

TENNESSEE VALLEY AUTHORITY

OFFICE OF NUCLEAR POWER

BROWNS FERRY NUCLEAR PLANT

MONTHLY OPERATING REPORT TO NRC

JUNE 1, 1987 - JUNE 30, 1987

DOCKET NUMBERS 50-259, 50-260, AND 50-296

LICENSE NUMBERS DPR-33, DPR-52, AND DPR-68

Submitted by:

Robert L. Lewis
Plant Manager

0487k

8707230736 870630
PDR ADOCK 05000259
R PDR

FE 24
11

CONTENTS

Operations Summary	1
Refueling Information.	3
Significant Operational Events	5
Operating Data Report.	6
Average Daily Unit Power Level	9
Unit Shutdowns and Power Reductions.	12
Addenda - Revision to May 1987 Report	15
Addenda - Revision to May 1987 Report	16

Operations Summary

JUNE 1987

The following summary describes the significant operation activities during the reporting period. In support of this summary, a chronological log of significant events is included in this report.

There was one reportable occurrence and no revisions to previous occurrences reported to NRC during the month.

Unit 1

The unit remained on administrative hold the entire month. The unit is also undergoing its end-of-cycle 6 refueling.

Unit 2

The unit remained on administrative hold the entire month. The unit is also undergoing its end-of-cycle 5 refueling.

Unit 3

The unit remained on administrative hold the entire month. The unit is also undergoing environmental qualifications to comply with NRC requirements.

Operations Summary (Continued)

JUNE 1987

Fatigue Usage Evaluation

The cumulative usage factors for the reactor vessel are as follows:

<u>Location</u>	<u>Usage Factor</u>		
	<u>Unit 1</u>	<u>Unit 2</u>	<u>Unit 3</u>
Shell at water line	0.00620	0.00492	0.00430
Feedwater nozzle	0.29782	0.21319	0.16133
Closure studs	0.24204	0.17629	0.14326

NOTE: This accumulated monthly information satisfies Technical
Specification Section 6.6.A.17.b(3) reporting requirements.

Common System

Approximately $8.74\text{E}+05$ gallons of waste liquids were discharged containing
approximately $3.82\text{E}-02$ curies of activity.

Refueling Information

JUNE 1987

Unit 1

Unit 1 was placed on administrative hold in March 1985 to resolve TVA and NRC concerns. The unit also began its sixth refueling on June 1, 1985, with a scheduled restart date to be determined. The sixth refueling will involve loading 8x8R (retrofit) fuel assemblies into the core. The prior-to-startup unit 1 items are environmental qualification of electrical equipment (10CFR50.49), torus modification (NUREG 0661), containment modifications (NUREG 0737), electrical changes (Appendix R 10CFR50) (all), MSIV modifications, modification of masonry walls (IEB 80-11), evaluation of the vent drain and test connections, VDTC, (LER 82020), valve modification (Appendix J), HPCI concerns, modification of PCIS logic (LER 259/85009), replacement of plant process computers, seismic qualifications of piping (IEB 79-02/14), postaccident evaluation (NUREG 0737), RPS modifications (IE Notice 78-45), H₂O sample line modification (LER 81050), radiation monitors modification (LER 80033), EECW carbon to stainless pipe change out, and all NRC commitment items except Anticipated Transients Without Scram (ATWS) modifications which are scheduled for next outage.

There are 0 assemblies in the reactor vessel. The spent fuel storage pool presently contains 284 new assemblies, 764 EOC-6, 252 EOC-5, 260 EOC-4, 232 EOC-3, 156 EOC-2, and 168 EOC-1 assemblies. The present available capacity of the fuel pool is 1355 locations.

