

OPERATING DATA REPORT

DOCKET NO. 50-317
 DATE _____
 COMPLETED BY Elaine Lotito
 TELEPHONE (301)787-5363

OPERATING STATUS

1. Unit Name: Calvert Cliffs No. 1
2. Reporting Period: July, 1981
3. Licensed Thermal Power (MWt): 2,700
4. Nameplate Rating (Gross MWe): 918
5. Design Electrical Rating (Net MWe): 845
6. Maximum Dependable Capacity (Gross MWe): 860
7. Maximum Dependable Capacity (Net MWe): 825
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): _____
10. Reasons For Restrictions, If Any: _____

| | This Month | Yr.-to-Date | Cumulative |
|--------------------------------------------------------------------------------|------------|-------------|-------------|
| 11. Hours In Reporting Period | 744 | 5,087 | 54,636 |
| 12. Number Of Hours Reactor Was Critical | 396.6 | 4,252.2 | 43,188.9 |
| 13. Reactor Reserve Shutdown Hours | 168.7 | 400.6 | 1,664.7 |
| 14. Hours Generator On-Line | 379.8 | 4,157.1 | 42,209.8 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 864,007 | 10,752,445 | 101,319,237 |
| 17. Gross Electrical Energy Generated (MWH) | 263,121 | 3,488,293 | 33,082,526 |
| 18. Net Electrical Energy Generated (MWH) | 245,626 | 3,326,104 | 31,518,352 |
| 19. Unit Service Factor | 51.1 | 81.7 | 77.3 |
| 20. Unit Availability Factor | 51.1 | 81.7 | 77.3 |
| 21. Unit Capacity Factor (Using MDC Net) | 40.0 | 80.1 | 71.4 |
| 22. Unit Capacity Factor (Using DER Net) | 39.1 | 77.4 | 68.3 |
| 23. Unit Forced Outage Rate | 49.0 | 14.7 | 9.1 |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): | | | |

25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

| Forecast | Achieved |
|----------|----------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

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 PDR ADDCK 05000317
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(9/77)

OPERATING DATA REPORT

DOCKET NO. 50-318
 DATE _____
 COMPLETED BY Elaine Lotito
 TELEPHONE (301)787-5363

OPERATING STATUS

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <p>1. Unit Name: <u>Calvert Cliffs No. 2</u></p> <p>2. Reporting Period: <u>July, 1981</u></p> <p>3. Licensed Thermal Power (MWt): <u>2,700</u></p> <p>4. Nameplate Rating (Gross MWe): <u>911</u></p> <p>5. Design Electrical Rating (Net MWe): <u>845</u></p> <p>6. Maximum Dependable Capacity (Gross MWe): <u>860</u></p> <p>7. Maximum Dependable Capacity (Net MWe): <u>825</u></p> <p>8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:</p> <p>_____</p> <p>_____</p> <p>9. Power Level To Which Restricted, If Any (Net MWe): _____</p> <p>10. Reasons For Restrictions, If Any: _____</p> <p>_____</p> <p>_____</p> | <p>Notes</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|

| | This Month | Yr.-to-Date | Cumulative |
|--------------------------------------------------------------------------------|----------------------------------------|------------------|-------------------|
| 11. Hours In Reporting Period | <u>744</u> | <u>5,087</u> | <u>37,991</u> |
| 12. Number Of Hours Reactor Was Critical | <u>737.5</u> | <u>3,626.8</u> | <u>32,046.6</u> |
| 13. Reactor Reserve Shutdown Hours | <u>6.5</u> | <u>160.0</u> | <u>601.8</u> |
| 14. Hours Generator On-Line | <u>735.0</u> | <u>3,569.1</u> | <u>31,606.2</u> |
| 15. Unit Reserve Shutdown Hours | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 16. Gross Thermal Energy Generated (MWH) | <u>1,741,138</u> | <u>8,273,519</u> | <u>77,025,150</u> |
| 17. Gross Electrical Energy Generated (MWH) | <u>548,859</u> | <u>2,789,343</u> | <u>25,518,310</u> |
| 18. Net Electrical Energy Generated (MWH) | <u>521,821</u> | <u>2,650,459</u> | <u>24,320,433</u> |
| 19. Unit Service Factor | <u>98.8</u> | <u>70.2</u> | <u>83.2</u> |
| 20. Unit Availability Factor | <u>98.8</u> | <u>70.2</u> | <u>83.2</u> |
| 21. Unit Capacity Factor (Using MDC Net) | <u>85.0</u> | <u>63.2</u> | <u>78.4</u> |
| 22. Unit Capacity Factor (Using DER Net) | <u>83.0</u> | <u>61.7</u> | <u>75.8</u> |
| 23. Unit Forced Outage Rate | <u>1.2</u> | <u>5.2</u> | <u>5.3</u> |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): | <p>_____</p> <p>_____</p> <p>_____</p> | | |

