIRED. THE REACTOR WAS AT
HOT POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PILGRIM (DNR) * VALVES * MPCI * MAINTENANCE * FACILITATION * FAILURE, COMPONENT

103042

TEMPERATURE RISE ACROSS CONDENSER EXCEEDS LIMIT AT PILGRIM
BOSTON EDISON COMPANY, MASS.

2 PAGES, LETTER WITH UMR 75-8 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 7, 1975, DCKET 50-293, TYPE--
DNR, NRC--G.E., AE--BECHTEL

CAUSE - PROCEDURAL DEFICIENCY. DURING A MAJOR PERIOD, THE TEMPERATURE OF THE MAIN CONDENSER
DISCHARGE SEA WATER EXCEEDED THE OPERATIONAL OBJECTIVE. MAXIMUM TEMPERATURE WAS 78.9 F. THE
TEMPERATURE RISE ACROSS THE CONDENSER EXCEEDED 32 F FOR 1.5 HOURS REACHING A MAXIMUM OF 34 F.
ONE MAIN CONDENSER SECTION AND ONE SEA WATER PUMP WERE OUT OF SERVICE TO LOCATE AND REPAIR A
CONDENSER TUBE LEAK. THIS CAUSED THE HIGH TEMPERATURE. THE REACTOR WAS OPERATING AT HOT POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PILGRIM (DNR) * TEMPERATURE * CONDENSER COOLING SYSTEM * TEMPERATURE GRADIENT * CONDENSER * FAILURE,
ADMINISTRATIVE CONTROL * PROCEDURES AND MANUALS * MAINTENANCE AND REPAIR * LEAK

103039

NOTICE OF PROPOSED IMPOSITION OF CIVIL PENALTIES AT PILGRIM
NUCLEAR REGULATION COMMISSION, WASHINGTON

7 PAGES, LETTER WITH ATTACH. TO BOSTON EDISON COMPANY, MAY 20, 1975, DCKET 50-293, TYPE--DNR, NRC--G.E., AE--
BECHTEL

CAUSE - INSERVICE INSPECTION DEFICIENCIES. AN INVESTIGATION SHOWED THAT THE INDIVIDUAL
RESPONSIBLE FOR PERFORMING THE ULTRASONIC EXAMINATION WAS NOT ALWAYS PRESENT IN THE CONTAINMENT
VESSEL WHEN THESE ACTIVITIES WERE REPORTEDLY PERFORMED. THE QA PROGRAM WAS NOT ADEQUATE. NRC
PROPOSES TO IMPOSE CIVIL PENALTIES OF \$12,000. IN ADDITION, THE IN-SERVICE INSPECTION PERFORMED
DURING THIS PERIOD CANNOT BE CONSIDERED ACCEPTABLE IN SATISFYING TSCM SPECS RELATING TO IN-
SERVICE INSPECTIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PILGRIM (DNR) * ADMINISTRATIVE CONTROL * INSERVICE INSPECTION * QUALITY ASSURANCE * LOGISTICS * ECONOMICS
* PRESSURE VESSELS * FAILURE, ADMINISTRATIVE CONTROL * TEST, NONDESTRUCTIVE

103110

GASEOUS EFFLUENT RELEASE RATE EXCEEDS LIMITS AT PILGRIM
BOSTON EDISON COMPANY, MASS.

2 PAGES, LETTER WITH LE 75-14 TO NRC DIV. OF REACTOR LICENSING, MAY 29, 1975, DCKET 50-293, TYPE--DNR, NRC--
G.E., AE--BECHTEL

CAUSE - WASTEWATER PROCESS BUILDING. ANALYSIS OF THE CHARCOAL AND PARTICULATE FILTERS FROM THE
REACTOR BUILDING VENT AND THE PAIN STACK FOR ONE WEEK REVEALED THE RELEASE RATES OF HALOGENS AND
PARTICULATES EXCEEDED LIMITS BY 23%. THE MAIN CONTRIBUTOR WAS THE WASTEWATER PROCESS BUILDING VENT
SYSTEM. ABOUT 10,000 CF WAS RELEASED. REACTOR POWER WAS REDUCED FROM 738 TO 508 DURING THE WEEK.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PILGRIM (DNR) * RADIOACTIVE RELEASE * WASTE TREATMENT * EFFLUENT * POWER DERATING * VENTILATION SYSTEM * STACK
* MONITORING SYSTEM, RADIOLOGICAL

103545

MPCI VALVE FAILS TO OPEN AT PILGRIM
BOSTON EDISON COMPANY, MASS.

2 PAGES, LETTER WITH UMR 75-9 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 7, 1975, DCKET 50-293, TYPE--
DNR, NRC--G.E., AE--BECHTEL

CAUSE - MOTOR OVERLOADED. A MPCI MOTOR OPERATED VALVE DID NOT OPEN WHEN GIVEN A SIGNAL FROM THE
CONTROL ROOM. THE VALVE MOTOR OVERLOADED WHILE ATTEMPTING TO OPEN THE VALVE. THE VALVE WAS

103545

REPAIRED ON THE SAME DAY. THE REACTOR WAS AT 60% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • VALVES • NPCL • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • VALVE OPERATORS

103546

REACTOR BUILDING VENT RADATION MONITOR INOPERABLE AT PILGRIM
DUSTON EUSON COMPANY, MASS.

2 PAGES, LETTER WITH HQ 75-14 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 7, 1975, DOCKET 50-293, TYPE--BWR, NRC--GEC, AE--BECHTEL

CAUSE - FILTER NOT SEATED PROPERLY. DURING A REVIEW OF CALCULATED DAILY RELEASE RATES OF HALOGENS AND PARTICULATES, IT WAS OBSERVED THAT THE BUILDING MONITOR OF THE REACTOR BUILDING VENT PROCESS RADIATION MONITOR LOGIC HAD BEEN INOPERABLE IN 2 DAYS BECAUSE SOME OF THE SAMPLE BYPASSED THE SAMPLE CARTRIDGE AND PARTICULATE FILTER. THE CHEMICAL CARTRIDGE AND PARTICULATE FILTER WERE NOT PROPERLY SEATED. REPAIRS WERE MADE IMMEDIATELY. THE REACTOR WAS AT 60% POWER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • RADIATION MONITORS • VENTILATION SYSTEM • BUILDING • FAILURE, MAINTENANCE ERROR • FILTERS • CHEMICAL • SEAL • REVIEW

103547

NPCL TURBINE STOP VALVE INOPERABLE AT PILGRIM
DUSTON EUSON COMPANY, MASS.

2 PAGES, LETTER WITH HQ 75-14 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 7, 1975, DOCKET 50-293, TYPE--BWR, NRC--GEC, AE--BECHTEL

CAUSE - BROKEN WELD. DURING AN INSPECTION WHILE THE REACTOR WAS AT 60% POWER, THE NPCL TURBINE STOP VALVE WAS FOUND OPEN AND THE VALVE DISC STEM SEPARATED FROM THE VALVE OPERATOR. THE WELD CONNECTING THE DISC STEM TO THE VALVE OPERATOR HAD SEPARATED. REPAIRS WERE MADE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • VALVES • NPCL • TURBINE • FAILURE, EQUIPMENT • WELDS • FAILURE, FABRICATION ERROR

103548

RCIC VALVE BECAME INOPERABLE AT PILGRIM

DUSTON EUSON COMPANY, MASS.

2 PAGES, LETTER WITH HQ 75-14 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 7, 1975, DOCKET 50-293, TYPE--BWR, NRC--GEC, AE--BECHTEL

CAUSE - GLAND STEAM LEAK. DURING AN INSPECTION WHILE THE REACTOR WAS AT 60% POWER, A RCIC VALVE WAS FOUND TO HAVE A GLAND STEAM LEAK. THE VALVE WAS REMOVED FROM SERVICE FOR ADJUSTMENTS TO THE VALVE GLAND AND TURBINE SWITCH. IT WAS RETURNED TO SERVICE 4 DAYS LATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • VALVES • EQUIPMENT ISOLATION • COILING • LEAK • SEAL • FAILURE, EQUIPMENT

103549

SET POINT DRIFT IN PRESSURE SWITCHES AT PILGRIM

DUSTON EUSON COMPANY, MASS.

2 PAGES, LETTER WITH HQ 75-15 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 12, 1975, DOCKET 50-293, TYPE--BWR, NRC--GEC, AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING A TEST WHILE OPERATING AT 75% POWER, A RHR SYSTEM (LPLI MODE) PRESSURE SWITCHES WERE FOUND TO HAVE SET POINT DRIFT. THE CAUSE WAS LIMITED INSTRUMENT DRIFT. THE SWITCHES WERE IMMEDIATELY RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • SHUTDOWN COOLING SYSTEM • LPLI

103550

PLANT STACK PROCESS RADIATION MONITORING SYSTEM INOPERABLE AT PILGRIM

DUSTON EUSON COMPANY, PLYMOUTH

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, BOSTON 1, JUNE 12, 1975, DOCKET 50-293, TYPE--BWR, NRC--GEC, AE--BECHTEL

104197 CONTINUED

CAUSE - FILTER INSTALLED IMPROPERLY. DURING AN ADMINISTRATIVE REVIEW, IT WAS OBSERVED THAT THE PLANT LEAK PROCESS RADIATION MONITORING SYSTEM WAS NOT OPERATING AS DESIGNED DURING THE PRIOR 7 DAYS. AT THE TIME OF OBSERVATION, THE SYSTEM HAD BEEN RETURNED TO SERVICE. FOLLOWING THE CHANGING OF THE FILTER CARTRIDGE, THE FILTER CARTRIDGE HOLDER APPARENTLY WAS NOT PROPERLY TIGHTENED. THIS ALLOWED AIR INLEAKAGE INTO THE SYSTEM WHICH DILUTED THE SAMPLE FLUX.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (DNR) + MONITORING, STACK + RADIATION MONITORS + FAILURE, MAINTENANCE ERROR + FILTER INSTALLATION + FILTERS + LEAK

104198

CORE SPRAY PRESSURE SWITCH VALVED INCORRECTLY AT PILGRIM

BOSTON EUSON COMPANY, PLYMOUTH

2 PAGES, LETTER WITH UU 75-14 TO NRC DIVISION OF REACTOR LICENSING, JULY 8, 1975, DOCKET 50-293, TYPE--DNR, NRC--G.E., AE--BECHTEL

CAUSE - PUMP TESTING ERROR. DURING TESTING WITH THE REACTOR AT 63% POWER, IT WAS OBSERVED THAT THE CORE SPRAY PUMP DISCHARGE PRESSURE INTERLOCK PRESSURE SWITCH HAD BEEN VALVED INCORRECTLY. THE SWITCH WAS INCORRECTLY VALVED DURING PERFORMANCE OF THE PREVIOUS TEST. IT WAS IMMEDIATELY RETURNED TO SERVICE AND SATISFACTORILY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (DNR) + INSTRUMENT, SWITCH + SENSORS, PRESSURE + CORE SPRAY + TEST, SYSTEM OPERABILITY + PROCEDURES AND MANUALS + VALVES + FAILURE, MAINTENANCE ERROR

104199

RCIC TURBINE OVERSPEED TRIP OCCURS AT PILGRIM

BOSTON EUSON COMPANY, PLYMOUTH

2 PAGES, LETTER WITH UU 75-14 TO NRC DIVISION OF REACTOR LICENSING, JULY 8, 1975, DOCKET 50-293, TYPE--DNR, NRC--G.E., AE--BECHTEL

CAUSE - UNKNOWN. DURING A TEST WITH THE REACTOR AT 70% POWER, AN OVERSPEED TRIP OF THE RCIC TURBINE OCCURRED DURING STARTUP. PREPARATIONS WERE INITIATED FOR A UNIT SHUTDOWN. AN HOUR LATER THE SYSTEM WAS SATISFACTORILY TESTED. PREPARATIONS FOR A SHUTDOWN WERE STOPPED. NO APPARENT CAUSE OF THE TRIP WAS EVIDENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (DNR) + CONTAINMENT ISOLATION + RECORDING + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + TURBINE

104200

HPCL VALVE FAILS TO OPERATE AT PILGRIM

BOSTON EUSON COMPANY, PLYMOUTH

2 PAGES, LETTER WITH UU 75-15 TO NRC DIVISION OF REACTOR LICENSING, JULY 8, 1975, DOCKET 50-293, TYPE--DNR, NRC--G.E., AE--BECHTEL

CAUSE - VALVE MOTOR OVERLOADED. DURING TESTING WITH THE REACTOR OPERATING AT 70% POWER, A HPCL MOTOR OPERATED VALVE FAILED TO OPEN WHEN GIVEN AN OPEN SIGNAL FROM THE CENTRAL ROOM. THE VALVE MOTOR OVERLOADED WHILE ATTEMPTING TO OPEN THE VALVE. AN ANALYSIS OF THE PROBLEM IS BEING MADE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00

VALVES + HPCL + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + PILGRIM (DNR)

104201

VACUUM BREAKER APPEARED INOPERABLE AT PILGRIM

BOSTON EUSON COMPANY, PLYMOUTH

2 PAGES, LETTER WITH UU 75-15 TO NRC DIVISION OF REACTOR LICENSING, JULY 8, 1975, DOCKET 50-293, TYPE--DNR, NRC--G.E., AE--BECHTEL

CAUSE - POSITION SWITCH MALFUNCTION. DURING TESTING WITH THE REACTOR AT 73% POWER, A DRYWELL-PRESSURE SUPPRESSION CHAMBER VACUUM BREAKER WAS OBSERVED TO BE INOPERABLE AS DETERMINED BY THE POSITION INDICATING LIGHTS. A LATER INVESTIGATION REVEALED THAT THE VALVE WAS OPERATING CORRECTLY AND THAT THE INDICATING CIRCUIT HAD MALFUNCTIONED. THE DEFECTIVE VALVE POSITION INDICATING SWITCH WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 1.00 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (DNR) + INSTRUMENT, SWITCH + INSTRUMENT, POSITION + TEST, SYSTEM OPERABILITY + CONTAINMENT VACUUM BREAKER + TUBES + CONTAINMENT + FAILURE, COMPONENT

104300

NCS STORAGE TANK VOLUME-CONCENTRATION LHM AT PILGRIM

BOSTON Edison COMPANY

2 PGS., LHM WITH WJLR 75-26 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, JULY 25, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNKNOWN. WHILE OPERATING AT 70% POWER, A SPECIFIED AMOUNT OF WATER WAS ADDED TO THE STANDBY LIQUID CONTROL SYSTEM STORAGE TANK USING APPROVED PROCEDURES. AFTER THE ADDITION, SAMPLE ANALYSIS INDICATED A SODIUM PENTABORATE CONCENTRATION OF 12.398 LHM WITH A VOLUME OF 4010 GALLONS. THIS IS LESS THAN THE LIMIT. PLANS WERE MADE TO PLACE THE UNIT IN COLD SHUTDOWN WITHIN 24 HOURS. HOWEVER, THE CONCENTRATION WAS INCREASED TO 11.78 LHM IN 4 HOURS. NO REASON FOR THE INADEQUATE DILUTION WAS FOUND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • PLUTONIUM • STORAGE CONTAINER • SHUTDOWN SYSTEM, SECONDARY

104075

AIRBORNE EFFLUENT NOTIFICATION POINT EXCEEDED FOR IODINE AT PILGRIM

BOSTON Edison COMPANY, PLYMOUTH, MASS.

1 PGS., LHM TO NRC DIV. OF REACTOR LICENSING, JULY 30, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - UNKNOWN. THE NOTIFICATION POINT OF ULS C/REACTOR WAS SURPASSED DURING THE SECOND QUARTER OF 1975. THE TOTAL AMOUNT OF I-131 RELEASED WAS 0.550 CI. AN INVESTIGATION IS IN PROGRESS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • PATRONAGE RELEASE • PIGLINE • EFFLUENT • FISSION PRODUCT, IODINE

104020

MAIN STEAM RELIEF/SAFETY VALVE FAILS TO CLOSE AT PILGRIM

BOSTON Edison CO., PLYMOUTH, MASS.

1 PGS., LHM TO NRC DIV. OF REACTOR LICENSING, JULY 30, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - LEAKAGE THROUGH PILOT VALVE. A MAIN STEAM RELIEF/SAFETY VALVE WAS MANUALLY ACTUATED IN AN ATTEMPT TO STOP AN APPARENT LEAKAGE THROUGH THE VALVE INDICATED BY TAILPIPE TEMPERATURE OF 210 PS. THE VALVE REMAINED OPEN. WHEN SEVERAL ATTEMPTS TO CLOSE IT FAILED, THE REACTOR WAS MANUALLY SHUTDOWN 1 MINUTE AFTER THE VALVE OPENED. FAILURE WAS DUE TO A SMALL AMOUNT OF STEAM LEAKAGE THROUGH THE PILOT VALVE ASSEMBLY WHICH REDUCED THE CLOSING FORCE ON THE SECOND STAGE PISTON. THE VALVE WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • VALVES • OPRESSURE RELIEF • STEAM • MAIN COOLING SYSTEM • FAILURE, EQUIPMENT • LEAK • SCRAM, REAR • REACTOR SHUTDOWN • BLOCKING • PRESSURE TRANSIENT

105723

SET POINT DRIFT IN PRESSURE SWITCH AT PILGRIM

BOSTON Edison COMPANY

2 PGS., LHM WITH WJLR 75-16 TO NRC DIV. OF REACTOR LICENSING, AUG. 7, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - PRESSURE SWITCH DRIFT. DURING A SURVEILLANCE TEST WITH THE REACTOR AT 70% POWER, A PRESSURE SWITCH, WHICH PROVIDES A LOGIC FUNCTION PERMISSIVE FOR OPENING CORE SPRAY AND LPCI VALVES, WAS FOUND TO TRIP AT 427 PSIG WHICH EXCEEDS THE 425 PSIG LIMIT. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE INSTRUMENT WAS IMMEDIATELY RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • CORE SPRAY • LPCI • CONTROL

105724

SET POINT DRIFT IN TWO PRESSURE SWITCHES AT PILGRIM

BOSTON Edison COMPANY

2 PGS., LHM WITH WJLR 75-17 TO NRC DIV. OF REACTOR LICENSING, AUG. 7, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING A TEST OF THE PCIS REACTOR HIGH PRESSURE SWITCHES WHICH PROVIDE AN ISOLATION SIGNAL TO THE RMN SYSTEM WITH THE UNIT AT 45% POWER, TWO SWITCHES ACTUATED AT 139 AND 120 PSIG RESPECTIVELY. THE TECH SPEC LIMIT IS 110 PSIG. THE APPARENT CAUSE IS MINOR INSTRUMENT DRIFT. THE INSTRUMENTS WERE IMMEDIATELY RECALIBRATED.

105724 ALJ2114420
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • SHUTDOWN COOLING SYSTEM

105725
 SALT SERVICE WATER PUMP FOUND IMPERMEABLE AT PILGRIM
 BOSTON EDISON COMPANY
 2 PGS, LTR WAO 75-18 TO NRC DIV. OF REACTOR LICENSING, AUG. 7, 1975, DOCKET 53-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - WORK DEFECTIVE. DURING A ROUTINE INSPECTION WHILE OPERATING AT 90% POWER, SALT SERVICE WATER PUMP 6 WAS FOUND TO BE IMPERMEABLE. THE PUMP SHAFT WAS DISCONNECTED FROM THE MOTOR SHAFT. ALL LINE SHAFT BEARINGS, THE LOWER SCREEN BEARING BUSHING, AND THE SEAL WATER BUSHING WERE WORN. ALL THESE AND ONE SECTION OF THE PUMP SHAFTING WERE REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • PUMPS • BEARING • AUXILIARY COOLING - FAILURE, EQUIPMENT • SURVEILLANCE PROGRAM

105726
 TURBINE STOP VALVE CLOSURE TEST NOT PERFORMED ON TIME AT PILGRIM
 BOSTON EDISON COMPANY
 2 PGS, LTR WAO 75-19 TO NRC DIV. OF REACTOR LICENSING, AUG. 7, 1975, DOCKET 53-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - TEST OMITTED FROM SCHEDULE. DURING AN ADMINISTRATIVE REVIEW OF RECORDS, IT WAS OBSERVED THAT THE TURBINE STOP VALVE CLOSURE TEST WAS NOT PERFORMED DURING MAY AND JUNE. WHEN THE SURVEILLANCE TEST SCHEDULE WAS PREPARED FOR THESE MONTHS, THIS TEST WAS INADVERTENTLY OMITTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • TEST INTERVAL • VALUES • TURBINE • FAILURE, ADMINISTRATIVE CONTROL • TESTING • REVIEW

106303
 SET POINT DRIFT IN PRESSURE SWITCHES AT PILGRIM
 BOSTON EDISON CO., MASS.
 3 PGS, LTR WAO 75-13 TO NRC DIV. OF OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 3, 1975, DOCKET 50-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 70% POWER, 3 PRESSURE SWITCHES WERE FOUND TO HAVE DRIFTED ABOVE THE 305 PSIG LIMIT. THE AS FOUND TRIP POINT WAS 312 PSIG FOR ALL THREE. THE INSTRUMENTS PROVIDE A BYPASS LOGIC FUNCTION WHEN TURBINE FIRST STAGE PRESSURE IS LESS THAN 305 PSIG. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCHES WERE IMMEDIATELY RECALIBRATED. THIS IS THE FIRST KNOWN OCCURRENCE OF THIS TYPE FOR THESE INSTRUMENTS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT

106304
 SET POINT DRIFT IN PRESSURE SWITCHES AT PILGRIM
 BOSTON EDISON CO., MASS.
 3 PGS, LTR WAO 75-12 TO NRC DIV. OF OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 3, 1975, DOCKET 53-293, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - MINOR INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 70% POWER, 3 OF 4 PRESSURE SWITCHES WERE FOUND TO HAVE DRIFTED ABOVE THE 600 PSIG LIMIT. AS FOUND SET POINTS WERE 620, 615, AND 627 PSIG RESPECTIVELY. THESE SWITCHES PROVIDE A BYPASS LOGIC FUNCTION WHEN REACTOR PRESSURE IS LESS THAN 600 PSIG. THE APPARENT CAUSE WAS MINOR INSTRUMENT DRIFT. THE SWITCHES WERE RECALIBRATED IMMEDIATELY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • EMERGENCY COOLING SYSTEM

106305
 NRC SYSTEM ISOLATED DUE TO HIGH STEAM FLOW SIGNAL AT PILGRIM
 BOSTON EDISON CO., MASS.

100003 REJESTINUED
 2 PGS. LTR W/AD 75-33 TO NRC DIVISION OF REACTOR LICENSING, SEPT. 11, 1975, DOCKET 50-293, TYPE--BWR.
 NRC--WASH. DC--DECHTEL

CAUSE - PILOT VALVE STICKING. DURING TESTING WITH THE REACTOR AT 70% POWER, THE REACTOR CORE ISOLATION COOLING SYSTEM ISOLATED DUE TO A HIGH STEAM FLOW SIGNAL IN THE STEAM LINE. DURING A SUBSEQUENT OUTAGE, THE PILOT VALVE FOR THE STEAM CONTROL VALVE WAS FOUND TO BE STICKING. IT WAS CLEARED AND LUBRICATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • MAINTENANCE ISOLATION • COOLING • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • VALVES • CONTROL • STEAM

102001
 NRC SYSTEM TESTING NOT PERFORMED PROPERLY AT PILGRIM
 BOSTON Edison CO., MASS.
 2 PGS. LTR W/AD 75-35 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 19, 1975, DOCKET 50-293, TYPE--BWR.
 NRC--WASH. DC--DECHTEL

CAUSE - PROCEDURAL DEFICIENCY. DURING A REACTOR STARTUP SUBSEQUENT TO A MAINTENANCE OUTAGE FOR REACTOR CORE ISOLATION COOLING SYSTEM REPAIRS, AN OPERABILITY TEST OF THE NRC SYSTEM WAS PERFORMED AT 935 PSIG (REACTOR PRESSURE) INSTEAD OF THE REQUIRED 150 PSIG. THIS RESULTED FROM A PROCEDURAL DEFICIENCY IN THAT THE PROCEDURE DID NOT SPECIFICALLY ADDRESS THIS CONDITION. THE PROCEDURE IS BEING REVISED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • TESTING • PRESSURE, INTERNAL • NRC • FAILURE, ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS

102002
 FLOW THROUGH OFF GAS MONITOR LOW AT PILGRIM
 BOSTON Edison CO., MASS.
 2 PGS. LTR W/AD 75-36 TO NRC OFFICE OF NUCLEAR REGULATION, SEPT. 19, 1975, DOCKET 50-293, TYPE--BWR, NRC--WASH. DC--DECHTEL

CAUSE - IMPROPER ADJUSTMENT. WHILE OPERATING AT 75% POWER, THE OFF-GAS MONITOR FOR THE STEAM JET AIR EJECTORS WAS FOUND OPERATING AT DECREASED EFFICIENCY DUE TO LOW FLOW THROUGH THE MONITOR. FLOW ADJUSTMENTS WERE MADE TO RESTORE THE REQUIRED FLOW. THE CAUSE WAS IMPROPER ADJUSTMENT OF THE VALVES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • RADIATION MONITORS • OFF GAS • FAILURE, MAINTENANCE ERRORS • FLOW

102003
 SALT SERVICE WATER PUMP FOUND INOPERABLE AT PILGRIM
 BOSTON Edison CO., MASS.
 2 PGS. LTR W/AD 75-37 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 19, 1975, DOCKET 50-293, TYPE--BWR.
 NRC--WASH. DC--DECHTEL

CAUSE - WORN LINE SHAFT BEARINGS. DURING A ROUTINE INSPECTION, STATION PERSONNEL OBSERVED THAT SALT SERVICE WATER PUMP F WAS INOPERABLE. THE PUMP SHAFT WAS DISCONNECTED FROM THE MOTOR SHAFT. ALL LINE SHAFT BEARINGS WERE WORN. ALL BEARINGS AND A SECTION OF THE SHAFT WERE REPLACED IN KIND. A PERMANENT MODIFICATION TO PREVENT BEARING AND SHAFT MALFUNCTIONS IS IN PROGRESS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (BWR) • PUMPS • BEARING • AUXILIARY COOLING • FAILURE, EQUIPMENT • FAILURE, DESIGN ERROR

100010
 MAIN STEAM RELIEF/SAFETY VALVE FAILS TO CLOSE AT PILGRIM
 BOSTON Edison CO., MASS.
 2 PGS. LTR W/AD 75-38 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 23, 1975, DOCKET 50-293, TYPE--BWR.
 NRC--WASH. DC--DECHTEL

CAUSE - STEAM CUTTING IN PILOT VALVE. DURING A ROUTINE SHUTDOWN, THE STARTUP AND AUXILIARY BUS DE-ENERGIZED UPON TURBINE TRIP. THE REACTOR AUTOMATICALLY SCRAMMED AND THE DG'S STOPPED AND RE-ENERGIZED THE BUS. DURING THE SUBSEQUENT OPERATIONAL TRANSIENT, A MAIN STEAM RELIEF/SAFETY VALVE OPENED AND REMAINED OPEN UNTIL REACTOR PRESSURE DECREASED TO 275 PSIG. THE VALVE REMAINED OPEN DUE TO STEAM CUTTING THE PILOT VALVE ASSEMBLY WHICH INCREASED PRESSURE ON THE ACTUATING SIDE OF THE SECOND STAGE PISTON, THEREBY REDUCING THE CLOSING FORCES. ALL 4 RELIEF/SAFETY VALVES WILL BE INSPECTED FOR SET PRESSURE AND LEAKAGE.

