

CATEGORY 1

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FACIL: STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Publi 05000528

STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529

STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530

AUTH. NAME AUTHOR AFFILIATION

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LEVINE, J.M. Arizona Public Service Co. (formerly Arizona Nuclear Power

RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for June 1996 for Palo Verde Nuclear
Generating Station. W/960712 ltr.

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Standardized plant. 05000529

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Arizona Public Service Company
PALO VERDE NUCLEAR GENERATING STATION
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

JAMES M. LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

182-06153-JML/JLT/JDF
July 12, 1996

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Dear Sirs:

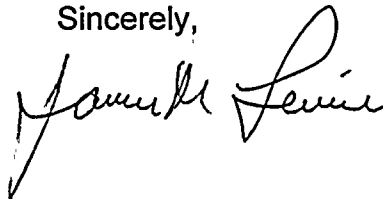
Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Monthly Operating Reports for JUNE 1996

Enclosed are the Monthly Operating Reports for JUNE 1996, prepared and submitted pursuant to Specification 6.9.1.6 of Appendix A (Technical Specifications) to the PVNGS Units 1, 2, and 3 Operating Licenses.

By copy of this letter, Arizona Public Service Company is also forwarding the Monthly Operating Reports to the Regional Administrator, NRC Region IV.

If you have any questions, please contact Judy Fulton at (602) 393-5277.

Sincerely,



JML/JLT/JDF/clj

Enclosures: JUNE 1996 Monthly Operating Reports

cc: L. J. Callan (all w/enclosures)
K. E. Perkins
NRC Senior Resident Inspector
INPO Records Center
Utility Data Institute

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21/10/1966

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 7/12/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: June 1996
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
 Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

| | Unit 1 Generating Statistics | This Month | Yr. to Date | Cumulative |
|-----|-----------------------------------------|------------|-------------|-------------|
| 11. | Hours in Reporting Period | 720 | 4,368 | 91,368 |
| 12. | Hours Reactor was Critical | 720.0 | 3,912.1 | 61,875.1 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator was On-Line | 720.0 | 3,831.7 | 60,734.8 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,735,425 | 14,464,518 | 220,000,722 |
| 17. | Gross Electrical Energy Generated (MWH) | 934,500 | 4,963,800 | 76,074,300 |
| 18. | Net Electrical Energy Generated (MWH) | 874,623 | 4,675,261 | 71,432,982 |
| 19. | Unit Service Factor (%) | 100.0% | 87.7% | 66.5% |
| 20. | Unit Availability Factor (%) | 100.0% | 87.7% | 66.5% |
| 21. | Unit Capacity Factor (Using MDC Net) | 99.0% | 87.2% | 64.0% |
| 22. | Unit Capacity Factor (Using DER Net) | 97.3% | 85.7% | 61.6% |
| 23. | Unit Forced Outage Rate (%) | 0.0% | 4.2% | 11.8% |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): 6th Refueling outage is scheduled for 9/21/96 through 11/04/96 (45 days).
25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

| | | |
|----------------------|----------|----------|
| | Forecast | Achieved |
| INITIAL CRITICALITY | 05/85 | 05/25/85 |
| INITIAL ELECTRICITY | 06/85 | 06/10/85 |
| COMMERCIAL OPERATION | 12/85 | 01/28/86 |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 7/12/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

MONTH: June 1996

DAY AVERAGE DAILY POWER LEVEL

| | |
|----|------|
| 1 | 1238 |
| 2 | 1236 |
| 3 | 1235 |
| 4 | 1233 |
| 5 | 1233 |
| 6 | 1234 |
| 7 | 1230 |
| 8 | 1233 |
| 9 | 1232 |
| 10 | 1233 |
| 11 | 1233 |
| 12 | 1235 |
| 13 | 1233 |
| 14 | 1230 |
| 15 | 1233 |
| 16 | 1233 |

DAY AVERAGE DAILY POWER LEVEL

| | |
|----|------|
| 17 | 1231 |
| 18 | 1232 |
| 19 | 1230 |
| 20 | 1228 |
| 21 | 1229 |
| 22 | 1233 |
| 23 | 1233 |
| 24 | 1232 |
| 25 | 1232 |
| 26 | 1233 |
| 27 | 1234 |
| 28 | 1237 |
| 29 | 1232 |
| 30 | 1223 |
| 31 | |

REFUELING INFORMATION

| | |
|--------------|-----------------------|
| DOCKET NO. | <u>50-528</u> |
| UNIT NAME | <u>PVNGS-1</u> |
| DATE | <u>7/12/96</u> |
| COMPLETED BY | <u>J. D. Fulton</u> |
| TELEPHONE | <u>(602) 393-5277</u> |

1. **Scheduled date for next refueling shutdown.**

The 6th refueling outage is scheduled to begin on 09/21/96.