25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____

| | | |
|-----------------------------------------------------------|----------|----------|
| 26. Units In Test Status (Prior to Commercial Operation): | Forecast | Achieved |
| INITIAL CRITICALITY | _____ | _____ |
| INITIAL ELECTRICITY | _____ | _____ |
| COMMERCIAL OPERATION | _____ | _____ |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-317

UNIT Calvert Cliffs 1

DATE _____

COMPLETED BY Elaine M. Lotito

TELEPHONE (301)787-5363

MONTH July, 1981

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|------------|
| 1 | <u>697</u> |
| 2 | <u>655</u> |
| 3 | <u>677</u> |
| 4 | <u>710</u> |
| 5 | <u>751</u> |
| 6 | <u>718</u> |
| 7 | <u>-</u> |
| 8 | <u>-</u> |
| 9 | <u>-</u> |
| 10 | <u>-</u> |
| 11 | <u>-</u> |
| 12 | <u>-</u> |
| 13 | <u>-</u> |
| 14 | <u>-</u> |
| 15 | <u>-</u> |
| 16 | <u>-</u> |

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|------------|
| 17 | <u>-</u> |
| 18 | <u>-</u> |
| 19 | <u>-</u> |
| 20 | <u>-</u> |
| 21 | <u>-</u> |
| 22 | <u>84</u> |
| 23 | <u>518</u> |
| 24 | <u>602</u> |
| 25 | <u>619</u> |
| 26 | <u>648</u> |
| 27 | <u>661</u> |
| 28 | <u>717</u> |
| 29 | <u>755</u> |
| 30 | <u>686</u> |
| 31 | <u>763</u> |

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-318

UNIT Calvert Cliffs 2

DATE _____

COMPLETED BY Elaine M. Lotito

TELEPHONE (301)787-5363

MONTH July, 1981

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|------------|
| 1 | <u>669</u> |
| 2 | <u>683</u> |
| 3 | <u>720</u> |
| 4 | <u>384</u> |
| 5 | <u>710</u> |
| 6 | <u>763</u> |
| 7 | <u>827</u> |
| 8 | <u>828</u> |
| 9 | <u>824</u> |
| 10 | <u>766</u> |
| 11 | <u>676</u> |
| 12 | <u>675</u> |
| 13 | <u>679</u> |
| 14 | <u>657</u> |
| 15 | <u>652</u> |
| 16 | <u>660</u> |

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|------------|
| 17 | <u>663</u> |
| 18 | <u>662</u> |
| 19 | <u>690</u> |
| 20 | <u>821</u> |
| 21 | <u>700</u> |
| 22 | <u>631</u> |
| 23 | <u>669</u> |
| 24 | <u>679</u> |
| 25 | <u>705</u> |
| 26 | <u>823</u> |
| 27 | <u>672</u> |
| 28 | <u>696</u> |
| 29 | <u>704</u> |
| 30 | <u>724</u> |
| 31 | <u>729</u> |

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July, 1981

DOCKET NO. 50-317
 UNIT NAME Calvert Cliffs #1
 DATE _____
 COMPLETED BY Elaine M. Lotito
 TELEPHONE (301)787-5363

| 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 |
|-------|--------|-------------------|---------------------|---------------------|----------------------------------------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------|
| 81-12 | 810707 | F | 178.7 | A | | 1 | CB | PUMPXX | To Replace 11B Reactor Coolant Pump Seal. |
| 81-13 | 810714 | F | 185.5 | A | | Continuation of Above Trip | XX | ZZZZZZ | A Gross Salt Water Leak in the Main Condenser Resulted in Contamination of the Entire Secondary System. |
| | | | | | | | | Note: ⁶ | No. 1 Unit had numerous load reductions due to condenser tube leaks. |

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-Continuation
 5-Load Reduction
 9-Other

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

⁵
 Exhibit I - Same Source

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs 2
 DATE
 COMPLETED BY Elaine M. Lotito
 TELEPHONE (301)787-5363

REPORT MONTH July, 1981

| 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 |
|-------|--------|-------------------|---------------------|---------------------|----------------------------------------------------|-------------------------------|-----------------------------|--------------------------------|----------------------------------------------------------------------|
| 81-08 | 810704 | F | 9.0 | A | | 3 | XX | ZZZZZZ | Tripped Due to Low Turbine Automatic Stop Oil Pressure. |
| | | | | | | | | Note: | No. 2 Unit had numerous load reductions due to condenser tube leaks. |

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

(9/77)

August 7, 1981

REFUELING INFORMATION REQUEST

1. Name of Facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1
2. Scheduled date for next Refueling Shutdown: April 16, 1982
3. Scheduled date for restart following refueling: May 31, 1982
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Resumption of operation after refueling will require changes to Technical Specifications. The changes will be such as to allow operation of the plant with a fresh reload batch and reshuffled core.