10666 CONTINUED
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (ENR) • VALVES • OPRESSURE RELIEF • MAIN COOLING SYSTEM • STEAM • PHELODGM • HEATIM TRANSIENT • PRESSURE TRANSIENT • FAILURE, EQUIPMENT

106661
 CONTAINMENT COOLING SYSTEM VALVE FAILS TO CLOSE AT PILGRIM
 BOSTON EDISON CO., MASS.

2 PGS. LTR W/00-75-24 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, XT. 2, 1975, DOCKET 50-293, TYPE--ENR, NRC--G.E., AE--DECHTEL

CAUSE - EXCESSIVE VALVE STEM FRICTION. DURING TESTS ON THE CONTAINMENT COOLING SYSTEM WITH THE REACTOR AT 454 PPM, A VALVE WOULD NOT CLOSE ON SIGNAL FROM THE CONTROL ROOM. EXCESS FRICTION ON THE VALVE STEM PREVENTED PROPER OPERATION. THE VALVE STEM WAS IMMEDIATELY CLEANED, LUBRICATED, AND THE VALVE WAS MANUALLY OPERATED. THE VALVE WAS THEN SUCCESSFULLY TESTED AND RETURNED TO SERVICE ON THE SAME DAY. A PREVENTATIVE MAINTENANCE PROGRAM TO PREVENT REOCCURRENCE IS BEING IMPLEMENTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (ENR) • VALVES • CONTAINMENT AIR COOLING • TEST, SYSTEM OPERABILITY • FAILURE, EQUIPMENT • FAILURE, MAINTENANCE ERROR • LUBRICATION

107415
 RHR VALVE BECOMES INOPERABLE AT PILGRIM
 BOSTON EDISON CO., PLYMOUTH, MASS.

2 PGS. LTR W/00-75-25 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 13, 1975, DOCKET 50-293, TYPE--ENR, NRC--G.E., AE--DECHTEL

CAUSE - SYSTEM TRANSIENT. WHILE PLACING THE RESIDUAL HEAT REMOVAL SYSTEM IN THE SHUTDOWN COOLING MODE OF OPERATION, THE SHUTDOWN COOLING OUTWARD ISOLATION VALVE BECAME INOPERABLE. THE MOTOR HAD SEPARATED FROM THE GEAR BOX. DAMAGE WAS APPARENTLY CAUSED BY A SYSTEM TRANSIENT WHILE PLACING THE RHR IN SHUTDOWN COOLING. THE MOTOR MOUNTING ARRANGEMENT CAUSES A PARTIAL CANTILEVER EFFECT WHICH COULD HAVE CONTRIBUTED TO THE DAMAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (ENR) • VALVES • SHUTDOWN COOLING SYSTEM • VALVE OPERATIONS • TRANSIENT • FAILURE, EQUIPMENT • DAMAGE • CONTAINMENT ISOLATION

107690
 CHLORIDE CONCENTRATION IN REACTOR COOLANT WATER EXCEEDS LIMIT AT PILGRIM
 BOSTON EDISON CO., PLYMOUTH, MASS.

2 PGS. LTR W/00-75 TO NRC OFFICE OF I & E, REGION I, OCT. 29, 1975, DOCKET 50-293, TYPE--ENR, NRC--G.E., AE--DECHTEL

CAUSE - HIGH USAGE OF DEMINERALIZER. DURING A REACTOR STARTUP, THE CHLORIDE ION CONCENTRATION IN THE REACTOR COOLANT WATER EXCEEDED THE 0.1 PPM LIMIT IN TWO SUCCESSIVE SAMPLES. THE TIME PERIOD WAS LESS THAN 19 HOURS. DURING THE SHUTDOWN, UNUSUALLY LARGE QUANTITIES OF WATER WERE PROCESSED THROUGH THE COUNTERS DEMINERALIZERS TO FACILITATE MAINTENANCE ACTIVITIES.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (ENR) • COOLANT QUALITY • CHLORIDE • CONCENTRATION • MAIN COOLING SYSTEM • REACTOR STARTUP

109262
 PROTECTIVE RELAYS NOT TESTED ON SCHEDULE AT PILGRIM
 BOSTON EDISON CO., BOSTON, MA

2 PGS. LTR W/00-75-26 TO NRC OFFICE OF I & E, REGION I, DEC. 12, 1975, DOCKET 50-293, TYPE--ENR, NRC--G.E., AE--DECHTEL

CAUSE - DELAY IN REFUELING OUTAGE. AN ADMINISTRATIVE REVIEW OF STATION RECORDS REVEALED THAT TESTING OF CERTAIN ELECTRICAL BREAKERS HAD NOT BEEN PERFORMED WITHIN THE REQUIRED 15 MONTH PERIOD. THE TESTS WERE SCHEDULED FOR THE SEPT. 1975 REFUELING OUTAGE AND THEN RESCHEDULED FOR OCT. 1975 REFUELING OUTAGE. THE REFUELING OUTAGE WAS SUBSEQUENTLY RESCHEDULED TO JANUARY 1976. THE OPERATING CYCLE EXCEEDED 15 MONTHS. THE TESTS HAVE BEEN RUN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

PILGRIM (ENR) • TEST INTERVAL • TESTING • BREAKERS • FAILURE, ADMINISTRATIVE CONTROL

109293

SALT SERVICE WATER PUMP FOUND INOPERABLE AT PILGRIM

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER NOT 30-75-27 TO NRC OFFICE OF I & E, REG-10, DEC. 12, 1975, DOCKET 50-293, TYPE--BWR, NRC--
60000, AR--RECEIVED

CAUSE - LINE SHAFT BEARING WEAR. WHILE OPERATING AT SIX PPM, SALT SERVICE WATER PUMP C WAS DETERMINED TO BE INOPERABLE. THE LINE SHAFT BEARINGS WERE WORN AND THE TURBINE SHAFT AND PUMP SHAFT WERE RUN AS A RESULT OF THE WORN BEARINGS. THE PUMP WAS REPAIRED AND RETURNED TO SERVICE IN 15 DAYS. AN APPROVED DESIGN CHANGE IS BEING IMPLEMENTED IN AN ATTEMPT TO PREVENT A RECURRENT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PILGRIM 15001 - PUMPS - BEARING - AUXILIARY COOLING - FAILURE, DESIGN ERROR - FAILURE, EQUIPMENT

109405

SUPPRESSED CHAMBER SPRAY VALVE FAILS TO CLOSE AT PILGRIM

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER NOT 30-75-28 TO NRC OFFICE OF I & E, REG-10, DEC. 20, 1975, DOCKET 50-293, TYPE--BWR, NRC--
60000, AR--RECEIVED

CAUSE - MECHANICAL INTERLOCK MALFUNCTION. DURING TESTING OF THE RESIDUAL HEAT REMOVAL SYSTEM WITH THE REACTOR AT SIX PPM, A SUPPRESSED CHAMBER SPRAY VALVE DID NOT CLOSE WHEN THE REMOTE SWITCH WAS CLOSED. THE VALVE WAS IMMEDIATELY CLOSED AFTER RESETTING ITS ELECTRICAL BREAKER. A MECHANICAL INTERLOCK IN THE VALVE MOTOR CONTROLLER WAS NOT FUNCTIONING CORRECTLY. IT WAS REPLACED IN KIND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PILGRIM 15001 - VALVES - BEARING - SPRAY - SHUTDOWN COOLING SYSTEM - TEST, SYSTEM OPERABILITY - VALVE
OPERATION - FAILURE, EQUIPMENT - INSTRUMENT, INTERLOCK - FAILURE, INHERENT

099030

CORE VALVE FAILS TO FULLY CLOSE AT QUAD CITIES I

COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE, LETTER TO DIRECTORATE OF LICENSING REGULATION (AEC), JANUARY 15, 1975, DOCKET 50-256, TYPE--BWR, NRC--
60000, AR--SGT C LUNDY

CAUSE - OPEN CIRCUIT IN MOTOR. DURING TESTING OF THE REACTOR CORE ISOLATION COOLING VALVES WITH THE REACTOR OPERATING AT SIX PPM, THE OUTBOARD STEAM ISOLATION VALVE FAILED TO CLOSE COMPLETELY. THE ARMATURE OF THE VALVE MOTOR OPERATOR WAS OPEN CIRCUITED. THE BRUSH RIGGING WAS NOT MAKING PROPER CONTACT WITH THE ARMATURE. BRUSH TENSION WAS INCREASED AND THE MOTOR FUNCTIONED PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, EQUIPMENT - CONTAINMENT ISOLATION - TEST, SYSTEM OPERABILITY - QUAD CITIES I (BWR) - COOLING - VALVE
OPERATION - VALVES

099069

CRACKS FOUND IN REACTOR RECIRCULATION PUMP VALVE BYPASS LINES AT QUAD CITIES I

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH NO REPORT 75/3 TO DIRECTORATE OF LICENSING REGULATION (AEC), JANUARY 17, 1975, DOCKET 50-
256, TYPE--BWR, NRC--60000, AR--SGT C LUNDY

CAUSE - UNKNOWN. DURING VISUAL INSPECTION OF THE BYPASS PIPING AROUND THE REACTOR PUMP DISCHARGE VALVES, LEAKS WERE FOUND ON BOTH. ULTRASONIC AND X-RAY EXAMINATIONS WERE CONDUCTED. A 1.5 INCH CRACK WAS FOUND ALONG THE 4 INCH SIDE OF THE WELD ON A WELDOLET OF LOOP A. ON LOOP B AN INDICATION WAS FOUND ABOUT 1/2 INCH FROM THE WELD BEAD. THE CAUSE HAS NOT BEEN DETERMINED. BOTH BYPASS LINES WILL BE REPLACED. THE REACTOR WAS IN COLD SHUTDOWN AT THE TIME.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, PIPE - WELDS - QUAD CITIES I (BWR) - MAIN COOLING SYSTEM - FLUX, RECIRCULATION - LEAK - ULTRASONICS -
SACRIFIT - PIPES AND PIPE FITTINGS

100573

CORE SPRAY DISCHARGE MEASUR RELIEF VALVE SET TOO LOW AT QUAD CITIES I

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER TO NRC DIRECTORATE OF LICENSING REGULATION, FEBRUARY 20, 1975, DOCKET 50-256, TYPE--BWR, NRC--
60000, AR--SGT C LUNDY

CAUSE - UNKNOWN. WITH THE UNIT IN COLD SHUTDOWN, SPECIAL CORE SPRAY OPERATIONAL HYDROSTATIC TEST WAS RUN IN COMPLIANCE WITH IF BULLETIN 75-01. DURING TESTING OF A PUMP, WATER WAS OBSERVED OVERFLOWING THE REACTOR BUILDING FLOOR DRAIN SUMP. THE TEST WAS STOPPED. THE CORE SPRAY

100373 CONTINUED

DISCHARGE HEADER RELIEF VALVE WAS FOUND TO LEAK BETWEEN 125 AND 330 PSIG. TEST PRESSURE WAS 375 PSIG. VALVES WERE RESET TO LEAK BETWEEN 175 AND 330 PSIG. THE TEST WAS REBORN AT 350 PSIG. ABOUT 20,000 GALLONS OF WATER WERE LOST BEFORE THE CRACK WAS DISCOVERED. NO ADVERSE CONTAMINATION OR ACTIVITY INCREASE OCCURRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 124 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CURE SPRAY • FAILURE, EQUIPMENT • PRESSURE RELIEF • TEST, SYSTEM OPERABILITY • QUAD CITIES 1 (1944) • LEAK • SEE POINT • UNIFT • VALVES

100348

FUEL MISPOSITIONED IN CYCLE 2 CORE AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES. LETTER WITH AD REPORT 75/4 TO NRC DIRECTORATE OF LICENSING REGULATION, FEBRUARY 21, 1975, DOCKET 50-254, TYPE--BWR, WFG--G.E., AE--SGT & LUNDY

CAUSE - OPERATOR ERROR. WHILE PERFORMING A CORE VERIFICATION PRIOR TO REPLACING THE REACTOR HEAD, A FUEL ASSEMBLY WAS FOUND TO BE IN ITS PROPER CORE LOCATION BUT MISORIENTED 180 DEGREES. ALSO, 3 PERIPHERAL FUEL ASSEMBLIES WERE FOUND NOT FULLY SEATED DUE TO SPRING CLIPS BEING HUNG-UP ON THE CORE UPPER GRID. THE UNIT HAD 6 MONTHS OF NORMAL POWER OPERATION WITH THE MISPOSITIONED FUEL. THE OPERATIONS HAD FAILED TO CATCH THE LOADING ERRORS FOLLOWING REFUELING. THE MISORIENTED FUEL ASSEMBLY WAS REPLACED. THE SPRING CLIPS ON THE PERIPHERAL ASSEMBLIES WERE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545, 128 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HEAT TRANSFER • FAILURE, OPERATOR ERROR • REACTIVITY EFFECT • POWER DISTRIBUTION • REFUELING • QUAD CITIES 1 (1944) • FUEL ELEMENTS

100372

IDENTIFICATION NUMBER ON FUEL ASSEMBLY MISORIENTED AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE. LETTER TO NRC DIRECTORATE OF LICENSING REGULATION, FEBRUARY 25, 1975, DOCKET 50-254, TYPE--BWR, WFG--G.E., AE--SGT & LUNDY

CAUSE - MANUFACTURING ERROR. WITH THE REACTOR IN COOL SHUTDOWN, THE REACTOR CORE WAS BEING VERIFIED. DURING THE ENGINEER'S REVIEW OF THE VIDEO TAPE, IT WAS NOTED THAT A MIXED OXIDE ASSEMBLY HAD ITS IDENTIFICATION NUMBER STAMPED IN THE WRONG ORIENTATION. THE FUEL ASSEMBLY ITSELF WAS OBSERVED TO BE IN THE CORRECT ORIENTATION IN THE CORE BY OBSERVING THE LOCATION OF THE SPRING CLIP, THE ORIENTATION LOG, THE GAUDETUM RINGS, AND THE CHANNEL SPACERS. THE CAUSE WAS A MANUFACTURING ERROR. THE ERROR WAS NOTED IN THE CORE VERIFICATION RECORDS FOR FUTURE USE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 105 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FUEL INTEGRITY • FAILURE, FABRICATION ERROR • REFUELING • QUAD CITIES 1 (1944) • IDENTIFICATION • MIXED OXIDE • FUEL ELEMENTS

100371

REACTOR FEED PUMP DISCHARGE HEADER LEAKS AT QUAD CITIES 1

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES. LETTER WITH AD REPORT 75/5 TO NRC DIRECTORATE OF LICENSING REGULATION, MARCH 4, 1975, DOCKET 50-254, TYPE--BWR, WFG--G.E., AE--SGT & LUNDY

CAUSE - IMPROPER WELDING. WHILE PRE-EMPTIVELY INSPECTING THE FUEL FOLLOWING AN OUTAGE, A SMALL LEAK WAS DISCOVERED ON A REACTOR FEED PUMP DISCHARGE LINE. THE LEAK RESULTED FROM A CRACK IN THE WELD JOINING A 3/4 INCH RADIOACTIVE SODIUM TRACER TAP TO THE 18-INCH DISCHARGE HEADER. THIS TAP WAS INSTALLED DURING THE 1974 REFUELING OUTAGE. WHEN INSTALLED, ONLY ONE WELD HEAD WAS USED. NORMAL PHALICE IS TO USE 3 HEADS TO A WELD. NORMAL VIBRATION CAUSED A SMALL CRACK TO DEVELOP. THE REACTOR WAS SHUT DOWN AND THE WELD REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 108 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, PIPE • WELDS • QUAD CITIES 1 (1944) • FAILURE, INSTALLATION ERROR • LEAK • REACTOR SHUTDOWN • FEEDWATER • PIPES AND PIPE FITTINGS

101120

TIP MACHINE BALL VALVE FAILS IN THE OPEN POSITION AT QUAD CITIES 1

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES. LETTER TO NRC DIRECTORATE OF LICENSING REGULATION, MARCH 27, 1975, DOCKET 50-254, TYPE--BWR, WFG--G.E., AE--SGT & LUNDY

CAUSE - INCOMPLETE CLOSURE. WHILE THE REACTOR WAS OPERATING AT 2480 MWt, THE OPERATOR DISCOVERED THAT THE BALL VALVE FOR THE NO. 5 TIP MACHINE SHOWED AN OPEN INDICATION. WHEN THE BALL VALVE WAS TAPPED, IT IMMEDIATELY SHOWED A CLOSED CONDITION. THE VALVE IS SCHEDULED OPERATED TO THE OPEN

101150 - CONTINUED

POSITION AND SPRING LOADED TO THE CLOSED POSITION. THE SPRING APPARENTLY FAILED TO CLOSE THE VALVE COMPLETELY. BECAUSE OF PRIOR FAILURES, A NEWER TYPE VALVE IS ON ORDER FOR REPLACEMENT. THE OLD VALVE WAS REPLACED WITH A NEW ONE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, EQUIPMENT • INSTRUMENT, IN CODE • FAILURE, DESIGN ERROR • QUAD CITIES 1 (RNR) • VALVES

101171

SETPOINT DRIFT IN PRESSURE SWITCH AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER TO NRC DIRECTORATE OF LICENSING REGULATION, MARCH 27, 1975, DOCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - MAIN PISTON ASSEMBLY OR O-RING. DURING TESTING OF THE EMC FLUID LOW PRESSURE SENSORS WHILE OPERATING AT 2672 MWt, ONE TRIPPED AT 495 PSIG WHICH IS BELOW THE 900 PSIG LIMIT. THE APPARENT CAUSE WAS A MAIN PISTON ASSEMBLY IN MAIN O-RING SEALS. EXERCISING THE SWITCH CAUSED THE SETPOINT TO CHANGE TO WITHIN LIMITS. ONLY A SLIGHT SCORING OF THE PISTON WAS NOTED. AS A PRECAUTIONARY MEASURE, THE PISTON ASSEMBLY AND O-RING WERE REPLACED. THIS IS A BARRSDALE, MODEL C9012-2 SWITCH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTION SAFETY SYSTEM • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • TEST, SYSTEM
OPERABILITY • QUAD CITIES 1 (RNR) • SET POINT • DRIFT • SENSORS, PRESSURE

102313

SET POINT DRIFT IN EMC FLUID LOW PRESSURE SENSORS AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILL.

3 PAGES, LETTER WITH AWM 75/3 TO NRC DIRECTORATE OF LICENSING REGULATION, APRIL 21, 1975, DOCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 2600 MWt, 3 OF THE 4 EMC FLUID LOW PRESSURE SENSORS TRIPPED BELOW THE 900 PSIG LIMIT. THE AS FOUND VALVES RANGED FROM 850 TO 895 PSIG. THE SWITCHES WERE RECALIBRATED. THE FREQUENCY OF CALIBRATION WILL BE INCREASED TO ONCE PER WEEK UNTIL RELIABILITY IS DEMONSTRATED. THESE SWITCHES ARE BARRSDALE, MODEL C9012-2, RANGE 135-1500 PSIG.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 1 (RNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM
OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • REACTOR SAFETY SYSTEM

102077

UNEXPECTED INCREASE OF REACTOR POWER AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILLINOIS

1 PAGE, LETTER TO NRC DIR. OF LICENSING REGULATION, MAY 7, 1975, DOCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - INADVERTENT OPENING OF A VALVE. WITH UNIT 1 OPERATING AT 2674 MWt, THE OPERATOR NOTICED AN UNEXPECTED INCREASE IN REACTOR POWER TO 2939 MWt. HE IMMEDIATELY INSERTED RODS AND DECREASED REACTOR POWER. THE HIGH PRESSURE HEATER BYPASS VALVE HAD OPENED RESULTING IN A REACTIVITY INCREASE DUE TO THE LOWER FREQUENT INLET TEMPERATURE. THE SWITCH CONTROLLING THIS VALVE IS LOCATED ON THE EXTREME FORWARD PORTION OF THE CONTROL PANEL. IT IS BELIEVED TO HAVE BEEN INADVERTENTLY CONTACTED. THE VALVE WAS CLOSED AND NORMAL POWER OPERATION RESUMED. THE CALCULATED HEAT FLUX INCREASE (2.56) AGREED WITH THE ACTUAL THERMAL POWER INCREASE (2.68).

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 1 (BWR) • REACTOR TRANSIENT • THERMAL TRANSIENT • FAILURE, OPERATOR ERROR • REACTOR POWER • TRANSIENT

102076

MPCI SYSTEM INOPERABLE AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH AWM 75-13 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 13, 1975, DOCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - MOTOR SPEED CHANGER MALFUNCTION. DURING AN RCIC OUTAGE SURVEILLANCE TEST OF THE MPCI SYSTEM, IT WAS FOUND THAT THE MPCI MOTOR SPEED CHANGER WOULD NOT OPERATE. AN ORDERLY SHUTDOWN FROM 577 MWt WAS INITIATED AT THE RATE OF 12 MWt/MIN. WHEN THE SPEED CHANGER WAS REMOVED FROM ITS MOUNTING, IT WAS FOUND TO OPERATE. IT WAS REPLACED IN ITS MOUNTING AND OPERATED REPEATEDLY WITHOUT ANY RECURRENCE OF THE PROBLEM.

102894 ACQUISITION
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

QUAD CITIES 1 (BWR) • MOTORS • PUMPS • FAILURE, COMPONENT • TEST, SYSTEM OPERABILITY • REACTOR SHUTDOWN

102895
 TWO CONTROL RODS WITHIN A 9-ROD ARRAY WITHDRAWN AT QUAD CITIES 1
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 3 PAGES, LETTER WITH ACR 75-10 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 13, 1975, DCKET 50-254, TYPE--
 BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - INADEQUATE PROCEDURES. DURING A REFUELING OUTAGE, 2 CONTROL RODS WHICH WERE SEPARATED BY
 ONLY ONE INSERTED ROD WERE WITHDRAWN FOR MAINTENANCE. NEITHER MAINTENANCE NOR OPERATING
 PROCEDURES FOR REPLACEMENT OF CONTROL ROD DRIVES CONTAINED REFERENCE TO THE 9-ROD ARRAY
 CRITERIA. A CONTRIBUTING CAUSE OF OPERATOR ERROR MUST ALSO BE ASSIGNED SINCE ONE ROD WAS NOT
 INSERTED FOLLOWING MAINTENANCE BUT LEFT AT A WITHDRAWN POSITION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

QUAD CITIES 1 (BWR) • CONTROL RODS • MAINTENANCE AND REPAIR • SHUTDOWN MARGIN • FAILURE, ADMINISTRATIVE
 CONTROL • PROCEDURES AND MANUALS • FAILURE, OPERATION ERROR • REFUELING

102896
 NRC SYSTEM INOPERABLE AT QUAD CITIES 1
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 3 PAGES, LETTER WITH ACR 75-12 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 13, 1975, DCKET 50-254, TYPE--
 BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - DEFECTIVE MOTOR WINDING. DURING A TEST OF THE NRC SYSTEM, THE NRC CONDENSATE PUMP WAS
 OBSERVED TO HAVE A HIGH AMP READING. FAILURE WAS CAUSED BY DEFECTIVE MOTOR WINDINGS. THE MOTOR
 WAS SENT OFF SITE TO BE REWOUND. THE REWINDING INCLUDED USING A HEAVIER GAUGE OF INSULATION WIRE
 THAN THAT REQUIRED TO BE IN THE MOTOR. THE REACTOR WAS OPERATING AT 1291 MW.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

QUAD CITIES 1 (BWR) • MOTORS • PUMPS • CONTAINMENT ISOLATION • CIRCULING • TEST, SYSTEM OPERABILITY • FAILURE,
 EQUIPMENT

102897
 NRC SYSTEM SERVICE WATER PUMP FIRES AT QUAD CITIES 1
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 3 PAGES, LETTER WITH ACR 75-14 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 13, 1975, DCKET 50-254, TYPE--
 BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - PUMP MOTOR SHORTED OUT. UPON ATTEMPTING TO START NRC SYSTEM SERVICE WATER PUMP 1A TO
 PUMP DOWN THE SUPPRESSION POOL, THE PUMP TRIPPED. THE MOTOR HAD SHORTED OUT. DUE TO HIGH
 HUMIDITY IN THE VAULT, MOISTURE ALLOWED THE CABLES TO BECOME SHORTED CAUSING A SHORT WHICH BURNED
 THE MOTOR OUT. THE MOTOR STATOR WAS SENT TO GE SERVICE DEPARTMENT FOR REWINDING. PROPOSALS FOR
 RESOLUTION OF THE HUMIDITY PROBLEM ARE UNDER CONSIDERATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

QUAD CITIES 1 (BWR) • MOTORS • PUMPS • SHUTDOWN CIRCULING SYSTEM • FAILURE, EQUIPMENT • FAILURE, DESIGN ERROR

103072
 WATER ADDED TO TANK WHILE IT WAS BEING DISCHARGED AT QUAD CITIES 1
 COMMONWEALTH EDISON COMPANY, ILLINOIS
 3 PAGES, LETTER WITH ACR 75-14 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 30, 1975, DCKET 50-254, TYPE--
 BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - PROCEDURAL EFFICIENCY. AFTER SAMPLING, FLOTH DRAIN SAMPLE TANK WAS BEING DISCHARGED TO
 THE RIVER. AT THIS TIME THE WASTE COLLECTOR TANK WAS BEING PROCESSED THROUGH THE FLOTH DRAIN
 FILTER AND DEMINERALIZER TO THE FLOTH DRAIN SURGE TANK. IN MAKING THE VALVE LINE UP FOR THIS
 LAST TRANSFER, THE OPERATOR OPENED A WRONG VALVE WHICH DIRECTED FLOW TO THE DRAIN SAMPLE TANK
 INSTEAD OF THE FLOTH DRAIN SURGE TANK. ALSO, THE MANUAL ISOLATION VALVE ON INLET TO THE FLOTH
 DRAIN SAMPLE TANK WAS OPEN. PROCEDURES FAILED TO COVER THIS ADDITIONAL PROCESSING DURING A
 DISCHARGE OPERATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

