

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 81-06

JUNE, 1981

APPROVED: _____

J. Wilson
MANAGER

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OPERATING DATA REPORT

DOCKET NO. 50-280
DATE 10 JUL 81
COMPLETED BY SUE D. DUNN
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	60181 TO 63081
3. LICENSED THERMAL POWER (MWT)	2441 -----
4. NAMEPLATE RATING (GROSS MWE)	847.5 NOTES
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY N/A
(NET MWE)

10. REASONS FOR RESTRICTIONS, IF ANY N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	720.0	4343.0	74711.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	0.0	42538.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3731.5
14. HOURS GENERATOR ON-LINE	0.0	0.0	41668.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	3736.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	0.0	96389401.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	0.0	31301743.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.0	0.0	29699924.0
19. UNIT SERVICE FACTOR	0.0	0.0	55.8 %
20. UNIT AVAILABILITY FACTOR	0.0	0.0	60.8 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	51.3 %
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	50.4 %
23. UNIT FORCED OUTAGE RATE	0.0	0.0	26.4 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)			

25. IF SHUT DOWN AT END OF REPORT PERIOD, JULY 8, 1981
ESTIMATE DATE OF STARTUP

26. UNITS IN TEST STATUS FORECAST ACHIEVED
(PRIOR TO COMMERCIAL OPERATION)

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50-281
 DATE 10 JUL 81
 COMPLETED BY O.J. COSTELLO
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2
2. REPORTING PERIOD	60181 TO 63081
3. LICENSED THERMAL POWER (MWT)	2441 -----
4. NAMEPLATE RATING (GROSS MWE)	847.5 NOTES
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY N/A
 (NET MWE)
 10. REASONS FOR RESTRICTIONS, IF ANY N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	720.0	4343.0	71591.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	718.1	4094.0	41878.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	715.5	4059.4	41196.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1728261.0	9830696.0	96285357.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	556310.0	3200280.0	31439274.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	526876.0	3034119.0	29812607.0
19. UNIT SERVICE FACTOR	99.4 %	93.5 %	57.5 %
20. UNIT AVAILABILITY FACTOR	99.4 %	93.5 %	57.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	94.4 %	90.1 %	53.7 %
22. UNIT CAPACITY FACTOR (USING DEK NET)	92.9 %	88.7 %	52.8 %
23. UNIT FORCED OUTAGE RATE	0.6 %	1.2 %	18.3 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	SNUBBER INSP. AUG. 26 1981 REFUELING, 1981 11-13-81 - 12-25-81		

25. IF SHUT DOWN AT END OF REPORT PERIOD,
 ESTIMATE DATE OF STARTUP
 26. UNITS IN TEST STATUS
 (PRIOR TO COMMERCIAL OPERATION)

FORECAST ACHIEVED

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JUNE, 1981

DOCKET NO. 50-280
 UNIT NAME Surry Unit 1
 DATE July 10, 1981
 COMPLETED BY Sue D. Dunn
 TELEPHONE 804-357-3184

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
81-6	6-1-81	S	720		1				Continuation of shutdown for Steam Generator Replacement which commenced 09-14-80.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

⁴
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY, 1981

DOCKET NO. 50-281
 UNIT NAME Surry Unit 2
 DATE July 10, 1981
 COMPLETED BY Sue D. Dunn
 TELEPHONE 804-357-3184

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
81-6	06-29-81	S	0	H	4				Reduced power from "Load-Follow" Program.
81-7	06-29-81	F	4.5	H	3				Reactor turbine trip caused by removal of generator output potential transformer fuses on Unit 2 instead of Unit 1. The department concerned has been instructed to exercise more care in future maintenance endeavors.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

⁴
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

⁵
 Exhibit I - Same Source

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: JUNE, 1981

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
None during this reporting period.						
MONTHLY TOTAL					0	

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 2

MONTH: JUNE, 1981

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
			None during this reporting period.			
MONTHLY TOTAL					0	

DOCKET NO 50-280
UNIT SURRY I
DATE 7-1-81
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JUNE 81

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0.0	16	0.0
2	0.0	17	0.0
3	0.0	18	0.0
4	0.0	19	0.0
5	0.0	20	0.0
6	0.0	21	0.0
7	0.0	22	0.0
8	0.0	23	0.0
9	0.0	24	0.0
10	0.0	25	0.0
11	0.0	26	0.0
12	0.0	27	0.0
13	0.0	28	0.0
14	0.0	29	0.0
15	0.0	30	0.0

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 % LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

DOCKET NO 50-281
UNIT SURRY II
DATE 7-1-81
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JUNE 81

DAY	AVERAGE DAILY POWER LEVEL (M/E-NET)	DAY	AVERAGE DAILY POWER LEVEL (M/E-NET)
1	750.5	16	738.1
2	753.4	17	737.0
3	747.0	18	737.5
4	746.9	19	737.9
5	744.3	20	740.4
6	738.6	21	736.0
7	739.8	22	740.7
8	746.6	23	741.9
9	746.5	24	742.3
10	744.2	25	739.0
11	739.7	26	745.2
12	742.6	27	741.1
13	741.7	28	738.5
14	726.4	29	516.1
15	732.0	30	681.2

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN M/E-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 +/- LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

SUMMARY OF OPERATING EXPERIENCE

JUNE, 1981

Listed below in chronological sequence by unit is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

UNIT 1

- June 1 - This reporting period begins with the unit at cold shutdown for steam generator replacement and major design changes. In the process of replacing the reactor vessel head a thermocouple instrument column (Southeast quadrant) was damaged and the head replacement was aborted.
- June 4 - The damaged instrument column (Southeast quadrant) was removed and head replacement completed at 1030.
- June 9 - The reactor vessel head was removed at 1640 to allow removal of the guide pin in stud hole number 37.
- June 13 - The guide pin and insert was removed at 2100.
- June 16 - Repairs to stud hole number 37 were completed and the head replaced at 0901.
- June 19 - Reactor vessel head tensioning completed.
- June 25 - Commenced raising containment pressure for PT-16.3 (Type "A" Containment Leak Rate Test) at 1837.
- June 26 - Reached Type "A" test pressure (61.483 psia) at 0543.
- June 27 - Type "A" test satisfactorily completed at 1857. Commenced depressurizing containment. Containment at atmospheric pressure at 0700.
- June 30 - This reporting period ends with the unit at cold shutdown condition with preparations for unit recovery in progress.

UNIT 2

- June 1 - This reporting period begins with the unit at 100% power.
- June 14 - Reduced power to 740 MWe to allow removal of the "A" condenser waterbox from service for cleaning at 0158. "A" waterbox was returned to service at 0547 and the unit was at 100% power at 0710.

SUMMARY OF OPERATING EXPERIENCE
(CONTINUED)

UNIT 2

- June 29 - Commenced reducing load at 150 MWe per hour for load follow program at 0104. Stopped load decrease at 440 MWe at 0237. Commenced increasing power at 150 MWe per hour at 0436 and reached 100% power at 0646. At 1757 the reactor was tripped by a turbine trip, when the generator output potential transformer fuses on Unit 2 were pulled by mistake, while making preparations to replace the Unit 1 generator output "links". The reactor was critical at 1925. The reactor tripped at 2025 when turbine first stage pressure spiked to 15% with the generator output breakers open. The reactor was critical at 2048 and the generator was synchronized to the line at 2228.
- June 30 - The unit reached 100% power at 0615. This reporting period ends with the unit at 100% power.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

JUNE, 1981

The Nuclear Regulatory Commission issued, on May 12, 1981, Amendment No. 67 to the Operating Licenses for Surry Power Station, Units No. 1 and No. 2. The changes have been designated as Technical Specification Change No. 75.