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

January 26, 1982

6. Important licensing considerations associated with the refueling.

Reload fuel will be similar to that reload fuel inserted into the previous cycle.

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.

(a) 217

(b) 584

Spent Fuel Pools are common to Units 1 and 2

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.

1358 Licensed

1028 Currently Installed

472 Licensed Addition is Planned

9. The projected date of the last refueling that can be discharged to the Spent Fuel Pool assuming the present licensed capacity.

October, 1985

August 7, 1981

REFUELING INFORMATION REQUEST

1. Name of Facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2.
2. Scheduled date for next refueling shutdown: October 15, 1982.
3. Scheduled date for restart following refueling: November 29, 1982
4. Will refueling or resumption of operation thereafter require a technical specification change or other licensed amendment?

Resumption of operation after refueling will require changes to Technical Specifications. The changes will be such as to allow operation of the plant with a fresh reload batch and reshuffled core.

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

August 21, 1982

6. Important licensing considerations associated with refueling.

Reload fuel will be similar to that reload fuel inserted in the previous cycle.

7. The number of fuel assemblies (a) in the core and (b) in the Spent Fuel Storage Pool.

(a) 217 (b) 584
Spent Fuel Pool is common to Units 1 & 2.

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been required or is planned, in number of fuel assemblies.

1358 Licensed
1028 Currently Installed
472 Licensed Addition is Planned

9. The projected date of the last refueling that can be discharged to the Spent Fuel Pool assuming the present licensed capacity.

October, 1985

SUMMARY OF UNIT 1 OPERATING EXPERIENCE - JULY 1981

- 7/1 At the beginning of this reporting period Unit 1 was operating at 735 MWe with the reactor at 95% power, increasing to capacity. At 0300 load was reduced to 760 MWe to investigate saltwater leakage into the main condenser. Indications of saltwater leakage disappeared at 0600. Load had been increased to 765 MWE at 0900 when indication of saltwater leakage returned. Load was reduced to 675 MWe at 1055 to investigate. Started increasing load at 1745 when indications of saltwater leakage disappeared. Load was increased to 785 MWe at 1940 when indications of saltwater leakage returned. At 2115 load was reduced to 675 MWe to investigate saltwater leakage into the main condenser.
- 7/2 After plugging one condenser tube, commenced increasing load and at 0400 load was reduced to 660 MWe to investigate saltwater leakage into the main condenser. Plugged 3 leaking condenser tubes.
- 7/4 Load was increased to 740 MWe at 0030.
- 7/5 After plugging 3 condenser tubes resumed full load operation (860 MWe) at 1130. At 1600 load was reduced to 760 MWe to investigate saltwater leakage into the main condenser. Load was increased to 855 MWe at 2315 when indications of saltwater leakage disappeared.
- 7/6 At 1015 load was reduced to 780 MWe to investigate saltwater leakage into the main condenser. Commenced plant shutdown to replace 11B Reactor Coolant Pump middle seal at 1920.
- 7/7 The unit was taken off line at 0018. The reactor was placed in cold shutdown at 2105.
- 7/8 Completed draining the Reactor Coolant System at 1655.
- 7/12 Completed filling the Reactor Coolant System at 0600.

7/13 Reactor Coolant System heatup was completed at 2350.

7/14 A gross saltwater leak in the main condenser resulted in contamination of the entire secondary system. The reactor was placed in cold shutdown at 2223 to facilitate cleanup.

7/20 Reactor Coolant System heatup was completed at 2320.

7/21 The reactor was brought critical at 1140.

7/22 The unit was paralleled at 0430.

7/23 Increased load to 630 MWe at 0330. At 0535 load was reduced to 485 MWe to investigate saltwater leakage into the main condenser. Load was increased to 635 MWe at 2045.

7/26 Increased load to 695 MWe at 0900.

7/28 After plugging 3 condenser tubes load was increased to capacity (865 MWe) at 2300.

7/29 At 0810 load was reduced to 735 MWe to investigate saltwater leakage into the main condenser. Load was increased to 840 MWe at 2200 when indications of saltwater leakage disappeared.

7/30 At 0730 load was reduced to 675 MWe to investigate saltwater leakage into the main condenser.

