

Southern Nuclear Operating Company  
Post Office Box 1295  
Birmingham, Alabama 35201  
Telephone 205 868-5086



Southern Nuclear Operating Company

*the southern electric system*

J. D. Woodard  
Vice President  
Farley Project

November 13, 1992

Docket Nos. 50-348  
50-364

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555

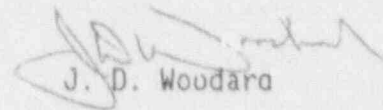
Joseph M. Farley Nuclear Plant  
Unit 1 and 2  
Monthly Operating Data Reports

General:

Attached are the October 1992 Monthly Operating Reports for Joseph M. Farley Nuclear Plant Units 1 and 2, as required by Section 6.9.1.10 of the Technical Specifications.

If you have any questions, please advise.

Respectfully submitted,

  
J. D. Woodard

AEJ:edb3014

Attachments

cc: Mr. S. D. Ebner  
Mr. S. T. Hoffman  
Mr. G. F. Maxwell

160090

9211140442 921031  
PDR ADOCK 05000348  
R PDR

*Handwritten initials/signature*

JOSEPH M. FARLEY NUCLEAR PLANT  
UNIT 1  
NARRATIVE SUMMARY OF OPERATIONS  
October, 1992

The cycle 11-12 refueling outage continued through the month of October.

The following major safety related maintenance was performed during the month of October:

1. Performed testing and maintenance on various safety-related hydraulic and mechanical snubbers.
2. Performed eddy current inspection on 100 percent of the available tubes in all three steam generators (SGs).
3. Completed 112 of 118 piping penetration local leak rate tests (LLRTs).
4. Completed 49 of 49 electrical penetration LLRTs.
5. Replaced tube bundle in 600 volt load center 1D room cooler.
6. Performed various design changes on the service water system including the replacement of some existing carbon steel piping with stainless steel.
7. Performed numerous maintenance tasks on the 1B diesel generator including the installation of filters in the air start system.
8. Performed various design changes on the reactor make-up water system, including a changeout of the tank diaphragm.
9. Performed miscellaneous corrective and preventive maintenance on the diesel generators and the BIG sequencer.
10. Various safety related check valves and motor operated valves were inspected.

DOCKET NO. 50-348

UNIT 1

DATE November 4, 1992

COMPLETED BY R. D. Hill

TELEPHONE (205)899-5156

MONTH October

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</u>
16	<u>0</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.

OPERATING DATA REPORT

DOCKET NO. 50-348  
 DATE November 4, 1992  
 COMPLETED BY R. D. Hill  
 TELEPHONE (205)899-5156

OPERATING STATUS

- |  | Notes   |
|--|---|
| 1. Unit Name: <u>Joseph M. Farley - Unit 1</u>   | 1) Cumulative data since 12-1-77, date of commercial operation. |
| 2. Reporting Period: <u>October 1992</u>   |   |
| 3. Licensed Thermal Power (MWt): <u>2,652</u>  |   |
| 4. Nameplate Rating (Gross MWe): <u>860</u>  |   |
| 5. Design Electrical Rating (Net MWe): <u>629</u>  |   |
| 6. Maximum Dependable Capacity (Gross MWe): <u>855.7</u>   |   |
| 7. Maximum Dependable Capacity (Net MWe): <u>812.0</u>   |   |
| 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>N/A</u> |   |
| 9. Power Level To Which Restricted, If Any (Net MWe): <u>N/A</u>   |   |
| 10. Reasons For Restrictions, If Any: <u>N/A</u>   |   |

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	745.0	7,320.0	130,776.0
12. Number Of Hours Reactor Was Critical	0.0	6,454.4	102,365.3
13. Reactor Reserve Shutdown Hours	0.0	0.0	3,650.0
14. Hours Generator On-Line	0.0	6,454.1	100,718.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	0.0	17,035,988.5	258,440,512.6
17. Gross Electrical Energy Generated (MWH)	0.0	5,484,586.0	83,269,348.0
18. Net Electrical Energy Generated (MWH)	(4704)	5,196,944.0	78,611,742.0
19. Unit Service Factor	0.0	88.2	77.0
20. Unit Availability Factor	0.0	88.2	77.0
21. Unit Capacity Factor (Using MDC Net)	N/A	87.4	74.3
22. Unit Capacity Factor (Using DER Net)	N/A	85.6	72.5
23. Unit Forced Outage Rate	0.0	0.0	6.7
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A			

