VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 79-07

JULY, 1979

APPROVED:

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OPERATING DATA REPORT

DOCKET NO. 50 #280

DATE 02 AUG 79

COMPLETED BY O.J. COSTELLO

TELEPHONE 804#357#3184

N/A

OPERATING STATUS

| 1. | UNIT NAME | SURRY | UNIT 1 |
|-----------|---|--------|-------------------------|
| 2. | REPORTING PERIOD | 001 7/ | /1/79 <i>TO</i> 7/31/79 |
| З. | LICENSED THERMAL POWER (MWT) | 2441 | |
| 4. | NAMEPLATE RATING (GROSS MWE) | 847.5 | NOTES |
| 5. | DESIGN ELECTRICAL RATING (NET MWE) | 822 | 1 |
| 6. | MAXIMUM DEPENDABLE CAPACITY (GROSS MWE) | 811 | 1 |
| | MAXIMUM DEPENDABLE CAPACITY (NET MWE) | 775 | |
| 8. | IF CHANGES OCCUR IN CAPACITY RATINGS | N/A | |
| | (ITEMS 3 THROUGH 7) SINCE LAST | | |
| | REPORT, GIVE REASONS | | |

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

THIS MONTH YRETOEDATE CUMULATIVE

| 11. | HOURS IN REPORTING PERIOD | 744:0 | 5087.0 | 57911.0 |
|-----|---|-----------|-----------|-------------------|
| 12. | NUMBER OF HOURS REACTOR WAS CRITICAL | 0.0 | 1713.6 | 37413.5 |
| 13. | REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. | HOURS GENERATOR ON LINE | 0.0 | 1711.7 | 36570.6 |
| 15. | UNIT RESERVE SHUTDOWN HOURS | 744.0 | 1464.0 | 1464.0 |
| 16. | GROSS THERMAL ENERGY GENERATED (MWH) | 0.0 | 4159617.0 | 84515570.0 |
| 17. | GROSS ELECTRICAL ENERGY GENERATED (MWH) | 0.0 | - | 27542738.0 |
| 18. | NET ELECTRICAL ENERGY GENERATED (MWH) | 0.0 | | 26239983.0 |
| 19. | UNIT SERVICE FACTOR | 0.0 | | 63.1 0/0 |
| 20. | UNIT AVAILABILITY FACTOR | 100.0 0/0 | 62.4 0/0 | 65 . 7 •/• |
| 21. | UNIT CAPACITY FACTOR (USING MDC NET) | 0.0 | 32.2 0/0 | 58.5 •/• |
| 22. | UNIT CAPACITY FACTOR (USING DER NET) | 0.0 | 30.3 •/• | 55.1 % |
| 23。 | UNIT FORCED OUTAGE RATE | 100.0 0/0 | 66.4 o/o | 21.8 0/0 |
| 24. | SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS | | | • |
| - | (TYPE, DATE, AND DURATION OF EACH) | • | | |

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

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Aug. 18, 1979

FORECAST ACHIEVE.

OPERATING DATA REPORT

DOCKET NO. 50 #281

DATE 02 AUG 79

COMPLETED BY O.J. COSTELLO
TELEPHONE 804 #357 #3184

OPERATING STATUS

| 1. | UNIT NAME | SURRY UNIT 2 |
|----|---|-----------------------|
| 2. | REPORTING PERIOD | 001 7/1/79 TO 7/31/79 |
| 3. | LICENSED THERMAL POWER (MWT) | 2441 |
| 4. | NAMEPLATE RATING (GROSS MWE) | 847.5 NOTES |
| 5. | DESIGN ELECTRICAL RATING (NET MWE) | 822 |
| 6. | MAXIMUM DEPENDABLE CAPACITY (GROSS MWE) | 811 |
| 7. | MAXIMUM DEPENDABLE CAPACITY (NET MWE) | 775 |
| 8. | IF CHANGES OCCUR IN CAPACITY RATINGS | N/A |
| | (ITEMS 3 THROUGH 7) SINCE LAST | |
| | REPORT, GIVE REASONS | |

- 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 | 744.0 | 5087.0 | 54791.0 |
|-----|---|-------|-----------|------------|
| 12. | NUMBER OF HOURS REACTOR WAS CRITICAL | 0.0 | 819.4 | 34499.9 |
| 13. | REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. | HOURS GENERATOR ON DLINE | 0.0 | 818.9 | 33996.2 |
| 15. | UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. | GROSS THERMAL ENERGY GENERATED (MWH) | 0.0 | 1957906.0 | 79194083.0 |
| 17. | GROSS ELECTRICAL ENERGY GENERATED (MWH) | 0.0 | 644305.0 | 25868844.0 |
| 18. | NET ELECTRICAL ENERGY GENERATED (MWH) | 0.0 | 611521.0 | 24536605.0 |
| 19, | UNIT SERVICE FACTOR | 0.0 | 16.1 0/0 | 62.0 0/0 |
| 2ù. | UNIT AVAILABILITY FACTOR | 0.0 | 16.1 0/0 | 62.0 0/0 |
| 21. | UNIT CAPACITY FACTOR (USING MDC NET) | û.û | 15.5 % | 57.8 0/0 |
| 22. | UNIT CAPACITY FACTOR (USING DER NET) | u, û | 14.6 0/0 | 54.5 0/0 |
| 23. | UNIT FORCED OUTAGE RATE | 0.0 | 0.0 | 21.0 % |
| 24. | SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS | | | |
| | (TIPE,DATE,AND DURATION OF EACH) | | | |

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

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Nov. 28, 1979
FORECAST ACHIEVED

UNIT SHUTDOWNS AND POWER REDUCTIONS

JULY 1979 REPORT MONTH

50-280 DOCKET NO. SURRY 1 UNIT NAME AUG. 1, 1979. DATE O. J. COSTELLO COMPLETED BY TELEI HONE

| No. | Date | Type | Duration (Hours) | Resson | Method of Shutting Down Reactor? | Licensee Event Report # | System Code ⁴ | کےفون کوف | Cause & Corrective Action to Prevent Recurrence |
|------|--------|------|---------------------|--------|--|-------------------------------|-----------------------------|--------------|--|
| 79-6 | 7–1–79 | F | 744 | D | 1. | | | | Continuation of shutdown due to Show-Cause order issued by the NRC concerning possible error in piping stress analysis performed by Stone & Webster. |
| | | | · | | | | | | Shutdown began on 3/19/79. An analysis is being prepared for submittal to the NRC. |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

F: Forced ! S: Scheduled

Reason:

A-Equipment Falluro (Explain) B-Maintenance of Test

C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination

F-Administrative

G-Operational Error (Explain) H Other (Explain)

Mothodt

1-Manual

2-Manual Scrain.

3-Automatle Scram.

4-Other (Explain)

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit 1 - Same Source

(9/17).

UNIT SHUTDOWNS AND POWER REDUCTIONS

50-281 DOCKET NO. SURRY 2 UNIT NAME AUG. 1, 1979 DATE O. J. COSTELLO COMPLETED BY TELEI HONE

REPORT MONTH JULY 1979

| No. | Date | Type | Duration (Hours) | Renson | Method of Shutting Down Reactor? | Licensee Event Report # | System Code ⁴ | Component Code-5 | Cause & Corrective Action to Provent Recurrence |
|------|--------|------|---------------------|--------|--|-------------------------------|-----------------------------|---------------------|---|
| 79–6 | 7–1–79 | S | 744 | С | 1 | | · | | Continuation of shutdown for refueling and steam generator replacement which began on 2/4/79. |
| | | | | | | | | | 1 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | - | | | | | |

F: Forced S: Scheduled Reason:

A-Equipment Pallure (Explain) B-Maintenance of Test

C-Refueling

D Regulatory Restriction
E Operator Training & Licensu Examination
F-Administrative

G-Operational Error (Explain) 11 Oilier (Explain)

Mothodt

1-Manual

2-Manual Scrain.