7/31 Load was increased to 865 MWe at 1435 when indications of saltwater leakage disappeared. At the end of this reporting period unit 1 was operating at 865 MWe with the reactor at 100% power.

SUMMARY OF UNIT 2 OPERATING EXPERIENCE - JULY 1981

- 7/1 At the beginning of this reporting period Unit 2 was operating at 695 MWe with the reactor at 88% power, while investigating saltwater leakage into the main condenser.
- 7/2 Started increasing load after plugging 2 condenser tubes. At 1200 load was limited to 805 MWe due to high condenser circulating water ΔT . At 1700 load was decreased to 640 MWe to clean condenser water boxes.
- 7/3 Load was increased to 750 MWe at 0215. Investigated saltwater leakage into the main condenser.
- 7/4 Increased load to 840 MWe at 0030 after indication of saltwater leakage disappeared. At 0432 the reactor tripped during performance of monthly preventive maintenance checks of the turbine trip system. The reactor was brought critical at 1105 and the unit paralleled at 1331. At 1900 load was limited to 740 MWe while investigating saltwater leakage into the main condenser.
- 7/6 After plugging 3 condenser tubes, resumed full load operation (865 MWe) at 1700.
- 7/10 At 0100 load was reduced to 790 MWe to investigate saltwater leakage into the main condenser. Plugged 2 leaking condenser tubes. Decreased load to 720 MWe at 2330 due to increasing circulating water ΔT .
- 7/19 Plugged 21 leaking condenser tubes and started increasing load. Load had been increased to 740 MWE at 0200 when indication of saltwater leakage returned. At 0310 load was reduced to 720 MWe to investigate.

7/20 Increased load to capacity (860 MWe) at 0115 after plugging 1 condenser tube. At 2100 load was reduced to 625 MWe to investigate saltwater leakage into the main condenser.

7/25 After plugging 5 condenser tubes, resumed full load operation (860 MWe) at 2200.

7/27 At 1000 load was reduced to 710 MWe to investigate saltwater leakage into the main condenser.

7/30 Load was increased to 860 MWe at 1820 when indications of saltwater leakage disappeared.

7/31 Decreased load to 705 MWe at 0600 to clean condenser water boxes. Load was increased to capacity (865 MWe) at 1930. At the end of this reporting period Unit 2 was operating at 865 MWe with the reactor at 100% power.

SAFETY-RELATED MAINTENANCE

UNIT TWO

GROUP IM

MONTH AUGUST YEAR 81

| SYSTEM OR COMPONENT | MR NO. - DATE | MALFUNCTION | | CORRECTIVE ACTION |
|--------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|
| | | CAUSE | RESULT | |
| Service Water Head Tank # 21 Level Indicator | 0-81-2942 07/06/81 | Defective Level Indicator. | Level Indicator gives erratic Hi Level Alarms | Replaced Level Indicator |
| Service Water Header #21 Pressure Transmitter 2-PT-1573 | IM-81-2092 | Pressure Transmitter Stem Assembly Breaker | No Indication on Control Room Indicator | Replaced Stem Assembly, Re-Calibrated and returned to service |
| Reactor Regulating Loop Hot Leg Temperature Indicator 2-TI-115 | 0-81-3026 07/12/81 | Temperature Indicator Out of Tolerance | Indicator reading High | Re-Calibrated temperature indicator |
| Primary Containment/ Dome Temperature and Reactor cavity Temperature Indicators 2-TI-(5309-5311) | 0-81-3007 07/10/81 | Both Temperature Indicators out of Tolerance | Temperature Indications High | Re-Calibrated both Temperature Indicators |

SAFETY-RELATED MAINTENANCE

UNIT TWO

GROUP IM

MONTH AUGUST YEAR 81

| SYSTEM OR COMPONENT | MR NO. - DATE | MALFUNCTION | | CORRECTIVE ACTION |
|------------------------------------------------------------------------------------------|------------------------|------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|
| | | CAUSE | RESULT | |
| #22A Safety Injection Tank Level High/Low Switches 2-LS-342/343 | 0-79-4553 12/07/79 | Defective High/Low Level Switch amplifiers | Spurious alarms with normal level/pressure indicated. | Replaced High/Low Level Switches amplifiers |
| Reactor Protection/ Steam Generator Low Pressure Trip Bypass | IC-81-2056 03/07/81 | Bypass Signal Resetting | Removal of By-pass signals causing intermittent Low Pressure Trips. | Re-calibrated Bypass Bistable |
| Reactor Regulating/ Hot Leg Temperature Detector 2-TE-111X | 0-81-1016 03/08/81 | Defective resistance temperature detector | Temperature Indication High | Replaced Detector |
| Engineered Safety Features/ 21 Steam Generator Pressure Channel ZG | 0-81-987 03/07/81 | Dirty sliding Link Connection at control panel | Readings at cabinets out of specification high | Cleaned slide links for loop |
| Engineered Safety features/ pressurizer pressure channel ZE Signal Isolator (2-E/G-102B) | 0-81-1002 03/08/81 | Defective B Signal Isolator | Reading at cabinet out of specifications high | Replaced signal Isolator |