QUAD CITIES 1 (BWR) • RADIOACTIVITY RELEASE • SAMPLING • WASTE DISPOSAL • WASTE HANDLING • FAILURE,
 ADMINISTRATIVE CONTROL • PROCEDURES AND MANUALS • STORAGE CONTAINER

104900
SET POINT DRIFT IN PRESSURE SENSOR AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PAGES, LETTER WITH AD REPORT 75-15 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JUNE 6, 1975, DOCKET 50-254,
TYPE--BWR, MFU--G.E., AT--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR AT 1634 MWt, THE SET POINT OF AN
ELECTRO-HYDRAULIC CONTROL SYSTEM FLUID PRESSURE SENSOR WAS FOUND TO BE 13 PSI BELOW THE 900 PSIG
LIMIT. INSTRUMENT DRIFT WAS THE APPARENT CAUSE. THE DANFORS MODEL C9614-2 PRESSURE SWITCH WAS
IMMEDIATELY RESET TO TRIP AT 935 PSIG.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 1 (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM
OPERABILITY * FAILURE, INSTRUMENT * RESET POINT * DRIFT * REACTOR SAFETY SYSTEM * HYDRAULIC SYSTEM

104726
UNSAMPLED LAUNDRY WATER RELEASED TO RIVER AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, CURDLEVA, ILL.
3 PAGES, LTR W/AD 75-16 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 25, 1975, DOCKET 50-254, TYPE--BWR,
MFU--G.E., AT--SGT & LUNDY

CAUSE - IMPROPER VALVE LINEUP. WHILE FLOOD DRAIN SAMPLE TANK A WAS BEING DISCHARGED TO THE RIVER,
THE LAUNDRY DRAIN SAMPLE TANK WAS PLACED IN RECIRCULATION PAIR TO SAMPLING. AN HOUR LATER, THE
OPERATOR NOTED A 28 INCREASE IN THE FLOOD DRAIN SAMPLE TANK LEVEL. THE VALVE BETWEEN THE 2 TANKS
WAS FOUND OPEN EVEN THOUGH THE VALVE CHECKLIST INDICATED IT WAS LOCKED CLOSED. THE DISCHARGE WAS
STOPPED IMMEDIATELY. THE LAUNDRY TANK WAS SAMPLED. RESULTS INDICATED THAT NO RELEASE RATE
LIMITS WERE EXCEEDED. THE WASTEWATER ENGINEER WILL NOW VERIFY THE VALVE CHECK OFF LIST PRIOR TO A
DISCHARGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 1 (BWR) * RADIOACTIVITY RELEASE * WASTE DISPOSAL * WASTE DISPOSAL, LIQUID * RIVER * FAILURE,
OPERATION ERROR

104832
TIP MACHINE BALL VALVE FAILS TO CLOSE AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, CURDLEVA, ILL.
2 PAGES, LTR W/AD 75-17 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 31, 1975, DOCKET 50-254, TYPE--BWR,
MFU--G.E., AT--SGT & LUNDY

CAUSE - SPRING MALFUNCTION. WHEN THE OPERATOR WITHDREW TIP MACHINE 3 DETECTOR, THE DRIVE MOTOR
STOPPED WHEN THE DETECTOR REACHED THE IN-SHIELD POSITION BUT THE BALL VALVE FAILED TO CLOSE.
WHEN THE BALL VALVE WAS TAPPED, IT WENT CLOSED IMMEDIATELY. THE APPARENT CAUSE WAS FAILURE OF
THE SPRING TO CLOSE THE BALL VALVE COMPLETELY. THE VALVE AND OPERATING MECHANISM WAS REMOVED AND
REPLACED BY A NEW VALVE AND OPERATOR OF NEW DESIGN.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 1 (BWR) * VALVES * INSTRUMENT, IN CORE * FAILURE, EQUIPMENT * FAILURE, DESIGN ERROR *
MODIFICATION

104939
SET POINT DRIFT IN PRESSURE SENSOR AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER WITH AD REPORT 75-18 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 1, 1975, DOCKET 50-254,
TYPE--BWR, MFU--G.E., AT--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING ROUTINE CALIBRATION OF PRESSURE SUPPRESSION CHAMBER TO REACTOR
BUILDING VACUUM BREAKER PRESSURE SWITCHES, IT WAS DISCOVERED THAT ONE SWITCH TRIPPED AT 0.9126
PSI WHILE THE LIMIT IS 0.5 PSI. THE APPARENT CAUSE WAS INSTRUMENT DRIFT. THE SWITCH WAS
REALIGNED. THE REACTOR WAS AT 2022 MWt.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 1 (BWR) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, PRESSURE * TEST, SYSTEM
OPERABILITY * FAILURE, INSTRUMENT * RESET POINT * DRIFT * PLANT PROTECTIVE SYSTEM

105169
REACTOR HIGH PRESSURE SCRAM SENSOR FOUND ISOLATED AT QUAD CITIES 1
COMMONWEALTH EDISON COMPANY, CURDLEVA
3 PAGES, LTR W/AD 75-19 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 15, 1975, DOCKET 50-254, TYPE--BWR,
MFU--G.E., AT--SGT & LUNDY

105169 CONTINUED

CAUSE - VALVING ERROR. WHILE THE REACTOR WAS AT 1710 MWt, AN INSTRUMENT MECHANIC DISCOVERED THAT A REACTOR HIGH PRESSURE SCRAM SWITCH WAS ISOLATED WHEN HE STARTED TO TEST IT. THE SWITCH APPARENTLY HAD BEEN LEFT ISOLATED AFTER COMPLETION OF THE PREVIOUS MONTH'S TESTING. THE INSTRUMENT WAS VALVED IN FOLLOWING TESTING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 134 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 1 (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SE+SMS, PRESSURE + FAILURE, MAINTENANCE ERROR + VALVES + REACTOR SAFETY SYSTEM + TEST, SYSTEM OPERABILITY

105183

STANDBY LIQUID CONTROL PUMP FLOW RATE LESS THAN LIMIT AT QUAD CITIES 1

COMMONWEALTH EDISON COMPANY, CORDOVA

3 PAGES, LETTER WITH ACR 75-20 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 19, 1975, DCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - RELIEF VALVE SET INCORRECTLY. DURING A TEST WITH THE UNIT OPERATING AT 2151 MWt, 1 OF THE 2 STANDBY LIQUID CONTROL PUMPS WAS FOUND TO BE INCAPABLE OF DELIVERING THE REQUIRED FLOW RATE OF 34 GPM AT 1275 PSIG. THE RELIEF VALVE WAS FOUND TO BE RELIEVING PREMATURELY. IT WAS RESET TO RELIEVE AT 1400 PSIG. THE PUMP THEN DELIVERED 67.6 GPM AT 1275 PSIG.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 136 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 1 (BWR) + PUMPS + FLOW + RATE + SHUTDOWN SYSTEM, SECONDARY + TEST, SYSTEM OPERABILITY + FAILURE, EQUIPMENT + VALVES + PRESSURE RELIEF + SET POINT + GIFT

106336

NOTICE OF PROPOSED IMPOSITION OF CIVIL PENALTIES OF \$25000 AT QUAD CITIES 1 AND 2

NUCLEAR REGULATORY COMMISSION, WASH., D.C.

7 PAGES, LETTER WITH ATTACH. TO PRESIDENT OF COMMONWEALTH EDISON CO., AUG. 26, 1975, DCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - INSUFFICIENT MANAGEMENT CONTROLS. DURING 2 INSPECTIONS, SEVERAL ITEMS APPEARED TO BE IN NONCOMPLIANCE WITH NRC REQUIREMENTS. THREE OF THE 4 ITEMS OF FAILURE TO MEET THE REQUIREMENTS OF THE SECURITY PLAN WERE REPETITIVE IN NATURE. THE CONTROL AND MANIPULATION INCIDENT WHICH RESULTED IN INCREASED RELEASE OF GASEOUS RADIOACTIVE MATERIAL WAS THE FIFTH IN A SERIES OF SIMILAR OCCURRENCES WITHIN 9 MONTHS AT DRESDEN AND QUAD CITIES STATIONS. ALL OCCURRENCES APPARENTLY RESULTED FROM PERSONNEL ERROR AND INEFFECTIVE MANAGEMENT CONTROLS. NRC PROPOSES TO IMPOSE CIVIL PENALTIES IN THE CUMULATIVE AMOUNT OF \$25000.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 138 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 1 (BWR) + QUAD CITIES 2 (BWR) + LEGALISTICS + SECURITY + AIRBORNE RELEASE + FAILURE, ADMINISTRATIVE CONTROL + AGENCY, NRC

107669

RPS PRESSURE SCRAM SWITCHES FOUND VALVED OUT AT QUAD CITIES 1

COMMONWEALTH EDISON, CORDOVA, ILL.

4 PGS, LTR W/AC 50-254/75-21 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 24, 1975, DCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - MAINTENANCE ERROR. DURING TESTING WITH THE REACTOR AT 1650 MWt, 2 RPS DRYWELL HIGH PRESSURE SCRAM SWITCHES WERE FOUND VALVED OUT. THE INSTRUMENT MECHANIC INADVERTENTLY LEFT THE SWITCH ISOLATION VALVES CLOSED UPON COMPLETION OF THE LAST TEST. THE SWITCHES WERE TESTED AND ISOLATION VALVES OPENED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 138 CENTS/PAGE -- MINIMUM CHARGE \$2.00

REACTOR, PWR + INSTRUMENT, SWITCH + SENSORS, PRESSURE + CONTAINMENT ISOLATION + VALVES + FAILURE, OPERATION ERROR + REACTOR SAFETY SYSTEM + TEST, SYSTEM OPERABILITY + QUAD CITIES 1 (BWR)

107803

ACTIVITY IN DISCHARGE EXCEEDS LIMIT AT QUAD CITIES 1

COMMONWEALTH EDISON CO., CORDOVA, ILL.

4 PGS, LTR W/AC 50-254/75-22 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 30, 1975, DCKET 50-254, TYPE--BWR, MFG--G.E., AE--SGT E LUNDY

CAUSE - PERSONNEL ERROR IN CALCULATIONS. WHILE PREPARING MONTHLY RADIOACTIVE DISCHARGE REPORT, IT WAS DISCOVERED THAT THE LAUNDRY DRAIN SAMPLE TAKEN BATCH 3700 HAD BEEN DISCHARGED AT A RATE THAT EXCEEDED TECH SPEC LIMIT BY A FACTOR OF 4.42. CALCULATIONS DETERMINED THE ALLOWABLE DISCHARGE RATE TO BE 0.33 GPM. ERROR BY THE RADIATION PROTECTION MAN RESULTED IN A REPORTED RATE OF 3.3 GPM. A GRAPHIC METHOD OF CHECKING THE CALCULATED RATE WILL BE DEVELOPED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 138 CENTS/PAGE -- MINIMUM

107003 00CONTINUED
CHARGE \$2.00

QUAD CITIES 1 (BWR) • PRELASE RATE • WASTE DISPOSAL • WASTE DISPOSAL, LIQUID • FAILURE, ADMINISTRATIVE
CONTROL • MATHEMATICAL TREATMENT • RADIOACTIVITY RELEASE

093729

INDICATIONS OF CRACK AT WELDS IN BYPASS LINES AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER TO DIRECTORATE OF LICENSING REGULATION (AEC), JANUARY 2, 1975, DOCKET 50-265, TYPE--BWR, MFG--
GE--SUT & LUNDY

CAUSE - UNKNOWN. IN ACCORDANCE WITH AEC BULLETIN 13A, ULTRASONIC TESTING OF WELDS IN THE BYPASS
PIPING LINES AMONG THE RECIRCULATION PUMPS DISCHARGE VALVES WAS PERFORMED. TESTING REVEALED
INDICATIONS OF CRACKS IN 3 WELDS. RESULTS WERE CONFIRMED BY ADDITIONAL ULTRASONIC TESTING. THE
CAUSE HAS NOT YET BEEN DETERMINED. THE ORIGINAL RECIRCULATION PUMP DISCHARGE VALVE BYPASS
PIPING ON A AND J PUMPS WILL BE COMPLETELY REPLACED DURING THE CURRENT REFUELING OUTAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545, 139 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

FAILURE, PIPE • WELDS • REFUELING • TEST, NONDESTRUCTIVE • MAIN COOLING SYSTEM • FLOW, RECIRCULATION • BYPASS
• QUAD CITIES 2 (BWR) • ULTRASONICS • FACET • PIPES AND PIPE FITTINGS

093729

SETPOINT DRIFT IN TEMPERATURE SWITCH AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH AD REPORT 75/4 TO DIRECTORATE OF LICENSING REGULATION (AEC), JANUARY 9, 1975, DOCKET 50-
265, TYPE--BWR, MFG--GE, AE--SUT & LUNDY

CAUSE - INSTRUMENT DRIFT. WHILE DURING ROUTINE REFUELING OUTAGE TESTING OF THE PRIMARY CONTAINMENT
ISOLATION SYSTEM, A TEMPERATURE SWITCH WAS FOUND TO TRIP AT 222 F, EXCEEDING THE 200 F LIMIT. IT
HAD BEEN SET AT 180 F IN JUNE 1974. THE PENNA MODEL 17302-43 SWITCH WAS RECALIBRATED AND
INSTALLED BACK INTO THE SYSTEM. THE OTHER 15 SIMILAR SWITCHES TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545, 108 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

CONTAINMENT ISOLATION • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • REFUELING • TEST,
SYSTEM OPERABILITY • SET POINT • QUAD CITIES 2 (BWR) • DRIFT • SENSORS, TEMPERATURE

093741

SET POINT DRIFT IN TEMPERATURE SWITCHES AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH AD REPORT 75/4 TO AEC DIRECTORATE OF LICENSING REGULATION, JANUARY 17, 1975, DOCKET 50-
265, TYPE--BWR, MFG--GE, AE--SUT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING REFUELING OUTAGE CALIBRATION OF THE HPCI TURBINE AREA HIGH
TEMPERATURE SWITCHES, 7 OF THE 16 SWITCHES TRIPPED AT VALUES IN EXCESS OF THE 200 F LIMIT. THE
APPARENT CAUSE WAS INSTRUMENT DRIFT. THE INITIAL SET POINTS WERE IDENTICAL TO THE LIMIT. ANY
POSITIVE DRIFT VIOLATED TECH SPECS. ALL SWITCHES WERE RECALIBRATED TO 185 F.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545, 107 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

REACTION SAFETY SYSTEM • INSTRUMENT CALIBRATION • INSTRUMENT, SWITCH • REFUELING • TEST, SYSTEM OPERABILITY •
FAILURE, ADMINISTRATIVE CONTROL • SET POINT • QUAD CITIES 2 (BWR) • DRIFT • SENSORS, TEMPERATURE

093752

SETPOINT DRIFT IN PRESSURE SWITCH AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH AD REPORT 75/5 TO AEC DIRECTORATE OF LICENSING REGULATION, JANUARY 24, 1975, DOCKET 50-
265, TYPE--BWR, MFG--GE, AE--SUT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING REFUELING TESTING OF THE MAIN STEAM LINE LOW PRESSURE ISOLATION
PRESSURE SWITCHES, 1 OF 4 SWITCHES TRIPPED AT 846 PSIG, WHICH IS BELOW THE 890 PSIG LIMIT. THE
HARRISDALE MODEL 821-A1425 SWITCH WAS RESET TO 864 PSIG. THE CAUSE IS BELIEVED TO BE INSTRUMENT
DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545, 108 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

REACTION SAFETY SYSTEM • INSTRUMENT CALIBRATION • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH • REFUELING • TEST,
SYSTEM OPERABILITY • SET POINT • QUAD CITIES 2 (BWR) • DRIFT • SENSORS, PRESSURE

100047

HPCI STEAM LINE FLOW SWITCH FAILS TO TRIP AT QUAD CITIES 2

100077 CONTINUED

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH ATTACHMENT 75/77 TO NRC DIRECTORATE OF LICENSING REGULATION, FEBRUARY 14, 1975, DOCKET 50-265, TYPE--BWR, NRC--G.E., AT--SGT E LUNDY

CAUSE - BINDING IN THE LINKAGE. WHILE TESTING THE HIGH PRESSURE COOLANT INJECTION SYSTEM STEAM LINE PUMP SWITCHES DURING A REFUELING OUTAGE, ONE SWITCH FAILED TO TRIP AT ANY APPLIED DIFFERENTIAL PRESSURE. THE SWITCH LINKAGE WAS BINDING AND WOULD NOT MOVE THROUGH ITS FULL TRAVEL. AFTER THE LINKAGE WAS ADJUSTED, THE FACTORY MODEL 289, SWITCH WAS TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION • INSTRUMENT, SWITCH • REFUELING • TEST, SYSTEM OPERABILITY • FAILURE, MAINTENANCE ERROR • QUAD CITIES 2 (BWR) • SEASONS, FLOW • NPCT

100370

JET PUMP COMPONENTS DISCOVERED MISSING AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

8 PAGES, LETTER WITH ATTACHMENT 75/76 TO NRC DIRECTORATE OF LICENSING REGULATION, FEBRUARY 24, 1975, DOCKET 50-265, TYPE--BWR, NRC--G.E., AT--SGT E LUNDY

CAUSE - INSTALLATION ERRORS. DURING THE REFUELING OUTAGE, A SCHEDULED JET PUMP INSPECTION REVEALED THE FOLLOWING DEFICIENCIES. THE BEAN BOLT RESTRAINER CLIPS AND 1/2 INCH CAP SCREWS WERE MISSING ON PUMPS 1 AND 2. THE RESTRAINER ADJUSTING SCREW IN THE SHROUD SEED OF PUMP 2 WAS MISSING. RESTRAINER GATE KEEPER HELDS ON 5 PUMPS WERE NOT FIRED TO RESTRAINER GATE. THE CAUSE OF THE MISSING PARTS WAS INSTALLATION DEFICIENCIES. VIBRATION DURING OPERATION DISLODGED THEM. THE CLIPS AND CAP SCREWS WILL NOT BE REPLACED SINCE THEY ARE USED DURING INSTALLATION. A REPLACEMENT ADJUSTING SCREW WAS INSTALLED AND TACK WELDED IN PLACE. ALL RESTRAINER GATE PNTS WERE REBORGED AND TACK WELDED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT • HELDS • FASTENERS • REFUELING • PUMP, JET • VIBRATION • FAILURE, INSTALLATION ERROR • QUAD CITIES 2 (BWR)

100500

DEFLECT FOUND IN FEEDWATER CHECK VALVE AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILL.

1 PAGE, LETTER TO NRC DIRECTORATE OF LICENSING REGULATION, MARCH 14, 1975, DOCKET 50-265, TYPE--BWR, NRC--G.E., AT--SGT E LUNDY

CAUSE - CASTING FLAW. DURING A REFUELING OUTAGE, A FEEDWATER CHECK VALVE WAS DISASSEMBLED FOR MODIFICATION TO THE SEAL RING. AN INDICATION OF A FLAW WAS DISCOVERED ON THE INTERIOR VALVE BODY ABOUT 5/8 INCH LONG. THE VENDOR SAID THAT THE ORIGINAL VALVE BODY CASTING HAD A FLAW WHICH WAS REPAIRED BEFORE DELIVERY. RADIOGRAPHY SHOWED A SLAG INCLUSION AT THE REPAIR. THE INCLUSION WAS ACCEPTABLE BY THE CODE. REPAIR CONSISTED OF GRINDING OUT A 6 INCH LONG PORTION OF THE VALVE BODY IN THE AREA OF THE FLAW AND REPELLING TO THE ORIGINAL DIMENSION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MAINTENANCE AND REPAIR • FLAW • FAILURE, FABRICATION ERROR • REFUELING • VALVE, CHECK • QUAD CITIES 2 (BWR)

100809

FEEDWATER SPARGER FAILURES AT QUAD CITIES 2

COMMONWEALTH EDISON CO., ILL.

10 PAGES, LETTER WITH ATTACHMENT TO NRC DIRECTORATE OF LICENSING REGULATION, MARCH 21, 1975, DOCKET 50-265, TYPE--BWR, NRC--G.E., AT--SGT E LUNDY

CAUSE - FATIGUE FROM FLOW VIBRATION. DURING A REFUELING OUTAGE, LEAKY PENETRANT TESTS ON THE FEEDWATER SPARGER JUNCTION BOXES REVEALED INDICATION OF CRACKING. CRACKS WERE IN THE HEAT AFFECTED ZONES ON THE PIPING SIDE OF THE WELDS. THE CAUSE WAS ATTRIBUTED TO FATIGUE CAUSED BY FLOW INDUCED VIBRATION COMPOUNDED BY STRESSES INDUCED BY THE THERMAL GRADIENTS INHERENT BETWEEN THE FEEDWATER PIPING AND REACTOR VESSEL INTERNALS. SPARGERS OF A NEW DESIGN ARE BEING INSTALLED. THE NEW SPARGERS UTILIZE AN INTERFERENCE FIT TO REDUCE LEAKAGE AND REDUCE VIBRATION. SIMILAR FAILURES OCCURRED AT DUNSMIR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 130 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, PIPE • WELDS • MODIFICATION • REFUELING • FAILURE, FATIGUE • FAILURE, DESIGN ERROR • VIBRATION • HEAT TREATMENT • FLOW • QUAD CITIES 2 (BWR) • CRACK • FEEDWATER • PIPES AND PIPE FITTINGS

101739

RESPONSE TIME OF PRESSURE SUPPRESSION VALVES HIGH AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH ATTACHMENT 77/10 TO NRC DIRECTORATE OF LICENSING REGULATION, APRIL 9, 1975, DOCKET 50-265.

101739 CONTINUED
TYPE--BMR, MFG--G.E., AE--SGT E LUNDY

CAUSE - OUT OF ADJUSTMENT. DURING TESTING OF THE PRESSURE SUPPRESSION VALVES WHILE THE UNIT WAS SHUT DOWN FOR REFUELING, THE CLOSURE TIMES FOR 3 VALVES WERE FOUND TO BE OUT OF ADJUSTMENT. ALSO, THE SURGE PLUNGER ON ONE WAS MALFUNCTIONING. ITS DEFECTIVE PLUNGER WAS REPLACED. THE BLEED-OFFS ON ALL 3 WERE ADJUSTED. THESE VALVES ARE NORMALLY CLOSED AND REMAIN CLOSED DURING AN ISOLATION SIGNAL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT, PRESSURE SUPPRESSION + CONTAINMENT ISOLATION + RESPONSE TIME + REFUELING + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + QUAD CITIES 2 (BMR) + VALVES + PORUS

102250
FEEDWATER CHECK VALVES LEAK AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
4 PAGES, LETTER WITH ACR 75/30 TO NRC DIR. OF LICENSING REGULATION, APRIL 22, 1975, DOCKET 50-265, TYPE--BMR, MFG--G.E., AE--SGT E LUNDY

CAUSE - FLOW BETWEEN SEAT RING AND BODY. DURING THE REFUELING OUTAGE, 2 FEEDWATER CHECK VALVES WERE FOUND TO HAVE EXCESSIVE LEAKAGE. THE SEAL ALLOWED FLOW BETWEEN THE SEAT RING AND THE VALVE BODY. AFTER THE STAINLESS STEEL SEAL RINGS WERE REPLACED WITH VITON SILICON RUBBER O-RINGS, LEAK RATES WERE ACCEPTABLE. VALVE SEATING SURFACES WERE ALSO REMACHINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BMR) + VALVE, CHECK + FEEDWATER + LEAK RATE + TEST, SYSTEM OPERABILITY + TEST, LEAK RATE + FAILURE, DESIGN ERROR + SEAL + REFUELING + CONTAINMENT INTEGRITY

102269
DIESEL GENERATOR FAILS DURING TESTING AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILL.
3 PAGES, LETTER WITH ACR 75/11 TO NRC DIRECTORATE OF LICENSING REGULATION, APRIL 18, 1975, DOCKET 50-265, TYPE--BMR, MFG--G.E., AE--SGT E LUNDY

CAUSE - SELENIUM SURGE SUPPRESSORS FAIL. WHILE PERFORMING A DIESEL GENERATOR SURVEILLANCE TEST DURING THE REFUELING OUTAGE, THE FIELD WIRE SELENIUM SURGE SUPPRESSORS SHORTED OUT CAUSING ARCING ABOVE THE EXCITATION CABINET. THE DIESEL WAS IMMEDIATELY SHUT DOWN. THE FAILED SELENIUM SURGE SUPPRESSORS WERE REPLACED AND THE DIESEL PLACED BACK IN SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, COMPONENT + CONTROL SYSTEM + EMERGENCY POWER, ELECTRIC + REFUELING + TEST, SYSTEM OPERABILITY + QUAD CITIES 2 (BMR) + ENGINES, INTERNAL COMBUSTION + GENERATOR, DIESEL + ELECTRONIC FUNCTION UNITS

102251
MAIN STEAM ISOLATION VALVE LEAK RATES EXCEED LIMIT AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
6 PAGES, LETTER WITH ACR 75/32 TO NRC DIR. OF LICENSING REGULATION, APRIL 22, 1975, DOCKET 50-265, TYPE--BMR, MFG--G.E., AE--SGT E LUNDY

CAUSE - SLIGHT WARPAGE OF SEAT. MAIN STEAM ISOLATION VALVE LOCAL LEAK RATE TESTING DURING THE REFUELING OUTAGE REVEALED EXCESSIVE LEAKAGE IN 3 LINES. UNEVEN HEATING OF THE VALVE SEAT PRODUCES A SMALL WARPAGE WHICH EVENTUALLY LEADS TO A SLIGHT FRICTION OF THE STELLITE MATERIAL. THE VALVES WERE MACHINED TO ELIMINATE THE WARPAGE. SATISFACTORY LEAK RATE TESTS WERE THEN OBTAINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BMR) + VALVES + CONTAINMENT ISOLATION + MAIN COOLING SYSTEM + STEAM + TEST, SYSTEM OPERABILITY + LEAK RATE + TEST, LEAK RATE + REFUELING