Of significance, the changes revise the Technical Specifications to provide adequate redundancy for removing decay heat during all modes of operation. The changes also revise the Technical Specifications by requiring maintenance of at least 23 feet of water over the top of the reactor pressure vessel flange during movement of fuel assemblies or control rods. In addition to the requirements of the Technical Specifications, paragraph 3.B of the Operating Licenses for Units No. 1 and No. 2 is amended as follows:

"(B) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 67, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

The Nuclear Regulatory Commission issued, on May 19, 1981, Amendment No. 68 to the Operating Licenses for Surry Power Station, Units No. 1 and No. 2. The changes have been designated as Technical Specification Change No. 76.

Of significance, the changes revise the Technical Specifications to clarify the requirement for testing the personnel air lock. In addition, the changes delete references to the proposed Appendix J to 10 CFR Part 50 since Appendix J was revised on October 22, 1980.

The Nuclear Regulatory Commission issued, on May 22, 1981, Amendment No. 69 to the Operating Licenses for Surry Power Station, Units No. 1 and No. 2. The changes have been designated as Technical Specification Change No. 77.

Of significance are the following changes:

1. Revisions to the corporate organization as a result of the April 1, 1980 corporate reorganization and the addition of a Senior Vice President - Power Operations and a Vice President - Nuclear Operations.
2. Revisions to the station organization, including the incorporation of an Assistant Station Manager.
3. The replacement of the System Nuclear Safety and Operating Committee (SyNSOC) with the Safety Evaluation and Control staff to perform the independent review function.
4. The transfer of SyNSOC audit responsibilities to the Quality Assurance Department.
5. The addition of the Assistant Station Manager and the Supervisor - Health Physics to the Station Nuclear Safety and Operating Committee (SNSOC) as members.
6. Revisions to the minimum shift crew composition table, including the addition of a Shift Technical Advisor (STA).

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS (CONTINUED)

7. Revisions to the actions required for reportable occurrences and violations of safety limits.

In addition, paragraph 3.B of the Operating License is amended to read as follows:

"(B) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 69, are hereby incorporated in the license. The Licensee shall operate the facility in accordance with the Technical Specifications."

The Nuclear Regulatory Commission issued, on June 16, 1981, Amendment No. 70 to the Operating Licenses for Surry Power Station, Units No. 1 and No. 2. The changes have been designated as Technical Specification Change No. 78.

Of Significance are the following changes:

1. Revision of the heat flux hot channel factor $F_Q(Z)$ to 2.18.
2. Revision of the normalized operating envelope $K(Z)$ curve.
3. Deletion of references to nuclear enthalpy rise hot channel factors $F_{\Delta H}^N |_{\text{Rod}}$ and $F_{\Delta H}^N |_{\text{Assm}}$ LOCA

In addition, paragraph 3.B of the Operating Licenses is amended to read as follows:

"B. Technical Specifications

The Technical Specifications contained in Appendices A, as revised through Amendment No. 70, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

FACILITY CHANGES REQUIRING
NRC APPROVAL

JUNE, 1981

None during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

JUNE, 1981

		<u>Unit</u>
<u>DC-78-13</u>	- <u>H.P. Carbon Dioxide Modification</u>	1&2

This design change installed electric controls and replaced the pneumatic controls which were subject to moisture intrusion and leaks, therefore affecting proper detection and initiation. The fire protection systems that were modified in the Fuel Oil Pump Houses A & B and the combined oil storage at the Low Level Intake structure.

Summary of Safety Analysis

There are no changes to station operations or the operation of safety related equipment. This design change provides upgraded detection and initiation for the High Pressure CO₂ system which, provides more reliable operation.

<u>DC-79-46</u>	- <u>Modifications to 12" and 6" Pathon Snubber Flow Restrictors</u>	1
-----------------	--	---

This design change was effected when it was determined that a post lock up bleed function should be incorporated.

Summary of Safety Analysis

The margin of safety as defined in the basis for any Tech. Spec. is not reduced. This modification will provide additional seismic protection for the Reactor Coolant System. Consequently, the margin of safety is not reduced.

<u>DC-80-23</u>	- <u>Bearing Cooling Water Pump Suction Indicators</u>	1&2
-----------------	--	-----

This design change installed a pressure gauge on the suction side of the Bearing Coolant Pumps to make a differential comparison between suction and discharge.

Summary of Safety Analysis

This modification increases the amount of information relative to the system without affecting the system; therefore, it results in a greater margin of safety.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL
(CONTINUED)

		<u>Unit</u>
<u>DC-80-32</u>	- <u>Install Cross-Connect Between Screen Wash Pump</u> <u>#1-FS-P-1A & #2-FS-P-1A</u>	1&2

This design change adds a 2" LPS cross connect line between valve 1-FS-35 in Unit #1 and valve 2-FS-34 in Unit #2 of the Fish Screen Wash System.

Summary of Safety Analysis

This modification increases the capabilities of the system thereby resulting in a greater margin of safety.

<u>DC-80-58</u>	- <u>Replace Charging Pump Bearing Gaskets</u>	1
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This design change replaces the oil-paper gaskets with a pure-graphite gasket material. The pure-graphite material is being used to fabricate the thrust bearing cover-to-housing and sight flow gaskets. The pure-graphite material meets or exceeds the environmental requirements of the original oil paper gasket material.

Summary of Safety Analysis

This modification does not affect station operation or operation of the charging/safety-injection pumps. It will increase the reliability of the safety related pumps under accident conditions.

<u>DC-80-99</u>	- <u>Containment Sump Pump Replacement</u>	1
-----------------	--	---

This design change provides the proper pump capacity, quick disconnects for electrical wiring and the pump discharge hose, anti-tipping of pump, and easier accessibility for maintenance.

Summary of Safety Analysis

This modification will not alter the station operation or the operation of safety-related equipment.

<u>DC-80-100</u>	- <u>Removing Control Function Interlock From "Hand" Operation</u>	1
------------------	--	---

This design change modifies the starting circuitry so that the operator can start the containment vacuum pump in Hand position in case of instrument failure. This will not override the SI actuation and will not defeat the purpose of control circuitry which prevents the pumps from running when the selector switch is on "Auto" position.

Summary of Safety Analysis

This modification will not affect the station operation and the operation of safety related equipment because the safe operation of the pumps will not be changed or defeated.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL
(CONTINUED)

Unit

DC-81-32 - Removal of Thermocouple Column Assembly

1

While placing the reactor vessel head on Surry Unit #1's reactor, the thermocoupling was inadvertently damaged. This damage was caused by improperly aligning the thermocouple column assembly as the reactor head was being lowered. The damage to the thermocouple column assembly was too extensive for repair in place and therefore the column assembly was removed.

Summary of Safety Analysis

This modification creates no significant safety implications by this design change. Additionally, it is fully expected that this instrument column will be replaced during the next refueling outage.

TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

JUNE, 1981

None during this reporting period.

TESTS AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

JUNE, 1981

None during this reporting period.

OTHER CHANGES, TESTS AND EXPERIMENTS

JUNE, 1981

None during this reporting period.