SAFETY-RELATED MAINTENANCE

UNIT ONE

GROUP I & C

MONTH AUGUST YEAR 81

| SYSTEM OR COMPONENT | MR NO. - DATE | MALFUNCTION | | CORRECTIVE ACTION |
|---------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------|
| | | CAUSE | RESULT | |
| Engineered Safety Features/ Containment pressure transmitter 1-PT-5307 | 0-80-5094 12/8/80 | Defective Oscillator and force motor | Containment Pressure indicator - Pegged high | Replaced Force Motor & Oscillator |
| #12 Containment Spray Header Isolation Valve 1-CV-4151 | 0-81-1209 03/17/81 | Mis-aligned position Switch Arm on control valve | Intermediate indication with hand switch in the shut position | Re-aligned position switch arm. |
| Spent Fuel Pool Cooling/ #11 Spent Fuel Pool High/Low level switch 0-65-2002 | 0-80-6024 12/11/80 | Sticking High/Low Level switch | High/Low Level alarm in Control Room | Manually activated switch, freeing same |
| Area Radiation Monitoring 1-RI-5317A | 0-81-407 01/24/81 | Loose Connections at Terminal | Alarm in the Control Room | Tightened Loose Connections at Terminal |
| 12A Safety Injection Tank level transmitter 1-LT-331 | 0-80-3380 09/01/80 | Level Transmitter Out of Tolerance | Level Indicator Jumped High while Filling | Realigned Level Transmitter. |

SAFETY-RELATED MAINTENANCE

UNIT TWO

GROUP IM

MONTH AUGUST YEAR 81

| SYSTEM OR COMPONENT | MR NO. - DATE | MALFUNCTION | | CORRECTIVE ACTION |
|----------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------|
| | | CAUSE | RESULT | |
| Reactor Protection/ Channel "B" Hot Leg Temperature | IC-81-2074 04/30/81 | Dirty Slide Link Con- tacts in compensating Leads connections | Th dropped to a new steady value. | cleaned and moved slide links |
| #22 Steam Generator Sur- face Blowdown Control Valve 2-CV-4012 | 0-81-638 02/13/81 | Position switch trip mechanism, mechanically out of tolerance | Do not get full open indication | Re-adjusted position switch trip mech- anism on Control Valve |
| Reactor Protection/ Steam Generator #21 Level Indicator 2-LIC-11BD | IC-81-2019 02/01/81 | Defective Output relay in Level Indicator | No Ch.D High Level Trip to Engineered Safety Features Actuation System | Replaced Level Indicator |
| Reactor Protection/ Channel "C" Hot Leg Temperature Indicator 2-TI-102D | IC-81-2016 01/30/81 | 2-TI-102D out of Calibration | Temperature indication Inaccurate | Re-Calibrated Indicator. |

SAFETY-RELATED MAINTENANCE

UNIT ONE

GRUP IM

MONTH August YEAR 81

| SYSTEM OR COMPONENT | MR NO. - DATE | MALFUNCTION | | CORRECTIVE ACTION |
|--------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|
| | | CAUSE | RESULT | |
| ESFAS/ Channel ZG #11 Steam Generator Pressure Indication | 0-81-785 02/26/81 | Bistable meter zero shifted high | Voltage Deviation among Channels | Readjusted Meter |
| Engineered Safety Features/Channel ZD Containment Pressure Signal Isolator 1-E/E-5313A | 0-81-1802 04/23/81 | Defective Power Supply in Isolator | Lost Containment Pressure Signal to Channel "A" Reactor Protection System | Replaced Isolator |
| Chemical and Volume Control/Reactor Coolant Pump Bleedoff Contain- ment Isolation Valve 1-CV-506 | 0-81-1554 04/08/81 | Defective Solenoid Valve 1-SV-506 | Control Valve Won't Open | Replaced solenoid on Valve. |
| Nuclear Instrumentation/ Channel "D" Linear Range | IC-81-38 04/28/81 | Defective High Voltage Connector | No Ch.D Linear Power Indication | Replaced Channel "D" High Voltage Connector |