3-Automatic Scram.

4-Other (Explain)

Exhibit O - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit 1 - Same Source

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: JULY, 1979

| <u>DATE</u> | TIME | HOURS | LOAD, MW | REDUCTIONS, MW | MWH | REASON |
|-------------|------|-------|--------------|---------------------|-----|--------|
| | | | | | | |
| | | N | one during t | nis reporting perio | d. | |
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LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO.2

MONTH: JULY, 1979

| DATE | TIME | HOURS | LOAD, MW | REDUCTIONS, MW | MWH | REASON |
|------|------|-------|------------|---------------------|-------|--------|
| | | | None durin | g this reporting pe | riod. | |
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MONTHLY TOTAL

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DOCKET ? 50 #280
UNIT SURRY I
DATE 8#1#79
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JULI

79

| | AVERAGE DAILY POWER LEVE | | | AILY POWER LEVEL |
|----------------|--------------------------|-----|----|------------------|
| DAY | (In E a NET) | DAY | () | MWE & NET) |
| 1 | 0.0 | 17 | | 0.0 |
| 2 | 0.0 | 18 | | 0.0 |
| 3 | 0.0 | 19 | | 0.0 |
| , 4 | 0.0 | 20 | | 0 0 |
| 5 | 0.0 | 21 | | 0.0 |
| . 6 | 0.0 | 22 | | û. û |
| 7 | G, û | 23 | • | 0.0 |
| 8 | 0.0 | 24 | • | 0.0 |
| 9 | 0.0 | 25 | | 0.0 |
| 10 | 0.0 | 26 | ٠. | 0.0 |
| 11 | 0.0 | 27 | | 0.0 |
| 12 | 0.0 | 28 | | 0.0 |
| 13 | 0.0 | 29 | | 0.0 |
| 14 | . ∩• ∩ | ວິບ | | 0.0 |
| 15 | 0.0 | 31 | , | 0.0 |
| 16 | 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 REPORT ING 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.

DUCKET N 50 #281

UNI SURRY II

DATE 8 #1 #79

COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JULY 79

| DAY | AVERAGE | DAILY POWER LEVEL (MWE aNET) | DAY | AV ER AG E | DAILY POWER (MWE#NET) | LEVEL |
|-----|---------|------------------------------|-----|------------|--------------------------|-------|
| 1 | | 0.0 | 17 | | 0.0 | |
| 2 | | 0.0 | 18 | | 0.0 | |
| 3 | | 0.0 | 19 | | 0.0 | |
| . t | | 0.0 | 2υ | | . 0. 0 | |
| 5 | | U.U | 21 | | U. U | |
| 6 | | 0.0 | 22 | | 0.0 | |
| 7 | | 0.ŭ | 23 | | 0.0 | |
| 8 | | 0.0 | 24 | : | 0.0 | |
| 9 | | 0.0 | 25 | •• | 0.0 | |
| 10 | | 0.0 | 26 | | 0.0 | |
| 11 | | 0.0 | 27 | | 0.0 | |
| 12 | | 0.0 | 28 | | 0.0 | |
| 13 | | 0.0 | 29 | • | 0.0 | |
| 14 | | 0.0 | 30 | | 0.0 | |
| 15 | | 0.0 | 31 | | 0.0 | |
| 16 | | 0.0 | | | | |

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE ONET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORT OF ING 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.

JULY, 1979

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

- <u>July 1</u> This reporting period begins with the unit at cold shutdown and piping stress analysis in progress.
- July 31 This reporting period ends with the unit at cold shutdown.

UNIT 2

- July 1 This reporting period begins with the unit at cold shutdown, all fuel removed from the reactor and steam generator replacement in progress.
- July 31 This reporting period ends with the unit at cold shutdown.

JULY, 1979

There were none during this reporting period.

FACILITY CHANGES REQUIRING NRC APPROVAL

JULY, 1979

There were none during this reporting period.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

JULY, 1979

The following facility changes were implemented during the month of July. None of the changes constitute an unreviewed safety question per 10CFR50.59.

DESIGN CHANGE

UNIT

1,2

2

1. DC 77-40 - Domestic Water Supply

Description - This change provided for a third well to supply water to the Fire Protection and Domestic Water Storage Tanks. This additional water will compensate for the usage experienced with the increased number of personnel assigned to Surry.

Summary of Safety Evaluation

The provision for another well is not addressed in the Safety Analysis Report since it does not really effect a safety related system.

2. DC 78-S28 - Service Water Valve Replacement

Description - This change involves replacing the existing 1 1/2" and

2" gate valves in the service water system with bronze bell valves.

Summary of Safety Evaluation

This design change does not increase the probability of an occurrence previously evaluated in the FSAR, create a possibility for an accident or malfunction different from those evaluated, or reduce the margin of safety previously defined.

TESTS AND EXPERIMENTS REQUIRIN

JULY, 1979

There were none during this reporting period.

TEST AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

JULY, 1979

ST-39

Unit

The Anchor Bolt Inspection and Test Program for Seismic Category I piping systems was conducted on July 13, 1979. This test was designed to comply with an inspection required by I.E. Bulletin 79-02 and to verify the concrete anchor bolts fastened to hanger base plates installed in seismic category I systems were in accordance with the original design.

1

-13-ER CHANGES, TESTS AND EXPERIME

JULY, 1979

There were none during this reporting period.

CHEMISTRY REPORT

JULY , 19 79

T.S.6.6.A.11

| PRIMARY COOLANT ANALYSIS | , | UNIT NO |). 1 | | UNIT NO. 2 ** | | | | |
|-----------------------------|---------|---------|---------|---------|---------------|---------|--|--|--|
| AVALISIS | MAXIMUM | MINIMUM | AVERAGE | MAXIMUM | MINIMUM | AVERAGE | | | |
| Gross Radioact., μCi/ml | 3.08E-3 | 8.63E-4 | 1.55E-3 | 6.92E-4 | 3.76E-4 | 5.67E-4 | | | |
| Suspended Solids, ppm | 0.1 | 0,1 | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| Gross Tritium, µCi/ml | * | * | * | * | * | * | | | |
| Iodine-131, μCi/ml | * | * | * | * | * | * | | | |
| I-131/I-133 | * | * | * | * | * | * | | | |
| Hydrogen, cc/kg | 21.8 | 21.8 | 21.8 | * | * | * | | | |
| Lithium, ppm | * | * | * | * | * | * | | | |
| Boron-10, ppm + | 365.7 | 208.9 | 324.8 | 391.0 | 387.5 | 389.6 | | | |
| Oxygen-16, ppm | 0.000 | 0.000 | 0.000 | 4.500 | 3.800 | 4 .130 | | | |
| Chloride, ppm | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | | |
| рН @ 25°C | 5.22 | 4.66 | 5.00 | 4.87 | 4.68 | 4.77 | | | |

⁺ Boron-10 = Total Boron \times 0.196

NON-RADIOACTIVE CHEMICAL RELEASES, POUNDS T.S. 4.13.A.8

| | - | | | | |
|----------|---------------|------------------------|-----------------|--------------------|------------------|
| | Phosphate | 169 | Boron | 413 | • |
| | Sulfate | 171 | Chromate _ | 0.58 | |
| | 50% NaOH | 0.0 | Chlorine _ | 0.0 | <u>.</u> |
| Remarks: | * Unit at col | d shutdown entire mont | h of July. | | |
| | ** Unit drain | for primary maintenanc | e 07-11-79; no. | sampling performed | after this date. |
| | | | | | |

JULY, 1979

None during this reporting period.