SURREY POWER STATION

MAR 20 1981

CHEMISTRY REPORT

June , 19 81

T.S. 6.6.3.J

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci}/\text{m.}$	3.67E-2	1.47E-3	1.19E-2	4.79E-1	2.00E-1	2.99E-1
Suspended Solids, ppm	0.10	0.10	0.10	0.10	0.10	0.10
Gross Tritium, $\mu\text{Ci}/\text{ml}$	(D)	(D)	(D)	1.85E-1	7.40E-2	1.35E-1
Iodine-131, $\mu\text{Ci}/\text{ml}$	(D)	(D)	(D)	2.49E-1	2.94E-3	1.18E-2
I-131/I-133	(D)	(D)	(D)	2.1084	.7991	1.2665
Hydrogen, cc/kg	(D)	(D)	(D)	53.6	33.6	41.2
Lithium, ppm	(D)	(D)	(D)	1.30	.57	1.14
Boron-10, ppm +	637.4	414.7	469.10	76.8	62.1	69.1
Oxygen-16, ppm	(A) 2.8	1.50	2.00	.000	.000	.000
Chloride, ppm	.53	<.05	.15	<.05	<.05	<.05
pH @ 25°C	4.91	4.35	4.71	7.12	6.56	6.95

+ Boron-10 = Total Boron x 0.196

NON-RADIOACTIVE CHEMICAL

RELEASES, POUNDS

T.S. 4.13.A.6

(C)

Phosphate	-	Boron	1023.9 (L.)
Sulfate	-	Chromate	0
50% NaOH	-	Chlorine	0

Remarks: (A) These are an avg. of 8 samples from 6-21,6-30: Unit 1 was down for maintenance & could not be sampled for Oxygen 6-1. thru 6-20. (B) Unit 2 tripped 6-29-81 @ 1800 hrs. - critical @ 1930 6-29-81 - Unit 2 tripped 6-29-81 @ 2030 hrs - critical & on line @ 2228 6-29-81 - Unit 2 reduced power to 60% @ 0100 hrs 6-29-81 - load follow - (C) These levels of chemicals present no major adverse environmental impact. (D) Unit Shutdown (E) Released through storm drain 1.9 pounds

DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

JUNE, 1981

Due to the impairment of the circulating water system on the following days, the thermal discharge limits were exceeded as noted.

On June 29, 1981, the temperature change at the station discharge exceeded 3°F per hour due to a reactor trip on Unit 2.

These events were allowable in accordance with Technical Specification 4.14. There were no reported instances of adverse environmental impact.

-20-

FUEL HANDLING

JUNE, 1981

None during this reporting period.

PROCEDURE REVISIONS THAT CHANGED THE
OPERATING MODE DESCRIBED IN THE FSAR

JUNE, 1981

None during this reporting period.

DESCRIPTION OF PERIODIC TESTS WHICH WERE NOT
COMPLETED WITHIN THE TIME LIMITS SPECIFIED
IN TECHNICAL SPECIFICATIONS

JUNE, 1981

None during this reporting period.

INSERVICE INSPECTION

JULY, 1981

UNIT ONE

The Westinghouse program for inservice inspection has been completed for this refueling outage. No major reportable indications were noted. Only minor indications were recorded and repaired in accordance with approved mechanical maintenance procedures.

An inspection of ASME Class III hangars and supports is still in progress.

The preservice examinations of the components and piping replaced during the steam generator replacement of Class I and Class II systems is complete. No indications were recorded.

UNIT TWO

No inservice NDT inspections were conducted this month.

REPORTABLE OCCURRENCES PERTAINING TO
ANY OUTAGE OR POWER REDUCTIONS

JUNE, 1981

None during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

DSPT=MECH

UNIT1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE	SYSDOT	STS	COMP	MARKNO	SUMMARY	WKPFR	U	PK	TOTLWTH
06/02/81	VS	FAN/BWR	1-VS-F-1A	ORDER NEW FAN AND INSTALL	INSTALL NEW FAN BLADE + HUB	1	003311030	10248	
06/02/81	CH	VALVE	1-CH-226	REPLACE BOLTING	REPLACED STUDS	1	010231818	36	
06/02/81	BR	VALVE	1-BR-190	REPLACE BOLTING	REPLACED STUDS	1	011191507	80	
06/02/81	SI	VALVE	RV-1857	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012051111	60	
06/02/81	CH	MOV	PCV-1145	REPLACE BOLTING	REPLACED STUDS	1	101081216	37	
06/02/81	CH	MOV	FCV-1114A	REPLACE BOLTING	REPLACED STUDS	1	101081219	60	
06/02/81	CH	MOV	1-CH-372	REPLACE BOLTING	REPLACED STUDS	1	101081239	37	
06/02/81	SW	VALVE	MOV-SW-105B	REMOVE EXPANSION JOINT	BLANKED FLANGE FOR PT 16.4	1	105031431	706	
06/02/81	SW	VALVE	MOV-SW-105C	REMOVE EXPANSION JOINT	REMOVED EXPANSION JOINT AND BLANKED	1	105031432	706	
06/02/81	SW	VALVE	MOV-SW-105D	REMOVE EXPANSION JOINT	REMOVED EXPANSION JOINT AND BLANKED	1	105031433	706	
06/02/81	SW	MOV	MOV-SW-105B	FAILED TYPE C TEST	ADJUSTED SHAFT	1	105131101	300	
06/04/81	SI	VALVE	1-SI-57	REPACK	ADDED 1 RING OF PACKING	1	004040955	850	
06/04/81	SI	VALVE	1-SI-48	REPACK	ADDED 1 RING OF PACKING	1	004040957	850	
06/04/81	CH	VALVE	1-CH-412	VALVE LEAKS BY	REPLACED VALVE	1	104102236	110	
06/04/81	FW	TURBINE	1-FW-2-2	D/C 80-S88 ISOLATION OF AUX FD WTR T	INSTALLED LINE AS PER D/C	1	105130010	510	
06/04/81	CC	PUMP	1-CC-P-1A	SEAL HAS BAD LEAK	COMPLETE	1	105221222	253	
06/04/81	RC	VALVE	SOV-1557B	AIR LEAK	REPLACED SOV	1	105282115	118	
06/04/81	MS	VALVE	11-MS-116	PACKING LEAK AT VALVE	TIGHTENED PACKING	1	106010529	60	
06/06/81	PG	VALVE	1-PG-132	CAN NOT OPERATE	REPLACED VALVE BONNET	1	104282310	680	
06/08/81	SI	VALVE	1-SI-57	REPLACE BOLTS	REPLACED STUDS AND NUTS	1	010011334	97	
06/08/81	SI	VALVE	1-SI-48	REPLACE BOLTS	REPLACED STUDS	1	010011355	99	
06/08/81	BR	VALVE	1-BR-141	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	011191540	28	
06/08/81	BR	VALVE	1-BR-142	REPLACE BOLTING	REPLACED NUTS AND STUDS	1	011191541	28	
06/08/81	BR	VALVE	1-BR-176	REPLACE BOLTING	REPLACED STUDS	1	011191552	47	
06/08/81	BR	VALVE	1-BR-169	REPLACE BOLTING	REPLACED STUDS	1	011191555	47	
06/08/81	BR	VALVE	HCV-BR111	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	011191934	47	
06/08/81	BR	VALVE	MOV-BR100B	REPLACE BOLTING	REPLACED STUDS	1	011191940	94	
06/08/81	VS	SHAFT	1-VS-F-8B	BEARING BROKEN	REPLACED BRG	1	012050531	4302	
06/08/81	BD	VALVE	TV-BD-100E	REPLACE DIAPHRAGM	RENEWED DIAPHRAGM	1	104040445	1572	
06/08/81	SW	VALVE	MOV-SW-104D	REMOVE EXPANSION JOINT	BLANKED FLANGE	1	105031133	838	
06/08/81	IA	COMPRESS	1-IA-C1	OIL LEAK ON BELT SIDE OF COMPRESSOR	REPLACED SEALS	1	105252305	74	
06/10/81	EE	DIESEL		L/DIVERS NOT WORKING	COMPLETED	1	105221559	358	
06/11/81	CH	VALVE	1-CH-442	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	010231731	2	