102260
MPC TURBINE EXHAUST CHECK VALVE LEAKS AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
4 PAGES, LETTER WITH ACR 75/1 TO NRC DIR. OF LICENSING REGULATION, APRIL 22, 1975, DOCKET 50-265, TYPE--BMR, MFG--G.E., AE--SGT E LUNDY

CAUSE - LEAKAGE BETWEEN SEAT AND DISC. LEAK RATE TESTING DURING THE REFUELING OUTAGE SHOW EXCESSIVE LEAKAGE THROUGH A HIGH PRESSURE COOLANT INJECTION SYSTEM STEAM EXHAUST CHECK VALVE. THE LEAKAGE WAS BETWEEN THE VALVE BODY SEAT RING AND THE DISC. VALVE SEATS WERE REMACHINED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

102260 PC CONTINUOUS
QUAD CITIES 2 (BWR) • VALVE, CHECK • LEAK RATE • MPC1 • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • REFUELING

102261
PERSONNEL AIR LOCK DOOR SEALS LEAK EXCESSIVELY AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
4 PAGES, LETTER WITH ACR 75/3 TO NRC DIR. OF LICENSING REGULATION, APRIL 22, 1975, DOCKET 50-265, TYPE--BWR,
MPG--G.E., AE--SGT & LUNDY

CAUSE - WORK PACKING. LEAK RATE TESTING OF THE JAYWELL PERSONNEL AIR LOCK PENETRATION DURING THE REFUELING OUTAGE SHOWED THE RATE TO BE 31 SCFM, WHICH EXCEEDS THE 10.36 SCFM LIMIT. SAMP BUZZER SOLUTION INDICATED LEAKAGE THROUGH PACKING ON THE EXTERIOR DOOR HAND WHEEL. THE WORK PACKING WAS REPLACED. LEAKAGE WAS THEN ZERO.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • PC CONTAINMENT AIR LOCK • SEAL • LEAK RATE • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • REFUELING • FAILURE, COMPONENT

102262
FRESHWATER CHECK VALVES LEAK EXCESSIVELY AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
4 PAGES, LETTER WITH ACR 75/6 TO NRC DIR. OF LICENSING REGULATION, APRIL 22, 1975, DOCKET 50-265, TYPE--BWR,
MPG--G.E., AE--SGT & LUNDY

CAUSE - FLOW BETWEEN SEAT RING AND BODY. TESTING OF THE FRESHWATER CHECK VALVES DURING THE REFUELING OUTAGE SHOWED 2 VALVES HAD LEAK RATES OF 97 AND 472 SCFM, WHICH EXCEEDS THE 10 SCFM LIMIT. THE SEALS WERE ALLOWING FLOW BETWEEN THE SEAT RING AND THE VALVE BODY. FOLLOWING INSTALLATION OF VITON SILICON RUBBER J-RINGS IN PLACE OF THE STAINLESS STEEL SEAL RINGS AND FINISHING OF THE VALVE SEATING SURFACES, LEAK RATES WERE BELOW LIMITS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • VALVE, CHECK • FRESHWATER • LEAK RATE • TEST, SYSTEM OPERABILITY • TEST, LEAK RATE • SEAL • FAILURE, OR TUN TROOP • REFUELING

102263
MAIN STEAM ISOLATION VALVE LEAK RATE HIGH AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
4 PAGES, LETTER WITH ACR 75/9 TO NRC DIR. OF LICENSING REGULATION, APRIL 22, 1975, DOCKET 50-265, TYPE--BWR,
MPG--G.E., AE--SGT & LUNDY

CAUSE - VALVE SEAT HARPAGE. LOCAL LEAK RATE TESTING ON LINE A MAIN STEAM ISOLATION VALVES DURING THE REFUELING OUTAGE YIELDED A COMBINED LEAKAGE OF 259 SCFM FOR THE 2 VALVES. BECAUSE THE INBOARD VALVE WAS REPAIRED 4 WEEKS EARLIER, THE OUTBOARD VALVE WAS SUSPECTED. UNEVEN HEATING HAD PRODUCE A SMALL HARPAGE OF THE SEAT WHICH LED TO A SLIGHT EROSION OF THE STREILITE MATERIAL. AFTER THE VALVE WAS MACHINED TO ELIMINATE HARPAGE, THE LEAK RATE WAS ESSENTIALLY ZERO.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • VALVES • CONTAINMENT ISOLATION • MAIN COOLING SYSTEM • LEAK RATE • TEST, SYSTEM OPERABILITY • REFUELING • TEST, LEAK RATE

102264
FLUID INSTRUMENT CHECK VALVES FAIL AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
2 PAGES, LETTER WITH ACR 75/12 TO NRC DIR. OF LICENSING REGULATION, APRIL 23, 1975, DOCKET 50-265, TYPE--BWR,
MPG--G.E., AE--SGT & LUNDY

CAUSE - WEAR SPRINGS AND PITTED POPPETS. DURING A REACTOR HYDROSTATIC PRESSURE TEST WHILE THE UNIT WAS IN COLD SHUTDOWN, 2 CHECK VALVES FAILED TO CHECK AND ONE LEAKED EXCESSIVELY. ALL 3 VALVES HAD WEAR SPRINGS AND PITTED POPPETS. NEW SPRINGS AND POPPETS WERE INSTALLED. ALSO, ONE VALVE SEAT REQUIRED LAPPING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • VALVE, CHECK • LEAK • TEST, SYSTEM OPERABILITY • TEST, PROOF • INSTRUMENTS, MISC. • FAILURE, COMPONENT

102549
MPC1 SYSTEM CONTROL VALVE FAILS TO OPEN AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS

102547 CONTINUED
3 PAGES, LETTER WITH AIR 75-16 TO NRC DIRECTORATE OF LICENSING REGULATION, APRIL 20, 1975, DOCKET 50-265, TYPE--
-DNR, MFG-G.E., AE--SGT E LUNDY

CAUSE - PRESSURE SWITCH SETTING LOW. DURING RUCS TESTING WITH THE UNIT SHUTDOWN FOR REFUELING, THE HPCI SYSTEM FAILED TO START. THE HPCI AUXILIARY OIL PUMP WAS CYCLING ON AND OFF AND THE EMERGENCY PUMP STARTED. THE OPERATOR MANUALLY STARTED THE AUXILIARY OIL PUMP AND THE HPCI SYSTEM STARTED SUCCESSFULLY. DUE TO PRESSURE SWITCH SETTINGS, THE EMERGENCY OIL PUMP STARTED ON LOW PRESSURE ON THE BEARING LUBRICATION HEADER. THIS RAISED THE PRESSURE ON THE HYDRAULIC CONTROL SYSTEM HEADER TO TURN THE AUXILIARY PUMP OFF. THIS DROPPED HYDRAULIC CONTROL SYSTEM HEADER PRESSURE CAUSING THE AUXILIARY PUMP TO RESTART. PRESSURE SWITCH SETTINGS WERE ADJUSTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 2 (DNR) + HPCI + VALVES + CONTROL + HYDRAULIC SYSTEM + INSTRUMENT, SWITCH + OSET PUMP + CYCLING
+ FAILURE, MAINTENANCE ERROR + SENSORS, PRESSURE + REFUELING

102550
CORE SPRAY PUMP FAILS TO START DURING THE FIRST TEST PHASE AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PAGES, LETTER WITH AIR 75-13 TO NRC DIRECTORATE OF LICENSING REGULATION, APRIL 20, 1975, DOCKET 50-265, TYPE--
-DNR, MFG-G.E., AE--SGT E LUNDY

CAUSE - LOOSE TERMINAL CONNECTION. WHILE THE UNIT WAS SHUTDOWN FOR REFUELING, CORE SPRAY PUMP 20 FAILED TO AUTO START WHEN THE REACTOR VESSEL WATER LO-LO LEVEL SIGNAL WAS SIMULATED. AFTER BUS 24-1 WAS TRIPPED AND DIESEL GENERATOR 2 AUTO CLOSED INTO BUS 24-1, THE PUMP AUTO STARTED. THE CAUSE WAS A LOOSE TERMINAL CONNECTION ON A CONTROL PANEL. THE LOOSE CONNECTION WAS TIGHTENED. THE PUMP WAS THEN SUCCESSFULLY TESTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 2 (DNR) + PUMPS + CORE SPRAY + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + CABLES
AND CONNECTIONS + REFUELING

102602
CHLORIDE CONCENTRATION EXCEEDS LIMIT DURING STARTUP AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PAGES, LETTER WITH AIR 75-15 TO NRC DIR. OF LICENSING REGULATION, MAY 5, 1975, DOCKET 50-265, TYPE--DNR, MFG--
-G.E., AE--SGT E LUNDY

CAUSE - CONDENSER TUBE LEAKAGE. THE UNIT WAS BEING STARTED UP FOLLOWING CYCLE 1 REFUEL OUTAGE. THE REACTOR WAS MADE CRITICAL WHILE THE CHLORIDE CONCENTRATION WAS 3.295 PPM. THIS VIOLATED THE 0.1 PPM LIMIT FOR STARTUP. THE PLUG IN A PREVIOUSLY IDENTIFIED LEAKING CONDENSER TUBE HAD COME OUT, THUS ALLOWING COOLING WATER INLEAKAGE INTO THE HOTWELL. THE TUBE WAS REPLUGGED AND THE CHLORIDE CONCENTRATION REDUCED TO 0.33 PPM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 2 (DNR) + CHLORIDE + CONCENTRATION + REACTOR COOLANT + COOLANT QUALITY + CONDENSER + REACTOR
STARTUP + FAILURE, TUBING

102646
OFF GAS RELEASE CAUSED BY FLUX PEAKING AT QUAD CITIES 2
NUCLEAR REGULATORY COMMISSION, WASHINGTON
3 PAGES, OFFICE OF INSPECTION & ENFORCEMENT NOTIFICATION OF AN INCIDENT IN OCCURRENCE NO. 151, MAY 23, 1975,
DOCKET 50-265, TYPE--DNR, MFG-G.E., AE--SGT E LUNDY

CAUSE - UNKNOWN. THE PLANT, WHICH HAD BEEN SHUT DOWN TO REPAIR A LEAK IN THE FEEDWATER SYSTEM, WAS BEING STARTED UP WHEN SEVERAL OF THE NUCLEAR LOCAL POWER RANGE MONITORS INDICATED HIGHER THAN MINIMAL NEUTRON FLUX LEVEL. CONTROL RODS WERE REPOSITIONED TWICE TO CORRECT THIS. TWO AIR EJECTION OFF GAS SPIRES OCCURRED IN A SHORT PERIOD OF TIME - 900,000 AND 1,200,000 MICROCURIES/SEC RESPECTIVELY. EIGHT CONTROL RODS WERE INSERTED FURTHER AND REACTOR POWER REDUCED FROM 700 TO 390 MWE. POWER IS BEING RAISED SLOWLY TO 700 MWE TO INVESTIGATE THE CAUSE OF THE POWER PEAK. OFF-GAS RATES ARE HIGHER THAN NORMAL INDICATING SOME FUEL DAMAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 2 (DNR) + POWER DISTRIBUTION + AIRBORNE RELEASE + OFF GAS + FAILURE, FUEL ELEMENT + FUEL ELEMENTS
+ DAMAGE + REACTOR TRANSIENT + FLUX TILT

102676
REACTOR VESSEL LOW PRESSURE ALARM AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PAGES, LETTER WITH AIR 75-16 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 23, 1975, DOCKET 50-265, TYPE--
-DNR, MFG-G.E., AE--SGT E LUNDY

103076 *CONTINUOUS

CAUSE - ISOLATION VALVE CLOSED. WHILE OPERATING AT NORMAL PRESSURE, A REACTOR VESSEL LOW PRESSURE ALARM WAS RECEIVED. SURVEILLANCE TESTING HAD BEEN PERFORMED THAT DAY WHICH REQUIRED ISOLATION OF THE PRESSURE SWITCH. UPON COMPLETION OF THE TEST, THE MECHANIC INADVERTENTLY LEFT THE SWITCH VALVE OUT. WHEN THE ISOLATION SWITCHES WERE OPENED, THE ALARM CLEARED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) * PANNINGATORS * PRESSURE, INTERNAL * MAIN COOLING SYSTEM * FAILURE, MAINTENANCE ERROR * VALVES * CONTAINMENT ISOLATION * SENSORS, PRESSURE * PRESSURE VESSELS

103096

CLAMPUP SYSTEM PIPE WELD LEAKS AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER WITH AN REPORT 75-19 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 30, 1975, Docket 50-265, TYPE--BWR, NRG--G.E., AE--SGT & LUNDY

CAUSE - VIBRATION STRESSOR WELD. WHILE OPERATING AT 712 MWE, THE REACTOR BUILDING VENT SYSTEM AIR ACTIVITY INCREASED SIGNIFICANTLY. A STEAM LEAK WAS FOUND IN A 3/4 IN. TEST CONNECTION WELD FROM THE 3/4 IN. LINE TO THE WELD-ON-LET ON THE 4-IN. LINE. A VIBRATION STRESSOR WELD WAS THE APPARENT CAUSE. A CRACK OCCURRED IN THE WELD-AFFECTED ZONE. THE TEST CONNECTION WAS REMOVED TO THE AFFECTED WELD AND A WELD PLUG INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) * WELDS * PIPES AND PIPE FITTINGS * COOLANT PURIFICATION SYSTEM * AIRBORNE RELEASE * FAILURE, PIPE * VIBRATION * STRESS * CRACK

103462

UNPLANNED OFF GAS RELEASE AND PROBABLE FUEL FAILURE AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

5 PAGES, LETTER WITH AN REPORT 75-17 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 30, 1975, Docket 50-265, TYPE--BWR, NRG--G.E., AE--SGT & LUNDY

CAUSE - ABNORMALLY HIGH POWER PEAKING. DURING A NORMAL STARTUP FOLLOWING A 24 HOUR FORCED OUTAGE, LPM HI ALARMS WERE NOTED AS POWER WAS BEING INCREASED. CONTROL ROD GROUP 1J3 WAS BARRING AT POSITION 40. THE HI-HI OFF GAS ALARM WAS RECEIVED. LOAD WAS DECREASED FROM 700 TO 600 MWE. THE CAUSE WAS A LOCAL POWER LEVEL INCREASE AT A RATE GREATER THAN THAT WHICH WOULD ALLOW THE FUEL PELLET TO CLADDING STRESSES TO RELAX WITHOUT CLADDING FAILURE. NO FUEL SAFETY LIMITS WERE EXCEEDED. PERSONNEL ERROR WAS A CONTRIBUTING CAUSE. MODIFICATION OF THE CONTROL ROD SEQUENCE MAY HAVE PREVENTED THE DAMAGE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) * AIRBORNE RELEASE * OFF GAS * FAILURE, CLADDING * CLADDING * REACTOR STARTUP * FAILURE, EQUIPMENT * RATE * FUEL INTEGRITY * FUEL ELEMENTS

103479

STANDBY GAS TREATMENT SYSTEM INLET VALVE FAILS TO OPEN AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH AN REPORT 75-18 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, MAY 30, 1975, Docket 50-265, TYPE--BWR, NRG--G.E., AE--SGT & LUNDY

CAUSE - SKEWED BOLTS. TRAIN B OF THE SGT SYSTEM WAS STARTED BY SIMULATED AUTO INITIATION ON UNIT 1. A SPURIOUS AUTO INITIATION SIGNAL WAS RECEIVED BY UNIT 1 WHICH CLOSED THE 1 INLET VALVE AND TRIED TO OPEN THE 2 INLET VALVE. THE 2 INLET VALVE FAILED TO OPEN BECAUSE THE BOLTS WHICH HOLD THE MOTOR IN THE MOTOR OPERATION HAD SKEWED. TRAIN B TRIPPED ON LOW FLOW. TRAIN A STARTED BUT BOTH INLET VALVES REMAINED CLOSED DUE TO THE VALVE FAILURE AND AN INTERLOCK IN THE LOGIC. THE BROKEN BOLTS WERE REPLACED. BOTH VALVES WERE TAKEN OUT OF SERVICE IN THE OPEN POSITION UNTIL THE LOGIC DESIGN IS MODIFIED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) * VALVES * STANDBY GAS TREATMENT * FAILURE, DESIGN ERROR * CONTROL SYSTEM * FAILURE, COMPONENT * VALVE OPERATIONS * FASTENER

103498

FURTHER INFORMATION ON VALVE BINDING AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

2 PAGES, LETTER WITH AN REPORT 75-202-48 VALVE WAS REPAIRED. SCUMING WAS OBSERVED ON THE STEM. THE MIDDLE PACKING STUFFING BOX WAS OUT OF ALIGNMENT, CAUSING THE VALVE STEM TO BIND. THIS LED TO EXCESSIVE

103458 PCJNTXCEJ0

ELECTRICAL CURRENT TO CLOSE THE VALVE. ALL MARKS ON THE VALVE STEM WERE SMOOTHED. THE VALVE WAS REPACKED. IT THEN OPERATED PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (DNR) • VALVES • FAILURE, MAINTENANCE ERROR • MAINTENANCE AND REPAIR • SEAL

103465

SINGLE VALVE FAILURE MADE STANDBY GAS TREATMENT SYSTEM INOPERABLE AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CURUCVA

2 PAGES, LETTER WITH AOR 75-10 TO NRC OFFICE OF NUCLEAR REGULATION, JUNE 20, 1975, DOCKET 50-265, TYPE--BMR, NRC--G.E., AE--SGT & LUNDY

CAUSE - DESIGN DEFICIENCY. WHILE THE UNIT WAS OPERATING, IT WAS DISCOVERED THAT FAILURE OF A VALVE COULD PREVENT OPERATION OF THE STANDBY GAS TREATMENT SYSTEM. FOR THE PRESENT SYSTEM LOGIC DESIGN, AN AUTO INITIATION SIGNAL FOR ONE UNIT AUTOMATICALLY CLOSES THE INLET VALVE TO THE SOGT SYSTEM FOR THE OTHER UNIT. IF THE INLET VALVE FOR THE INITIATING UNIT FAILS, NO INLET VALVE AT ALL IS OPEN TO THE SYSTEM. THIS VIOLATES THE SINGLE FAILURE CRITERIA. WITH INLET VALVES HAVE BEEN TAKEN OUT OF SERVICE IN THE OPEN DIRECTION UNTIL A MODIFICATION CAN BE MADE TO THE LOGIC SYSTEM.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (DNR) • PCJNTXCEJ0 SYSTEM • STANDBY GAS TREATMENT • FAILURE, DESIGN ERROR • MODIFICATION • SINGLE FAILURE CRITERION

104054

TORUS VACUUM BREAKER FOUND INOPERABLE AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CURUCVA

3 PAGES, LETTER WITH AOR 75-20 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 2, 1975, DOCKET 50-265, TYPE--BMR, NRC--G.E., AE--SGT & LUNDY

CAUSE - FOULED BUSHINGS. DURING TESTING OF THE REACTOR BUILDING TO SUPPRESSION CHAMBER VACUUM BREAKERS WHILE OPERATING AT 2023 MW, A TORQUE OF ABOUT 90 FT LBS WAS REQUIRED TO MOVE THE COUNTERWEIGHT. THE LIMITING TORQUE IS 50 FT LBS. THE SWING GATE BUSHINGS WERE FOULED. THE PACKING WAS REPLACED AND THE TEFLOM BUSHING CLEANED. THE CHECK VALVE THEN SWUNG FREELY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (DNR) • PCJNTXCEJ0 VACUUM BREAKER • BUILDING • TORUS • TEST, SYSTEM OPERABILITY • BEARING • GATE • FAILURE, EQUIPMENT

104080

SUPPRESSION CHAMBER VACUUM BREAKERS FAIL TO OPEN AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CURUCVA

3 PAGES, LETTER WITH AOR 75-21 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 8, 1975, DOCKET 50-265, TYPE--BMR, NRC--G.E., AE--SGT & LUNDY

CAUSE - DEFECTIVE SOLENOIDS. WHILE TESTING WITH THE REACTOR AT 450 MWE, BOTH PRESSURE SUPPRESSION CHAMBER TO REACTOR BUILDING VACUUM BREAKERS FAILED TO OPEN FROM THE CONTROL ROOM. WHEN THE VACUUM BREAKER SOLENOIDS WERE TAPPED, THE VALVES OPENED. THE RUBBER SEATS IN THE SOLENOID CAPS WERE FOUND TO BE WORN. THIS PREVENTED THE SOLENOID MECHANISM FROM GIVING AN AIR SIGNAL TO THE 4-WAY VERSA PILOT VALVE. THE DEFECTIVE SOLENOIDS WERE REPLACED AND THE VACUUM BREAKERS OPERATED PROPERLY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (DNR) • PCJNTXCEJ0 VACUUM BREAKER • TEST, SYSTEM OPERABILITY • FAILURE, COMPONENT • FAILURE, EQUIPMENT • SOLENOID • TORUS • BUILDING

104730

SET POINT DRIFT IN DRYWELL PRESSURE SWITCHES AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CURUCVA, ILL.

2 PGS, LTR #AOR 75-22 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 24, 1975, DOCKET 50-265, TYPE--BMR, NRC--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT INIT. DURING TESTING WITH THE REACTOR AT 1944 MW, 2 OF 4 HIGH DRYWELL PRESSURE SWITCHES TRIPPED AT 2.05 PSIG, WHICH EXCEEDS THE 2.0 PSIG LIMIT. 12N-A49-PP SWITCHES WERE RESET TO 1.90 PSIG. NO CAUSE FOR THE INSTRUMENTS FOUND.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (DNR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM

104720 CONTINUED

OPERABILITY • FAILURE, INSTRUMENT • RESET POINT • ADJUST • REACTOR SAFETY SYSTEM • CONTAINMENT

104720

HIGH DRYWELL PRESSURE SWITCH FAILS TO OPERATE AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CAROLINA, ILL.

3 PGS, LTR W/ADR 75-23 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 25, 1975, DOCKET 50-265, TYPE--BWR, NRG--G.E., AE--SGT E LUNDY

CAUSE - PLUGGED PULSATION DAMPENER. DURING SURVEILLANCE WITH THE REACTOR AT 1900 MW, A HIGH DRYWELL PRESSURE SWITCH FAILED TO OPERATE. IT WAS REPLACED WITH A NEW ONE. THE REPLACEMENT ALSO FAILED. THE PRESSURE PULSATION DAMPENER WAS PLUGGED WITH DIRT AND SCALES WHICH ISOLATED THE SWITCH FROM THE REST OF THE SYSTEM. THE DAMPENER WAS CLEANED AND THE SWITCH RETURNED TO SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM OPERABILITY • FAILURE, INSTRUMENT • PURGIFY • PURGE • CONTAINMENT • REACTOR SAFETY SYSTEM

104836

REACTOR FEEDWATER SYSTEM FLUSHING LINE CRACKED AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CAROLINA, ILL.

1 PG, LTR TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 29, 1975, DOCKET 50-265, TYPE--BWR, NRG--G.E., AE--SGT E LUNDY

CAUSE - IMPROPER BLENDING OF FILLET WELD. A SEARCH FOR LEAKS WAS INITIATED DUE TO EXCESSIVE OPERATION OF REACTOR BUILDING FLOOR DRAIN SUMP PUMP. LEAK WAS LOCATED ON THE REACTOR FEEDWATER FLUSHING LINE AT THE POINT WHERE IT IS WELDED TO THE MAIN FEED HEADER. THE REACTOR WAS SHUT DOWN. IMPROPER BLENDING OF A FILLET WELD AT THE PIPE TO REINFORCING PLATE JOINT CAUSED A STRESS POINT RESULTING IN CRACKING. AN 8 INCH SECTION OF PIPE CONTAINING THE CRACK WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • PIPES AND PIPE FITTINGS • FEEDWATER • LEAK • FAILURE, PIPE • WELDS • STRESS • FAILURE, INSTALLATION ERROR • REACTOR SHUTDOWN

104839

HYDRAULIC SHOCKERS FOUND WITH EMPTY OIL RESERVOIRS AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CAROLINA, ILL.

3 PGS, LTR W/ADR 75-25 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, JULY 31, 1975, DOCKET 50-265, TYPE--BWR, NRG--G.E., AE--SGT E LUNDY

CAUSE - LEAKS. DURING SURVEILLANCE WHILE THE UNIT WAS IN COLD SHUTDOWN FOR MAINTENANCE, 2 HYDRAULIC SHOCKERS WERE FOUND TO HAVE EMPTY OIL RESERVOIRS. A GRINNELL SHOCKER WAS REPAIRED BY TIGHTENING THE FITTINGS THAT ALLOWED THE OIL TO LEAK OUT. A BENGEN-PATERSON SHOCKER WAS REPLACED WITH A REBUILT UNIT. IT WILL BE REPAIRED IN THE FUTURE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • SHOCK ABSORBER • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • SURVEILLANCE PROGRAM • FAILURE, EQUIPMENT • LEAK

104971

OXYGEN LEVEL IN PRIMARY CONTAINMENT HIGH AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, ILLINOIS

3 PAGES, LETTER WITH AD REPORT 75-26 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 6, 1975, DOCKET 50-265, TYPE--BWR, NRG--G.E., AE--SGT E LUNDY

CAUSE - LEAK IN INERTING SYSTEM. TWENTY-FOUR HOURS AFTER A UNIT STARTUP THE OXYGEN LEVEL OF THE SUPPRESSION CHAMBER WAS 88 AND THE DRYWELL WAS 98, THUS EXCEEDING THE 48 LIMIT. A LEAK HAD DEVELOPED AT A FLANGE IN THE NITROGEN INERTING SYSTEM DUE TO A GASKET FAILURE. THIS LEAK WAS OF SUFFICIENT SIZE THAT THERE WAS AN INADEQUATE SUPPLY OF NITROGEN REACHING THE PRIMARY CONTAINMENT. THE GASKET WAS REPLACED. INERTING WAS COMPLETED 23 HOURS LATER.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • OXYGEN • CONCENTRATION • FAILURE, COMPONENT • SEAL • LEAK • CONTAINMENT ATMOSPHERE, INERT

104988

BWR SYSTEM SERVICE WATER PUMP FLOW RATE LESS THAN LIMIT AT QUAD CITIES 2

COMMONWEALTH EDISON COMPANY, CAROLINA, ILL.