- 16-FUEL HANDLING

JULY, 1979

During the month of July, 36 contaminated fuel assemblies were shipped to Westinghouse Nuclear Fuel Division at Columbia, South Carolina for refabrication.

JULY, 1979

FUEL HANDLING

UNIT NO 1

| | | UNIT NO.1 | |
|---------------------------------------|----------------------------------|--------------------------------|---|
| DATE SHIPPED/RECEIVED | NO OF ASSEMBLIES PER SHIPMENT | ANSI NO. INITIAL ENRICHMENT | NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEI |
| <u> </u> | | | |
| | | | |
| | | | |
| | None during | this reporting period. | |
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-18-JULY, 1979 FUEL HANDLING UNIT NO. 2

| · | T T | JNIT NO. 2 | |
|------------------------|----------------------------------|--------------------------------|--|
| DATE SHIPPED/BEXXETYEE | NO OF ASSEMBLIES PER SHIPMENT | ANSI NO. INITIAL ENRICHMENT | NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVE |
| 07-02-79 | 12 | LM06EQ/3.4% | 2.5 mR/hr. |
| | | LM06FV/3.4% | 2.5 mR/hr. |
| | | LM06FE/3.4% | 2.5 mR/hr. |
| | | LM06ER/3.4% | 2.5 mR/hr. |
| | | LM06G9/3.4% | 2.5 mR/hr. |
| | · | LM06EX/3.4% | 2.5 mR/hr. |
| | | LM06GC/3.4% | 2.5 mR/hr. |
| | | LM06GB/3.4% | 2.5 mR/hr. |
| | | LM06FY/3.4% | 2.5 mR/nr. |
| · | | LM06G6/3.4% | 2.5 mR/hr. |
| | | LM06GD/3.4% | 2.5 mR/hr. |
| | | LM06FC/3.4% | 2.5 mR/hr. |
| 07–18–79 | 12 | LM06FZ/3.4% | 2.5 mR/hr. |
| | | LM06G5/3.4% | 2.5 mR/hr. |
| | | LM06GH/3.4% | 2.5 mR/hr. |
| | | LMO6F1/3.4% | 2.5 mR/hr. |
| | | LM06G0/3.4% | 2.5 mR/hr. |
| | | LM06ES/3.4% | 2.5 mR/hr. |
| | | LM06FG/3.4% | 2.5 mR/hr. |
| | | LMO6FX/3.4% | 2.5 mR/hr. |
| | | LM06FK/3.4% | 2.5 mR/hr. |
| | | LM06G3/3.4% | 2.5 mR/hr. |
| | | LM06G8/3.4% | 2.5 mR/hr. |
| | | LM06F0/3.4% | 2.5 mR/hr. |
| 07-31-79 | ` i2 | LM06FT/3.1% | 2.5 mR/hr. |
| | | LM06FR/3.1% | 2.5 mR/hr. |
| | | LM06FS/3.1% | 2.5 mR/hr. |
| | | | |

-19-JULY, 1979 FUEL HANDLING

UNIT NO. 2

| | U | NIT NO. 2 | |
|--------------------------|----------------------------------|--------------------------------|--|
| DATE SHIPPED/RECESSIONED | NO OF ASSEMBLIES PER SHIPMENT | ANSI NO. INITIAL ENRICHMENT | NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVE |
| 07-31-79 | | LMO6FN/3.1% | 2.5 mR/hr. |
| (continued) | | LM06FH/3.1% | 2.5 mR/hr. |
| | | LM06FP/3.1% | 2.5 mR/hr. |
| | | LM06EY/3.1% | 2.5 mR/hr. |
| | | LMO6ET/3.1% | 2.5 mR/hr. |
| | | LM06FQ/3.1% | 2.5 mR/hr. |
| | | LM06FJ/3.1% | 2.5 mR/hr. |
| | | LM06EW/3.1% | 2.5 mR/hr. |
| | | LM06FL/3.1% | 2.5 mR/hr. |
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PROCEDURE REVISIONS THAT CHANGED THE OPERATING MODE DESCRIBED IN THE FSAR

JULY, 1979

There were none during this reporting period.

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

JULY, 1979

There were none during this reporting period.

INSERVICE INSPECTION

JULY, 1979

The Unit #1 initial radiography inspection of the feedwater lines, per IE Bulletin No. 79-13, was completed July 25, 1979, with the following results:

"A" Steam Generator Feedline - 17 welds total; 4 welds are rejectable due to small areas of porosity, lack of fusion, etc. No cracking as was reported in the nozzle area was noted. Two welds could not be radiographed due to the presence of water in the line. These welds were ultrasonically examined and found to be acceptable.

"B" Steam Generator Feedline - 11 welds total; 2 welds are rejectable due to small areas of porosity, incomplete fusion, etc. No cracking as was reported in the nozzle area was noted. One welds total surface was only inspected 60% due to a saddle support for snubbers covering the remainder of the weld.

"C" Steam Generator Feedline - 14 welds total; 6 welds are rejectable due to small areas of porosity, incomplete fusion, slag, etc. No cracking as was reported in the nozzle area was noted.

The 3" Auxiliary Feedline connections on all three Main Feedlines were magnetic particle inspected. The results of the inspections were acceptable.

Radiography was performed on the Unit #2 Steam Generator Feedwater Nozzles and the 16" x 14" reducer welds. Radiography showed crack indications on the counterbore of the reducer 16" end in "A" Steam Generator; crack indications on the counterbore of the reducer 16" in "B" Steam Generator; incomplete fusion/porosity/slag - rejectable on the 16" end in "C" Steam Generator.

The 14" weld to reducer was radiographed on "A", "B" and "C" Feedlines and showed a small crack at the root of the weld on "C" reducer weld.

Radiography is in progress on the Unit #2 Feedwater Lines. Results are not yet available.

A visual inspection was performed on valve 1-RC-127 and associated piping with no reportable indications noted.

DEPT = NDTUNIT'I* (MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED FOWER PERIODS) KETSERVUT SYS COMP MARKNO SUMMARY WKPERF MR TOTOWNIM -07/23/79 RC VALVE 18hVe127 NOT WELDS ON VALVETPER VISUAL INSPECT SATISFACTORY DEPT TOTAL

| | | UNIT2₩ | | | | | |
|------------------------|---------|---------|--------|-----------|---------|--------------|----------|
| (MAINTENANCE OF SAFETY | RELATED | SYSTEMS | DURING | OUTAGE OF | REDUCED | POWER | PERIODS) |

| RETSERVDT | SYS | COMP | MARKNO | SUMMARY | | WKPERF | u | MR | TOTOWNIM |
|-----------|----------------|----------------------------|-------------------------------------|---------------|-------------------|--|---|-------------------------------------|---|
| 07/20/79 | FW EW EW | PIPING PIPING PllinG | 2=RC=E=1A 2=RC=E=1B 2=RC=E=1C | RADIOGRAPH FW | NOZZLE TO SG WELD | 16' REDUCER WELD REJECT 16' REDUCER WELD REJECT 16' + 14' REDUCER WELDS REJECT | 2 | 906260945 906260946 906260947 | 557 557 557 557 ##### 1671 |

JULY, 1979

None during this reporting period.