DSPT=MECH

UNIT 1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RATSNVDT	SYS	COMP	MARKNO	SUMMARY	WKPREF	U	NR	TOTDNTM
06/11/81	CH	VALVE	1-CH-413	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	010231732	2
06/11/81	CH	VALVE	1-CH-443	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	010231733	2
06/11/81	FC	VALVE	2-FC-78	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081102	3772
06/11/81	FC	VALVE	1-FC-75	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081108	9
06/12/81	CH	VALVE	1-CH-186	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	010231725	43
06/12/81	CH	VALVE	1-CH-187	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	010231726	43
06/12/81	CH	VALVE	1-CH-189	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	010231727	43
06/12/81	CH	VALVE	1-CH-131	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	010231833	46
06/12/81	BR	VALVE	1-BR-289	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	011181530	43
06/12/81	BR	VALVE	1-BR-199	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	011191536	90
06/12/81	FC	VALVE	1-FC-77	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081106	27
06/12/81	FC	VALVE	2-FC-82	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081109	32
06/12/81	FC	VALVE	2-FC-81	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081110	32
06/12/81	FC	VALVE	2-FC-79	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081111	32
06/12/81	FC	VALVE	2-FC-80	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081112	34
06/12/81	CH	VALVE	1-VS-AC-1	CHILL WATER CONTROLLER 1VSAC1 BROKE	REPAIRED BROKEN CONTROLLER	1	105221400	92
06/12/81	RC	VALVE	PORV-1456	AIR LEAK	COMPLETE	1	106061816	73
06/12/81	SW	MOV	SW-103A	CHECK OPERATORS	REMOVED OIL FILLER PLUGS	1	106100401	42
06/12/81	SW	MOV	SW-103B	CHECK OPERATORS	REMOVED OIL FILLER PLUGS	1	106100402	42
06/13/81	FC	VALVE	1-FC-76	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081107	58
06/13/81	RS	PUMP	RS-20-01	OVERHAUL VACUUM PUMP	OVERHAULED VACUUM PUMP	1	105281300	338
06/13/81	VS	PUMP	1-VS-P-1A	CLEAN SUCTION STRAINER	COMPLETED	1	106120745	35
06/15/81	EE	VALVE	RV-EE-106	REPLACE VALVE ASAP	RENEWED VALVE	1	102062230	8
06/15/81	SW	VALVE	MOV-SW-105B	OVERHAUL PT 16.4	OVERHAULED VALVE WITH PROC MMP-C-G-1	1	102091002	2794
06/15/81	CC	VALVE	1-CC-176	FAILED TYPE C TEST 98SCFH	REPLACED SPRINGS REFURBISHED SEATING	1	104061512	1600
06/16/81	CH	VALVE	1-CH-400	REPLACE BOLTING	REPLACED BOLTING WITH APPROVED MATER	1	010231740	75
06/16/81	BR	VALVE	1-BR-170	REPLACE BOLTING	VALVE IS NOT A GRINNELL VAL	1	011191554	72
06/16/81	FC	VALVE	1-FC-30	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081113	72
06/16/81	FC	VALVE	1-FC-78	REPLACE BOLTING	REPLACED STUDS AND NUTS	1	012081121	79
06/16/81	RC	PIPING		REINSTALL FLUX THIMBLES	COMPLETE	1	105060710	768
06/16/81	CH	VALVE	1-CH-198	VALVE LEAKS THROUGH AND HAS WATER DR	OVERHAULED VALVE	1	106021306	318
06/16/81	RS	MOV	MOV-RS-155B	JAMMED OPEN	ADJUSTED VALVE STOP NUTS	1	106151520	24
06/18/81	BR	VALVE	1-BR-81	REPLACE BOLTING	REPLACE STUDS AND NUTS	1	011191915	414
06/18/81	FW	MOV	FW-151A	VALVE STIF	COMPLETE	1	103110840	830
06/18/81	CH	VALVE	FCV-1114B	WATER LEAKS BY VALVE SEAT	OVERHAULED VALVE	1	105180605	366
06/18/81	RM	PUMP	RM-101/102	MONITOR HAS LOW FLOW	INSTALLED SPARE PUMP	1	106120412	32
06/21/81	CH	VALVE	1-CH-78	REPLACE BOLTING	REPLACED STUDS	1	010231702	193
06/21/81	CH	VALVE	1-CH-81	REPLACE BOLTING	REPLACED STUDS	1	010231703	5413
06/21/81	CH	VALVE	1-CH-82	REPLACE BOLTING	REPLACED STUDS	1	010231704	5413

DEPT=MSCH

UNIT1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RST:REVDT	SYS	COMP	MARKNO	SUMMARY	WKFPRF	U	NR	TOTLWNTM
06/21/81	CH	VALVE	1-CH-91	REPLACE BOLTING	REPLACED STUDS IN VALVE	1	010231706	5413
06/21/81	CH	VALVE	1-CH-108	REPLACE BOLTING	REPLACED STUDS IN VALVE	1	010231709	193
06/21/81	CH	VALVE	1-CH-115	REPLACE BOLTING	REPLACED STUDS IN VALVE	1	010231710	193
06/21/81	CH	VALVE	1-CH-389	REPLACE BOLTING	REPLACED STUDS	1	010231720	193
06/21/81	CH	VALVE	1-CH-388	REPLACE BOLTING	REPLACED STUDS	1	010231721	193
06/21/81	CH	VALVE	1-CH-203	REPLACE BOLTING	REPLACED STUDS	1	010231741	29
06/21/81	CH	VALVE	1-CH-224	REPLACE BOLTING	REPLACED STUDS	1	010231742	47
06/21/81	CH	VALVE	1-CH-398	REPLACE BOLTING	REPLACED STUDS	1	010231750	193
06/21/81	CH	VALVE	1-CH-390	REPLACE BOLTING	REPLACED STUDS	1	010231751	193
06/21/81	BR	VALVE	1-BR-177	REPLACE BOLTING	VALVE IS A BALL VALVE	1	011191551	72
06/21/81	CH	VALVE	1-CH-101	REPLACE BOLTING	REPLACED STUDS	1	012021304	193
06/21/81	CH	VALVE	1-CH-58	VALVE REACH ROD FREEWHEELS	REPAIRED REACH ROD	1	106170719	52
06/21/81	CH	VALVE	HCV-1200B	DIAPHRAGM LEAKING AIR BY	VALVE CYCLES OK	1	106171027	53
06/23/81	RC	REACT V8		REACTOR VESSEL HEAD REMOV INSUL REIN	RE HEAT INSULATION IS INSTALLED	1	105060712	936
06/23/81	RC	REACT V8		INSTALL AND REMOVE HEAD	COMPELTE	1	105060717	212
06/23/81	IA	SOV	SOV-IA-102A+B	SOVIA102A AND 102B ARE MISSING	INSTALL 2 NEW VALVE	1	105201405	25
06/23/81	RC	VALVE	HCV-1157A	HCV-1157A HAS SLIGHT STEM LEAK	ADJUSTED PACKING GLAND	1	106031555	454
06/23/81	RC	REACTOR		REMOVE GUIDE SLEEVE BUSHING 1 REACTO	COMPLETED	1	106091559	307
06/23/81	CV	PUMP	1-CV-P-1A	PUMP CAUSING MOTOR OVERLOAD	TURNED PUMP BY HAND AND IT TURNS FRE	1	106151402	92
06/23/81	CV	PUMP	1-CV-P-1A	CLEAN SUCTION STRAINER	CLEAN ALL TRASH AND RUSH FROM THE ST	1	106210830	48
06/24/81	SI	VALVE	1-SI-140	LEAKS BY	OLD VALVE CUT OUT AND NEW VALVE INST	1	005110642	1041
06/24/81	SI	VALVE	1-SI-241	REMOVE AND INSTALL BONNET	REMOVE COVER	1	106211746	49
06/24/81	SI	VALVE	1-SI-242	REMOVE AND INSTALL VALVE	INSTALLED COVER	1	106211748	49
06/24/81	SI	VALVE	1-SI-243	REMOVE AND INSTALL VALVE	REMOVED COVER	1	106211749	49
06/26/81	PR	SNUBBER	1-RC-HSS-122	REMOVE SNUBBER	REINSTALL SNUBBER BY MNP-C-HSS-020	1	009101303	6792
06/26/81	PR	SNUBBER	1-RC-HSS-123	REMOVE SNUBBER	REINSTALLED IN ACCORDANCE WITH MNP-C	1	009101304	6041
06/26/81	PR	SNUBBER	2-RC-124	REMOVE SNUBBER	REINSTALL SNUBBER	1	009101305	6041
06/26/81	PR	SNUBBER	1-RC-HSS-125	REMOVE SNUBBER	REINSTALLED IN ACCORDANCE WITH MNP-C	1	009101306	6041
06/26/81	PR	SNUBBER	1-RC-HSS-138	REMOVE SNUBBER	REMOVED SNUBBER FOR SHIPMENT	1	009101307	6624
06/26/81	PR	SNUBBER	1-RC-HSS-139	REMOVE SNUBBER	REMOVED FOR SHIPPING	1	009101308	6624
06/26/81	PR	SNUBBER	1-RC-HSS-140	REMOVE SNUBBER	REMOVED FOR SHIPPING	1	009101309	6624
06/26/81	PR	SNUBBER	1-RC-HSS-141	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101310	6624
06/26/81	PR	SNUBBER	1-RC-HSS-142	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101311	6636
06/26/81	PR	SNUBBER	1-RC-HSS-143	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101312	6636
06/26/81	PR	SNUBBER	1-RC-HSS-144	REMOVE SNUBBER	REMOVE FOR SHIPMENT	1	009101313	6636
06/26/81	PR	SNUBBER	1-RC-HSS-145	REMOVE SNUBBER	REMOVED SNUBBER FOR SHIPMENT	1	009101314	6636
06/26/81	PR	SNUBBER	1-RC-HSS-149	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101318	6617
06/26/81	PR	SNUBBER	1-RC-HSS-150	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101319	6636
06/26/81	PR	SNUBBER	1-RC-HSS-151	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101320	6636
06/26/81	PR	SNUBBER	1-RC-HSS-152	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101321	6643
06/26/81	PR	SNUBBER	1-RC-HSS-153	REMOVE SNUBBER	REMOVED AND REINSTALLED IN ACCORD WI	1	009101322	6636
06/26/81	PR	SNUBBER	1-RC-HSS-154	REMOVE SNUBBER	REMOVED SNUBBER FOR SHIPMENT	1	009101323	6649