3 PGS, LTR W/ADR 75-28 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 8, 1975, DOCKET 50-265, TYPE--BWR,

104900 PLANTINGUP
NRC--G.E., AE--SUT & LUNDY

CAUSE - DEBRIS IN SUCTON AND IMPELLER. DURING TESTING OF HIGH SERVICE WATER PUMP 2A WITH THE REACTOR AT 1900 MWt, THE PUMP FLOW WAS 2800 GPM AT 190 PSIA. TECH SPECS REQUIRE 3500 GPM AT 190 PSIA. AN ACCUMULATION OF DEBRIS CONSISTING OF PIECES OF WOOD LOGGED IN THE PUMP SUCTON AND IMPELLER WERE FOUND. AFTER CLEARING, THE FLOW RATE WAS 3600 GPM AT 200 PSIA DURING A RETEST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (UNIT) * FLOW * RATE * PUMPS * AUXILIARY COOLING * TEST, SYSTEM OPERABILITY * CRUD * FAILURE, MAINTENANCE ERROR * SHUTDOWN COOLING SYSTEM * FAILURE, EQUIPMENT

104900
MPCI SYSTEM PUMP FLOW LESS THAN LIMIT AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, CURUCVA
3 PGS. LTR W/AGR 75-27 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUGUST 16, 1975, DOCKET 50-265, TYPE--BWR.
NRC--G.E., AE--SUT & LUNDY

CAUSE - CONTROL LINKAGE OUT OF ADJUSTMENT. DURING TESTING OF THE HIGH PRESSURE COOLANT INJECTION SYSTEM WITH THE REACTOR OPERATING AT 600 MWt, THE PUMP FLOW RATE WAS MEASURED TO BE 4840 GPM INSTEAD OF THE REQUIRED 5000 GPM. THE SPEED CONTROL LINKAGE WAS NOT PROPERLY RESTRAINED TO MAINTAIN THE ADJUSTMENT NECESSARY TO ALLOW THE TURBINE TO OPERATE AT HIGH ENOUGH SPEED. THE PILOT VALVE LEVER WAS IMPROPERLY PLACED DURING INITIAL INSTALLATION. IT WAS ADJUSTED PROPERLY. FLOW RATE EXCESS OF 5000 GPM WERE ACHIEVED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (UNIT) * PUMPS * FLOW * RATE * TEST, SYSTEM OPERABILITY * MPCI * FAILURE, INSTALLATION ERROR

105044
SET POINT SHIFT IN TEMPERATURE SENSORS AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, ILLINOIS
3 PGS. LTR WITH AQ REPORT 75-29 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 8, 1975, DOCKET 50-265, TYPE--BWR, NRC--G.E., AE--SUT & LUNDY

CAUSE - IMPROPER TYPE FOR DUTY. WHILE INVESTIGATING THE CAUSE OF A MPCI SUBSYSTEM ISOLATION WITH THE REACTOR AT 1935 MWt, PERSONNEL FOUND 4 OF THE 16 MPCI AREA HIGH TEMPERATURE SENSORS TRIPPED ABOVE THE 200 F LIMIT. THE AS FOUND SETTING RANGED FROM 210 TO 235 F. IT IS FELT THAT THIS PENNAL MODEL 17023-B TEMPERATURE SENSOR IS NOT PROPERLY DESIGNED FOR THE TYPE OF DUTY FOR WHICH IT IS BEING USED. THE SWITCHES WERE RECALIBRATED AND RETURNED TO SERVICE. THESE SWITCHES HAVE CAUSED PROBLEMS IN THE PAST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (UNIT) * INSTRUMENT, SWITCH * INSTRUMENT CALIBRATION * SENSORS, TEMPERATURE * TEST, SYSTEM OPERABILITY * FAILURE, INSTRUMENT * SET POINT * SHIFT * FAILURE, DESIGN ERROR * MPCI * COMPARTMENT

105181
EGCS LOW PRESSURE SWITCH FOUND VALVED OUT AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, CURUCVA
4 PGS. LTR W/AGR 75-30 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 21, 1975, DOCKET 50-265, TYPE--BWR, NRC--G.E., AE--SUT & LUNDY

CAUSE - OPERATOR ERROR. DURING TESTING OF THE EMERGENCY CORE COOLING SYSTEM LOW PRESSURE PERMISSIVE SENSORS WITH THE REACTOR AT 1765 MWt, A PRESSURE SWITCH WAS DISCOVERED IN THE ISOLATED CONDITION. THE SWITCH WAS IMMEDIATELY UNISOLATED. THE INSTRUMENT MECHANIC INADVERTANTLY LEFT THE VALVE CLOSED AFTER THE LAST TEST.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (UNIT) * INSTRUMENT, SWITCH * TEST, SYSTEM OPERABILITY * SENSORS, PRESSURE * EMERGENCY COOLING SYSTEM * FAILURE, MAINTENANCE ERROR * VALVES * CONTAINMENT ISOLATION * PROCEDURES AND MANUALS

105540
LOW FLOW FEEDWATER LINE SEVERED AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, CURUCVA
4 PGS. LTR W/AGR 75-31 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, AUG. 21, 1975, DOCKET 50-265, TYPE--BWR, NRC--G.E., AE--SUT & LUNDY

CAUSE - VIBRATION. DURING STARTUP WHILE TRANSFERRING FEEDWATER CONTROL FROM THE LOW FLOW FEED REGULATING VALVE TO THE MAIN REGULATING VALVE, VIBRATION OCCURRED WHICH BROKE THE BODY OF A 4 X 6 INCH REDUCER ON THE DOWNSTREAM SIDE OF THE LOW FLOW VALVE. THE UNIT WAS MANUALLY SCRAMMED AND REGULATING STATION ISOLATED. ABOUT 12,500 GALLONS OF WATER WAS RELEASED OF WHICH 2,900 FLOWED TO THE OIL SEPARATOR. FLOW SNUBBERS WERE ADDED TO THE REGULATING STATION TO REDUCE VIBRATION. NEW

105560 CONTINUUM

REWORKS WERE INSTALLED ON BOTH SIDES OF THE LOW FLOW REGULATING VALVE. CRACKS IN THE LOW FLOW PIPING TO THE MAIN FREEDWATER LINE WERE ALSO REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • FREEDWATER • PIPES AND PIPE FITTINGS • FAILURE, PIPE • VIBRATION • FAILURE, DESIGN ERROR • FAILURE, FATIGUE • RADIOACTIVITY RELEASE • CRACK • REACTOR SHUTDOWN

105845

HYDRAULIC SHUTTERS FOUND INOPERABLE AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, COLUMBIA

4 PGS. LETTER WITH AOR 50-265/75-35 TO NRC DIRECTOR OF OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 3, 1975. DCKET 50-265, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - LEAKS IN FITTINGS. DURING ROUTINE SURVEILLANCE OF HYDRAULIC SHUTTERS WITH THE UNIT SHUTDOWN, ONE GAINRELL AND ONE BEAGIN PATERSON SHUTTER WERE FOUND TO HAVE EMPTY TIL RESERVOIRS. THE SHUTTERS HAD LEAKING FITTINGS AND ACCUMULATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • OTHER SHUTTER • SUPPORT STRUCTURE • PIPES AND PIPE FITTINGS • SURVEILLANCE PROGRAM • FAILURE, MAINTENANCE ERROR • LEAK • LUBRICATION • FAILURE, EQUIPMENT

105843

UNCONTROLLED RELEASE OF RADIOACTIVITY FROM OIL SEPARATION PIT AT QUAD CITIES 2
COMMONWEALTH EDISON COMPANY, COLUMBIA

5 PGS. LETTER WITH AOR 50-265/75-35 TO NRC DIRECTOR OF OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 4, 1975. DCKET 50-265, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - RAINFALL. THE OIL SEPARATION PIT CONTAINED CONTAMINATED WATER FROM A PREVIOUSLY REPORTED BREAK IN THE FREEDWATER LOW FLOW LINE. WATER WAS BEING DISCHARGED ON A BATCH CONTROL BASIS. DURING A RAIN, THE PIT WATER VOLUME INCREASED SINCE STORM DRAINS GO TO THE OIL SEPARATOR. THE PIT FILLED AND OVERFLOWED INTO THE SPRAY CANAL CAUSING AN UNCONTROLLED RELEASE OF RADIOACTIVITY FROM THE SITE. TO PREVENT RECURRENCE, ANY CONTAMINATED WATER WILL BE FLUSHED FROM THE SEPARATOR UNDER CONTROLLED RELEASES. THE FLOW DRAINS THAT WERE THE ORIGINAL SOURCE OF CONTAMINATED WATER HAVE BEEN CAPPED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • FREEDWATER • CONTAMINATION • FAILURE, DESIGN ERROR • SEPARATOR • RADIOACTIVITY RELEASE

106333

HIGH PRESSURE COOLANT INJECTION SYSTEM FOUND INOPERABLE AT QUAD CITIES 2
COMMONWEALTH EDISON, ILL.

4 PGS. LETTER WITH AOR 50-265/75-35 TO NRC DIRECTOR OF OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 9, 1975. DCKET 50-265, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - FLEXIBLE OIL LINE FAILURE. WHILE TESTING THE HPCI SYSTEM DUE TO A FAILURE OF THE RCIC SYSTEM WITH THE REACTOR AT 608 POWER, THE HPCI SYSTEM WAS FOUND INOPERABLE. THE AUXILIARY OIL PUMP KEPT TRIPPING PREVENTING THE HPCI TURBINE FROM STARTING. THE FLEXIBLE OIL LINE INSIDE THE OIL STORAGE TANK BROKE CAUSING THE AUXILIARY LUBE OIL PUMP TO TRIP. THE BROKEN OIL LINE WAS REPLACED WITH THE SAME TYPE OF LINE. WHEN THE SYSTEM WAS FOUND INOPERABLE, A REACTOR SHUTDOWN WAS STARTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) • HPCI • FAILURE, COMPONENT • TRIPPING • LUBRICATION • REACTOR SHUTDOWN • TEST, SYSTEM OPERABILITY

106335

RCIC TURBINE MALFUNCTIONED AT QUAD CITIES 2
COMMONWEALTH EDISON, ILL.

3 PGS. LETTER WITH AOR 50-265/75-34 TO NRC DIRECTOR OF OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 9, 1975. DCKET 50-265, TYPE--BWR, NRC--G.E., AE--SGT & LUNDY

CAUSE - WORN OVERSPEED TRIP MECHANISM. DURING REACTOR CORE ISOLATION COOLING SYSTEM TESTING WHILE OPERATING AT 608 POWER, THE RCIC TURBINE KEPT TRIPPING AT 3500 RPM, THUS LIMITING PUMP OUTPUT TO 350 GPM. THE TECH SPEC LIMIT IS 400 GPM. HPCI SYSTEM WAS TESTED IMMEDIATELY AND FOUND INOPERABLE. A UNIT SHUTDOWN WAS COMMENCED. WEARING OF A NUT IN THE MECHANICAL OVERSPEED TRIP MECHANISM CAUSED THE TURBINE TO TRIP AT 3500 RPM. THE FACE OF THE NUT, WHICH CONTACTS A LEVER, HAD WORN SUFFICIENTLY TO GIVE THE PREMATURE TRIP. THE EMERGENCY TAPPET NUT WAS REPAIRED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

106335 - CONTINUED
CHARGE \$2.00

QUAD CITIES 2 (BWR) + PUMPING + CONTAINMENT ISOLATION + PUMPING + FAILURE, COMPONENT + REACTOR SHUTDOWN

106332
THREE SMALL PIPES IN FEEDWATER SYSTEM FAIL AT QUAD CITIES 2
COMMONWEALTH EDISON, ILL.
4 PAGES, LETTER WITH HQ 50-265/75-36 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, SEPT. 10, 1975.
DOCKET 50-265, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - EXCESSIVE VIBRATION. WHILE DECREASING LOAD DURING AN ORDERLY UNIT SHUTDOWN, EXCESSIVE VIBRATION OCCURRED IN THE FEEDWATER SYSTEM CAUSING THE FEEDWATER REGULATING VALVE TO OPEN FULLY. THE UNIT SCRAMMED FROM REACTOR VESSEL HIGH WATER LEVEL. THE VIBRATION ALSO CAUSED 2 FEEDWATER LOW FLOW URINAL LINES (3/4 INCH) AND A BYPASS LINE (3/4 INCH) AROUND THE INLET VALVE FOR THE HIGH PRESSURE HEATER TO BREAK. THE MAIN LINES WERE WELDED AND BRACED. THE BYPASS LINE WAS REPLACED. THE PISTON-CYLINDER TYPE AIR ACTUATOR ON THE FEEDWATER REGULATING VALVE WAS REPLACED WITH A DIAPHRAGM OPERATOR IN AN ATTEMPT TO REDUCE VALVE OSCILLATIONS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FEEDWATER + PIPES AND PIPE FITTINGS + VALVES + CONTROL + FAILURE, DESIGN ERROR + FAILURE, PIPE + VIBRATION + SCRAM, REAL + REACTOR SHUTDOWN + MODIFICATION + QUAD CITIES 2 (BWR)

107224
FEEDWATER FLUSH LINE LEAKS AT QUAD CITIES 2
COMMONWEALTH EDISON, CURCUVA, ILL.
3 PGS, LTR W/AU 50-265/75-37 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 17, 1975, DOCKET 50-265, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - IMPROPER LINE SUPPORT. WHILE THE UNIT WAS IN COLD SHUTDOWN, AN INSPECTION REVEALED MINOR LEAKAGE FROM FEEDWATER FLUSH LINE IN THE AREA WHERE THE FLUSH LINE IS WELDED TO THE FEEDWATER LINE. THE FLUSH LINE WAS NOT ADEQUATELY SUPPORTED AND THUS EXPERIENCED VIBRATION DURING NORMAL OPERATION. THIS RESULTED IN FATIGUE FAILURE. THE OLD WELD MATERIAL WAS GROUND OUT AND THE PIPE REWELDED. A METAL REINFORCING SLEEVE WILL BE WELDED TO THE FLUSH LINE. PIPE SUPPORTS WILL BE ADDED TO DECREASE THE VIBRATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) + WELDS + PIPES AND PIPE FITTINGS + FEEDWATER + LEAK + FAILURE, PIPE + FAILURE, FATIGUE + FAILURE, DESIGN ERROR + VIBRATION + SUPPORT STRUCTURE

107490
SET POINT DRIFT IN DRYWELL PRESSURE SWITCHES AT QUAD CITIES 2
COMMONWEALTH EDISON, CURCUVA, ILL.
4 PGS, LTR W/AU 50-265/75-40 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 24, 1975, DOCKET 50-265, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - INSTRUMENT DRIFT. DURING TESTING WITH THE REACTOR IN COLD SHUTDOWN, 3 OF THE 4 HIGH DRYWELL PRESSURE SWITCHES WERE FOUND TO EXCEED THE SET POINT LIMIT OF 2.0 PSIG. THE AS-FOUND SET POINTS WERE 2.25 PSIG, 2.15 PSIG, AND 2.20 PSIG. THE CAUSE WAS INSTRUMENT DRIFT. THE STATIC-D-RING, MODEL 12N-AAS-PP, SWITCHES WERE RECALIBRATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) + INSTRUMENT, SWITCH + INSTRUMENT CALIBRATION + SENSORS, PRESSURE + TEST, SYSTEM OPERABILITY + FAILURE, INSTRUMENT + SET POINT + DRIFT + REACTOR SAFETY SYSTEM + CONTAINMENT

107510
CRACK INDICATIONS IN RECIRCULATION VALVE BYPASS LINE AT QUAD CITIES 2
COMMONWEALTH EDISON, CURCUVA, ILL.
4 PGS, LTR W/AU 50-265/75-38 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 24, 1975, DOCKET 50-265, TYPE--BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - NOT YET ESTABLISHED. ULTRASONIC TESTING OF ACCESSIBLE WELDS IN THE BYPASS PIPING LINES AROUND THE RECIRCULATION PUMP DISCHARGE VALVE FOUND A CRACK INDICATION ON LOOP B AT THE JUNCTION OF THE 4-IN BYPASS LINE WITH THE 20-IN DISCHARGE HEADER ON THE DOWNSTREAM SIDE OF THE VALVE IN THE HEAT AFFECTED ZONE. THE MODE OR CAUSE OF FAILURE HAS NOT BEEN ESTABLISHED. IT IS BELIEVED TO BE INTERGRANULAR STRESS ASSISTED CORROSION. EXISTING RECIRCULATION PUMP DISCHARGE VALVE BYPASS PIPING ON BOTH LOOPS WILL BE REMOVED. LOW CARBON STAINLESS STEEL (304L) SPINDLE PIECES WITH PIPE END CAPS WILL BE INSTALLED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

QUAD CITIES 2 (BWR) + FLOW, RECIRCULATION + MAIN COOLING SYSTEM + CRACK + FLOW + WELDS + STRESS CORROSION +

107510 *CONTINUED*
ULTRASONICS * FAILURE, PIPE * FAILURE, DESIGN ERROR * MODIFICATION * PIPES AND PIPE FITTINGS

107529
THREE HYDRAULIC SNAGGERS FOUND WITH EMPTY OIL RESERVOIRS AT QUAD CITIES 2
COMMONWEALTH EDISON CO., CONDUVA, ILL.
* PWS, LTR W/AD 50-265/75-34 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 26, 1975, DCKET 50-265, TYPE--
BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - LEAKS. DURING ROUTINE SURVEILLANCE WITH THE REACTOR IN COLD SHUTDOWN, 1 BERGEN-PATTERSON
AND 2 WINNELL HYDRAULIC SNAGGERS WERE FOUND TO HAVE EMPTY OIL RESERVOIRS. OIL LEAKS WERE FOUND
IN ALL THREE. THE WINNELL UNITS WILL BE REPLACED WITH NEW SPARES OR REPAIRED. THE BERGEN-
PATTERSON UNIT WAS ON THE 4-INCH RECIRCULATION LINE WHICH IS BEING REMOVED FROM SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

PSMCR ASSEMBLY * SUPPORT STRUCTURE * PIPES AND PIPE FITTINGS * SURVEILLANCE PROGRAM * FAILURE, EQUIPMENT *
LEAK * QUAD CITIES 2 (BWR)

107512
DIESEL GENERATOR FAILS AT QUAD CITIES 2
COMMONWEALTH EDISON CO., CONDUVA, ILL.
* PWS, LTR W/AD 50-265/75-41 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 27, 1975, DCKET 50-265, TYPE--
BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - SURGE SUPPRESSORS SHORTED OUT. WHILE DIESEL GENERATOR 2 WAS RUNNING FOR A TEST WITH THE
REACTOR IN COLD SHUTDOWN, THE D.C. REACTIVE POWER METER PEAKED AT FULL SCALE. THE OPERATOR
TRIPPED THE DIESEL. TWO OF THE 6 SELENIUM RECTIFIER TRANSIENT VOLTAGE SURGE SUPPRESSORS
ASSOCIATED WITH THE GENERATOR FIELD HAD APPARENTLY SHORTED OUT, COLLAPSING THE FIELD. ALL 6
SURGE SUPPRESSORS WERE REPLACED. THE DIESEL THEN OPERATED NORMALLY. AN EXTENSIVE STUDY AS TO
THE MODE OF FAILURE OF THESE SURGE SUPPRESSORS IS UNDERWAY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 2 (BWR) * GENERATOR, DIESEL * ENGINES, INTERNAL COMBUSTION * TEST, SYSTEM OPERABILITY * FAILURE,
INSTRUMENT * ELECTRONIC FUNCTION UNITS

107802
SGT SYSTEM HIGH EFFICIENCY PREFILTER PRESSURE EXCEEDS LIMIT AT QUAD CITIES 2
COMMONWEALTH EDISON CO., CONDUVA, ILL.
* PWS, LTR W/AD 50-265/75-42 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, OCT. 29, 1975, DCKET 50-265, TYPE--
BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - FOULING. WITH THE UNIT IN COLD SHUTDOWN FOR CORE MAINTENANCE, SGT SYSTEM 3 WAS OBSERVED
TO BE OPERATING AT A FLOW OF LESS THAN 4000 SCFM. THE DIFFERENTIAL PRESSURE ACROSS THE HIGH
EFFICIENCY PREFILTER EXCEEDED THE 5.7 IN. OF WATER LIMIT. THE PREFILTER WAS FOULING. THE FILTER
WAS CHANGED AND THE SYSTEM FLOW TESTED SATISFACTORILY.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 2 (BWR) * FILTER, PREFILTER * FILTER, HIGH EFFICIENCY * FLOW * PRESSURE DROP * STANDBY GAS
TREATMENT * FAILURE, EQUIPMENT * CRUC

107979
CONTROL POWER TO RHR AND CORE SPRAY LOGIC LOST AT QUAD CITIES 2
COMMONWEALTH EDISON CO., CONDUVA, ILL.
* PWS, LTR W/AD 50-265/75-43 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 7, 1975, DCKET 50-265, TYPE--
BWR, MFG--G.E., AE--SGT & LUNDY

CAUSE - PERSONNEL ERROR. WHILE THE UNIT WAS IN THE COLD SHUTDOWN CONDITION, THE 125 VDC CONTROL
POWER WAS LOST TO BOTH THE RHR B AND CORE SPRAY B AUTOMATIC INITIATION LOGIC SYSTEMS. BREAKER 12
ON THE 125 VDC TURBINE BUILDING RESERVE BUS 25 FOUND IN THE OFF POSITION. APPARENTLY, THE
BREAKER WAS OPENED DURING MAINTENANCE AND NOT CLOSED FOLLOWING COMPLETION OF THE WORK. THE
BREAKER WAS CLOSED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
CHARGE \$2.00

QUAD CITIES 2 (BWR) * CONTROL SYSTEM * SHUTDOWN COOLING SYSTEM * CORE SPRAY * ELECTRIC POWER * FAILURE,
MAINTENANCE ERROR * BREAKER

100207
NRC TURBINE TRIPPED DURING TEST AT QUAD CITIES 2
COMMONWEALTH EDISON CO., CONDUVA, ILL.

100207 - COUNTING JO
 4 PGS. LTR W/AD 50-205/75-44 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 17, 1975, DOCKET 50-265, TYPE--
 BNR, MFG--G.E., AE--SUT & LONEY

CAUSE - EGR ACTUATOR FAILED. DURING POST MAINTENANCE NUC TESTING WITH THE REACTOR AT 58 POWER, THE NUCR TUNING TRAPPED DUE TO HIGH EXHAUST PRESSURE. INITIAL INVESTIGATION REVEALED THAT THE PILOT VALVE PLUNGER ON THE EGR ACTUATOR HAD MOVED. THIS CONTROLS THE REMOTE SENSU VALVE WHICH OPERATES THE INLET STEAM VALVE. THE LOSS OF HYDRAULIC CONTROL ALLOWED EXCESS STEAM TO ENTER THE TURBINE CREATING HIGH BACKPRESSURE. THE OVERSPEED MECHANISM ALSO FAILED FROM LOOSENING OF A JAM NUT ON THE ADJUSTING SPRING. ALL THIS CAUSED OVERLOADING ON THE SHAFT DRIVEN OIL PUMP WHICH THEN FAILED. REPAIRS WERE COMPLETED IN 7 DAYS 15 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

QUAD CITIES 2 (BNR) + NRC + TURBINE + FAILURE, EQUIPMENT + FAILURE, SEQUENTIAL + TRANSIENT + TEST, SYSTEM
 OPERABILITY

100211
 TIP BALL VALVE FAILS TO CLOSE ON TWO OCCASIONS AT QUAD CITIES 2
 COMMUNHEALTH ESTATE CO., LORUWA, ILL.
 4 PGS. LTR W/AD 50-205/75-45 TO NRC OFFICE OF NUCLEAR REACTOR REGULATION, NOV. 19, 1975, DOCKET 50-265, TYPE--
 BNR, MFG--G.E., AE--SUT & LONEY

CAUSE - BUILD-UP OF OILY LUBRICANT. FOLLOWING COMPLETION OF A TRAVERSING IN-CORE PROBE SET WHILE OPERATING AT 50% POWER, THE BALL VALVE FOR MACHINE 2 FAILED TO CLOSE WHEN THE DETECTOR WAS RETURNED TO THE IN-SHIELD POSITION. FAILURE IS POSTULATED TO BE A BUILD-UP OF TIP TUBE OILY LUBRICANT. WHEN AN OPERATOR TAPPED ON THE BODY OF THE VALVE, THE VALVE CLOSED. A SIMILAR FAILURE OF THE SAME BALL VALVE OCCURRED ON THE NEXT DAY. THE PRESENT BALL VALVES WILL BE REPLACED WITH VALVES OF A NEW DESIGN WHEN AVAILABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

0 VALVES + CONTAINMENT ISOLATION + INSTRUMENT, IN CORE + LUBRICATION + FAILURE, DESIGN ERROR + QUAD CITIES 2
 (BNR)

104410
 PRIMARY SHIELD WALL ANCHOR BOLTS DAMAGED AT SHOREHAM
 LONG ISLAND LIGHTING COMPANY, MICKSVILLE, N.Y.
 8 PGS. LETTER WITH REPORT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, JULY 9, 1975, DOCKET 50-322, TYPE--BNR,
 MFG--G.E., AE--STONE & WEBSTER

CAUSE - BURNING TOUCH DAMAGE. THE PRIMARY SHIELD WALL ANCHOR BOLTS WERE INADVERTENTLY DAMAGED WHEN ADJACENT PLATES WERE FLAME-CUT TO CORRECT AN INSTALLATION ERROR. DAMAGE CONSISTED OF LOCALIZED EXPOSURE TO THE FLAME OF A BURNING TOUCH THAT PRODUCED FLAME GOUGES AND SLAG INCLUSIONS. THERE WERE 44 BOLTS EXPOSED TO LOCALIZED HIGH TEMPERATURES BUT NOT GOUGED AND 68 WERE GOUGED OR MARKED. THE HEAT CAUSED HARDENING OF THE METAL. THE DAMAGED AND HEAT AFFECTED AREAS WILL BE GROUND OUT. STRESSES WILL BE ANALYZED BASED ON AREAS REMAINING AFTER GRINDING.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

SHOREHAM (BNR) + CONSTRUCTION + FASTENER + HEAT TREATMENT + DAMAGE + FAILURE, INSTALLATION ERROR + SHIELDING

107011
 FINAL REPORT ON PRIMARY SHIELD WALL ANCHOR BOLTS AT SHOREHAM
 LONG ISLAND LIGHTING CO., MICKSVILLE, N.Y.
 20 PGS. LTR W/AD 50-322, TYPE--BNR, MFG--G.E., AE--STONE &
 WEBSTER

CAUSE - NO APPROVED PROCEDURE FOR REPAIR. ANALYSIS OF THE DAMAGED ANCHOR BOLT SYSTEM TOOK PLACE IN 2 STAGES, I.E. AN INITIAL ANALYSIS AND A SUPPLEMENTARY ANALYSIS. AFTER REVIEWING THE ANALYSIS, IT WAS DECIDED THAT THE BOLT SYSTEM IS ADEQUATE TO RESIST THE OPERATIONAL, EARTHQUAKE, AND PIPE BREAK LOADS FOR WHICH IT WAS DESIGNED. THE PRIMARY CAUSE OF THE ANCHOR BOLT DAMAGE WAS PERFORMANCE OF A FIELD REPAIR TO A SAFETY-RELATED COMPONENT WITHOUT AN APPROVED PROCEDURE. INADEQUATE SUPERVISION WAS A CONTRIBUTING FACTOR.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

SHOREHAM (BNR) + FASTENER + DAMAGE + MAINTENANCE AND REPAIR + STRESS ANALYSIS + FAILURE, ADMINISTRATIVE
 CONTROL + PROCEDURE, AND MANUALS + CONSTRUCTION + SHIELDING

101700
 SUPPRESSION POOL PHENOMENA FOR MARK 2 CONTAINMENT AT SUSQUEHANNA 1 AND 2
 PENNSYLVANIA POWER & LIGHT COMPANY, PA.
 4 PGS. LETTER WITH REPORT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, APRIL 4, 1975, DOCKETS 50-
 307/308, TYPE--BNR, MFG--G.E., AE--DECHTEL

101706 - CONTINUED

CAUSE - POSSIBLE DESIGN DEFICIENCY. FURTHER INVESTIGATIONS OF THE SUPPRESSION POOL PHENOMENA ASSOCIATED WITH SAFETY RELIEF VALVE AND LOCAL BLEEDDOWN DISCHARGES HAVE INDICATED THAT THE DESIGN BASES AND LOAD COMBINATIONS USED IN THE PSAR MAY NOT HAVE IDENTIFIED ALL THE PHENOMENA FOR THIS CONTAINMENT DESIGN. RESULTS OF THESE DESIGN CONSIDERATIONS WILL BE COMPARED AGAINST THE PRESENT DESIGN. CONSTRUCTION IN THIS AREA HAS BEEN SUSPENDED UNTIL THE ANALYSIS HAS BEEN COMPLETED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT DESIGN • CONTAINMENT, PRESSURE SUPPRESSION • HYDRAULIC EFFECT • STRESS ANALYSIS • FAILURE, DESIGN ERROR • BLEEDDOWN • PRESSURE TRANSIENT • CONSTRUCTION • SUSQUEHANNA 2 (BWR) • SUSQUEHANNA 1 (BWR) • TUCUS

102195

POTENTIAL DEFICIENCY IN THE SUPPRESSION POOL STRUCTURE AT SUSQUEHANNA 1 AND 2
PENNSYLVANIA POWER & LIGHT CO.