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

UNIT1.

| (MAINTENANCE OF | SAFETY | RELATED | SYSTEMS | DURING | OUTAGE | OR | REDUCED | FOWER | PERIODS) |
|-----------------|--------|---------|---------|--------|--------|----|---------|--------------|----------|
| | | | | | | | | | |

| 07/12/79 RS HX 1=RS=E=1D LEAK TEST HX FOR TUBE LEAK PREPARED HX FOR AIR DROP TEST 1 905211337 498 07/12/79 ES DIESEL EDG1 CHROMATES LOW IN NO 1 DIESEL ADDED CHROMATES 1 907031034 5 07/12/79 EE DIESEL EDG3 ADD CHROMATES TO DIESEL ADDED CHROMATES 1 907031034 5 07/13/79 PL PIPIM 1=PL*P=3B TRIFE ON OVERLOAD REPAIRED TUMP 1 906212100 9 07/13/79 CC PIPING 1=CC=227 SIIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091415 48 07/13/79 CC PIPING 1=CC=227 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091415 48 07/13/79 CC PIPING 1=CC=227 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091416 48 07/13/79 CC PIPING 1=CC=227 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091416 48 07/13/79 CC PIPING 1=CC=227 <th>RETSERVOT</th> <th>SYS</th> <th>COMP</th> <th>MARKNO</th> <th>SUMMARY</th> <th>WKPERF</th> <th>U</th> <th>MR</th> <th>TOTDWNTM</th> | RETSERVOT | SYS | COMP | MARKNO | SUMMARY | WKPERF | U | MR | TOTDWNTM |
|---|------------------------------|------------------|----------|----------------|--|--|-----|---------------------|----------|
| 07/12/79 EE DIESEL EDG3 ADD CHROMATES TO DIESEL ADDED CHROMATES 1 907061300 9 07/13/79 PL PUMP 1 *PL*P*3B TRIPS ON OVERLOAD REPAIRED RUMP 1 906212100 9 07/13/79 CC PIPING 18 *CC*227 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091415 48 07/13/79 CC PIPING 18 *CC*227 SHIM PER ATTACHED PROCEDURE*C*12 INSTALLED AS PER DESIGN 1 907091416 48 07/13/79 CC PIPING 18 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 18 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 18 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 18 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 18 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091410 48 07/18/79 CC PIPING 18 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091410 48 07/18/79 CC PIPING 1 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091410 48 07/23/79 CC PIPING 1 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907192345 1 1 07/23/79 CC PIPING 1 *CC*237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907200730 11 07/23/79 CC PIPING FE*1160 FLANGE LEAKING REPLACED GASKETS 1 907090002 5 07/23/79 SI PIPING FE*1943 FLANGE LEAKING REPLACED GASKETS 1 907090002 5 07/23/79 SI PIPING FE*1943 FLANGE LEAK REPAIRED FLANGE LEAK 1 907192120 100 07/24/79 RC VALVE 1*RC*127 ADJUST OR REPACK REPAIRED FLANGE LEAK 1 907201135 32 07/25/79 FC PUMP 1*FC*P*7A BAD SEALS REMOVE STEEL PLATE 1 907201135 32 07/25/79 FC PUMP 1*FC*P*7A BAD SEALS REMOVE STEEL PLATE 1 903200745 21 07/26/79 RC VALVE 1*RC*126 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1*RC*126 PACKING LEAK REPACKED 1 903200745 21 07/27/79 RC VALVE 1*RC*128 PACKING LEAK REPACKED 1 907201105 36 | 07/12/79 | RS | HX | 1mRSvEw1D | LEAK TEST HX FOR TUBE LEAK | PREPARED HX FOR AIR DROP TEST | i | 906211337 | 498 |
| 07/12/79 EE DIESEL EIC3 ADD CHROMATES TO DIESEL ADDED CHROMATES 1 907661300 9 07/13/79 PL PUMP 1 **PIL**P*3B THIPS ON OVERILADD REPAIRED FUMP 1 905621300 9 07/13/79 CC PIPING 1 **B**CC**227 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091415 48 07/13/79 CC PIPING 1 **B**CC**227 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 1 **CC**237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 1 **CC**237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 1 **CC***237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/18/79 CC VALVE 1 **CC********************************* | 07/12/79 | EE | DIESEL | EUG 1 | CHROMATES LOW IN NO 1 DIESEL | ADDED CHROMATES | . 1 | 907031034 | 5 |
| 07/13/79 CC P1PING 18 **CC **227 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091415 48 07/13/79 CC P1PING 18 **CC **227 SHIM PER ATTACHED PROCEDURE **C **12 1NSTALLED AS PER DESIGN 1 907091416 48 07/13/79 CC P1PING 18 **CC **237 SHIM PER ATTACHED SKETCH 1NSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC P1PING 18 **CC **237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC P1PING 18 **CC **237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/18/79 CC P1PING 18 **CC **237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/21/79 CH VALVE 1 **CC **237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091418 48 07/23/79 CH VALVE 1 **CC **237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 9070901418 48 <t< td=""><td></td><td>EE</td><td>DIESEL</td><td>EDG3</td><td>ADD CHROMATES TO DIESEL</td><td>ADDED CHROMATES</td><td>1</td><td>907061300</td><td>9</td></t<> | | EE | DIESEL | EDG3 | ADD CHROMATES TO DIESEL | ADDED CHROMATES | 1 | 907061300 | 9 |
| 07/13/79 CC P1PING 18 wCC w 227 SHIM PER ATTACHED PROCEDURE w 212 INSTALLED AS PER DESIGN 1 9070 91416 48 07/13/79 CC P1PING 18 wCC w 237 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 9070 91417 48 07/13/79 CC P1PING 16 wCC w 17 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGNED 1 9070 91418 48 07/18/79 CH P1PING 16 wCC w 17 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 9070 91418 48 07/18/79 CH VALVE 1 wCHw373 HYDROGEN GAS LEAK STOPPED LEAK 1 9070 90145 1 07/23/79 CH PHIMP 1 wCHw373 HYDROGEN GAS LEAK STOPPED LEAK 1 9070 9070 9070 11 07/23/79 CH PIPING FE-1160 FLANGE LEAKING REPLACED GASKETS 1 9070 90802 5 07/23/79 IA VALVE TwTAPS CLEANED TRAPS 1 907130224 5 07/24/79 RC VALVE 1 wCw2127 AUJUST OR REPACK | 07/13/75 | $\bar{P}\bar{L}$ | PUMP | 1 *Pl, *P * 3B | TRIPS ON OVERLOAD | REPAIRED FUMP | 1 | 906212100 | . 9 |
| 07/13/79 CC PIPING 18-CC-237 SHIN PER ATTACHED SKETCH INSTALLED AS PER DESIGN 1 907091417 48 07/13/79 CC PIPING 16-CC-17 SHIM PER ATTACHED SKETCH INSTALLED AS PER DESIGNED 1 907091418 48 07/18/79 CH VALVE 1-CH-373 HYDROGEN GAS LEAK STOPPED LEAK 1 907192345 1 07/21/75 CH PIMP 1-CH-37-2A 1-CH-37-2A DOES NOT FUMP RESET HIMP REPAIRED COUPLING 1 907200730 11 07/23/79 CH PIPING FE-1160 FLANGE LEAKING REPLACED GASKETS 1 907090002 5 07/23/79 IA VALVE FIX WATER TRAPS CLEANED TRAPS 1 907130220 5 07/24/79 KC VALVE FE-1943 FLANGE LEAK REPACKED FLANGE LEAK 1 907192120 0 07/24/79 KC VALVE 1-RC-427 ADJUST OR REPACK REPACKED VALVE 1 907201135 32 07/25/79 KC PIND 1-RC-70-1A BAD SEALS REPACKED 1 903200745 </td <td>07/13/79</td> <td>CC</td> <td>PlPING</td> <td>18 #CC #227</td> <td>SHIM PER ATTACHED SKETCH</td> <td>INSTALLED AS PER DESIGN</td> <td>1</td> <td>907091415</td> <td>48</td> | 07/13/79 | CC | PlPING | 18 #CC #227 | SHIM PER ATTACHED SKETCH | INSTALLED AS PER DESIGN | 1 | 907091415 | 48 |