Unit 2

Unit 2 was shut down on September 15, 1984, for its fifth refueling outage with a scheduled restart date to be determined. On September 3, 1985, the unit was placed on administrative hold to resolve TVA and NRC safety concerns. The fifth refueling involves loading 8x8R (retrofit) fuel assemblies into the core. The prior-to-startup unit 2 items are CRD SDIV piping modification (IEB 80-17), environmental qualification of electrical equipment (10CFR50.49), torus modifications (NUREG 0661), containment modification (NUREG 0737), electrical changes (Appendix R 10CFR50) (partial), MSIV modifications, modification of masonry walls (IEB 80-11), addition of feedwater nozzle temperature monitoring (NUREG 0619), evaluation of the vent drain and test connections, VDTC, (LER 82020), valve modification (Appendix J) (partial), D/G speed sensor

Refueling Information

JUNE 1987

Unit 2 (Continued)

installation (LER 81004), HPCI and RCIC testable check valve change out, modification of PCIS logic (LER 259/85009), HPCI concerns, seismic program review, and EECW carbon to stainless pipe change out.

There are 0 assemblies in the reactor vessel. At month end there were 304 new assemblies, 764 EOC-5, 248 EOC-4, 352 EOC-3, 156 EOC-2, and 132 EOC-1 assemblies in the spent fuel storage pool. The present available capacity of the spent fuel pool is 1481 locations. All HDRs have been installed in the pool with the exception of two.

Unit 3

Unit 3 was shut down on March 9, 1985, and placed on administrative hold to resolve various TVA and NRC concerns with a scheduled restart date to be determined. The sixth refueling outage has been scheduled for September 21, 1988, and involves loading 8x8R (retrofit) assemblies into the core and ATWS modifications. The prior-to-startup unit 3 items are environmental qualification of electrical equipment (10CFR50.49), containment modifications (NUREG 0737), electrical changes (Appendix R 10CFR50) (all), MSIV modifications, modification of masonry walls (IEB 80-11), evaluation of the vent drain and test connections, VDTC, (LER 82020), valve modifications (Appendix J), HPCI concerns, replacement of plant process computer, seismic qualifications of piping (IEB 79-02/14), postaccident evaluation (NUREG 0737), addition of redundant drywell control air supply, RPS modification (IE Notice 78-45), H₂O sample line modification (LER 81050), radiation monitor modification (LER 80033), replacement of jet pump holddown beam assemblies (IEB 80-07), change out of switches in SGBT (LER 83018), EECW carbon to stainless pipe change out, and plant design upgrade to seismic qualification.

There are 0 assemblies in the reactor vessel. There are 764 assemblies to finish cycle 6, 248 EOC-5, 280 EOC-4, 124 EOC-3, 144 EOC-2, and 208 EOC-1 assemblies in the spent fuel storage pool. The present available capacity of the fuel pool is 585 locations. All high density racks (HDR) have been installed in the pool with the exception of six.

Significant Operational Events

JUNE 1987

Unit 1

06/01/87	0001	Unit remains on administrative hold to resolve various TVA and NRC concerns, and end of cycle 6 refueling and modifications continues.
06/30/87	2400	Unit remains on administrative hold to resolve various TVA and NRC concerns, and end of cycle 6 refueling and modifications continues.

Unit 2

06/01/87	0001	Unit remains on administrative hold to resolve various TVA and NRC concerns, and end of cycle 5 refueling and modifications continues.
06/30/87	2400	Unit remains on administrative hold to resolve various TVA and NRC concerns, and end of cycle 5 refueling and modifications continues.

Unit 3

06/01/87	0001	Unit remains on administrative hold to resolve various TVA and NRC concerns, and environmental qualifications and modifications continues.
06/30/87	2400	Unit remains on administrative hold to resolve various TVA and NRC concerns, and environmental qualifications and modifications continues.

OPERATING DATA REPORT

DOCKET NO. 50-259
 DATE 7/1/87
 COMPLETED BY J. D. Crawford
 TELEPHONE (205) 729-2507

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT ONE
2. Reporting Period: June 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1098.4
7. Maximum Dependable Capacity (Net MWe): 1065
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720</u>	<u>4343</u>	<u>113,263</u>
12. Number Of Hours Reactor Was Critical	<u>0</u>	<u>0</u>	<u>59,521.38</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>6,997.44</u>
14. Hours Generator On-Line	<u>0</u>	<u>0</u>	<u>58,267.26</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>168,066,787</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>55,398,130</u>
18. Net Electrical Energy Generated (MWH)	<u>-724</u>	<u>-9768</u>	<u>53,710,867</u>
19. Unit Service Factor	<u>0</u>	<u>0</u>	<u>51.44</u>
20. Unit Availability Factor	<u>0</u>	<u>0</u>	<u>51.44</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>0</u>	<u>44.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>0</u>	<u>44.5</u>
23. Unit Forced Outage Rate	<u>100</u>	<u>100</u>	<u>38.4</u>
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: To be determined
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast	Achieved
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