4 PAGES, 1 LETTER WITH ATTACHMENT TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, APRIL 4, 1975, DOCKETS 50-307/380, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - DESIGN OVERSIGHT. TESTS HAVE REVEALED 2 GROUPS OF PHENOMENA WHICH MAY HAVE ADVERSE EFFECTS ON THE SUPPRESSION POOL STRUCTURE AND EQUIPMENT. THESE OCCUR AS A RESULT OF A LOCAL OR ACTUATION OF THE MAIN STEAM SAFETY/RELIEF VALVES. PRECISE LOADS APPLICABLE TO THIS STATION HAVE NOT BEEN DETERMINED. CONSTRUCTION IN THIS AREA HAS BEEN HALTED UNTIL ANALYSES ARE COMPLETED. THE LINK FORCES THE AIR IN THE LOWELL JUMP THE VENT PIPE INTO THE SUPPRESSION POOL CAUSING AN AIR BUBBLE. THIS RESULTS IN PIPE WALL THINNING DUE TO CAUSE DAMAGE. HORIZONTAL MOVEMENT OF VENT AND VALVE DISCHARGE PIPING ARE ALSO BEING EVALUATED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

HYDRAULIC EFFECT • ACCIDENT, LOSS OF COOLANT • STRESS • STRESS ANALYSIS • FAILURE, DESIGN ERROR • EQUIPMENT • CONSTRUCTION • SUSQUEHANNA 2 (BWR) • SUSQUEHANNA 1 (BWR) • STRUCTURE • TUCUS

104405

FINAL REPORT ON SUPPRESSION POOL HYDRODYNAMIC LOAD EFFECTS AT SUSQUEHANNA 1 & 2
PENNSYLVANIA POWER & LIGHT COMPANY, ALLENTOWN

3 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, JULY 1, 1975, DOCKETS 50-307/385, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - DESIGN DEFICIENCY. AS REPORTED IN APRIL 4, 1975, WORK WAS SUSPENDED ON CONCRETE PILES AND OTHER CRITICAL CONTAINMENT CONSTRUCTION ACTIVITIES UNTIL MODIFICATIONS WERE IDENTIFIED TO ACCOMMODATE SUPPRESSION POOL HYDRODYNAMIC LOADS. PRELIMINARY ANALYSIS HAS BEEN COMPLETED. A DIFFUSER WILL BE ADDED AT THE END OF THE SAFETY/RELIEF VALVE DISCHARGE LINES. FIFTY REINFORCING BARS WILL BE ADDED TO THE SUPPRESSION POOL WALLS. REINFORCING BAR ARRANGEMENT WILL BE CHANGED IN THE DIAPHRAGM SLAB TO ACCOMMODATE 20 PSI NET UPLIFT. SOME ADDITIONAL ENDS WILL BE ADDED IN THE POOL WALLS. WORK HAS RESTARTED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SUSQUEHANNA 1 (BWR) • SUSQUEHANNA 2 (BWR) • MODIFICATION • DESIGN • STRUCTURE • CONCRETE, REINFORCED • STEEL • HYDRAULIC EFFECT • FAILURE, DESIGN ERROR

104701

BOX COLUMN SUPPORT DEFECTS FOUND AT SUSQUEHANNA 1 AND 2

PENNSYLVANIA POWER & LIGHT COMPANY, ALLENTOWN

4 PAGES, LETTER TO NRC, REGION 1, JULY 25, 1975, DOCKETS 50-307/383, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - LAMELLAR TEARING NEAR WELDS. LINEAR INDICATIONS WERE DISCOVERED DURING A VISUAL INSPECTION OF THE WELD JOINTS OF 2 BOX COLUMN SUPPORT BASES. ULTRASONIC EXAMINATIONS FOUND INDICATIONS IN 5 OF THE 8 COLUMNS. THE INDICATIONS VARIED FROM SURFACE TO 1-3/8 INCHES DEEP AND 37 INCHES LONG. LAMELLAR TEARING IS THE SUSPECTED CAUSE. THIS IS A PHENOMENON WHICH HAS RECEIVED ATTENTION IN INDUSTRY FAIRLY RECENTLY AND IS NOT FULLY UNDERSTOOD. IT IS THOUGHT THAT LAMELLAR TEARS WILL NOT PROPAGATE ANY FURTHER SINCE THE STRESS (PROBABLY DUE TO WELD SHRINKAGE) IS RELIEVED IN TEARING. ALL 8 COLUMN SUPPORT BASES WILL BE REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SUSQUEHANNA 1 (BWR) • SUSQUEHANNA 2 (BWR) • CONSTRUCTION • STRUCTURE • SUPPORT STRUCTURE • CRACK • WELDS • METALLURGY • STRUCTURAL INTEGRITY • FAILURE, FABRICATION ERROR

106530

DEFICIENCY IN BOX COLUMN SUPPORTS AT SUSQUEHANNA 1 AND 2

PENNSYLVANIA POWER & LIGHT CO., PA.

26 PGS, LTR W/RT TO U.S. NRC, REGION 1, AUG. 29, 1975, DOCKET 50-307/388, TYPE--BWR, NRC--G.E., AE--BECHTEL

CAUSE - FABRICATION DEFICIENCY. DURING RANDOM VISUAL INSPECTION OF INSTALLED STRUCTURES OF UNIT 1, ENGINEERS QUESTIONED WELDS ON 4 BOX COLUMN BASES. INSPECTION REVEALED HAZARDOUS CRACKS AT THE

100500 CONTINUED

THE 1/2 FULL PENETRATION WELD BETWEEN A STEEPENER AND THE JOH COLUMN CRACKS WERE IDENTIFIED AS LAPPELLAR TEARINGS. THIS PHENOMENON IS NOT YET FULLY UNDERSTOOD. SINCE IT IS NOT POSSIBLE TO ESTABLISH CONCLUSIVELY THAT THE LAPPELLAR TEARS WILL NOT PROPAGATE UNDER SERVICE LOADS, IT WAS DECIDED TO REPLACE ALL 1/2 COLUMN SUPPORT BASES WITH NEW SUPPORTS HAVING A DIFFERENT DESIGN DETAIL.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

SUSSEMANNA 1 (ENR) + SUSSEMANNA 2 (ENR) + CONSTRUCTION + SUPPORT STRUCTURE + BUILDING + FAILURE, FACILITATION ERROR + PRELUS + PENCA + DETAILING + JUSTICE TFM

009098

1200 AMP BREAKER DAMAGED AT VERMONT YANKEE
VERMONT YANKEE NUCLEAR POWER CORPORATION

1 PAGE, LETTER TO DIRECTORATE OF REGULATORY OPERATIONS, REGION I (RCO), JANUARY 9, 1975, DOCKET 50-271, TYPE--DNR, MFG--G.E., AE--EDASCO

CAUSE - MAINTENANCE ERROR. DURING THE REFUELING OUTAGE, ROUTINE PREVENTATIVE MAINTENANCE WAS PERFORMED ON THE AMR SERVICE WATER PUMP THAT REQUIRED THE USE OF A GAUGING AND TEST DEVICE TO DETERMINE THE LEADS TO THE MOTOR. THIS DEVICE IS USED FOR 2 SIZES OF BREAKERS. ADAPTORS WERE USED WITH THE 2000 AMP BREAKER. THESE ADAPTORS WERE NOT REMOVED WHEN USED ON THE 1200 AMP BREAKER DISTURBING THE STATIONARY TUBES. THIS RESULTED IN INADEQUATE CONTACT. WHEN THE BREAKER WAS CLOSED, POWER ARCING TOOK PLACE. THE DAMAGED BREAKER HAD TO BE REPLACED. STEPS WERE TAKEN TO PREVENT USING THE ADAPTORS ON THE WRONG BREAKERS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MAINTENANCE AND REPAIR + REFUELING + FAILURE, MAINTENANCE ERROR + VERMONT YANKEE (ENR) + ELECTRIC ARC + AUXILIARY COOLING + SHUTDOWN COOLING SYSTEM + BREAKER + PUMPS

009260

SET POINT OF PRESSURE SWITCH OUT OF LIMITS AT VERMONT YANKEE

VERMONT YANKEE NUCLEAR POWER CORPORATION

1 PAGE, ANNUAL OCCURRENCE REPORT 75/01, JANUARY 15, 1975, DOCKET 50-271, TYPE--DNR, MFG--G.E., AE--EDASCO

CAUSE - IMPROPER CALIBRATION TECHNIQUE. DURING TESTING OF THE LPCI SYSTEM LOW PRESSURE PERMISSIVE SWITCHES WITH THE REACTOR AT FULL POWER, A SWITCH OPERATED AT 302 PSIG WHICH EXCEEDS THE 300 TO 350 PSIG RANGE. THE SWITCH WAS IMMEDIATELY RESET TO 340 PSIG. THIS INSTRUMENT HAS A LOCKING DEVICE ON THE SET POINT ADJUSTMENT WHICH CAN CHANGE THE SET POINT WHEN SECURED. AT THE LAST CALIBRATION, THE SET POINT WAS NOT RECHECKED AFTER SECURING THE SET POINT ADJUSTMENT LOCKING DEVICE. PROCEDURES WERE MODIFIED TO REQUIRE THIS VERIFICATION.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

INSTRUMENT CALIBRATION + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY + FAILURE, MAINTENANCE ERROR + VERMONT YANKEE (ENR) + SET POINT + SENSORS, PRESSURE + LPCI

009375

STANDBY GAS TREATMENT SYSTEM INOPERABLE AT VERMONT YANKEE

VERMONT YANKEE NUCLEAR POWER CORPORATION

1 PAGE, ANNUAL OCCURRENCE REPORT NO. 75/02, JANUARY 16, 1975, DOCKET 50-271, TYPE--DNR, MFG--G.E., AE--EDASCO

CAUSE - MAINTENANCE ERROR. STANDBY GAS TREATMENT SYSTEM B WAS TAGGED OUT OF SERVICE TO CHANGE OUT THE CARBON FILTER BEDS. LATER, IT WAS DISCOVERED THAT THE CARBON BEDS ON SYSTEM A HAD BEEN CHANGED INSTEAD OF SYSTEM B. MAINTENANCE PERSONNEL INCORRECTLY IDENTIFIED THE EQUIPMENT. DURING THE 50 HR PERIOD REQUIRED FOR THE WORK, NEITHER TRAM WAS FULLY INOPERABLE. THE EQUIPMENT HAS BEEN CORRECTLY IDENTIFIED. FILTERS WERE CHANGED ON SYSTEM B.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

MAINTENANCE AND REPAIR + CHARCOAL ADSORBER + FAILURE, MAINTENANCE ERROR + VERMONT YANKEE (ENR) + IDENTIFICATION + STANDBY GAS TREATMENT + FILTERS

009499

LODINE-131 RELEASE RATE EXCEEDS LIMIT AT VERMONT YANKEE

VERMONT YANKEE NUCLEAR POWER CORPORATION

3 PAGES, LETTER TO AEC DIRECTORATE OF REGULATORY OPERATIONS, REGION I, JANUARY 30, 1975, DOCKET 50-271, TYPE--DNR, MFG--G.E., AE--EDASCO

CAUSE - FULL CLAD DEFECTS. DURING THE FOURTH QUARTER OF 1974, THE LODINE-131 RELEASE RATE WAS 0.0177 MICROCURIE/SEC, EXCEEDING THE LIMIT BY 3.7%. THE MAJOR PORTION OF THE RELEASE OCCURRED DURING THE REFUELING OUTAGE. THE REFUEL FUEL CONSISTS OF 63 FUEL PINS PER ASSEMBLY INSTEAD OF THE OLD DESIGN OF 49. RELEASE RATES FOR JANUARY 1975 WERE SIGNIFICANTLY LOWER THAN BEFORE REFUELING.

009699 PLANTINQUIRY
 AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

ATMOSPHERE RELEASE + FISSION PRODUCTS, ISOLINE + ISOLINE + RELEASE RATE + MODIFICATION + REFUELING + FAILURE,
 CLADDING + VERMONT YANKEE (OWN) + FUEL ELEMENTS

009701
 OFF GAS MONITORING SYSTEM OUT OF SERVICE BRIEFLY AT VERMONT YANKEE
 VERMONT YANKEE NUCLEAR POWER CORP.
 2 PAGES, LETTER WITH AD REPORT 75/04 TO NRC OFFICE OF INSPECTION AND ENFORCEMENT, REGION 1, FEBRUARY 14, 1975,
 DCKET 50-271, TYPE--DNR, PPG--G.E., AE--EBASCO

CAUSE - REQUIRED SILENTIC VALVE. DURING FULL POWER OPERATION, A VERY GRADUAL FLOW REDUCTION IN THE
 AIR EJECTION OFF GAS MONITORING SYSTEM WAS NOTED. THE 3-WAY SILENTIC VALVE WAS REMOVED FOR
 CLEANING AND REPAIR OF A BURNED PUSHMOP. A TEMPORARY BYPASS LINE RESTORED NORMAL FLOW.
 DURING REMOVAL AND REINSTALLATION, BOTH CHANNELS OF OFF GAS SYSTEM ISOLATION INSTRUMENTATION WERE
 OUT OF SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, EQUIPMENT + FAILURE, MAINTENANCE ERROR + OFF GAS + VERMONT YANKEE (OWN) + FLOW + SILENTIC + VALVES +
 RADIATION MONITORS

100075
 OFF GAS MONITORING SYSTEM OUT OF SERVICE AT VERMONT YANKEE
 VERMONT YANKEE NUCLEAR POWER CORP.
 2 PAGES, LETTER WITH AD REPORT 75/04 TO NRC OFFICE OF INSPECTION AND ENFORCEMENT, REGION 1, FEBRUARY 14, 1975,
 DCKET 50-271, TYPE--DNR, PPG--G.E., AE--EBASCO

CAUSE - FLOW BLOCKAGE. DURING FULL POWER OPERATION, A 3-WAY SILENTIC VALVE ASSOCIATED WITH THE
 OFF GAS SYSTEM ISOLATION INSTRUMENTATION AND OFF GAS VITAL SAMPLER WAS REMOVED FOR CLEANING AND
 REPAIR. THERE HAD BEEN A GRADUAL REDUCTION IN FLOW AND SIGNAL. A BURNED PUSHMOP IN THE VALVE
 WAS REPLACED. DURING REMOVAL AND REINSTALLATION WITH CHANNELS OF THE OFF GAS INSTRUMENTATION WERE
 OUT OF SERVICE WHICH VIOLATES TECH SPECS. THE ADG SYSTEM WAS IN SERVICE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

FAILURE, EQUIPMENT + CONTAINMENT ISOLATION + SAMPLING + OFF GAS + FLOW BLOCKAGE + VERMONT YANKEE (OWN) +
 VALVES + RADIATION MONITORS

100076
 SET POINT DRIFT IN PRESSURE SWITCH AT VERMONT YANKEE
 VERMONT YANKEE NUCLEAR POWER CORP.
 2 PAGES, LETTER WITH AD REPORT 75/03 TO NRC OFFICE OF INSPECTION AND ENFORCEMENT, REGION 1, FEBRUARY 14, 1975,
 DCKET 50-271, TYPE--DNR, PPG--G.E., AE--EBASCO

CAUSE - INSTRUMENT DRIFT. DURING TESTING, A CORE SPRAY SYSTEM PUMP DISCHARGE PRESSURE SENSOR
 ACTIVATED AT 72 PSIG, WHICH IS BELOW THE 100 PSIG LIMIT. THE STATIC-O-RING, MODEL 5MAA3PP,
 PRESSURE SWITCH WAS REPLACED WITH A SPARE. FAILURE RESULTED FROM SET POINT DRIFT.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

CORE SPRAY + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY +
 VERMONT YANKEE (OWN) + SET POINT + DRIFT + SENSORS, PRESSURE

009692
 SET POINT DRIFT IN PRESSURE SWITCH AT VERMONT YANKEE
 VERMONT YANKEE NUCLEAR POWER CORP.
 2 PAGES, LETTER WITH AD REPORT 75/03 TO NRC OFFICE OF INSPECTION AND ENFORCEMENT, REGION 1, FEBRUARY 14,
 1975, DCKET 50-271, TYPE--DNR, PPG--G.E., AE--EBASCO

CAUSE - INSTRUMENT DRIFT. DURING A TEST, A CORE SPRAY SYSTEM PUMP DISCHARGE PRESSURE SENSOR
 ACTIVATED AT 82 PSIG INSTEAD OF 100 PSIG LIMIT. FAILURE WAS DUE TO SETPOINT DRIFT. THE STATIC-O-
 RING, MODEL 5MAA3PP, PRESSURE SWITCH WAS REPLACED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545, 100 CENTS/PAGE -- MINIMUM
 CHARGE \$2.00

CORE SPRAY + INSTRUMENT CALIBRATION + FAILURE, INSTRUMENT + INSTRUMENT, SWITCH + TEST, SYSTEM OPERABILITY +
 VERMONT YANKEE (OWN) + SET POINT + DRIFT + SENSORS, PRESSURE

100571
 ADG RADIATION MONITORS INOPERABLE AT VERMONT YANKEE

100971 MONTENAPCO

VERMONT YANKEE NUCLEAR POWER CORP.

2 PAGES, LETTER WITH AD REPLY 75/05 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, MARCH 5, 1975, DOCKET 50-271, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - ISOLATION VALVE CLOSED. DURING POWER ASCENSIONS IT WAS DISCOVERED THAT THE SAMPLE ACCUMULATOR ISOLATION VALVE TO THE CONDENSER WAS SHUT BLOCKING ALL FLOW PAST THE AUC RADIATION MONITORING THREAT - REMAINING THEM INOPERABLE. THE VALVE WAS CLOSED DURING AN OUTAGE TO FACILITATE MAINTENANCE WORK. THE VALVE WAS IMMEDIATELY OPENED MAKING THE MONITOR FULLY OPERABLE.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT ISOLATION + FAILURE, MAINTENANCE ERROR + OFF GAS + MONITORING SYSTEM, RADIATION + VERMONT YANKEE (BWR) + VALVES + RADIATION MONITORS

100975

NEVER TEMPERATURE CHANGE EXCEEDS LIMITS AT VERMONT YANKEE

VERMONT YANKEE NUCLEAR POWER CORP.

3 PAGES, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, MARCH 12, 1975, DOCKET 50-271, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - CHANGE IN FLOW RATE. THE PLANT WAS OPERATING AT 100% POWER AND REJECTING FLOW TO THE CONNECTICUT RIVER DURING A STUDY PROGRAM. THE OPERATOR LEARNED THAT THE SCHEDULED FULL LOAD OPERATION OF THE HYDROELECTRIC STATION HAD BEEN CANCELLED 5 HOURS EARLIER. THE REACTOR WAS CHANGED TO CAUSE CYCLE OPERATION BUT THIS RESULTED IN A TEMPERATURE CHANGE IN THE RIVER OF 1.5 F WHEN THE HYDROELECTRIC PLANT RESUMED OPERATION. WHILE A TECHNICIAN WAS CHANGING FILTER PAPER AT AN ENVIRONMENTAL MONITORING STATION IN A COLD DAY, THE WIND MISSED THE SAMPLE FROM HIS NERDED FINGERS AND BLEW IT IMMEDIATELY OUT OF REACH.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, OPERATION ERROR + NERD + VERMONT YANKEE (BWR) + MONITORING PROGRAM, ENVIRONMENTAL + TEST INTERVAL + THERMAL TRANSPORT + WASTE HEAT MANAGEMENT

101107

LOW REACTOR PRESSURE PERMISSIVE INSTRUMENT ISOLATED AT VERMONT YANKEE

VERMONT YANKEE NUCLEAR POWER CORP.

2 PAGES, LETTER WITH AD REPORT 75/06 TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, MARCH 19, 1975, DOCKET 50-271, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - VALVE LEFT CLOSED AFTER TEST. DURING NORMAL OPERATION, AN ALARM LED TO THE DISCOVERY THAT A LOW REACTOR PRESSURE PERMISSIVE INSTRUMENT (CORE SPRAY AND LPCI LOW PRESSURE PERMISSIVE) WAS ISOLATED. THE INSTRUMENT WAS RETURNED TO SERVICE BY OPENING THE ISOLATION VALVE. EARLIER IN THE DAY, A TEST WAS PERFORMED ON THIS INSTRUMENT. PERSONNEL FAILED TO FOLLOW WRITTEN PROCEDURES AND INADEQUATELY LEFT THE INSTRUMENT ISOLATED AND PRESSURIZED.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

FAILURE, OPERATION ERROR + CONTAINMENT ISOLATION + PROCEDURES AND MANUALS + TESTING + INSTRUMENT, SWITCH + VERMONT YANKEE (BWR) + EMERGENCY COOLING SYSTEM + VALVES

101140

CONTAINMENT AIR SAMPLING PUMP FAILS AT VERMONT YANKEE

VERMONT YANKEE NUCLEAR POWER CORP.

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, MARCH 24, 1975, DOCKET 50-271, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE - BEARING SEIZURE. THE CONTAINMENT AIR SAMPLING PUMP FAILED WHEN THE BEARINGS SEIZED. THERE IS NO REDUNDANT SYSTEM. THE FAILED PUMP WAS REPLACED AND THE SYSTEM RETURNED TO SERVICE IN 27 HOURS.

AVAILABILITY - NRC PUBLIC DOCUMENT ROOM, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM CHARGE \$2.00

CONTAINMENT + FAILURE, EQUIPMENT + MONITOR, AIR + SAMPLING + VERMONT YANKEE (BWR) + CONTAINMENT ATMOSPHERE, TEST + BEARING + PUMPS

102270

SETPOINT TRIP IN TIME DELAY TIMER AT VERMONT YANKEE

VERMONT YANKEE NUCLEAR POWER CORP.

1 PAGE, LETTER TO NRC OFFICE OF INSPECTION & ENFORCEMENT, REGION 1, APRIL 18, 1975, DOCKET 50-271, TYPE--BWR, NRC--G.E., AE--EASCO

CAUSE INSTRUMENT TRIP. DURING TESTING, THE AIR EJECTION SUCTION VALVE ISOLATION TIME DELAY TIMER ACTUATED AT 1 MIN. 0 SEC., EXCEEDING THE 1 MIN. 15 SEC. SETPOINT. THE APPARENT CAUSE WAS TRIP TO THE RIPLEY CO., INTERVAL TIMER, MODEL NO. 426A/CE/100. THE TIMER WAS IMMEDIATELY RESET TO WITHIN

2

2

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107500
VERMONT VAMC (100) • VALVES • CONTAINMENT ISOLATION • OPERATING • FAILURE, MAINTENANCE ERROR • TEST, SYSTEM
OPERABILITY • POSITION • SEAL

107500
SET POINTS WERE IN PRESSURE SWITCHES AT VERMONT VAMC
VERMONT VAMC NUCLEAR POWER CORP., BURLINGTON
• P.O. BOX 100, BURLINGTON, VT. 05401, DEC. 1, 1975, JACKET 50-271, TYPE--BWR, W6--C-6, DE-
-100000

CAUSE - INSTRUMENT DRIFT. DURING A TEST WITH THE REACTOR AT 100% POWER, THE FIRST STAGE
THERMINE SHUT OFF SWITCHES ACTIVATED AT SET POINTS OF 231.7, 229.7, AND 226.7 PSIA
RESPECTIVELY. SECOND STAGE LIMIT FOR THE SWITCHES IS 220 PSIA. ALL OF THE BURNING PRESSURE
SENSORS, WHICH WERE SET-POINTS, WERE IMMEDIATELY RESET TO TRIP AT LESS THAN 220 PSIA. THE
APPARENT CAUSE WAS INSTRUMENT DRIFT.