| 07/13/79 | 07/13/79 | CC | P1 P1 NG | 18 oCC o 227 | SHIM PER ATTACHED PROCEDURE . C . 12 | INSTALLED AS PER DESIGN | 1 | 907091416 | 48 |
| 07/18/79 CH VALVE 1 wCH*373 HYDRUGEN GAS LEAK STOPPED LEAK 1 907142345 1 07/21/79 CH PUMP 1 wCH***P**2A 1 cH***P**2A DOES NOT PUMP RESET FUMP REPAIRED COUPLING 1 907200730 11 07/23/79 CH PIPING FE***1160 FLANGE LEAKING REPLACED GASKETS 1 907090002 5 07/23/79 IA VALVE FIX WATER TRAPS CLEANED TRAPS 1 907130224 5 07/23/79 SI PIPING FE***1943 FLANGE LEAK REPAIRED FLANGE LEAK 1 907130224 5 07/24/79 KC VALVE 1 **RC***127 ALJUST OR REPACK REPAIRED FLANGE LEAK 1 907232140 4 07/24/79 RC VALVE 1 **RC***127 ALJUST OR REPACK REPACKED VALVE 1 907201135 32 07/25/79 RC PIMP 1 **RC***128 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1 **RC***126 PACKING LEAK REPACKED 1 907241457< | ~07/13/79 [~] ~ | CC | PIPING | 18 CC = 237 | SHIM PER ATTACHED SKETCH | INSTALLED AS PER DESIGN | 1- | ~907091417 | 48 |
| 07/21/79 CH PHMP 1 **CH**P**2A 1 **CH**P**2A DOES NOT FUMP RESET HIMP REPAIRED COUPLING 1 907200730 11 07/23/79 CH PIPING FE**1160 FLANGE LEAKING REPLACED GASKETS 1 907090802 5 07/23/79 IA VALVE FIX WATER TRAPS CLEANED TRAPS 1 907130224 5 07/23/79 SI PIPING FE**1843 FLANGE LEAK REPAIRED FLANGE LEAK 1 907232140 4 07/24/79 RC VALVE 1 **RC**127 ADJUST OR REPACK REPAIRED FLANGE LEAK 1 907192120 10 07/24/79 RC VALVE 1 **RC**127 ADJUST OR REPACK REMOVE STEEL PLATE 1 907201135 32 07/25/79 RC PINP 1 **FC**128 BAD SEALS REPACKED SKET REPACKED 1 903200745 21 07/26/79 RC VALVE 1 **RC**126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 | 67/13/79 | UC' | PlPlNG | 18 •CC •17 | SHIM PER ATTACHED SKETCH | INSTALLED AS PER DESIGNED | 1 | 907091418 | 48 |
| 07/23/79 CH PIPING FE*1160 FLANGE LEAKING REPLACED GASKETS 1 907090802 5 07/23/79 IA VALVE FIX WATER TRAPS CLEANED TRAPS 1 907130229 5 07/23/79 SI PIPING FE*1943 FLANGE LEAK REPAIRED FLANGE LEAK 1 907232140 4 07/24/79 KC VALVE 1*RC*127 ADJUST OR REPACK KEPAIRED FLANGE LEAK 1 907192120 100 07/24/79 RS PIPING 10*RS*4*153 REMOVE STEEL PLATE SEE ATTACHED SKET REMOVED STEEL PLATE 1 907201135 32 07/25/79 KC PIMP 1*FC*P*17 BAD SEALS REPACKED SKET REPACKED 1 905221447 751 07/26/79 KC VALVE 1*KC*126 PACKING LEAK REPACKED 1 903200745 21 07/26/79 KC VALVE 1*KC*126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 KC VALVE 1*KC*128 PACKING LEAK REPACKED 1 907241457 21 07/27/79 KC VALVE 1*KC*128 PACKING LEAK REPACKED 1 907241457 36 | 07/18/79 | CH | VALVE | 1*CH*373 | HYDROGEN GAS LEAK | STOPPED LEAK | 1 | 907142345 | 1 |
| 07/23/79 IA VALVE FIX WATER TRAPS CLEANED TRAPS 1 907130229 5 07/23/79 SI PIPING FE*1943 FLANGE LEAK REPAIRED FLANGE LEAK 1 907232140 H 07/24/79 KC VALVE 1*RC*127 ADJUST OR REPACK HEPACKED VALVE 1 907192120 100 07/24/79 RS PIPING 10*RS****153 REMOVE STEEL PLATE SEE ATTACHED SKET REMOVED STEEL PLATE 1 907201135 32 07/25/79 FC PIMP 1*FC**PFIA BAD SEALS REPLACE CASING WARE RINGS 1 907201135 32 07/26/79 KC VALVE 1*RC**126 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1*RC**126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 RC VALVE 1*RC**128 PACKING LEAK REPACKED 1 907241457 21 | ~~ 07/21/79~~ | "CH | PUMP | 1.Cll.P.2A | 1.CH.P.2A DOES NOT PUMP | RESET HIMP REPAIRED COUPLING | 1 | ~907200 7 30 | ```` `ii |
| 07/23/79 SI PIPING FE*1943 FLANGE LEAK REPAIRED FLANGE LEAK 1 907232140 4 07/24/79 KC VALVE 1 **RC*127 ALJUST OR REPACK H&PACKED VALVE 1 907192120 100 07/24/79 RS PIPING 10 **RS***4*153 REMOVE STEEL PLATE SEE ATTACHED SKET REMOVED STEEL PLATE 1 907201135 32 07/25/79 FC POMP 1 **FC***P***1A BAD SEALS HEPLACE CASING WARE RINGS 1 905221447 751 07/26/79 INC VALVE 1 **HC***70 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1 **RC***126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 RC VALVE 1 **FC***128 PACKING LEAK REPACKED 1 **806271310 36 | 07/23/79 | CH | PIPING | FE a 1160 | FLANGE LEAKING | REPLACED GASKETS | 1 | 907090802 | 5 |
| 07/24/79 RC VALVE 1 **RC*127 ADJUST OR REPACK H&PACKED VALVE 1 907192120 100 07/24/79 RS PIPING 10 **RS**4*153 REMOVE STEEL PLATE SEE ATTACHED SKET REMOVED STEEL PLATE 1 907201135 32 07/25/79 FC POMP 1 **FC**P**1A BAD SEALS HEPLACE CASING WARE RINGS 1 905221447 751 07/26/79 MC VALVE 1 **HC**70 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1 **RC**126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 MC VALVE 1 **RC**128 PACKING LEAK REPACKED 1 **806271310 36 | 07/23/79 | IΑ | VALVE | | FIX WATER TRAPS | CLEANED TRAPS | 1 | 907130224 | 5 |
| 07/24/79 RS PIPING 10*RS*44153 REMOVE STEEL PLATE SEE ATTACHED SKET REMOVED STEEL PLATE 1 907201135 32 07/25/79 FC PUMP 1*FC*P*1A BAD SEALS REPLACE CASING WARE RINGS 1 905221417 751 07/26/79 RC VALVE 1*RC*70 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1*RC*126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 RC VALVE 1*RC*128 PACKING LEAK REPACKED 1 806271310 36 | | SI | PIPING | FE + 1943 | FLANGE LEAK | REPAIRED FLANGE LEAK | 1 | 907232140 | , IÌ |
| 07/25/79 FC PIMP 1 \$\subseteq E \color \sqrt{1} \sqrt{1}\$ BAD SEALS REPLACE CASING WARE RINGS 1 905221417 751 07/26/79 RC VALVE 1 **RC**126 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1 **RC**126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 RC VALVE 1 **RC**128 PACKING LEAK REPACKED 1 806271310 36 | | | VALVE | | ADJUST OR REPACK | | . 1 | | |
| 07/26/79 NC VALVE 1 **RC**10 PACKING LEAK REPACKED 1 903200745 21 07/26/79 RC VALVE 1 **RC**126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 RC VALVE 1 **RC**128 PACKING LEAK REPACKED 1 806271310 36 | | | PIPING | | The state of the s | and the second of the second o | 1 | | |
| 07/26/79 RC VALVE 1 *RC *126 PACKING LEAK REPACKED 1 907241457 21 07/27/79 RC VALVE 1 *RC *128 PACKING LEAK REPACKED 1 806271310 36 | | FC | PUMP | 1.FC.P.1A | BAD SEALS | REPLACE CASING WARE RINGS | 1 | ~ 905221447° | 751 " |
| 07/27/79 NC VALVE 1 WHC 128 PACKING LEAK REPACKED 1 806271310 36 | | | | | | | 1 | | |
| | | | | | | | 1 | | |
| 07/31/79 EE VALVE 3wEDGw14 LEAKS THRU AND PACKING LEAKS CHECK FOR LEAK THRU FOUND NO LEAK 1 907291410 3 | | | | | | | 1 | | |
| | 07/31/79 | EE | V ALV E | 3 wEDG w14 | LEAKS THRU AND PACKING LEAKS | CHECK FOR LEAK THRU FOUND NO LEAK | 1 | 907291410 | 3 |