2. **Scheduled date for restart following refueling.**

11/04/96.

3. **Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?**

No

4. **Scheduled date for submitting proposed licensing action and supporting information.**

5/20/96

5. **Important Licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, and new operating procedures.**

None.

6. **The number of fuel assemblies.**

- a) In the core. 241
b) In the spent fuel storage pool. 456

7. **Licensed spent fuel storage capacity. 1329**

Intended change in spent fuel storage capacity. None

8. **Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.**

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 7/12/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

June 1996

| | | |
|-------|------|------------------------------------------------|
| 06/01 | 0000 | Unit began the month in Mode 1 at 100% power.. |
| 06/30 | 2359 | Unit ended the month in Mode 1 at 100% power. |

SHUTDOWNS AND POWER REDUCTIONS
June 1996

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 7/12/96
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

| No. | Date | Type ¹ | Outage Duration Hours | Reason ² | Method of Shutting Down Reactor ³ | LER No. | System Code ⁴ | Component Code ⁵ | Cause and Corrective Action to Prevent Occurrence |
|-----|------|-------------------|-----------------------------|---------------------|----------------------------------------------------|---------|-----------------------------|--------------------------------|------------------------------------------------------|
|-----|------|-------------------|-----------------------------|---------------------|----------------------------------------------------|---------|-----------------------------|--------------------------------|------------------------------------------------------|

No reactor shutdowns or significant power reductions occurred during the month of June 1996.

¹F-Forced
S-Scheduled

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

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the
Past 24 Hours
9-Other-(Explain)

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

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 7/12/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: June 1996
3. Licensed Thermal Power (MWt): 3876
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1249
6. Maximum Dependable Capacity (Gross MWe): 1299
7. Maximum Dependable Capacity (Net MWe): 1227
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

| | Unit 2 Generating Statistics | This Month | Yr. to Date | Cumulative |
|-----|-----------------------------------------|------------|-------------|-------------|
| 11. | Hours in Reporting Period | 720 | 4,368 | 85,752 |
| 12. | Hours Reactor was Critical | 720.0 | 3,182.6 | 61,317.7 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator was On-Line | 720.0 | 3,132.7 | 60,154.9 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,789,129 | 11,609,151 | 219,636,764 |
| 17. | Gross Electrical Energy Generated (MWH) | 956,300 | 4,011,500 | 76,340,970 |
| 18. | Net Electrical Energy Generated (MWH) | 907,823 | 3,796,209 | 71,560,960 |
| 19. | Unit Service Factor (%) | 100.0% | 71.7% | 70.1% |
| 20. | Unit Availability Factor (%) | 100.0% | 71.7% | 70.1% |
| 21. | Unit Capacity Factor (Using MDC Net) | 102.8% | 70.8% | 68.3% |
| 22. | Unit Capacity Factor (Using DER Net) | 100.9% | 69.6% | 65.7% |
| 23. | Unit Forced Outage Rate (%) | 0.0% | 1.7% | 5.2% |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): N/A

25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

| | | |
|----------------------|--------------|-----------------|
| | Forecast | Achieved |
| INITIAL CRITICALITY | <u>03/86</u> | <u>04/18/86</u> |
| INITIAL ELECTRICITY | <u>06/86</u> | <u>05/20/86</u> |
| COMMERCIAL OPERATION | <u>12/86</u> | <u>09/19/86</u> |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
 UNIT NAME PVNGS-2
 DATE 7/12/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