DSPT=KECH

UNIT1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE	SYSTEM	SIS	COMP	MARKNO	SUMMARY	WKPERS	U	MR	TOTLWRTN
06/26/81	PR	SNUBBER	1-RC-HSS-155	REMOVE SNUBBER	REMOVED SNUBBER FOR SHIPMENT TO WYLE	1	009101324	6646	
06/26/81	PR	SNUBBER	1-RC-HSS-156	REMOVE SNUBBER	REMOVED FOR SHIPMENT	1	009101325	6649	
06/26/81	PR	SNUBBER	1-RC-HSS-157	REMOVE SNUBBER	REMOVED FOR SHIPMENT TO WYLE	1	009101326	6649	
06/26/81	PR	SNUBBER	1-RC-HSS-161	REMOVE SNUBBER	REMOVED FOR SHIPMENT TO WYLE	1	009101330	6622	
06/26/81	PR	SNUBBER	1-RC-HSS-162	REMOVE SNUBBER	REINSTALLED+FILLED IN ACCORDANCE WIL	1	009101331	6785	
06/26/81	PR	SNUBBER		REMOVE SNUBBER	REMOVED FOR SHIPPING	1	009101333	6792	
06/26/81	CH	VALVE	1-CH-385	REPLACE BOLTING	REPLACED BOLTING MATERIAL	1	010231722	139	
06/26/81	CH	VALVE	1-CH-171	REPLACE BOLTING	REPLACED STUDS	1	010231723	139	
06/26/81	CH	VALVE	1-CH-243	REPLACE BOLTING	REPLACED STUDS	1	010231734	140	
06/26/81	CH	VALVE	1-CH-237	REPLACE BOLTING	REPLACED STUDS	1	010231738	140	
06/26/81	CH	VALVE	1-CH-166	REPLACE BOLTING	REPLACED BOLTING MATERIAL	1	010231832	139	
06/26/81	BR	VALVE	1-BR-196	REPLACE BOLTING	REPLACED STUDS	1	011191607	15	
06/26/81	BR	VALVE	1-BR-305	REPLACE BOLTING	REPLACED VALVE	1	011191621	2036	
06/26/81	BR	VALVE	1-BR-193	REPLACE BOLTING	REPLACED STUDS	1	011191741	15	
06/26/81	BR	VALVE	1-BR-194	REPLACE BOLTING	REPLACED STUDS	1	011191742	15	
06/26/81	BR	VALVE	1-BR-189	REPLACE BOLTING	REPLACED BOLTING MATERIAL AND BONNET	1	011191806	4871	
06/26/81	BR	VALVE	1-BR-173	REPLACE BOLTING	REPLACED STUDS + VALVE BONNET	1	011191808	306	
06/26/81	BR	VALVE	1-BR-172	REPLACE BOLTING	REPLACED VALVE BONNET+STUDS	1	011191809	306	
06/26/81	VS	MOV	MOV-VS-100A	FAILED TYPE C TEST	OVERHAUL VALVE	1	104291101	1213	
06/26/81	RC	REACT VS		REASSEMBLE INSTRUMENT PORT COLUMNS	INSTALLED SEALS	1	105060713	1007	
06/26/81	RC	REACT VS		INSTALL AND REMOVE CAVITY SEAL RING	REMOVED CAVITY SEAL RING	1	105060714	1006	
06/26/81	SW	PUMP	1-SW-P-10A	SUPPORT PLATE DOES NOT MATE	COMPLTS	1	106190928	34	
06/29/81	RC	STM GENR	1-RC-E-1B	REPAIR LEAKING	INSTALLED NEW GASKET	1	106281630	13	
06/30/81	CC	PUMP	1-CC-P-2A	D/C 80-55 REPLACE SEALS	REPLACED SEAL WITH D/C 80-55	1	103061400	1874	
06/30/81	CC	PUMP	1-CC-P-2B	D/C 80-55 REPLACE SEALS	REPLACED SEAL	1	103061401	1879	
06/30/81	SW	PUMP	1-SW-P-10B	OVERHAUL SW PUMP	OVERHAUL PUMP	1	103211039	2427	