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

UNIT2.

(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED FOWER PERIODS)

| | | | (MAINADANIO | OF DAIDIY REDAIDS DIDIESS DUR. | THO OUTHOR OF REDUCED CONTRACTORES | | | | |
|----------------------------|----------|----------------|--------------------|---|--|----------------|---------------|--------------|---|
| RETSERVDT | SYS | COMP | MARKNO | SUMM AR Y | WKPERF | U | MR | TOTINNI'M | |
| 07/03/79 | CS | VALVE | 2.CS.27 | REPLACE DIAPHRAGM | REPLACED ORING | - 2 | 902151428 | 26 " | |
| 07/U1/79 | CC | 1UMP | 2vCC uPu2A | REPLACE PUMP SEAL | REPLACED FUMP SEAL | 2 | 906251850 | 12 | |
| 07/11/79 | SI | VALVE | 2 <i>eSI</i> | PACKING LEAK | ADJUSTED PACKING | 2 | 811141923 | 26 | |
| 07/11/79 | "ČH | "VALVE" | 2.01.1 | REPLACE DIAPHRAGM | ADJUSTED PACKING REPLACE VALVE+DIAPIRAGM | 2 | 902161034 | 306 | ٠ |
| 07/11/79 | CH | VALVE | 2#C11#2 | REPLACE DIAPHRAGM | KEPLACE DIAPHRAGM+ORINGS | 2 | | 306 | |
| 07/11/79 | CH | VALVE | 2#Cll#3 | REPLACE DIAPHRAGM | RPLACE DIAPHRAGM AND ORINGS | 2 | 902161036 | 306 | |
| " 07/11/79 | CH | VALVE | 2 aCH a 4 | REPLACE DIAPHRAGM | RPLACE DIAPHRAGM AND ORINGS REPLACED DIAPHRAGM | - 2- | 902151037 | 306 | |
| 07/11/79 | CII | VALVE | 2nCH = 5 | REPLACE DIAPHRAGM | KEPLACED DIAPHRAGM | 2 | 902161038 | 306 | |
| 07/11/79 | си | VALVE | 2nCll = 6 | KEPLACE DIAPHRAGM | REPLACED DIAPURAGM REPLACED DIAPURAGM REPLACED DIAPURAGM | 2 | 902161039 | 306 | |
| 07/11/75 | Cli | VALVE | 2 aCH = 7 | REPLACE DIAPURAGA | REPLACED DIAPHRAGM | 2 " | 902161040 | 305 | |
| 07/11/79 | CH | VALVE | 2 <i>4CH 4</i> B | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS VALVE PROGR | 2 | 902161041 | 306 | |
| 07/11/79 | CH | VALVE | 2 = CH = 9 | REFLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS VALVE PROGR | | 902161042 | 306 | |
| 07/11/79 | CH | VALVE | 2.CH.10 | REPLACE DIAPHRAGN | REPLACE DIAPHRAGM ANDORINGS | 2 | 902161043 | 306 | |
| 07/11/79 | СН | VALVE | 2 .CH 11 | REPLACE DIAPURAGM | REPLACE DIAPHRAGM+ORINGS | 2 | | 306 | |
| 07/11/79 | CH | VALVE | 2 <i>∗Cll</i> •12 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS VALVE PROGR | 2. | 90 21 61 04 5 | 306 | |
| 07/11/79 | CH | VALVE | 2 • CH • 13 | REPLACE DI APIIRAGM | REPLACE DIAPHRAGM ORINGS REPAIR VALV | | | 306 | |
| 07/11/79 | CH | VALVE | 2 • CII • 21 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM | 2 | 902161053 | 1298 | |
| 07/11/79 | CH | VALVE | 2#C11#39 | KEPLACE DI APHRAGM | REPLACED DIAPHRAGM | 2 | | 55 | |
| 07/11/79 | CH | VALVE | 2#Cll=40 | REPLACE DI APIRAGM | | 2 | | 55 | |
| 07/11/79 | CH | VALVE | 2 *CH * 41 | REPLACE DIAPHRAGM | Hat brood bant minor | 2 | | 55 | |
| 07/11/79 | CII | VALVE | 2#01/446 | REPLACE DIAPHRAGM | REPLACE DIAFHRAGM AND ORING VALVE PR | 2. | 902161115 | 30 | |
| 07/11/75 | CII | VALVE | 2.011.117 | REPLACE DIAPHRAGM | REPLACE DIAPHRACH FORINGS VALVE PROGR | | | 30 | |
| 07/11/79 | CH | VALVE | 2#CH#48 | REPLACE DIAPHRACM | REPLACE DIAPHRACM AND URINGS VALVE P | ^ | 000101107 | 30 | |
| 07/11/79 | CII | VALVE | 2 uCH u 58 | REPLACE DIAPHRAGM | REPLACED DIAPHRAGM REPLACED DIAPHRAGM | 2 | 902161127 | 1323 1323 | |
| 07/11/79 | CII | VALVE VALVE | 2#CH+60 2#CH+55 | REPLACE DIAPHRAGM TIGHTEN REACH ROD AT VALVE | REPLIKED DIAPHRAGM REPAIRED REACH ROD | 2 | 906271517 | 22 | |
| 07/12/79 | CH KH | V ALV E | FCV #RH#2605 | REPAIR OPERATOR AND REPACK | REPAIRED LIMIT TORQUE+REPACED VALVE | 2 | | 96 | |
| 07/17/79 | en e | VALVE | 2 wCH w 27 | REPLACE DIAPHRACM | REPLACE DIAPHRAGNIORINGS | | | 19 B | |
| | СН | VALVE | 2#CH#29 | REPLACE DIATURAGA | REPLACE DIAPHRAGM+ORINGS | 2 | 902161057 | 148 | |
| 07/17/79 | CH | VALVE | 2#CH#25 | REPLACE DIAPHRAGM | | . 2 | | 148 | |
| 07/17/79 | -cn | VALVE | 2#CH+31 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | - 2 - | | 148 | |
| 07/17/79 | CH | V ALVE | 2#CH#31 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | 2 | 902161101 | 148 | |
| 07/17/79 | CII | V ALV E | 2#CH#32 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | 2 | | 198 | |
| ~07/17/79 ~ | CH | VALVE | 2.CH.34 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | 2 | 902161103 | 198 | |
| 07/17/79 | CII | VALVE | 2 nC ll n 36 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | 2 | 902161105 | 148 | |
| 07/17/79 | СИ | VALVE | 2#CH#36 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | 2 | 902161107 | 148 | |
| 07/19/79 | RH | VALVE | 2*RH=19 | BODY TO BONNET LEAK | CHANGED GASKET | 2 | - 507091423 | 65 | |
| 07/19/79 | RH | VALVE | 24811624 | | CHANGED GASKET | 2 | 907091425 | 68 | |
| 07/19/79 | RH | VALVE | 2#R/I+25 | PACKING LEAK | REPACKED VALVE | 2 | 907091426 | 40 | |
| 07/19/79 | 14 | VALVE | TV = 1 A = 201 A | PACKING LEAK | TIGHTEN PACKING GLAND | | 907121036 | 112 | |
| 07/19/79 | 11 | PIPING | TV = 1A = 201A | A 40 MIN TO 443 MA 3M AND AND DE 444 AND | DEDE AND A ANDROY | 2 | 907121037 | 112 | |
| 07/21/79 | cn | VALVE | 2 CH 14 | REPGACE DIAPHRAGM | manager a transfer of the second seco | _ | | 122 | |
| 07/21/79 | CH | - VALVE | 2.CII.15 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS REPLACE DIAPHRAGM+ORINGS | - " <u>2</u> " | 902151048 | 122 | • |
| 07/21/79 | CH | VALVE | 2=CH+16 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | 2 | 902161049 | 122 | |
| 07/21/79 | СН | VALVE | 2#Cll#17 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM | 2 | 902161050 | 122 | |
| 07/21/79 | ~CII ~ | VALVE | 2.C/1.50 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGNITORINGS | Ž | 9021 61119 | 122 | |
| 07/21/79 | CH | VALVE | 2#CH#51 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM+ORINGS | 2 | 902161120 | 122 | |
| | | | | | | | | | |