MONTH: June 1996

| DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|
| 1 | 1272 |
| 2 | 1272 |
| 3 | 1271 |
| 4 | 1269 |
| 5 | 1270 |
| 6 | 1271 |
| 7 | 1270 |
| 8 | 1269 |
| 9 | 1269 |
| 10 | 1269 |
| 11 | 1270 |
| 12 | 1269 |
| 13 | 1266 |
| 14 | 1266 |
| 15 | 1267 |
| 16 | 1269 |

| DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|
| 17 | 1267 |
| 18 | 1266 |
| 19 | 1256 |
| 20 | 1253 |
| 21 | 1256 |
| 22 | 1259 |
| 23 | 1262 |
| 24 | 1263 |
| 25 | 1263 |
| 26 | 1262 |
| 27 | 1263 |
| 28 | 1264 |
| 29 | 1260 |
| 30 | 1250 |
| 31 | |

REFUELING INFORMATION

| | |
|--------------|-----------------------|
| DOCKET NO. | <u>50-529</u> |
| UNIT NAME | <u>PVNGS-2</u> |
| DATE | <u>7/12/96</u> |
| COMPLETED BY | <u>J. D. Fulton</u> |
| TELEPHONE | <u>(602) 393-5277</u> |

1. **Scheduled date for next refueling shutdown.**

The 7th refueling outage is scheduled for 09/20/97.

2. **Scheduled date for restart following refueling.**

11/09/97.

3. **Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?**

No.

4. **Scheduled date for submitting proposed licensing action and supporting information.**

N/A

5. **Important Licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, and new operating procedures.**

N/A

6. **The number of fuel assemblies.**

a) In the core. 241

b) In the spent fuel storage pool. 544

7. **Licensed spent fuel storage capacity. 1329**

Intended change in spent fuel storage capacity. None

8. **Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.**

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

| | |
|--------------|-----------------------|
| DOCKET NO. | <u>50-529</u> |
| UNIT NAME | <u>PVNGS-2</u> |
| DATE | <u>7/12/96</u> |
| COMPLETED BY | <u>J. D. Fulton</u> |
| TELEPHONE | <u>(602) 393-5277</u> |

June 1996

| | | |
|-------|------|------------------------------------------------------------------------------------------------------------------------|
| 06/01 | 0000 | Unit began the month in Mode 1 at 100% power. |
| 06/03 | 2220 | Opened FWNHV103 Feedwater High Pressure Heater Bypass Valve to reduce Final Feedwater Temperature for SG preservation. |
| 06/31 | 2359 | Unit ended the month in Mode 1 at 100% RX power. |

SHUTDOWNS AND POWER REDUCTIONS
June 1996

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 7/12/96
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

| No. | Date | Type ¹ | Outage Duration Hours | Reason ² | Method of Shutting Down Reactor ³ | LER No. | System Code ⁴ | Component Code ⁵ | Cause and Corrective Action to Prevent Occurrence |
|-----|------|-------------------|-----------------------------|---------------------|----------------------------------------------------|---------|-----------------------------|--------------------------------|------------------------------------------------------|
|-----|------|-------------------|-----------------------------|---------------------|----------------------------------------------------|---------|-----------------------------|--------------------------------|------------------------------------------------------|

No reactor shutdowns or significant power reductions occurred during the month of June 1996.

¹F-Forced
S-Scheduled

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

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the
Past 24 Hours
9-Other-(Explain)

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

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 7/12/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: June 1996
3. Licensed Thermal Power (MWt): 3876
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1253
6. Maximum Dependable Capacity (Gross MWe): 1302
7. Maximum Dependable Capacity (Net MWe): 1230
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
 Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

| Unit 3 Generating Statistics | | This Month | Yr. to Date | Cumulative |
|------------------------------|-----------------------------------------|------------|-------------|-------------|
| 11. | Hours In Reporting Period | 720 | 4,368 | 74,328 |
| 12. | Hours Reactor was Critical | 720.0 | 4,368.0 | 57,061.0 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator was On-Line | 678.4 | 4,310.6 | 56,287.6 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,568,625 | 16,368,178 | 206,733,236 |
| 17. | Gross Electrical Energy Generated (MWH) | 864,000 | 5,627,500 | 72,100,600 |
| 18. | Net Electrical Energy Generated (MWH) | 811,761 | 5,320,856 | 67,830,398 |
| 19. | Unit Service Factor (%) | 94.2% | 98.7% | 75.7% |
| 20. | Unit Availability Factor (%) | 94.2% | 98.7% | 75.7% |
| 21. | Unit Capacity Factor (Using MDC Net) | 91.7% | 99.0% | 74.7% |
| 22. | Unit Capacity Factor (Using DER Net) | 90.0% | 97.2% | 71.9% |
| 23. | Unit Forced Outage Rate (%) | 5.8% | 1.3% | 5.0% |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): N/A