25. If Shut Down At End Of Report Period, Estimated Date of Startup:	11/26/92	
26. Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	08/06/77	08/09/77
INITIAL ELECTRICITY	08/20/77	08/18/77
COMMERCIAL OPERATION	12/01/77	12/01/77

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-348

UNIT NAME J. M. FARLEY - UNIT 1

DATE November 4, 1992

COMPLETED BY R. D. HILL

TELEPHONE (215)899-5156

REPORT MONTH OCTOBER

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE
									ACTION TO PREVENT RECURRENCE
002	921001	S	745	C	1	N/A	N/A	N/A	The cycle 11-12 refueling continued from 92092.

<sup>1</sup>F: Forced

S: Scheduled

<sup>2</sup>Reason:

A-Equipment Failure (Explain)

B-Maintenance or Test

C-Refueling

D-Regulatory Restriction

E-Operator Training &amp; License Examination

F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

<sup>3</sup>Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Other (Explain)

<sup>4</sup>Exhibit G-Instructions

for Preparation of Data

Entry Sheets for Licensee

Event Report(LEER) File (NUREG-  
0161)<sup>5</sup>Exhibit I -Case Source

(9/77)

JOSEPH M. FARLEY NUCLEAR PLANT  
UNIT 2  
NARRATIVE SUMMARY OF OPERATIONS  
October, 1992

At 0023 on 10-20-92, while operating at 65 percent power, the Unit 2 reactor was manually tripped due to reduced feedwater flow leading to low levels in all SGs. The reduced feedwater flow was caused by a loss of condenser hotwell level at a rate beyond its make-up capability. The loss of condenser hotwell level was caused by the inadvertent isolation of one section of condenser cooling water in conjunction with the intentional isolation of one section of condenser cooling water. The loss of cooling caused hotwell temperature to increase resulting in saturation and loss of level. The low hotwell level caused the condensate pumps to cavitate resulting in a loss of steam generator feedwater pump (SGFP) suction pressure which, in turn, led to reduced feedwater flow to all SGs.

The unit was tied to the grid at 1813 on 10-21-92 and reached 56 percent power at 1026 on 10-22-92. At 1440 on 10-22-92, ramp down to 15 percent was initiated due to suspected main condenser tube leaks. The ramp down to 15 percent was completed at 2129 on 10-22-92. Three leaking tubes were identified in the AB section of the A main condenser. The three leaking tubes and twelve surrounding tubes were plugged. The unit returned to 100 percent power at 0916 on 10-24-92.

There were no other unit shutdowns or major power reductions during the month of October.

The following major safety-related maintenance was performed during the month:

1. Miscellaneous corrective and preventive maintenance was performed on the diesel generators.
2. Replaced tube bundle in 600 volt motor control center 2A room cooler.
3. Performed various design changes on the reactor make-up water system.
4. Plugged 15 tubes in the AB section of the A main condenser.

OPERATING DATA REPORT

DOCKET NO. 50-364  
 DATE November 4, 1992  
 COMPLETED BY R. D. Hill  
 TELEPHONE (205)899-5556

OPERATING STATUS

- |   |  |
|---|--|
| 1. Unit Name: <u>Joseph M. Farley - Unit 2</u><br>2. Reporting Period: <u>October 1992</u><br>3. Licensed Thermal Power (MWt): <u>2,652</u><br>4. Nameplate Rating (Gross MWe): <u>860</u><br>5. Design Electrical Rating (Net MWe): <u>829</u><br>6. Maximum Dependable Capacity (Gross MWe): <u>864.3</u><br>7. Maximum Dependable Capacity (Net MWe): <u>824.0</u><br>8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>N/A</u><br>9. Power Level To Which Restricted, If Any (Net MWe): <u>N/A</u><br>10. Reasons For Restrictions, If Any: <u>N/A</u> | Notes<br>1) Cumulative data since 7-30-81, date of commercial operation. |
|---|--|