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UNIT2. (MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED FOWER PERIODS)

| RET SERV DT | SYS | COMP | MARKNO | SUMMARY | WKPERF | U | , lik | TOTOWNTM |
|-------------------|-------|---------|-----------------|--|---------------------------------------|------------------|------------|----------|
| 07/21/79 | ~C11: | VALVE | 2.CH.52 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM | 2 | 902161121 | 122 |
| 07/21/79 | CH | VALVE | 2 · Cll • 54 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM | 2 | 902161123 | 122 |
| 07/23/79 | CH | VALVE | 2#C//#53 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM | 2 | 902161122 | 169 |
| 07/23/79 | IA | VALVE | | FIX WATER TRIPS | CLEANED TRAFS | 2 | 907130226 | ij., |
| 07/24/79 | CH | VALVE | 2 ·Cll ·18 | REPLACE DIAPURAGM | REPLACE DIAPHRAGM | 2 | 902161051 | 192 |
| 07/24/79 | CH | VALVE | 20Cll #19 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM | 2 | 902161052 | 192 |
| 07/24/79 | · CH | VALVE | 20CH 4 119 | REPLACE DIAPHRAGM | REPLACE DIAPHRAGM AND ORINGS | -2 | 7902161118 | 192 |
| 07/25/79 | MS | VALVE | 2*MS*80 | REPACK+RESEAT+RECOND VLV | RECONDITIONED AND RESEATED VALVE | 2 | 902250015 | 3512 |
| 07/25/79 | MS | VALVE | 2 mMS w 81 | REPACK+RESEAT+RECOND VLV | REBULLT VALVE | 2 | 902250016 | 3512 |
| 07/25/79 | -MS | - VALVE | 2 MS 4152 | RECONDITION*RESEAT VLV | RECUNDITIONED AND RESEATED VALVE | 2 | 902250032 | 3512 |
| 07/25/79 | NS | VALVE | RV #CC #217B | The state of the s | TESTED VALVE OUT+TESTED | 2 | 905101300 | 50 |
| 07/25/79 | NS | VALVE | Kv *CC * 217A | | TESTED VALVE AS REQUIRED | 2 | 905101301 | 50 |
| 07/26/79 - | RII | VALVE | RV &CC & 219B | REMOVE VALVE TEST AND REPAIR | TESTED RELIEF VALVE | - ₂ . | 905101303 | · 76 |
| 07/26/79 | СН | VALVE | 11CV .CH . 2142 | | REPAIRED VALVE | 2 | 907061500 | 336 |
| 07/27/79 | RM | MONITOR | 2#RM#259 | NO FLOW OR VACUUM | ADJUSTED LOOSE DELT INSTALLED NEW PU | - | 907260750 | 144 |
| U7725/79 | ka | PIPING | 3#RH#113#602 | · · · · · · · · · · · · · · · · · · · | RENEWED GASKET | · | 907090801 | 69 |
| 07/28/79 | RH | VALLE | kv widi = 2271 | TEST RELIEF SETING | RENEWED GASKET+REMOVED VALVE+TESTED | _ | 907180749 | 72 |
| 07/29/79 | RII | VALVE | 2=RH=2605 | REMOVE FROM SYSTEM AND OVERHAUL | INSPECTED VALVE SAT | | 907231500 | 93 |
| 07/30/79 === | Idl | VALVE | HCV =RII = 2758 | PACKING LEAK | INSPECTED VALVE+REPACKED | - " | 907091424 | 144 |
| **** | **** | | ; | | | - | | |
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Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