AVAILABILITY - THE PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- VERMONT
VAMC (100)

VERMONT VAMC (100) • INSTRUMENT, SWITCH • INSTRUMENT CALIBRATION • SENSORS, PRESSURE • TEST, SYSTEM
OPERABILITY • FAILURE, INSTRUMENT • SET POINT • DRIFT • BURNING

107510
APS RELAY FAILS TO DEENERGIZE AT VERMONT VAMC
VERMONT VAMC NUCLEAR POWER CORP., BURLINGTON, VERMONT
• P.O. BOX 100, BURLINGTON, VT. 05401, DEC. 1, 1975, JACKET 50-271, TYPE--BWR, W6--C-6, DE-
-100000

CAUSE - PROBABLY LIMIT SWITCH FAILURE. DURING A TEST WITH THE REACTOR AT 100% POWER, APS RELAY SO-
NO FAILED TO DEENERGIZE UPON PARTIAL CLOSURE OF 9502-000. THE RELAY WAS DEENERGIZED BY
REMOVING ITS CONTROL POWER FUSE, WHICH PROVIDES FOR THE CIRCUIT TO BE IN A MORE CONSERVATIVE
STATE. SINCE PARTIAL CLOSURE OF THE 9502 DEENERGIZES THE RELAY, THE PROBABLE CAUSE IS FAILURE OF
THE 9502 LIMIT SWITCH TO OPERATE. REMEDIAL ACTION WILL BE TAKEN AT THE NEXT AVAILABLE STOPDOWN.

AVAILABILITY - THE PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- VERMONT
VAMC (100)

VERMONT VAMC (100) • DELAYS • OPERATION SAFETY SYSTEM • FAILURE, INSTRUMENT • INSTRUMENT, SWITCH •
INSTRUMENT, POSITION • TEST, SYSTEM OPERABILITY

107520
ISOLATION ANALYSIS OF REACTOR CATALYST SAMPLE NOT PERFORMED AT VERMONT VAMC
VERMONT VAMC NUCLEAR POWER CORP., BURLINGTON, VERMONT
• P.O. BOX 100, BURLINGTON, VT. 05401, DEC. 1, 1975, JACKET 50-271, TYPE--BWR, W6--C-6, DE-
-100000

CAUSE - RELAYED FROM BUREAU. DURING A REVIEW OF SURVEILLANCE RECORDS, IT WAS FOUND THAT AN
ISOLATION ANALYSIS OF A REACTOR CATALYST SAMPLE HAD BEEN INADEQUATELY SIGNED OFF FOR ANALYST WHEN
THE TEST HAD NOT BEEN COMPLETED. THE RECORDS CLERK MADE THE ERROR. RECORDS WILL NOW BE REVIEWED
IN COORDINATION WITH THE APPROPRIATE DEPARTMENT HEAD PRIOR TO SIGN OFF.

AVAILABILITY - THE PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- VERMONT
VAMC (100)

VERMONT VAMC (100) • TEST INTERVAL • CHEMICAL ANALYSIS • ELEMENTS AND ISOTOPES • REACTOR COOLANT • COOLANT
QUALITY • FAILURE, OPERATION ERROR • RECORDS

107530
ONE VALVE CYCLES FROM FULL OPEN TO FULL CLOSED AT VERMONT VAMC
VERMONT VAMC NUCLEAR POWER CORP., BURLINGTON, VERMONT
• P.O. BOX 100, BURLINGTON, VT. 05401, DEC. 5, 1975, JACKET 50-271, TYPE--BWR, W6--C-6, DE-
-100000

CAUSE - UNKNOWN. DURING A STARTUP TRANSFORMER LOADING TEST WITH THE PLANT IN COLD SHUTDOWN, A VALVE
CYCLED IN RESPONSE TO THE TEST SIGNAL. HOWEVER, THE VALVE STARTED CYCLING FROM FULL OPEN
TO FULL CLOSED. THE OPERATOR OPENED THE ELECTRICAL SUPPLY VALVE TO STOP THE CYCLING. VISUAL
INSPECTION AND MANUAL MANIPULATIONS REVEALED NO APPARENT CAUSE FOR THE MALFUNCTION OF THE VALVE.
THE OPERATOR WAS CAUTIONED AND TESTS WERE PERFORMED THICE WITH SATISFACTORY RESULTS.

AVAILABILITY - THE PUBLIC DOCUMENT ROOM, 1717 N STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- VERMONT
VAMC (100)

VERMONT VAMC (100) • VALVES • SHUTDOWN CLOSING SYSTEM • TEST, SYSTEM OPERABILITY • VALVE OPERATORS •
CONTROL SYSTEM • FAILURE, EQUIPMENT

109203
 CONTAINMENT AIR SAMPLING PUMP FAILS AT VERMONT TANNER
 VERMONT TANNER NUCLEAR POWER CORP., RUTLAND, VT
 2 PAGES AIR WFOU-75-23 TO THE OFFICE OF E. E. REGION I, DEC. 19, 1975, Docket SJ-271, TYPE--RMA, WFOU--S.E., AC-
 -R00360

CAUSE - BEARING FAILURE. WHILE OPERATING AT 100% POWER, THE OPERATOR OBSERVED ALARMS INDICATING
 LOSS OF POWER TO THE SAMPLER PUMP ASSOCIATED WITH THE CONTAINMENT AIR SAMPLING SYSTEM. THE CONDENSE
 PUMP CO. HAD THE PUMP FAILED DUE TO A FAILED BEARING. THE FAILED PUMP WAS REPLACED AND THE
 SYSTEM RETURNED TO SERVICE WITHIN 1 HOUR.

AVAILABILITY - NUC. PUBLIC UTILITIES BOARD, 1717 M STREET, WASHINGTON, D. C. 20545 100 CENTS/PAGE -- MINIMUM
 ORDER \$2.00

VERMONT TANNER (CONT) • PUMPS • BEARING • SAMPLING • MONITORING SYSTEM, RADIATION • FAILURE, EQUIPMENT •
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		OPERATIONAL	010453	FOUND	STALLED IN DRAINAGE WITHIN 30 SEC AT COOPER	090104 P 07
		TEST LINE	010454	FOUND	NOT AT JEROME AT JEROME 30	102720 P 08
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		010456	010456	FOUND	TO BE SUCCESSIVE AT JEROME 30	100453 P 06
		010457	010457	FOUND	TO BE ISOLATED AT JEROME 30	102617 P 11
		010458	010458	FOUND	TO BE ISOLATED AT JEROME 30	100456 P 11
		010459	010459	FOUND	TO BE ISOLATED AT JEROME 30	100258 P 17
		010460	010460	FOUND	TO BE ISOLATED AT JEROME 30	102709 P 06
		010461	010461	FOUND	TO BE ISOLATED AT JEROME 30	100106 P 17
		010462	010462	FOUND	TO BE ISOLATED AT JEROME 30	105279 P 19
		010463	010463	FOUND	TO BE ISOLATED AT JEROME 30	100454 P 13
		010464	010464	FOUND	TO BE ISOLATED AT JEROME 30	100454 P 225
		010465	010465	FOUND	TO BE ISOLATED AT JEROME 30	100309 P 12
		010466	010466	FOUND	TO BE ISOLATED AT JEROME 30	100260 P 48
		010467	010467	FOUND	TO BE ISOLATED AT JEROME 30	100456 P 17
		010468	010468	FOUND	TO BE ISOLATED AT JEROME 30	100456 P 50
		010469	010469	FOUND	TO BE ISOLATED AT JEROME 30	100456 P 50
		010470	010470	FOUND	TO BE ISOLATED AT JEROME 30	100456 P 50
		010471	010471	FOUND	TO BE ISOLATED AT JEROME 30	100456 P 50
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		010480	010480	FOUND	TO BE ISOLATED AT JEROME 30	100456 P 50
		 			

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OLIC WATER	LEVEL SWITCH FAILS TO OPERATE AT PEACH BOTTOM 20	099371 P109
OLIC WATER	LEVEL SWITCH FAILS TO OPERATE AT PEACH BOTTOM 20	100779 P215
OLIC WATER	LEVEL SWITCH FAILS TO OPERATE VENT VALVE AT PEACH BOTTOM 20	100704 P109
OLIC WATER	LEVEL SWITCH FAILS TO RESET AT MATCH 10	100000 P103
OLIC WATER	LEVEL SWITCH FOUND INOPERABLE AT PEACH BOTTOM 20	100050 P222

DISINTEGRATE RECORDS FOR REACTOR JARIN	LINE AT DUNSMITH 20	102152 P 36
OPEN TANK LEAKS FLOW IN SERVICE WATER	LINE AT COOPER	100205 P 00
OTMOUNT-ALL CRACK IN JOURNAL/FLUIDS SYSTEMS PUMP	LINE AT DUNSMITH 20	100700 P 07
CRACK IN WELD IN NEUTRON PUMP	LINE AT DUNSMITH 20	100704 P 09
OTMOUNT-ALL CRACK FLOW IN LOW SPRAY INJECTION	LINE AT DUNSMITH 20	100044 P 00
CRACK IN LPCI JARIN	LINE AT PITZPATRICK	097545 P114
DISINTEGRATE PUMP IN HIGH SPRAY SUPPLY	LINE AT PITZPATRICK	100400 P126
DISINTEGRATE PUMP IN REACTOR LOOP SUPPLY	LINE AT MATCH 10	100070 P152
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE AT QUAD CITIES 20	107540 P254
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE AT VERMONT YANKEE	100320 P263
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACK FLOW LEAK RATE EXCESSIVE AT PEACH BOTTOM 20	102277 P109
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACK FLOW LEAKS AT MONTICELLO	090540 P107
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACK INDICATORS AT PEACH BOTTOM 30	090643 P211
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACKS AT QUAD CITIES 20	100430 P249
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACKS AT ANNULOP	102500 P 7
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACKS AT DUNSMITH 10	100302 P 04
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACKS AT MONTICELLO	100700 P172
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE CRACKS AT PEACH BOTTOM 20	100301 P200
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE JARIN/UPS EXCESSIVE STEAM LEAK AT DUNSMITH 20	100010 P 55
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE JARIN AND BYPASS EXCEEDS LIMIT AT OYSTER CREEK	102702 P103
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE JARIN SYSTEM FAILS AT PEACH BOTTOM 30	100271 P213
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE JARIN VALVE FAILS AT DUNSMITH 30	100340 P107
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE JARIN VALVE LEAKS AT MONTICELLO	090490 P107
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE JARIN VALVE LEAKS AT MONTICELLO	100530 P170
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE FLOW CUT OFF AT MATCH 10	100731 P109
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE FLOW INDICATING READING DECREASES AT HILLSTONE	097540 P160
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE FLOW SWITCH FAILS TO TRIP AT QUAD CITIES 20	100047 P262
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE FLOW SWITCH AT COOPER	100301 P 75
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE FLOW TO BE DUNSMITH AT DUNSMITH 30	102700 P104
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE FLOW TO BE DUNSMITH AT ANNULOP	102617 P 7
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE HIGH FLOW AT DUNSMITH 20	102405 P 37
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE HIGH FLOW AT DUNSMITH 20	102742 P 30
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE HIGH FLOW INSTRUMENT LEFT OPEN AT DUNSMITH 20	100600 P 30
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE HIGH FLOW SWITCH FAILS TO TRIP AT PEACH BOTTOM 30	102401 P215
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE IMPERMEABLE AT ANNULOP	100401 P 10
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE INSULATION VALVE FAILS TO CLOSE (SUPPLEMENT) AT	100917 P100
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE INSULATION VALVE FAILS TO CLOSE AT MATCH 10	100951 P103
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE INSULATION VALVES FAIL TO CLOSE AT MATCH 10	101103 P133
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE LEAKS AT DUNSMITH 30	090370 P100
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE LEAKS AT DUNSMITH 30	090700 P100
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE LEAKS AT DUNSMITH 30	100001 P109
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE LEAKS AT MONTICELLO	100045 P150
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE LEAKS AT QUAD CITIES 20	102726 P252
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE LOW SPRAY LOOP CRACKS AT DUNSMITH 10	090707 P 27
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE LOW SPRAY PUMP CRACKS AT PEACH BOTTOM 20	100244 P200
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE OUT OF SERVICE AT COOPER	100900 P 70
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE PIPE SHIMMERS DAMAGED AT PITZPATRICK	100870 P110
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE RADIATION MONITOR FAILS AT PEACH BOTTOM 30	100076 P214
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE RADIATION MONITOR FAILS AT PEACH BOTTOM 30	100001 P225
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE RADIATION MONITOR FAILS DOWNSCALE AT PEACH BOTTOM 30	100205 P210
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE RADIATION MONITORS AT DUNSMITH 30	101372 P103
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE SAMPLE ISOLATION VALVE LEAKS AT PEACH BOTTOM 20	090245 P109
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE SAMPLE VALVE AT PEACH BOTTOM 30	090033 P211
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE SAVED AT QUAD CITIES 20	100540 P250
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE THUNDER-HALL CRACKS AT DUNSMITH 20	090403 P 00
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VALVE AT DUNSMITH 30	100370 P101
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VALVE FAILS TO CLOSE AT OYSTER CREEK	100900 P105
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VALVE FAILS TO OPEN AT PITZPATRICK	100013 P100
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VALVE FAILS TO OPEN AT MATCH 10	100715 P100
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VALVE FOUND CLOSED AT ANNULOP	100237 P 10
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VENT FAILS TO OPEN AT PEACH BOTTOM 20	100552 P209
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VENT VALVE LEAKS AT PEACH BOTTOM 20	097543 P100
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE VENT LEAKS AT DUNSMITH 10	102200 P 02
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100300 P 03
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100203 P125
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	101410 P102
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100573 P102
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	102405 P 37
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	090401 P 06
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	090360 P230
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	090700 P262
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100402 P141
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	101100 P 72
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100103 P201
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CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100447 P105
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100003 P135
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	090700 P101
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100400 P176
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	090700 P159
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100367 P121
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	101400 P160
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	101444 P250
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	090700 P101
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	090506 P 19
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	100507 P 70
CRACK INDICATORS IN REACTOR/FLUIDS SYSTEMS PUMP	LINE-OF-SIGHT AT DUNSMITH 20	101701 P100
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B O-RING GASKET LEAK IN TURBO PURGE SUPPLY VALVE AT PEACH 107404 P207

OPCI VALVE TRIPS ON OVERLOAD AT DUNSMITH 20 131600 P133
 OSTACK GAS SAMPLE PUMP THERMAL OVERLOAD TRIPS AT DUNSMITH 20 131605 P135
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 OPCI TURBINE TRIPS ON OVERSPEED AT DUNSMITH 20 130220 P 62
 OPCI TURBINE TRIPS ON OVERSPEED AT DUNSMITH 20 130533 P -3
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 OPCI TURBINE TRIPS ON OVERSPEED AT WATCH 10 130306 P166
 OPCI TURBINE TRIPS ON OVERSPEED AT WATCH 10 104506 P163
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 O OVEN ANALYZER FOUND TO BE LEAKING LOW AT DUNSMITH 20 100431 P 50
 O OVEN ANALYZER INDICATION ERRATIC AT DUNSMITH 20 130620 P 51
 O OVEN ANALYZER ISOLATION VALVE LEAK RATE HIGH AT PEACH 132901 P215
 O OVEN ANALYZER READING LOWER THAN INDICATIONS AT DUNSMITH 130620 P -40
 O OVEN ANALYZER VALVE FAILS TO CLOSE AT PEACH BOTTOM 30 107973 P224
 O OVEN ANALYZER INOPERABLE AT DUNSMITH 107771 P 15
 O OVEN CONCENTRATION EXCEEDS 40 AT DUNSMITH FERRY 10 131106 P 29
 O OVEN CONCENTRATION EXCEEDS 40 AT COOPER 104313 P 74
 O OVEN CONCENTRATION HIGH AT ARROW 130232 P 16
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 O OVEN CONTACTANT POSITION FAILS AT DUNSMITH 20 100435 P 51
 O OVEN EXCEEDS LIMIT AT COOPER 130207 P 82
 O OVEN LEVEL IN PRIMARY CONTAINMENT HIGH AT WASH CITIES 20 130071 P209
 O OVEN SAMPLE LINE CHECK VALVE LEAK RATE EXCESSIVE AT 132777 P194
 O OVEN CREEK 100000 132506 P103
 O OVEN CREEK 130331 P104
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 O OVEN CREEK 132776 P107
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OBJECTIVE FOR CALIBRATION RANGE OF INSTRUMENTS AT	PEACH BOTTOM 2 AND 30	102993 P195
ONLINE INSTRUMENTS ON INTAKE SCREENS AT	PEACH BOTTOM 2 AND 30	103075 P192
SECOND PAN ON COOLING TOWER FAILS AT	PEACH BOTTOM 2 AND 30	103077 P193
COOLING TOWER IMPERABLE AT	PEACH BOTTOM 2 AND 30	102607 P195
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ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	106977 P205
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	105513 P203
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	106326 P206
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	100081 P208
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ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	107685 P206
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	107606 P207
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	107687 P207
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	106765 P208
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	108266 P208
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	108555 P209
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ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	108683 P210
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	108256 P209
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ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	108795 P209
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	106528 P206
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	109292 P213
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	107686 P207
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	107219 P206
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	108265 P208
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	093571 P189
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	101399 P194
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	093563 P190
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	101452 P196
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	101727 P196
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	093628 P190
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	103082 P192
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ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	103082 P201
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ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	102561 P196
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ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	4 103145 P195
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	099699 P191
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	093248 P211
ONLINE TOWERS REMOVED FROM SERVICE AT	PEACH BOTTOM 2 AND 30	098960 P211

BRINEY JET PUMP OPERABILITY TEST NOT PERFORMED AT BRUNSWICK 20 104473 P 61
 OPERATING TESTS FOR MAY NOT PERFORMED AT BRUNSWICK 20 103649 P 30
 OPERATING TESTS FOR MAY NOT PERFORMED AT BRUNSWICK 20 100407 P 45
 BRUNSWICK ALUM AIR TREATMENT TEST NOT PERFORMED AT BRUNSWICK 20 104277 P 40
 BRUNSWICK LEAK RATE TESTING / CONTAINMENT AIR LOCK NOT PERFORMED AT FITZPATRICK 105241 P124
 CONTAINMENT AIR LOCK LEAK TEST NOT PERFORMED AT FITZPATRICK 105241 P123
 BRCL TESTS ON HPI PRESSURE SWITCHES NOT PERFORMED AT HATCH 10 103067 P130
 TESTING ON BRCL PUMP INSTRUMENTATION NOT PERFORMED AT HATCH 10 104615 P167
 TESTING OF THE TUNING CONTROL VALVE TEST NOT PERFORMED AT HATCH 10 104616 P167
 DISULFIDIC ANALYSIS OF REACTION LIQUANT SAMPLE NOT PERFORMED AT VERMONT TANKS 107001 P262
 INADEQUATE SAFETY EVALUATION NOT PERFORMED FOR CHANGE AT BIG ROCK POINT 093504 P 20
 BRCL INSTRUMENT CALIBRATION NOT PERFORMED ON ONE PUMP FLOW ORIFICE FLANGES AT BRUNSWICK 20 10744 P 50
 OFF-JAS EDUCATION VALVE TEST NOT PERFORMED ON SCHEDULE AT BRUNSWICK 20 100740 P 2
 OILBINE STOP VALVE CLOSURE TEST NOT PERFORMED ON SCHEDULE AT BRUNSWICK 20 100535 P 63
 OILBINE STOP VALVE CLOSURE TEST NOT PERFORMED ON TIME AT PILGRIM 105726 P233
 OILBINE STOP VALVE CLOSURE TEST NOT PERFORMED ON TIME AT VERMONT TANKS 107315 P250
 BRCL SYSTEM TESTING NOT PERFORMED PROPERLY AT PILGRIM 137331 P236
 DISULFIDIC ANALYSIS NOT PERFORMED WHEN REQUIRED AT COOPER 104022 P 76
 BRCL REACTION PRESSURE PERMISSIVE INSTRUMENT ISOLATED AT BRUNSWICK 20 101407 P250
 BRCL REACTION PRESSURE PERMISSIVE SET POINT EXCEEDS LIMIT AT BRUNSWICK 20 093505 P 47
 BRCL SPRAY - REACTION PRESSURE PERMISSIVE SWITCH FAILS AT BRUNSWICK 10 103149 P 49
 FOR LEAK HOUSING JAILED IMPROPERLY IN REACTION VESSEL AT BRUNSWICK 103070 P220
 CITIES 20 PERMISSIVE AIR LOCK DOOR SEALS LEAK EXCESSIVELY AT BRUNSWICK 102201 P240
 CONTINUED AND WITHDRAWN WITH PERMISSIVE WITHIN CONE LINE-UP-SIGHT AT BRUNSWICK 20 103070 P 49
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE OVERCURRENT RELAY DISABLED AT BRUNSWICK 20 104440 P146
 ON BY BREAKER C PERMISSIVE FOR MARK 2 CONTAINMENT AT LIMERICK 1 AND 20 102550 P240
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 093510 P 40
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 101707 P150
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 101700 P254
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103004 P201
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100605 P236
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 132003 P236
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 102001 P236
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100641 P235
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 109282 P235
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100616 P236
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 107515 P235
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100305 P235
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 109282 P236
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 132002 P236
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103041 P229
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103545 P229
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103547 P230
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103110 P229
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 105725 P233
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 093623 P227
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 105723 P232
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103546 P230
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104196 P234
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 102132 P227
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 102133 P220
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103548 P230
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100626 P232
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 105726 P233
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 132003 P236
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104276 P231
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 102130 P220
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104300 P232
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100201 P226
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100303 P233
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 105724 P232
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 093543 P227
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104199 P231
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103042 P229
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100000 P227
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104304 P233
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100200 P226
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 102131 P220
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103544 P230
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103343 P229
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104196 P231
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100099 P227
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104025 P232
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104197 P230
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104025 P232
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 093604 P226
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100204 P 70
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100205 P 40
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 090712 P 27
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103135 P136
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 100041 P 21
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 107704 P 70
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 093474 P130
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104613 P 47
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 104680 P124
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103198 P121
 BRCL SPRAY PUMP FAILS TO START DURING THE FIRST TEST PERMISSIVE FOR MARK 2 CONTAINMENT AT BRUNSWICK 1 AND 20 103359 P120

CONTAINMENT SPRAY LINE	PIPE SADDLES DAMAGED AT FITZPATRICK	101270 P110
	PIPE SUPPLY TUBING DAMAGED AT PEACH BOTTOM 20	100553 P270
HYDRAULIC	PIPE SUPPRESSION FAULTS AT DRESDEN 30	120377 P101
BLEEDUP SYSTEM	PIPE WELD LEAKS AT QUAD CITIES 20	133996 P267
GRINDER SMALL	PIPES IN RESONANCE SYSTEM FAIL AT QUAD CITIES 20	106137 P252
DEAN PAVAD IN LUBRICANT OIL DRIVE PUMP DISCHARGE	PIPING AT BIG ROCK POINT	120037 P 25
SCRAM INDICATORS IN RECOMBINATION BYPASS	PIPING AT HILLSTONE	123286 P106
EVENT LINE ON 000	PIPING CRACKS AT PEACH BOTTOM 20	130244 P230
HYDRAULIC	PIPING RESTRAINTS FAIL AT DRESDEN 30	009360 P 90
UNCONTROLLED RELEASE OF RADIOACTIVITY FROM OIL SEPARATOR	PIPING RESTRAINTS PUMPED TO 40 INTEMPERATE AT DRESDEN 30	102090 P106
DAMAGED COVERS IN SLOTTED FILTER TRASH NOT IN	PIPING LINEAR HEAT GENERATION RATE EXCEEDED AT FITZPATRICK	103722 P105
UNSEEN LINEAR	PLUMBO LINEAR HEAT GENERATION RATE LIMIT EXCEEDED AT	105293 P123
AT PILGRIM	PLUMBO EXCEEDS LIMITS AT COOPER	102573 P102
	PLANT STACK PROCESS DURATION MONITORING SYSTEM INOPERABLE	000135 P 07
	PLUGGED AT HATCH 10	120197 P230
	POINT ORIFT IN APRN AT FITZPATRICK	105511 P105
	POINT ORIFT IN APRN AT FITZPATRICK	003566 P116
	POINT ORIFT IN APRN INOP CIRCUIT AT HATCH 10	102800 P117
	POINT ORIFT IN APRN INOP INOP CIRCUIT AT PEACH BOTTOM 20	100264 P150
	POINT ORIFT IN APRN INOPERABLE ALARM AT FITZPATRICK	003067 P191
	POINT ORIFT IN APRN/FRON FLOW GAS CHANNEL AT BRNOLD	102756 P120
	POINT ORIFT IN AREA TEMPERATURE SWITCHES AT HATCH 10	130666 P 13
	POINT ORIFT IN COMPENSER VACUUM SWITCH AT HILLSTONE 10	130071 P152
	POINT ORIFT IN DIFFERENTIAL FLOW SWITCH AT HATCH 10	100520 P105
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD	100530 P109
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD	100704 P 10
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD	100590 P 13
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD	100589 P 9
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD	100705 P 10
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT ARNOLD	102153 P 9
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT CAMPBELL	121120 P 71
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT FITZPATRICK	101013 P110
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT HATCH 10	100605 P130
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT NINE MILE	105831 P177
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH	100003 P101
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH	102602 P215
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH	100732 P210
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCH AT PEACH	105276 P220
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCHES AT ARNOLD	100376 P 9
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCHES AT ARNOLD	100201 P 10
	POINT ORIFT IN DIFFERENTIAL PRESSURE SWITCHES AT PEACH	000730 P210
	POINT ORIFT IN DRYWELL HIGH PRESSURE SWITCH AT HILLSTONE 10	100000 P105
	POINT ORIFT IN DRYWELL PRESSURE SENSORS AT NINE MILE POINT	120090 P176
	POINT ORIFT IN DRYWELL PRESSURE SWITCH AT NINE MILE POINT	120194 P180
	POINT ORIFT IN DRYWELL PRESSURE SWITCHES AT BRUNSWICK 20	100577 P 05
	POINT ORIFT IN DRYWELL PRESSURE SWITCHES AT QUAD CITIES 20	100730 P260
	POINT ORIFT IN EMC FLOW LOW PRESSURE SENSORS AT QUAD	107000 P252
	POINT ORIFT IN EMERGENCY VENT RADIATION MONITORS AT NINE	100010 P170
	POINT ORIFT IN FLOW SENSOR AT HILLSTONE 10	105035 P103
	POINT ORIFT IN FLOW SENSOR AT NINE MILE POINT	101200 P175
	POINT ORIFT IN FLOW SENSORS AT DRESDEN 30	105100 P106
	POINT ORIFT IN FLOW SWITCH AT HATCH 10	102737 P137
	POINT ORIFT IN HIGH FLOW SWITCH AT PEACH BOTTOM 30	100995 P223
	POINT ORIFT IN HPCI AREA TEMPERATURE SENSORS AT DRESDEN 30	102505 P106
	POINT ORIFT IN HPCI AREA TEMPERATURE SENSORS AT DRESDEN 30	102856 P106
	POINT ORIFT IN INTERMEDIATE RANGE NEUTRON MONITORS AT	100305 P 76
	POINT ORIFT IN IRR AT BRUNSWICK 20	100395 P 03
	POINT ORIFT IN IRR AT DRESDEN 30	100007 P110
	POINT ORIFT IN LEVEL SENSOR AT DRESDEN 30	100376 P101
	POINT ORIFT IN LEVEL SENSORS AT NINE MILE POINT	100211 P174
	POINT ORIFT IN LEVEL SWITCH AT ARNOLD	100926 P 17
	POINT ORIFT IN LEVEL SWITCH AT ARNOLD	000031 P 2
	POINT ORIFT IN LEVEL SWITCH AT ARNOLD	100072 P 9
	POINT ORIFT IN LEVEL SWITCH AT DRESDEN 20	003236 P 05
	POINT ORIFT IN LEVEL SWITCH AT HATCH 10	100000 P106
	POINT ORIFT IN LEVEL SWITCH AT NINE MILE POINT	102055 P176
	POINT ORIFT IN LIQUID LEVEL SWITCH AT VERMONT FARMER	103144 P250
	POINT ORIFT IN MECHANICAL OVERSPEED AT HATCH 10	100072 P151
	POINT ORIFT IN PRESSURE CHANNEL AT CALROSSER	100300 P150
	POINT ORIFT IN PRESSURE SENSOR AT QUAD CITIES 10	100450 P240
	POINT ORIFT IN PRESSURE SENSOR AT QUAD CITIES 10	100930 P240
	POINT ORIFT IN PRESSURE SWITCH AT ARNOLD	003501 P 1
	POINT ORIFT IN PRESSURE SWITCH AT ARNOLD	100005 P 11
	POINT ORIFT IN PRESSURE SWITCH AT ARNOLD	100273 P 10
	POINT ORIFT IN PRESSURE SWITCH AT ARNOLD	100300 P 14
	POINT ORIFT IN PRESSURE SWITCH AT BIG ROCK POINT	100370 P 21
	POINT ORIFT IN PRESSURE SWITCH AT COOPER	100525 P 01
	POINT ORIFT IN PRESSURE SWITCH AT COOPER	100241 P 09
	POINT ORIFT IN PRESSURE SWITCH AT COOPER	003236 P 06
	POINT ORIFT IN PRESSURE SWITCH AT HATCH 10	101000 P137
	POINT ORIFT IN PRESSURE SWITCH AT HATCH 10	102001 P130
	POINT ORIFT IN PRESSURE SWITCH AT HILLSTONE 10	100057 P102
	POINT ORIFT IN PRESSURE SWITCH AT HILLSTONE 10	100303 P106
	POINT ORIFT IN PRESSURE SWITCH AT OYSTER CREEK	100005 P105
	POINT ORIFT IN PRESSURE SWITCH AT PILGRIM	105727 P232
	POINT ORIFT IN PRESSURE SWITCH AT VERMONT FARMER	100076 P257