DEPT TOTAL

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

None during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

DSPT=BLSC

UNIT1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE/TIME	SYS	COMP	MARKNO	SUMMARY	WKPENF	U	NR	TOTLWTRN
06/01/81	PC	BREAKER	1-MG-2	PERFORM EMP-P-RT-46	PROCEDURE EMP-P-RT-46 PERFORMED	1	011101839	97
06/01/81	PC	BREAKER	1-MG-1	PERFORM EMP-P-RT-40	PROCEDURE EMP-P-RT-40 PERFORMED SAT	1	011101840	97
06/01/81	CS	MOV	MOV-CS-100B	VALVE WILL NOT CLOSE	VALVE OPERATED SAT AFTER TEST JUMPER	1	105211901	6
06/02/81	KS	PMP MTR	1-RS-P-2A	PERFORM PMS	PERFORMED PMS ON MOTOR SAT	1	009032206	6229
06/02/81	EPH	RELAYS		PERFORM EMP-P-RT-132	SATISFACTORILY COMPLETED EMP-P-RT-13	1	102260002	505
06/02/81	EPH	BREAKER	15H3	PERFORM EMP-P-RT-33	SATISFACTORILY COMPLETED EMP-P-RT-33	1	102260020	6
06/02/81	EPH	RELAYS		PERFORM EMP-P-RT-36	SATISFACTORILY COMP EMP-P-RT-36	1	10226005	6
06/02/81	CH	HANDAL	HCV-1200C	CLOSED INDICATION LIGHT	CHECKED OUT LIGHT WORKS SAT	1	105310956	32
06/03/81	BD	SOV	TV-BD-100D	DISC RECONNECT FOR MECH	DISCON AND RECON SAT	1	105260959	163
06/04/81	FW	MOV	MOV-FW-151A	PERFORM PMS	COMPLETED AS PER PMS PROCEDURE	1	009070121	2035
06/04/81	FW	MOV	MOV-FW-151A	DISCONNECT & RECON FOR MECH	ADJUSTED LIMITS AS PER PROCEDURE	1	103131730	1990
06/05/81	PS	VALVE		PENETRATION HAS BAD VALVE C-5	REPLACED VALVE ON PENETRATION	1	105201103	1
06/05/81	RS	MOV	MOV-RS-156A	DISCON FOR MECH	DISCON AND RECON SAT	1	105231323	314
06/07/81	VS	PMP MTR	1-VS-F-1A	PERFORM PMS ON MOTOR	PERFORMED PMS ON MOTOR SAT	1	008271706	5455
06/08/81	EPH	BREAKER	15H4	PERFORM EMP-P-RT-20	SATISFACTORY COMPLETED EMP-P-RT-20	1	102260010	456
06/08/81	EPH	BREAKER	15H5	PERFORM EMP-P-RT-25	SATISFACTORILY COMPLETED EMP-P-RT-25	1	102260013	244
06/08/81	EPH	BREAKER	15J5	PERFORM EMP-P-RT-26	SATISFACTORILY COMPLETED EMP-P-RT-26	1	102260016	168
06/08/81	EPH	BREAKER	15J4	PERFORM EMP-P-RT-30	RELAY TEST MEGGER SATISFACTORILY	1	102260017	171
06/08/81	EPH	BREAKER	15H6	PERFORM EMP-P-RT-31	PERFORMED EMP-P-RT-31 SATISFACTORILY	1	102260018	168
06/08/81	EPH	BREAKER	115J2	PERFORM EMP-P-RT-32	PERFORMED RELAY TEST	1	102260019	791
06/08/81	SI	TIMER	62-15J4	TIMER IS MIS SET	RESET AND TESTED SAT	1	105167536	1
06/08/81	RS	INSTR	RTD-156B	REPAIR DANGER	REPAIRED DAMAGED CABLE	1	105262100	267
06/09/81	CH	MOV	MOV-1350	PERFORM PMS	PERFORMED PMS ON MOV SAT	1	009062112	1263
06/09/81	EPH	BREAKER	15H7	PERFORM EMP-P-RT-21	SATISFACTORILY COMPLETED EMP-P-RT-21	1	102260011	279
06/09/81	HN	INSTR	FF-1-605	LOW FLOW ALARM LOCKED ON BOARD	REPLACED REALY COIL	1	106041930	5
06/09/81	HS	VALVE	MOV-HS-100B	OPEN LIMIT SWITCH NOT WORKING	TIGHTEN CONNECTIONS	1	106060730	2
06/10/81	VS	PMP MTR	1-VS-F-1C	PERFORM PMS ON MOTOR	PERFORMED PMS ON MOTOR SAT	1	008271704	5530
06/10/81	VS	PMP MTR	1-VS-F-1B	PERFORM PMS ON MOTOR	PERFORMED PMS ON MOTOR	1	008271707	5530
06/10/81	ES	BREAKER	14H1-3	PERFORM PMS ON BREAKER	PERFORMED PMS ON BREAKER SAT	1	009062205	863
06/10/81	ES	BREAKER	14H1-4	PERFORM PMS ON BREAKER	PERFORMED PMS ON BREAKER SAT	1	009062206	862
06/10/81	ES	BREAKER	14H1-5	PERFORM PMS	PERFORMED TEP-5 ON BREAKER SAT	1	009062207	863
06/10/81	ES	BREAKER	15H7	PERFORM PMS ON BREAKER	PERFORMED PMS ON BREAKER SAT	1	009062211	22
06/10/81	EPL	BREAKER		PERFORM TEP-5	PERFORMED TEP-5 ON BREAKER SAT	1	102140003	864
06/10/81	EPL	BREAKERS		PERFORM TEP5	PERFORMED TEP-5 ON BREAKER SAT	1	102140044	864
06/10/81	EPL	BREAKERS		PERFORM TEP5	PERFORMED TEP-5 ON BREAKERS SAT	1	102140059	864
06/10/81	CH	MOV	MOV-CH-1350	DISC AND RECON FOR MECH	DISCON AND RECON	1	105010840	883
06/10/81	ES	RELAY		REPLACE TERMINAL LUGS	REPLACED LUGS	1	106021705	163
06/11/81	EPH	RELAYS		PERFORM EMP-P-RT-38	SATISFACTORILY COMPLETED EMP-P-RT-38	1	102260051	3
06/11/81	FW	MOV	FW-151B	CHECK CONTROL CRT FOR POSS GROUND	COMPLETED AS PER EMP-C-MOV-63	1	106100420	26
06/12/81	EPL	BREAKERS		PERFORM TEP5	PERFORMED TEP-5 ON BREAKERS SAT	1	102140035	18
06/12/81	EPH	BREAKER	15J3	PERFORM EMP-P-RT-35	SATISFACTORILY COMPLETED EMP-P-RT-35	1	102260021	28