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	745.0	7,320.0	98,089.0
12. Number Of Hours Reactor Was Critical	724.4	5,693.6	84,557.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	138.0
14. Hours Generator On-Line	703.2	5,524.2	83,452.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,742,799.0	13,729,514.7	212,688,836.3
17. Gross Electrical Energy Generated (MWH)	565,885.0	4,451,120.0	69,747,204.0
18. Net Electrical Energy Generated (MWH)	535,715.0	4,200,068.0	66,134,130.0
19. Unit Service Factor	94.4	75.5	84.6
20. Unit Availability Factor	94.4	75.5	84.6
21. Unit Capacity Factor (Using MDC Net)	87.3	69.6	81.7
22. Unit Capacity Factor (Using DER Net)	86.7	69.2	80.8
23. Unit Forced Outage Rate	5.6	3.5	4.1
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A			

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

	<b>Forecast</b>	<b>Achieved</b>
INITIAL CRITICALITY	<u>05/06/81</u>	<u>05/08/81</u>
INITIAL ELECTRICITY	<u>05/24/81</u>	<u>05/25/81</u>
COMMERCIAL OPERATION	<u>08/01/81</u>	<u>7/30/81</u>

DOCKET NO. 50-364

UNIT 2

DATE November 6, 1992

COMPLETED BY R. D. Hill

TELEPHONE (205)899-5156

MONTH October

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>822</u>	17	<u>818</u>
2	<u>820</u>	18	<u>777</u>
3	<u>15</u>	19	<u>807</u>
4	<u>815</u>	20	<u>0</u>
5	<u>818</u>	21	<u>3</u>
6	<u>821</u>	22	<u>268</u>
7	<u>818</u>	23	<u>74</u>
8	<u>815</u>	24	<u>753</u>
9	<u>815</u>	25	<u>852</u>
10	<u>500</u>	26	<u>820</u>
11	<u>818</u>	27	<u>815</u>
12	<u>824</u>	28	<u>815</u>
13	<u>821</u>	29	<u>816</u>
14	<u>819</u>	30	<u>815</u>
15	<u>819</u>	31	<u>817</u>
16	<u>818</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

DOCKET NO. 50-364

UNIT NAME J. M. FASLEY - UNIT 2  
 DATE November 4, 1992  
 COMPLETED BY R. D. HILL  
 TELEPHONE (205) 899-5156

REPORT MONTH OCTOBER

SL. NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
013	921019	S	3.4	B	N/A	N/A	N/A	N/A	The unit was ramped to 65 percent power for condenser waterbox leak rate test.
014	921020	F	56.1	G	2	92-010-00	KE	N/A	At 0023 on 10-20-92, while operating at 65 percent power, the Unit 2 reactor was manually tripped due to reduced feedwater flow leading to low levels in all steam generators (SGs). The reduced feedwater flow was caused by a loss of condenser hotwell level at a rate beyond its make-up capability. The loss of condenser hotwell level was caused by the inadvertent isolation of one section of condenser cooling water in conjunction with the intentional isolation of one section of condenser cooling water. The loss of cooling caused hotwell temperature to increase resulting in saturation and loss of level. The low hotwell level caused the condensate pump to cavitate resulting in a loss of steam generator feedwater pump (SGFP) suction pressure which, in turn, led to reduced feedwater flow to all SGs. The unit returned to 56 percent power at 1026 on 10-22-92.
015	921022	S	46.9	B	N/A	N/A	N/A	N/A	At 1440 on 10-22-92, the unit was ramped down from 15 percent to 15 percent due to suspected main condenser tube leaks. The ramp to 15 percent was completed at 2129 on 10-22-92. Three leaking tubes were identified in the AB section of the A main condenser. The three leaking tubes and twelve surrounding tubes were plugged. The unit returned to 100 percent power at 0915 on 10-24-92.

<sup>1</sup>F: Forced  
 S: Scheduled

<sup>2</sup>Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative

<sup>3</sup>Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report(LER) File (MURE-0151)

<sup>5</sup>Exhibit I - Same Source