25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

| | | |
|----------------------|--------------|-----------------|
| INITIAL CRITICALITY | Forecast | Achieved |
| INITIAL ELECTRICITY | <u>07/87</u> | <u>10/25/87</u> |
| COMMERCIAL OPERATION | <u>07/87</u> | <u>12/28/87</u> |
| | <u>09/87</u> | <u>01/08/88</u> |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 7/12/96
 COMPLETED BY J. D. Fulton
 TELEPHONE (602) 393-5277

MONTH: June 1996

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|-----|---------------------------|-----|---------------------------|
| 1 | 1264 | 17 | 1252 |
| 2 | 1260 | 18 | 1256 |
| 3 | 1262 | 19 | 1258 |
| 4 | 1261 | 20 | 1254 |
| 5 | 1259 | 21 | 1257 |
| 6 | 1261 | 22 | 1253 |
| 7 | 1259 | 23 | 1256 |
| 8 | 1261 | 24 | 1262 |
| 9 | 1258 | 25 | 316 |
| 10 | 236 | 26 | 164 |
| 11 | 1015 | 27 | 982 |
| 12 | 1254 | 28 | 1243 |
| 13 | 1252 | 29 | 1254 |
| 14 | 1255 | 30 | 1243 |
| 15 | 1227 | 31 | |
| 16 | 1254 | | |

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 7/12/96
COMPLETED BY J. D. Fulton
TELEPHONE (602) 393-5277

1. Scheduled date for next refueling shutdown.

The 6th refueling outage is scheduled for 2/22/97.

2. Scheduled date for restart following refueling.

4/12/97.

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

None.

4. Scheduled date for submitting proposed licensing action and supporting information.

None.

5. Important Licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, and new operating procedures.

None.

6. The number of fuel assemblies.

a) In the core. 241

b) In the spent fuel storage pool. 456

7. Licensed spent fuel storage capacity. 1329

Intended change in spent fuel storage capacity. None

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

| | |
|--------------|----------------|
| DOCKET NO. | 50-530 |
| UNIT NAME | PVNGS-3 |
| DATE | 7/12/96 |
| COMPLETED BY | J. D. Fulton |
| TELEPHONE | (602) 393-5277 |

June 1996

| | | |
|-------|------|----------------------------------------------------------------------------|
| 06/01 | 0000 | Unit began the month in Mode 1 at 100% RX power. |
| 06/10 | 0226 | Manually tripped Main Turbine due to EHC problem, reduced RX power to 15%. |
| 06/10 | 1336 | Synchronized Main Generator to the Grid. |
| 06/11 | 2030 | RX power at 100%. |
| 06/15 | 0257 | Reduced RX power to 95% to perform Cooling Tower Fan Maintenance. |
| 06/15 | 1350 | RX power at 100%. |
| 06/25 | 0600 | Manually tripped Main Turbine due to EHC problem, reduced RX power to 15%. |
| 06/26 | 1229 | Synchronized Main Generator to the Grid. |
| 06/27 | 2245 | RX power at 100%. |
| 06/30 | 2359 | Unit ended the month in Mode 1 at 100% RX power. |

SHUTDOWNS AND POWER REDUCTIONS
June 1996

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 7/12/96
COMPLETED BY J. D. Fulton
TELEPHONE (602)393-5277

| No. | Date | Type ¹ | Outage Duration Hours | Reason ² | Method of Shutting Down Reactor ³ | LER No. | System Code ⁴ | Component Code ⁵ | Cause and Corrective Action to Prevent Occurrence |
|-------|----------|-------------------|-----------------------------|---------------------|----------------------------------------------------|---------|-----------------------------|--------------------------------|-------------------------------------------------------------------------------------------|
| 96-02 | 06/10/96 | F | 15.1 | A | 5 | N/A | N/A | N/A | Manually tripped Main Turbine and reduced RX power to 15% due to an EHC leak. |
| 96-03 | 06/25/96 | F | 26.5 | A | 5 | N/A | N/A | N/A | Manually tripped Main Turbine and reduced RX power to 15% to perform repairs on EHC leak. |

¹F-Forced
S-Scheduled

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

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the Past 24 Hours
9-Other-(Explain)

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

⁵Exhibit H-Same Source