OPERATING DATA REPORT

DOCKET NO. 50-260
 DATE 7/1/87
 COMPLETED BY J. D. Crawford
 TELEPHONE (205) 729-2507

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT TWO
2. Reporting Period: June 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1098.4
7. Maximum Dependable Capacity (Net MWe): 1065
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720</u>	<u>4343</u>	<u>108,150</u>
12. Number Of Hours Reactor Was Critical	<u>0</u>	<u>0</u>	<u>55,860.03</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>14,200.44</u>
14. Hours Generator On-Line	<u>0</u>	<u>0</u>	<u>54,338.36</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>153,245,167</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>50,771,798</u>
18. Net Electrical Energy Generated (MWH)	<u>-2178</u>	<u>-12591</u>	<u>49,205,712</u>
19. Unit Service Factor	<u>0</u>	<u>0</u>	<u>50.2</u>
20. Unit Availability Factor	<u>0</u>	<u>0</u>	<u>50.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>0</u>	<u>42.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>0</u>	<u>42.7</u>
23. Unit Forced Outage Rate	<u>100</u>	<u>100</u>	<u>37.3</u>

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: To be determined

26. Units In Test Status (Prior to Commercial Operation):

Forecast Achieved

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50-296
 DATE 7/1/87
 COMPLETED BY J. D. Crawford
 TELEPHONE (205) 729-2507

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT THREE
2. Reporting Period: June 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1098.4
7. Maximum Dependable Capacity (Net MWe): 1065
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	4343	90575
12. Number Of Hours Reactor Was Critical	0	0	45,306.08
13. Reactor Reserve Shutdown Hours	0	0	5,149.55
14. Hours Generator On-Line	0	0	44,194.76
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	0	131,868,267
17. Gross Electrical Energy Generated (MWH)	0	0	43,473,760
18. Net Electrical Energy Generated (MWH)	-5221	-23753	42,068,375
19. Unit Service Factor	0	0	48.8
20. Unit Availability Factor	0	0	48.8
21. Unit Capacity Factor (Using MDC Net)	0	0	43.6
22. Unit Capacity Factor (Using DER Net)	0	0	43.6
23. Unit Forced Outage Rate	100	100	40.2
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: To be determined

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259

UNIT ONE

DATE 7/1/87

COMPLETED BY J. D. Crawford

TELEPHONE (205) 729-2507

MONTH June, 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>-1</u>
2	<u>-1</u>
3	<u>-1</u>
4	<u>-1</u>
5	<u>0</u>
6	<u>-2</u>
7	<u>-1</u>
8	<u>-1</u>
9	<u>-1</u>
10	<u>-1</u>
11	<u>-1</u>
12	<u>-1</u>
13	<u>-1</u>
14	<u>-1</u>
15	<u>-1</u>
16	<u>-1</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>-1</u>
18	<u>-1</u>
19	<u>-1</u>
20	<u>-1</u>
21	<u>-1</u>
22	<u>-1</u>
23	<u>-1</u>
24	<u>-1</u>
25	<u>-1</u>
26	<u>-1</u>
27	<u>-1</u>
28	<u>-1</u>
29	<u>-1</u>
30	<u>-1</u>
31	<u>-1</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.

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259

UNIT ONE

DATE 7/1/87

COMPLETED BY J. D. Crawford

TELEPHONE (205) 729-2507

MONTH June, 1987

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>-1</u>
2	<u>-1</u>
3	<u>-1</u>
4	<u>-1</u>
5	<u>0</u>
6	<u>-2</u>
7	<u>-1</u>
8	<u>-1</u>
9	<u>-1</u>
10	<u>-1</u>
11	<u>-1</u>
12	<u>-1</u>
13	<u>-1</u>
14	<u>-1</u>
15	<u>-1</u>
16	<u>-1</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>-1</u>
18	<u>-1</u>
19	<u>-1</u>
20	<u>-1</u>
21	<u>-1</u>
22	<u>-1</u>
23	<u>-1</u>
24	<u>-1</u>
25	<u>-1</u>
26	<u>-1</u>
27	<u>-1</u>
28	<u>-1</u>
29	<u>-1</u>
30	<u>-1</u>
31	<u>-1</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.