UNITI* (MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

| RET'SERV DT | SYS | COMP | MARKNO | SUMMARY | WKPERF | u | MR | TOTDWNTM |
|--|----------------------------|--|--|--|---|---------|---|------------------------------|
| 07/09/79 07/13/79 07/20/79 07/26/79 | CH CH VS CH CR | HT HT PMP MTR HT OTHER | PNLB #CKT 21 PNLB #CKT 13 1*VS*P*1A PNLB #CKT#17A 1*CR*1 | REPLACE CONTROL THERMOSTAT LOW AMP READING MOTOR TRIPPED LOW AMP READING BROKEN ELECTRICAL RAIL CONTACTS | REPLACED THERMOSTAT+TESTED REPLACED TAPE DISCONNECT+RECONNECTED FOR MECH+TEST REPAIRED HEAT TAPE INSTALLED NEW COLLECTOR RAIL | 1 1 1 1 | 907061055 907120939 907160645 907201245 907101240 | 74 22 97 144 426 |
| VEPT TOTAL | , | rania di Santa da Sa | | | | | | 763 |

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

UNITY2 UNITY2 (MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

| KET SERV D | T SYS | COMP | MANKNU | SUMMARY | WAPERF | u | MR | TOTOWNTM |
|------------|------------|---------|---------------|-----------------------|-------------------------------------|--------------|-----------------------|----------|
| 07/02/79 | cc | INSTR | FS -CC - 200A | FLUN SWITCH BAD | CHECK SAT | - <u>5</u> - | 906290200 | 72 |
| 07/03/79 | FΡ | INSTR | • | CHECK PRESSURE SWITCH | FOUND NO PROBLEM | 2 | 906251800 | 23 |
| 07/06/79 | cs | MÖV | MOV wCSw201A | MOV PMS | COMPLETED EMP *P *MOV # 45 | 2 | 901251431 | 3504 |
| 07/06/79 | C5 | NOV | MOV GCS 2018 | MOV TMS | COMPLETED EMPACAMON 4115 | 2 | 901251432 | 3504 |
| 07/16/79 | si | MOV | MOV # 2864A | MOV PMS | PERFORMED EMP = C = MOV = 45 | 2 | 901251508 | 3624 |
| 07/16/79 | SI | MOV | MOV #2867C | MOV PMS | PERFORMED EMP#C#MOV#45 | 2 | 901251511 | 3624 |
| 07/16/79 | 51 | MOV | MOV - 2867D | MOV PMS | FERFURNED EMPACAMOV 445 | -2 | 901251512 | 3624 |
| 07/16/79 | sr | MOV | MOV = 2869A | MOV PMS | PERFORMED EMP C . MOV . 45 | 2 | 901251514 | 3624 |
| 07/16/79 | ${\it SI}$ | MOV | MOV •2890 A | MUV FMS | FERFURMED EMPaC wMOV w 45 | 2 | 901251516 | 3624 |
| 07/16/79 | <i>s</i> y | MUV | NOV - 2890B | MOV PMS | PERFORMED EMP . P. MOV . 45 | ~ž ·· | ~901251517 | 3624 |
| 07/20/79 | SI | MOV | MOV #2890C | MOV PMS | PERFORM PM ON MOV | 2 | 901251518 | 3720 |
| 07/24/79 | EPDC | CHARGER | 282 | INSULATION BROKE DOWN | REWIRED REPLACED REGULATOR+TESTED | 2 | 907141840 | 144 |
| 07/29/79 | EPDC | CHARGER | 282 | BURNY UP REPAIR | CHARGER REPAIRED BY REPURCING DIODE | 2 | 907241930 | 96 |
| | | | , | | | | | |
| | | | an ethical | | | | | |
| DEPT TOT | AL | | | | | | | 32807 |

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

| | | | UNITIM | 4 | | | | | |
|--------------------|--------|---------|---------|--------|--------|----|---------|--------------|----------|
| (MAINTEN ANCE OF I | SAFETY | RELATED | SYSTEMS | DURING | OUTAGE | OR | REDUCED | FOWER | PERIODS) |

| RETSERVOT | SYS | COMP | MARKNO | SUMMARY | WKPERF | u | MR | TOTOWNIM |
|------------|------|---------|---------------|--------------------------------------|--------------------------------------|----------|-------------|----------|
| 07/10/79 | -BR | INSTR | LI .DR#114 | NOT READING PROPERLY | CALIBRATED AND TIGHTENED ALL FITTING | <u>1</u> | 907050325 | 98 |
| 07/11/79 | CH | INSTR | FT v1110 | NO FLOW INDICATION | REPLACED BAD OUTPUT MODULE | 1 | 907070300 | 42 |
| 07/13/79 | CH | VALVE | FCV aCH a114A | FCV ALLOWS FLOW INT BLENDER VLV SHUT | ADJUSTED ZERO FT #1#114 | 1 | 906120222 | 71414 |
| 07/13/79 | Ċll' | 1NSTR | FT 1 110 | NOT INDICATING | REPLACED CONVERTER | Ĩ. | 907110010 | 48 |
| 07/13/79 | BR | INSTR | LT = BR = 114 | LEVEL INDICATION READS LOW | FIXED AIR LEAKS | 1 | 907111545 | 6 |
| 07/19/79 | . FM | MONITOR | RI=SW=120 | SPIKES TO ALERT+HI SETPOINTS | REPLACED PM TUBE IN DETECTOR | 1 | 907170621 | 48 |
| 07/20/79 | - NI | MISC | NR-1+47 | CHANNEL 4 PEN HANGS UP | OLLED MOTOR GEARS | 1- | ~~907180100 | 30 |
| 07/25/79 | NI | MISC | NR#45 | NR.45 DOES NOT OPERATE PROPERLY | REPLACED MOTOR AND CLUTCH | 1 | 907221553 | 54 |
| 07/27/79 | RM | INSTR | RIwRMSw162 | MONITOR GIVES CONFLICTING INDICATION | INSTALLED NEW MOTOR | 1 | 907270200 | 6 |
| 07/28/79 | CII | INSTR | PI-1153 | GUAGE NEEDS TO BE CALIBRATED | INSTALLED NEW CAUGE | 1" | 704202145 | 312 " |
| DEPT TOTAL | τ, | | | | · . | | • | 1389 |

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Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

| | | UN1T2 • | .* | | | |
|---------------|------|---------|------|------|------|--|
| (MAINTEN ANCE | | | | | | |
| | | | | | | |

| KETSERV DT | SYS | COMP | MARKNO | | SUMMARY | | | WKPERF | • | | u | MR | TOTIMATA |
|---|----------------|-------------------------|--|------------|---|--|-------------|--|--|--|---|--|---------------------|
| 07/26/79 07/26/79 07/27/79 | CH CH CH | INSTR INSTR INSTR | FI 2153 PI #2151 PI #1104 | | | GAGE READS HIGH INDICATION | | INSTALLED NET INSTALLED NET INSTALLED NET | V GAUGE . | | 2 | 903011010 903120658 907080445 | 3528 1032 436 |
| DEPT TOTAL | | | ٠ | | | •• | • | | | | | | 4996 |
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-39-HEALTH PHYSICS JULY, 1979

There was no single release of radioactivity or radiation exposure specifically associated with an outage that accounted for more than 10% of the allowable annual values in 10CCR20.

PROCEDURE DEVIATIONS REVIEWED BY STATION NUCLEAR SAFETY AND OPERATING COMMITTEE AFTER TIME LIMITS

SPECIFIED IN TECHNICAL SPECIFICATIONS

JULY, 1979

There were none during this operating period.