DSPT-8LSC

UNIT-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE/TIME	SYS	COMP	MARKNO	SUMMARY	WKPFR	U	NR	TOTWNTM
06/12/81	SI	HT	PNL2-CKT-24B	FIX OR REPLACE HEAT TAPE	REPLACED HEAT TAPE	1	103021006	5
06/12/81	RH	MOV	MOV-RH-100	LIMITORQUE PROBLEM	REPLACED TORQUE SWITCH	1	106171311	6
06/15/81	KS	PMP MTR	1-RS-P-2B	PERFORM PMS	TEST RUN SAT	1	009032207	6549
06/15/81	CV	PMP MTR	1-CV-P-1A	REPLACE MOTOR	REPLACED MTR	1	011031301	48
06/15/81	CH	HT	P-8/CKT 18A	LOW AMPS ON CKT	REPLACE CKT	1	105141339	8
06/15/81	CC	VALVE	TV-CC-110B	TV-CC-110B WILL NOT STAY CLOSED	COMPLETED AS PER EMP-C-SOV-38	1	106100150	4
06/15/81	SW	INSTR	FT-SW-105A+B	HOOK UP ELEC	CONNECTED FT-SW-105 A+B	1	106100405	73
06/15/81	BD	VALVE	TV-BD-100C	VALVE WILL NOT STROKE	TUNED OVER TO INST TECHS	1	106130931	44
06/15/81	BD	VALVE	TV-BD-100C	LIMIT SWITCHES	ADJUSTED LIMIT SWITCHES SAT	1	106130932	45
06/15/81	RH	MOV	MOV-RH-100	VALVE WILL NOT OPEN	REPLACED TORQUE SWITCH	1	106151400	2
06/16/81	SW	MOV	MOV-SW-102B	MOV WILL NOT OPERATE ELECTRICALLY	FOUND BLOCK PULLED MOV CYCLED SAT	1	106152245	11
06/17/81	EPL	BREAKERS		PERFORM TEP-5	PERFORMED TEP-5 ON BREAKERS SAT	1	102140030	1175
06/17/81	EPL	BREAKERS		PERFORM TEP-5	COMPLETED TEP-5 ON BREAKERS SAT	1	102140056	1039
06/17/81	EPH	BREAKER	15J9	PERFORM EMP-P-RT-14	SAT COMPLETED EMP-P-RT-14	1	102260054	1
06/17/81	CH	VALVE	HCV-1200B	LSTDOWN ORIFICE VALVE	ADJUSTED LIMITS FOR OPEN LIGHT	1	106122018	3
06/17/81	CH	VALVE	HCV-1200C	LSTDOWN ORIFICE VALVE DOES NOT INDIC	ADJUSTED LIMITS FOR OPEN LIGHT	1	106122219	3
06/17/81	SI	HT	P1/CKT-24B	REPLACE HT 1AW ENG GUIDELINES	INSTALLED NEW HEAT TRACE	1	106160710	6
06/17/81	CH	HT	PNL 8 CKT 17	REPLACE BAD HEAT TRACE CKT	REPLACED HEAT TRACE CABLE	1	106161430	7
06/17/81	CH	HT	PNL 9 CKT 17	REPLACE BAD HEAT TRACE CKT	REPLACED HEAT TRACE CABLE	1	106161431	6
06/18/81	EPL	BREAKER		PERFORM TEP-5	PERFORMED TEP-5 ON BREAKER SAT	1	102140011	2305
06/18/81	EPL	BREAKERS		PERFORM TEP-5	PERFORMED TEP-5 ON BREAKER SAT	1	102140014	2
06/18/81	EPH	BREAKER	15J7	PERFORM EMP-P-RT-24	SAT COMPLETED EMP-P-RT-24	1	102260014	2
06/18/81	EPH	RELAYS		PERFORM EMP-P-RT-50	SAT COMPLETED EMP-P-RT-50	1	102260049	9
06/18/81	BD	VALVE	TV-BD-100A	VALVE DOES NOT CLOSE	INSTALLED NEW SOV TESTED SAT	1	105110523	3
06/18/81	SW	MOV	MOV-SW-105C	MOV-SW-105C WILL NOT OPEN ELECTRICAL	COMPLETED AS PER EMP-C-MOV-63	1	106162000	35
06/19/81	EPH	RELAYS		PERFORM EMP-P-RT-52	SAT COMPLETED EMP-P-RT-52	1	102260048	7
06/19/81	CH	HT	PNL9-CKT24B	LOW AMPS	REPLACED BAD HEAT TRACE	1	104080931	3
06/19/81	CH	HT	PNL8-CKT-24B	LOW AMPS	REPLACED BAD HEAT TRACE	1	104080932	3
06/19/81	EP	INSTR		SNOKE DETECTOR ALERT ALARM	RESET ALARM SYSTEM BACK TO NORMAL	1	106121942	35
06/19/81	CH	HT	P9/CKT18A	REPLACE HT 1AW ENG GUIDELINES	REVERSED FOR REPAIRS REVERSED BACK T	1	106150700	96
06/19/81	CH	HT	PANEL 9 CIR 18	REPAIR OR REPLACE HEAT TRACE	REPLACED HEAT TRACE CKT	1	106160707	21
06/19/81	EPDC	BATT CHG	1B1	REPAIR CHARGER	REPAIRED CHARGER SAT	1	106182230	1
06/19/81	EPDC	BATT CHG	1B2	REPAIR AS NECESSARY	REPAIRED CHARGER SAT	1	106182231	1
06/19/81	CH	HT	P8/13A	LOW AMPS	REPLACED TAPE	1	106191545	7
06/22/81	RC	MOV	MOV-1593	PERFORM PMS	PMS COMPLETE SAT	1	009070043	3637
06/22/81	RC	MOV	MOV-1597	PERFORM PMS	PMS COMPLETE	1	009070044	3637
06/22/81	RC	MOV	MOV-1591	PERFORM PMS	PMS COMPLETE	1	009070045	13
06/22/81	RC	MOV	MOV-1594	DISC MOV AND PULL BACK CONDUIT	RECONNECTED AFTER INTERF CLEARED CYC	1	009270703	6438
06/22/81	RC	MOV	MOV-1590	DISC AND PULL BACK CONDUIT	RECONNECTED MOV OPERATED SAT	1	009282215	6385
06/22/81	SI	SOV	SOV-1050B	DISC + RECON MECH	DISCONNECTED FOR MECH REPAIRS	1	102101340	3086
06/22/81	SI	HT	PNL1-CKT-24A	FIX OR REPLACE HEAT TAPE	REPLACED BAD HEAT TAPE	1	103021008	240
06/22/81	SI	HT		REPAIR OR REPLACE HEAT TAPE	REPLACED HEAT TAPE	1	104040701	176
06/22/81	CH	HT	PNL9-CKT-24C	LOW AMPS	REPLACED BAD HEAT TRACE	1	104080937	74

DSPT=ALSC

UNIT1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE	TIME	RTS/ENVDT	SYS	COMP	MARKNO	SUMMARY	WKPFR	U	NR	TOTWNTM
06/22/81	06	CH	HT		CIR 24	REPAIR OR REPLACE HEAT TAPE	REPLACED HEAT TRACE 14W ENG CD LNS	1	105031345	171
06/22/81	06	CH	MOV		MOV-CH-1282A	DISCON FOR MECH	RECONNECTED MOV TESTED SAT	1	105031230	459
06/22/81	06	CH	HT		PNL 9-188	REPLACE BAD HEAT TRACE	REPLACED BAD HEAT TRACE	1	106190938	1
06/22/81	06	CH	HT		PNL 8-19C	REPLACE BAD HEAT TRACE	REPLACED BAD HEAT TAPE	1	106191000	2
06/22/81	06	CH	HT		PNL 8-188	REPLACE BAD HEAT TRACE	REPLACED BAD HEAT TAPE	1	106191001	1
06/22/81	06	CH	HT		PNL 9-19C	REPLACE BAD HEAT TRACE	REPLACED BAD HEAT TRACE	1	106191002	3
06/22/81	06	CH	HT		PNL 9-19A+B	REPLACE HT 14W ENG GUIDELINES	REPLACED BAD HEAT TRACE	1	106191003	2
06/23/81	06	SE	HT		PNL1-CKT-22A	FIX OR REPLACE HEAT TAPE	REPLACED BAD HEAT TRACE	1	103021009	29
06/23/81	06	VS	MOV		MOV-VS-100A	DISC + RECON FOR MECH	COMPLETED AS PER EMP-C-MOV-11	1	105270020	665
06/23/81	06	SI	HT		PNL1-CKT-22	REPLACE HEAT TAPE	REPLACED HEAT TAPE	1	105310115	29
06/23/81	06	SPL	HYD RSC		1B	RECOMBINER DOES NOT OPERATE	REPAIRED LOOSE CONNECTION ON FUSE CL	1	106180625	8
06/23/81	06	RC	MOV		MOV-1536	REF 60 SEC ON F 2.26	ADJUSTED LIMIT SWITCHES	1	106211455	19
06/24/81	06	VS	MOV		MOV-VS-100A	PERFORM PMS	COMPLETED AS PER PMS PROCEDURE	1	009062248	701
06/24/81	06	CH	HT		PNL 8 CKT 24C	REPLACE HEAT TRACE	REPLACED BAD HEAT TRACE	1	106240332	2
06/25/81	06	CH	HT		PNL 8-CKT-4A	REPLACE HEAT TAPE	REPLACED BAD HEAT TRACE CKT	1	105281225	649
06/25/81	06	RS	SOV		TV-RS-101C	RECONNECT SOV	INSTALLED NEW SOV CYCLED SAT	1	105291628	79
06/25/81	06	CH	HT		P8/CKT 8A	LOW AMPS REPLACE HEAT TAPE	REPLACED BAD HEAT TRACE CKT	1	106201030	768
06/25/81	06	CH	HT		P9-CKT-8A	REPLACE TAPE	REPLACED BAD HEAT TRACE CKT	1	106221201	50
06/26/81	06	CH	HT		PNL1-CKT-25A	FIX OR REPLACE HEAT TAPE	REPLACED HEAT TAPE	1	103021007	49
06/27/81	06	CC	PUMP		1-CC-P-2A	REMOVE PUMP FROM UNIT ONE	REMOVED AND PUT NEW MOTOR IN UNIT 1	1	011072117	5520
06/27/81	06	SW	MOV		1-NOV-SW-103	ZERO GROUND ON MOV	DISCONNECT + RECON	1	105240200	810
06/28/81	06	CV	VALVE		TV-CV-150C	DISCON + RECON FOR MECH	RECONNECTED CYCLED SAT	1	012160900	4608
06/28/81	06	SS	VALVE		TV-SS-106A	TRIP VALVE	NEW VALVE INSTALL BY CONS	1	102131940	3073
06/28/81	06	RC	INSTR		FT-1434	FLEXIBLE CONDUIT ON FT 1434	REPLACED BROKEN FLEX	1	104151106	8
06/28/81	06	SI	SWITCH		HCV-1851B	OPEN LIMIT SWITCH STUCK	COMPLETED AS PER EMP-C-SOV-59	1	105300745	3
06/28/81	06	SS	VALVE		TV-SS-102A	DOES NOT SHOW OPEN INDICATION	CYCLED VALVE SAT OPERATION NEW SOV	1	106130513	513
06/28/81	06	RC	VALVE		HCV-1557C	LIMIT SWITCH ASSEMBLY IS NOT MOUNTED	COMPLETED AS PER EMP-C-SOV-59	1	106230759	4
06/29/81	06	RS	HX		1-RS-5-1A	REPAIR SPRAY HAS WATER IN SHELL	EVERYTHING CHECKED SAT NO ALARM FOU	1	011040542	4026
06/29/81	06	CH	HT		PNL 4+5 CKT 9	REPAIR/REPLACE DAMAGED THERMOSTATS	REPLACED THERMOSTATS	1	101281411	216
06/29/81	06	CH	MOV		MOV-1867A	WILL NOT OPEN ELEC	VALVE CYCLED SAT	1	106281745	1
06/30/81	06	PC	CRDM			DISCONNECT CABLES TO REACTOR HEAD	DISC AND RECON SAT	1	008271730	7631
06/30/81	06	SPDC	BATT			PERFORM PMS	PERFORMED PMS	1	108111013	15