(9/77)

OPERATING DATA REPORT

DOCKET NO. 50-296
 DATE 7/1/87
 COMPLETED BY L. D. Crawford
 TELEPHONE (205) 729-2507

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT THREE
2. Reporting Period: June 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1098.4
7. Maximum Dependable Capacity (Net MWe): 1065
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	4343	90575
12. Number Of Hours Reactor Was Critical	0	0	45,306.08
13. Reactor Reserve Shutdown Hours	0	0	5,149.55
14. Hours Generator On-Line	0	0	44,194.76
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	0	131,868,267
17. Gross Electrical Energy Generated (MWH)	0	0	43,473,760
18. Net Electrical Energy Generated (MWH)	-5221	-23753	42,068,375
19. Unit Service Factor	0	0	48.8
20. Unit Availability Factor	0	0	48.8
21. Unit Capacity Factor (Using MDC Net)	0	0	43.6
22. Unit Capacity Factor (Using DER Net)	0	0	43.6
23. Unit Forced Outage Rate	100	100	40.2
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: To be determined

26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Acnieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259

UNIT ONE

DATE 7/1/87

COMPLETED BY J. D. Crawford

TELEPHONE (205) 729-2507

MONTH June, 1987

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>-1</u>
2	<u>-1</u>
3	<u>-1</u>
4	<u>-1</u>
5	<u>0</u>
6	<u>-2</u>
7	<u>-1</u>
8	<u>-1</u>
9	<u>-1</u>
10	<u>-1</u>
11	<u>-1</u>
12	<u>-1</u>
13	<u>-1</u>
14	<u>-1</u>
15	<u>-1</u>
16	<u>-1</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>-1</u>
18	<u>-1</u>
19	<u>-1</u>
20	<u>-1</u>
21	<u>-1</u>
22	<u>-1</u>
23	<u>-1</u>
24	<u>-1</u>
25	<u>-1</u>
26	<u>-1</u>
27	<u>-1</u>
28	<u>-1</u>
29	<u>-1</u>
30	<u>-1</u>
31	<u>-1</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.

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-260

UNIT TWO

DATE 7/1/87

COMPLETED BY J. D. Crawford

TELEPHONE (205) 729-2507

MONTH June, 1987

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>-3</u>
2	<u>-3</u>
3	<u>-3</u>
4	<u>-3</u>
5	<u>-2</u>
6	<u>-4</u>
7	<u>-3</u>
8	<u>-3</u>
9	<u>-4</u>
10	<u>-3</u>
11	<u>-3</u>
12	<u>-3</u>
13	<u>-3</u>
14	<u>-3</u>
15	<u>-3</u>
16	<u>-3</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>-3</u>
18	<u>-3</u>
19	<u>-3</u>
20	<u>-3</u>
21	<u>-3</u>
22	<u>-3</u>
23	<u>-3</u>
24	<u>-3</u>
25	<u>-3</u>
26	<u>-3</u>
27	<u>-3</u>
28	<u>-3</u>
29	<u>-3</u>
30	<u>-2</u>
31	<u></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.