20

AT MATCH 10

20
PEACH BOTTOM 20

0	PRESSURE	DIFFERENTIAL SWITCH FOUND VALVED OUT OF SERVICE	105513 P165
0	PRESSURE	EXCEEDS LIMIT AT QUAD CITIES 20	137832 P253
0	PRESSURE	INSTRUMENT LINE VALVE FOUND CLOSED AT ARNOLD	109257 P 10
0	PRESSURE	INSTRUMENTS SET IMPROPERLY AT FITZPATRICK	099262 P110
0	PRESSURE	LOW AT MYSTER CREEK	103205 P104
0	PRESSURE	PERMISSIVE INSTRUMENT ISOLATED AT VERMONT YANKEE	101167 P250
0	PRESSURE	PERMISSIVE SWITCH FAILS AT DRESDEN 10	103189 P 83
0	PRESSURE	RECUPIER CHART STOPS AT QUANSDEN 20	106625 P 49
0	PRESSURE	RECUPIER HEADING HIGH AT QUANSDEN 20	106270 P 62
0	PRESSURE	SCRAM SENSOR FOUND ISOLATED AT QUAD CITIES 10	103164 P260
0	PRESSURE	SCRAM SWITCH FOUND IMPROPERLY AT HILLSTONE 10	104045 P109
0	PRESSURE	SCRAM SWITCHES FOUND VALVED OUT AT QUAD CITIES 10	107600 P261
0	PRESSURE	SENSOR AT QUAD CITIES 10	104039 P260
0	PRESSURE	SENSOR AT QUAD CITIES 10	104054 P260
0	PRESSURE	SENSORS AT DRESDEN 10	105947 P107
0	PRESSURE	SENSORS AT NINE MILE POINT	103690 P170
0	PRESSURE	SENSORS AT QUAD CITIES 10	102113 P260
0	PRESSURE	SERVICE WATER PUMP FAILS TO START AT PEACH BOTTOM	104901 P203
0	PRESSURE	SERVICE WATER VALVE FOUND TO BE INOPERABLE AT	125279 P219
0	PRESSURE	SERVICE WATER VALVE MOTOR TRIPS AT PEACH BOTTOM 30	104003 P217
0	PRESSURE	SUPPRESSION VALVES HIGH AT QUAD CITIES 20	101739 P263
0	PRESSURE	SWITCH AT ARNOLD	106273 P 16
0	PRESSURE	SWITCH AT ARNOLD	107000 P 14
0	PRESSURE	SWITCH AT ARNOLD	106598 P 13
0	PRESSURE	SWITCH AT ARNOLD	106704 P 10
0	PRESSURE	SWITCH AT ARNOLD	104005 P 11
0	PRESSURE	SWITCH AT ARNOLD	102150 P 5
0	PRESSURE	SWITCH AT ARNOLD	104705 P 10
0	PRESSURE	SWITCH AT ARNOLD	104300 P 9
0	PRESSURE	SWITCH AT ARNOLD	093541 P 1
0	PRESSURE	SWITCH AT BIG ROCK POINT	103070 P 21
0	PRESSURE	SWITCH AT COOPER	100525 P 81
0	PRESSURE	SWITCH AT COOPER	102128 P 71
0	PRESSURE	SWITCH AT COOPER	100241 P 69
0	PRESSURE	SWITCH AT COOPER	093230 P 60
0	PRESSURE	SWITCH AT DRESDEN 20	107500 P 90
0	PRESSURE	SWITCH AT DRESDEN 30	100926 P102
0	PRESSURE	SWITCH AT DRESDEN 30	101076 P102
0	PRESSURE	SWITCH AT FITZPATRICK	102147 P119
0	PRESSURE	SWITCH AT FITZPATRICK	101193 P119
0	PRESSURE	SWITCH AT FITZPATRICK	099260 P112
0	PRESSURE	SWITCH AT HATCH 10	103655 P139
0	PRESSURE	SWITCH AT HATCH 10	102491 P136
0	PRESSURE	SWITCH AT HATCH 10	103000 P137
0	PRESSURE	SWITCH AT HATCH 10	102156 P135
0	PRESSURE	SWITCH AT HILLSTONE 10	100009 P165
0	PRESSURE	SWITCH AT HILLSTONE 10	104057 P163
0	PRESSURE	SWITCH AT HILLSTONE 10	106343 P164
0	PRESSURE	SWITCH AT NINE MILE POINT	105637 P177
0	PRESSURE	SWITCH AT NINE MILE POINT	129194 P180
0	PRESSURE	SWITCH AT OSTER CREEK	124605 P185
0	PRESSURE	SWITCH AT PEACH BOTTOM 20	121452 P194
0	PRESSURE	SWITCH AT PEACH BOTTOM 20	100000 P191
0	PRESSURE	SWITCH AT PEACH BOTTOM 30	102600 P215
0	PRESSURE	SWITCH AT PEACH BOTTOM 30	105296 P220
0	PRESSURE	SWITCH AT PEACH BOTTOM 30	106732 P218
0	PRESSURE	SWITCH AT PEACH BOTTOM 30	099097 P212
0	PRESSURE	SWITCH AT PILGRIM	105723 P232
0	PRESSURE	SWITCH AT QUAD CITIES 10	101171 P230
0	PRESSURE	SWITCH AT QUAD CITIES 20	093252 P242
0	PRESSURE	SWITCH AT VERMONT YANKEE	099092 P257
0	PRESSURE	SWITCH AT VERMONT YANKEE	100076 P257
0	PRESSURE	SWITCH CAPILLARY TUBING FOUND PLUGGED AT HATCH 10	105511 P165
0	PRESSURE	SWITCH ERRATIC AT HATCH 10	100005 P133
0	PRESSURE	SWITCH FAILS TO ACTUATE AT COOPER	093572 P212
0	PRESSURE	SWITCH FAILS TO FUNCTION AT HILLSTONE	103063 P 70
0	PRESSURE	SWITCH FAILS TO OPERATE AT QUAD CITIES 20	103679 P162
0	PRESSURE	SWITCH FAILS TO RESPOND AT PEACH BOTTOM 20	136729 P269
0	PRESSURE	SWITCH FOUND VALVED OUT AT QUAD CITIES 20	100001 P192
0	PRESSURE	SWITCH IMPROPERLY AT ARNOLD	101581 P250
0	PRESSURE	SWITCH OUT OF LIMITS AT VERMONT YANKEE	100260 P 2
0	PRESSURE	SWITCH PROBLEMS AT COOPER	093160 P256
0	PRESSURE	SWITCH SENSING LINE CONTAIN WATER AT HATCH 10	100602 P141
0	PRESSURE	SWITCH SET ABOVE LIMITS AT HATCH 10	104674 P139
0	PRESSURE	SWITCH VALVED IMPROPERLY AT PILGRIM	104196 P231
0	PRESSURE	SWITCHES AT ARNOLD	093632 P 2
0	PRESSURE	SWITCHES AT ARNOLD	103192 P 8
0	PRESSURE	SWITCHES AT ARNOLD	093256 P 1
0	PRESSURE	SWITCHES AT ARNOLD	093555 P 1
0	PRESSURE	SWITCHES AT ARNOLD	100376 P 9
0	PRESSURE	SWITCHES AT ARNOLD	107773 P 14
0	PRESSURE	SWITCHES AT ARNOLD	104664 P 11
0	PRESSURE	SWITCHES AT ARNOLD	102701 P 10
0	PRESSURE	SWITCHES AT ARNOLD	100657 P 65
0	PRESSURE	SWITCHES AT ARNOLD	100056 P 65
0	PRESSURE	SWITCHES AT COOPER	100009 P 69
0	PRESSURE	SWITCHES AT DRESDEN 20	101076 P 89

EMERGENCY SERVICE WATER	PUMP DISCHARGE PRESSURE LOW AT SYSTEM CHECK	133205 P104
OCURE SPRAY	PUMP DISCHARGE STOP CHECK VALVE FAILS AT DRESDEN 20	099367 P 06
OSALC ON REACTION RECIRCULATION	PUMP FAIL AGAIN AT BRUNSWICK 20	102597 P 52
OSALC ON REACTION RECIRCULATION	PUMP FAIL AT BRUNSWICK 20	122598 P 52
EMERGENCY SERVICE WATER	PUMP FAILS AT BRUNSWICK	132423 P 3
OSALC SAMPLE	PUMP FAILS AT BRUNSWICK 20	107099 P 50
OSALC SAMPLE	PUMP FAILS AT BRUNSWICK 20	105176 P165
OSALC GAS SAMPLE	PUMP FAILS AT SYSTEM CHECK	130347 P105
OSALC SYSTEM SERVICE WATER	PUMP FAILS AT JUND CITIES 10	102996 P290
OSALC SYSTEM SERVICE WATER	PUMP FAILS AT VERMONT VAMBER	101140 P290
OSALC SYSTEM SERVICE WATER	PUMP FAILS AT VERMONT VAMBER	100493 P265
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO ACHIEVE REQUIRED FLOW AT FITZPATRICK	099257 P112
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO DELIVER REQUIRED FLOW AT VERMONT VAMBER	103907 P260
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AT ARNOLD	103602 P 0
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AT NINE MILE POINT 10	133307 P173
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AT NINE MILE POINT 10	130991 P177
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AT NINE MILE POINT 10	100099 P170
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AT OYSTER CREEK	103942 P181
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AT OYSTER CREEK	100972 P182
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AT PEACH BOTTOM 20	100981 P203
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START AUTOMATICALLY AT OYSTER CREEK	100531 P187
OSALC SYSTEM SERVICE WATER	PUMP FAILS TO START DURING THE FIRST TEST PHASE AT JUND	102550 P260
OSALC SYSTEM SERVICE WATER	PUMP FLANGE INDICATIONS AT BRUNSWICK 20	100900 P 65
OSALC SYSTEM SERVICE WATER	PUMP FLOW LESS THAN LIMIT AT JUND CITIES 20	100909 P250
OSALC SYSTEM SERVICE WATER	PUMP FLOW CHIFFICE PLUMBER AT BRUNSWICK 20	107004 P 50
OSALC SYSTEM SERVICE WATER	PUMP FLOW RATE LESS THAN LIMIT AT JUND CITIES 10	105183 P261
OSALC SYSTEM SERVICE WATER	PUMP FLOW RATE LESS THAN LIMIT AT JUND CITIES 20	100000 P260
OSALC SYSTEM SERVICE WATER	PUMP FLOW RATE LESS THAN REQUIRED AT VERMONT VAMBER	103600 P290
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CITIES 20

AT DRESDEN PERMIT 10

PEACH BOTTOM 30

30 PROPOSED IMPOSITION OF LEVEL PENALTIES OF \$25000 AT
 BRUNSWICK INCREASE OF REACTION POWER AT
 OCURE SPRAY DISCHARGE HEADER RELAY VALVE SET FLOW LINE AT
 REACTION PUMP PUMP DISCHARGE HEADER LEAKS AT
 BRPS PRESSURE SCRAM SWITCHES FOUND VALVED OUT AT
 WATER ADDED TO TANK WHILE IT WAS BEING DISCHARGED AT
 BRPS VALVE FAILS TO FULLY CLOSE AT
 STOP MACHINE BALL VALVE FAILS IN THE OPEN POSITION AT

JUND CITIES 1 AND 20
 JUND CITIES 10
 JUND CITIES 10
 JUND CITIES 10
 JUND CITIES 10
 JUND CITIES 10
 JUND CITIES 10
 JUND CITIES 10
 JUND CITIES 10

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1380750	25
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1382813	26
1383236	26
1383301	26
1385553	23
1386497	22
1386986	22
1389442	21
0932777	19
1331806	21
0935006	20
0937111	20
0939662	23
1311511	21
1335743	21
1335318	21
1335326	21
0935206	19
1322995	21
1333070	21
1326299	23
1330007	26
1330235	26
1331817	22
1333702	23
1382821	25
1382998	26
1332326	26
1389946	26
1390046	20
1326586	162
1326587	162
1329023	23
0935444	114
1002339	115
1006275	115
1013003	4
1030912	4
1306817	55
1267333	106
0979667	23
1035553	20
1332371	31
0935433	68
1389527	26
1008257	26
1380750	25
0935505	19
1388006	26
1021449	19
1379661	155
1022289	161
1061193	199
1388055	70
1313773	103
1305885	132
1303386	116
1002238	115
1303775	93
1325842	23
1326007	23
1326008	23
1326396	27
1004551	150
1374229	14
1335008	12
1029000	239
1333985	92
1266118	68
1082277	68
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BSET POINT DRIFT IN PRESSURE	SWITCHES AT ARNOLD	093556 P 1
BSET POINT DRIFT IN PRESSURE	SWITCHES AT ARNOLD	093555 P 1
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BSET POINT DRIFT IN DIFFERENTIAL PRESSURE	SWITCHES AT ARNOLD	107770 P 14
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BSET POINT DRIFT IN PRESSURE	SWITCHES AT DRESDEN 30	104361 P100
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BMPCE	SYSTEM INLET VALVE FAILS TO OPEN AT QUAD CITIES 20	103479 P247
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BMPCE	SYSTEM IMPERABLE AT PILGRIM	104197 P230
BMPCE	SYSTEM IMPERABLE AT QUAD CITIES 10	102874 P230

QUAD CITIES 20

..V 5 864 6 1000 40
..V 5 864 6 1000 40

10

202506	P 19
102503	P 251
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44 WILCOX

Other room equipment in standby was inoperative
One pump unit in ventilation trip
One pump vibration

UNRECORDED REACTOR COOLANT LEAKAGE EXCEEDED ABOVE LIMIT AT
0001 AT COMPTON
0001 AT MILLSTONE POINT 10
0001 MAINTENANCE AT MILLSTONE 10
UNRECORDED REACTOR PUMP RECEIVED AT SIX MICH POINT
UNRECORDED REACTOR INCREASED RETURN LINE LEAKS AT ONE FOUR 10
UNRECORDED RELEASE OF FLUORINE GAS SAMPLE TANK AT
UNRECORDED RELEASE OF GASEOUS RADIOACTIVITY FROM VENTS AT
UNRECORDED AT 245 RELEASE AND PROGRAMME FUEL FAILURE OF
UNRECORDED RADIOACTIVITY RELEASE TO BUILT LINE OF ONE SEVEN
UNRECORDED RELEASE OF COMBUSTED WATER OCCURS AT PEACH
UNRECORDED RELEASE OF DRYER FEED PUMP TO OVER AT MATCH 10
UNRECORDED RELEASE OF RADIOACTIVITY LEAKS AT COMPTON
UNRECORDED RELEASE OF WATER PUMP REPAIR WORK AT ONE SEVEN 10

152153 P 6
153157 P 72
1575C1 P 100
158145 P 102
158986 P 25
158102 P 84
158825 P 6
157266 P 20
153462 P 207
158866 P 87
154382 P 202
157410 P 101
158109 P 72
153062 P 83
154174 P 100

2010000000 20
 2010000000 20
 2010000000 20
 2010000000 20
 2010000000 20

REACTION AND A VOLTAGE INSTANTLY FALLS TO ZERO UP AT PEAK VOLTAGE
 ON REACTION UP REACTION JUMPS
 REACTION AFTER CLEAR UP SYSTEM ISOLATED
 REACTION CLEAR UP SYSTEM HAVE
 REACTION GENERATION FALLS TO ZERO UP IN VOLTAGE AT

1- UPPER ISOLATION VALVE ON LEVEL INSTRUMENT FOUND CLOSED AT
 2- UPPER ISOLATION VALVE ON LEVEL INSTRUMENT FOUND CLOSED AT
 3- UP REPORT ON SUCH SUPPRESSION FAILURES AT DESIGN 20
 4- UP SYSTEM ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 20
 5- UP SYSTEM VALVE DESIGN FOUND DEFICIENT AT BIG ROCK POINT
 6- UP TO VOLTAGE AT CHANDLER 20
 7- UPPER ISOLATION VALVE ON LEVEL INSTRUMENT FOUND CLOSED AT
 8- UPSCALE ALARM AND SHUT AT FITZPATRICK
 9- UPSCALE AT PEACH BOTTOM 20
 10- UPSCALE ALSO BUCKLE TRIP AT ANNUAL 20
 11- USE IT MATCH 20
 12- USE OF PUMP PROCEDURES AT BIG ROCK POINT
 13- USING APPROVED PROCEDURE AT CHANDLER 20
 14- USING APPROVED PROCEDURE AT CHANDLER 20

2015-01-20

DETECTIVE UNIT IN APRIL
DURING WHICH SEVERAL FILES
DETECTIVE UNIT IN APRIL
DUE TO VARIOUS MALFUNCTIONS DURING
PERIOD AND SCAM TESTED WITHOUT
DETECTIVE CALLED WITHOUT
DETECTIVE CALLED WITHOUT

UPPER ISLANDS W/VEHICLE ON CREEK TOWNSHIP/IN VEHICLES CLOSED AT
UPPER ALMA AND W/UP AT FISHPATERICK
UPPER ALMA AT PEACH BOTTOM 20
UPPER ALMA ALMA TWP AT ALMA 20
USE AT MATCH 10
USE OF PROPER PROCEDURES AT BIG ROCK POINT
USING APPROVED PROCEDURE AT BRUNSWICK 20
USING APPROVED PROCEDURES AT BRUNSWICK 20

101214 P 200
100303 P 114
107605 P 200
100912 P 4
120306 P 151
100009 P 20
103071 P 30
103093 P 30

THE JURY

VALVE OPERATE ALARM FAILS TO ANNUNCIATE AT OYSTER CREEK
 VALVE OPERATE ALARM FAILS TO OPERATE AT JUSTIN CREEK
 VALVE OPERATE APPEARED IMPERMEABLE AT PILGRIM
 VALVE OPERATE CONTROL DEFICIENCY AT JUSTIN CREEK
 VALVE OPERATE FAILS TO CLOSE AT MATCH 10
 VALVE OPERATE FAILS TO OPEN AT OYSTER CREEK
 VALVE OPERATE FOUND IMPERMEABLE AT QUAD CITIES 20
 VALVE OPERATE INDICATING SWITCH STICKS AT MATCH 10
 VALVE OPERATE VALVE LEAKAGE HIGH AT OYSTER CREEK
 VALVE OPERATE'S FAIL TO OPEN AT QUAD CITIES 20
 VALVE PUMP VALVES FAIL TO OPERATE AT CUMBER
 VALVE RELIEF CHECK VALVE EXCESSIVE AT PEACH BOTTOM 30
 VALVE RELIEF TO ATMOSPHERE SWITCHES NOT TESTED AT NINE
 VALVE RELIEF VALVE AT NINE MILE POINT
 VALVE RELIEF VALVES MULTIPLE AT HAMBOLD DAVE
 VALVE SWITCH AT HELLSTONE 10
 VALVE SWITCH AT PEACH BOTTOM 20
 VALVE SWITCH AT PEACH BOTTOM 30
 VALVE SWITCHES AT PEACH BOTTOM 20
 VALVE AT PITTSBURGH
 VALVE AT BRUNSWICK FERRY STATION
 VALVE AT PITTSBURGH
 VALVES AT HELLSTONE 10
 VALVE AT BRUNSWICK PERRY 10
 VALVE AT JORDSON 30
 VALVE AT JORDSON 30
 VALVE AT NINE MILE POINT
 VALVE AT PEACH BOTTOM 10
 VALVE AT PEACH BOTTOM 20
 VALVE AT PEACH BOTTOM 20
 VALVE AT PEACH BOTTOM 20
 VALVE AT PEACH BOTTOM 30
 VALVE AT PEACH BOTTOM 30
 VALVE AT QUAD CITIES 20
 VALVE BECAME IMPERMEABLE AT PILGRIM
 VALVE BECAME IMPERMEABLE AT PILGRIM
 VALVE BELLWIS ALARM ACTUATED AT MATCH 10
 VALVE BELLWIS LEAKS AT BRUNSWICK 20
 VALVE BELLWIS PRESSURE SWITCHES QUAD IMPERMEABLE AT PEACH
 VALVE BINDING AT QUAD CITIES 20
 VALVE CLOGGED AT BRUNSWICK 20
 VALVE CLOGGED AT BRUNSWICK 20
 VALVE BODY LEAKS AT PEACH BOTTOM 20
 VALVE BYPASS LINE AT QUAD CITIES 10
 VALVE BYPASS LINE AT QUAD CITIES 10
 VALVE CIRCUIT BREAKER TRIPS AT BRUNSWICK 20
 VALVE CLOSES AT BRUNSWICK
 VALVE CLOSES TOO RAPIDLY AT JORDSON 20
 VALVE CLOSING SPRING BINDING AT HAMBOLD
 VALVE CLOSURE TEST NOT PERFORMED ON LINE AT PILGRIM

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100776 P 180
100700 P 230
100344 P 230
100305 P 180
099919 P 180
100051 P 240
100419 P 140
101005 P 240
100000 P 180
133106 P 240
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100070 P 180
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100362 P 200
100379 P 180
120013 P 180
100002 P 180
100370 P 180
100066 P 200
090033 P 220
100066 P 220
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100306 P 180
100012 P 240
100051 P 220
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100010 P 240
100011 P 240
100245 P 240
100010 P 250
100010 P 250
100020 P 60
100057 P 90
100250 P 180
100576 P 230

401/32 10

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                                ONOFF/7/RELIEF
MAIN STEAM SAFETY-RELIEF
                                ONOFF
OPERATOR INFORMATION ON
ONOFF FUNCTION OF SAFETY RELIEF
ONOFF FUNCTION OF SAFETY RELIEF
                                ONOFF SYSTEM RELIEF
PLANNED INDICATIONS IN REINTEGRATION
WARNING IN REACTION REINTEGRATION PUMP
                                ONOFF
ONOFF STEAM ISOLATION
ONOFF STEAM ISOLATION
ONOFF STEAM ISOLATION
                                ONOFF/7/STOP

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VALVE BELLOWS IMPROPERLY SECTORED
 VALVE BELLOWS ROOM ACTUATED AT PERCH BOTTOM 10
 VALVE BELLOWS LEAKS AT BRUNSWICK 20
 VALVE BELLOWS PRESURE SWITCHES FOUND INOPERABLE AT PERCH
 VALVE BINDING AT QUAG CITIES 20
 VALVE BLOCKED AT BRUNSWICK 20
 VALVE BLOCKED AT BRUNSWICK 20
 VALVE BODY LEAKS AT PERCH BOTTOM 20
 VALVE BYPASS LINE AT QUAG CITIES 20
 VALVE BYPASS LINES AT QUAG CITIES 10
 VALVE CHECKW REAKER TAPS AT BRUNSWICK 20
 VALVE CLOSES AT BRUNSWICK
 VALVE CLOSES TOO RAPIDLY AT DORSEY 20
 VALVE CLOSING SPRING BINDING AT AMHOLD
 VALVE CLOSURE TEST NOT PERFORMED ON LINE AT PILGRIMO

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100412 P 40
100451 P 22
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100410 P 40
100411 P 40
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099349 P 23
107419 P 51
100220 P 61
100557 P 10
100259 P 10
105126 P 23

 

AT 2000 LITERS PER

20 JULY 1954

NOTHING TO REPORT

•XU 7,5450

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NUCLEAR SAFETY

A BIMONTHLY REVIEW JOURNAL PREPARED BY NSIC

Nuclear Safety covers significant developments in the field of nuclear safety.

The scope is limited to topics relevant to the analysis and control of hazards associated with nuclear reactors, operations involving fissionable materials, and the products of nuclear fission.

Primary emphasis is on safety in reactor design, construction, and operation; however, safety considerations in reactor fuel fabrication, spent-fuel processing, nuclear waste disposal, handling of radioisotopes, and related operations are also treated.

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