DEPT TOTAL

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

UNIT 2-

(MAINTENANCE OF SAFETY-RELATED SYSTEMS DURING OUTAGE OF REDUCED POWER PERIODS)

DATE	TIME	BY	DESCRIPTION	QTY	UNIT	AMOUNT	TOTAL
06/29/81	CH	MT	REPLACE DRAIN LINS HEAT TAPS	2	106101522	116	116
DEPT TOTAL							116

DEPT TOTAL

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

DEPT=INST

UNIT1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE	SYS	COMP	MARKNO	SUMMARY	WKPFR	U	NR	TOTWTH
06/01/81	RM	MONITOR	RMS-151	MONITOR SWING FROM 10 TO 1000 NR	RESEATED CARDS	1	105110550	97
06/02/81	RM	ONITOR	RI-RMS-162	ALERT AND HIGH ALARMS	REPLACED AUX BOARD	1	105181301	349
06/02/81	ES	INSTR	LI-ES-100A	CANNOT GET A READING ON MANOMETER	FILLED MANOMETER	1	105301400	35
06/02/81	ES	INSTR	LI-ES-100B	IMPROPER INDICATION	FILLED MANOMETER	1	105301401	35
06/02/81	SW	INDICATO	PI-SW-116A	CALIPRATE PRESS INDICATOR	CHECKED CAL IN SPECS NO ADJUSTMENT	1	106010251	35
06/03/81	RC	VALVE	KPCV-1455C	REBUILD CONTROLLER	NO CONTROLLER ON THIS VALVE	1	009071745	3938
06/03/81	RC	VALVE	PCV-1456	REBUILD CONTROLLER	NO CONTROLLER ON THIS VALVE	1	009071746	5946
06/03/81	RC	VALVE	PCV-1455B	REBUILD CONTROLLER	THIS VALVE WAS CHECKED IN CONJ WITH	1	009071747	5938
06/03/81	RC	VALVE	PCV-1455C	REBUILD CONTROLLER	REFUELING CAL PROCEDURE	1	009071748	6442
06/03/81	CA	INSTR	FT-1113	BORIC ACID INTEG COUNTS	CLEARED PROBLEM DURING CALIBRATION	1	010011100	196
06/03/81	CH	VALVE	1PCV-1113A	VALVE DOES NOT OPEN	FOUND NO PROBLEM WITH VALVE	1	010152145	177
06/08/81	CH	INSTR	LI-1-106	LEVEL INDICATOR SHOWS 7 PERCENT	RECALIBRATED	1	106032127	98
06/08/81	CH	INSTR	LI-1-161	LEVEL INDICATOR READS 7 PERCENT LEVE	RECALIBRATED	1	106032128	98
06/10/81	RM	MONITOR	RM-SV-111	ALARM SETPOINT OUT OF SPEC	RESET ALARM SETPOINT	1	106080400	50
06/10/81	RM	MONITOR	RM-RMS-159	ALARM SETPOINT OUT OF SPEC	RESET ALARM SETPOINT	1	106080401	50
06/11/81	RM	MONITOR	RM-CV-102	ALERT + ALARM SETPOINTS LOW	ADJUSTED SETPOINTS	1	106110655	1
06/11/81	RM	MONITOR	RM-C-106	ALERT SETPOINT LOW	ADJUSTED SETPOINT	1	106110656	1
06/11/81	RM	MONITOR	RM-RMS-160	ALERT + ALARM SETPOINT LOW	ADJUSTED SETPOINTS	1	106110657	1
06/13/81	NI	INSTR	NI-36	CALIBRATE DETECTOR	ADJUSTED COMPENSATING VOLTAGE	1	106032320	36
06/13/81	NI	OTHER	NI-35	CALIBRATE DETECTOR	ADJUSTED COMPENSATING VOLTAGE	1	106032321	36
06/13/81	RM	MONITOR	RM-CC-105	RECALIBRATE ALARM SETPOINT	NO ADJUSTMENTS NECESSARY	1	106090630	63
06/18/81	CC	GAGE	PI-CC-105B	DISCH PRESS GAGE NEEDS CALIBRATING	INSTALLED GAGE	1	106100400	179
06/19/81	RC	RTD	TS 1421	BADLY DAMAGED REPLACE AS NECESSARY	REPLACED RTD	1	106171100	53
06/21/81	CH	INSTR	TI-1-140	REPAIR IN 'TOR	REFUELING CAL 3 27 81	1	008270330	6219
06/25/81	RC	INSTR	LI-1-459A	LEVEL INDICATOR NOT OPERATING	TIGHTENED CONNECTION	1	106231305	26
06/26/81	RC	INSTR	459/460/461	ALL 3 PRZ LEVEL CH NEED CAL	CALIBRATE LOOPS	1	106241515	23
06/30/81	RC	INSTR	TE-1401	HI TEMP ALARM LOCKED IN	REPAIRED LOW LEVEL AMPLIFIER	1	106052132	334
06/30/81	CH	INSTR	PI-1105A	CALIBRATE GAUGE	REMOVED OLD GAUGE INSTALL NEW ONE	1	106221511	166
DEPT TOTAL								30622

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

None during this reporting period.

HEALTH PHYSICS SUMMARY

JULY, 1981

There was no single release of radioactivity specifically associated with an outage that accounted for more than 10% of the allowable annual values in 10CFR20.

There were no individuals who received single radiation exposure specifically associated with Unit No. 1 outage, which accounted for more than 10% of the allowable annual values in 10CFR20.101.

PROCEDURE DEVIATIONS REVIEWED BY STATION NUCLEAR
SAFETY AND OPERATING COMMITTEE AFTER TIME LIMITS
SPECIFIED IN TECHNICAL SPECIFICATIONS

<u>NO.</u>	<u>UNIT</u>	<u>TITLE</u>	<u>DATE DEVIATED</u>	<u>DATE SNSOC REVIEWED</u>
OP-7.1A	1	Valve Checkoff - Safety Injection System	5-14-81	6-10-81
OP-8A	1	Valve Checkoff - CVCS System	5-22-81	6-10-81
OP-11.2A	1	Valve Checkoff - VG System	5-22-81	6-10-81
OP-13	1	Valve Checkoff - Primary Drain System	5-22-81	6-10-81
OP-14A	1	Valve Checkoff - Residual Heat Removal System	5-22-81	6-10-81
OP-31.2A	1	Valve Checkoff - Auxiliary Feedwater System	5-15-81	6-10-81
OP-50A	1	Valve Checkoff - Bearing Cooling System	5-22-81	6-10-81
OP-7.3	1	Valve Checkoff - Outside Recirc. Spray System	5-15-81	6-10-81