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-296

UNIT Three

DATE 7/1/87

COMPLETED BY J. D. Crawford

TELEPHONE (205) 729-2507

MONTH June, 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>-7</u>
2	<u>-7</u>
3	<u>-7</u>
4	<u>-7</u>
5	<u>-7</u>
6	<u>-8</u>
7	<u>-7</u>
8	<u>-7</u>
9	<u>-8</u>
10	<u>-7</u>
11	<u>-7</u>
12	<u>-8</u>
13	<u>-7</u>
14	<u>-7</u>
15	<u>-7</u>
16	<u>-7</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>-7</u>
18	<u>-7</u>
19	<u>-8</u>
20	<u>-7</u>
21	<u>-7</u>
22	<u>-7</u>
23	<u>-7</u>
24	<u>-7</u>
25	<u>-8</u>
26	<u>-8</u>
27	<u>-7</u>
28	<u>-7</u>
29	<u>-7</u>
30	<u>-7</u>
31	<u></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.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JUNE

DOCKET NO. 50-259
 UNIT NAME ONE
 DATE July 1, 1987
 COMPLETED BY J. D. Crawford
 TELEPHONE (205) 729-2507

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
315 (cont.)	6/1/87	F	720	F	4				Administrative hold to resolve various TVA and NRC concerns.

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)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JUNE

DOCKET NO. 50-263
 UNIT NAME TWO
 DATE JULY 1, 1987
 COMPLETED BY J. D. Crawford
 TELEPHONE (205) 729-2592

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
305 (cont.)	6/1/87	F	720	F	4				Administrative hold to resolve various TVA and NRC concerns.

1 F - Forced
S - Scheduled

2 Reason:

A-Equipment Failure (Explain)
 B-Maintenance of 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)

5

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

(9/77)

5 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JUNE

DOCKET NO. 50-296
 UNIT NAME THREE
 DATE July 1, 1987
 COMPLETED BY J. D. Crawford
 TELEPHONE (205) 729-2507

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
157 (cont.)	6/1/87	F	720	F	4				Administrative hold to resolve various TVA and NRC concerns.

1 F: Forced
S: Scheduled

2 Reason:

A-Equipment Failure (Explain)
 B-Maintenance of 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)

OPERATING DATA REPORT

DOCKET NO. 50-259
 DATE June 1, 1987
 COMPLETED BY J. D. Crawford
 TELEPHONE (205) 729-2507

OPERATING STATUS

1. Unit Name: BROWNS FERRY UNIT ONE
2. Reporting Period: May 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1098.4
7. Maximum Dependable Capacity (Net MWe): 1065
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	* 3623	112,543
12. Number Of Hours Reactor Was Critical	0	0	59,521.38
13. Reactor Reserve Shutdown Hours	0	0	6,997.44
14. Hours Generator On-Line	0	0	58,267.26
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	0	168,066,787
17. Gross Electrical Energy Generated (MWH)	0	0	55,398,130
18. Net Electrical Energy Generated (MWH)	-697	-9044	53,711,591
19. Unit Service Factor	0	0	51.77
20. Unit Availability Factor	0	0	51.77
21. Unit Capacity Factor (Using MDC Net)	0	0	44.81
22. Unit Capacity Factor (Using DER Net)	0	0	44.81
23. Unit Forced Outage Rate	100	100	37.90
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: To be determined
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast	Achieved
_____	_____
_____	_____
_____	_____

*REVISION

(9/77)

Operations Summary (Continued)

MAY 1987

Fatigue Usage Evaluation

The cumulative usage factors for the reactor vessel are as follows:

<u>Location</u>	<u>Usage Factor</u>		
	<u>Unit 1</u>	<u>Unit 2</u>	<u>Unit 3</u>
Shell at water line	0.00620	0.00492	0.00430
Feedwater nozzle	0.29782	0.21319	0.16133
Closure studs	0.24204	0.17629	0.14326

NOTE: This accumulated monthly information satisfies Technical
Specification Section 6.6.A.17.b(3) reporting requirements.

Common System

Approximately $8.13\text{E-}05$ gallons of waste liquids were discharged containing
approximately $*2.50\text{E-}02$ curies of activity.

*Revision

TENNESSEE VALLEY AUTHORITY

Browns Ferry Nuclear Plant
Post Office Box 2000
Decatur, Alabama 35602

JUL 13 1987

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

Attention: Office of Management Information and Program Control

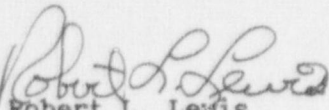
In the Matter of the)	Docket Nos. 50-259
Tennessee Valley Authority)	50-260
		50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - MONTHLY OPERATING REPORT - JUNE 1987

Enclosed is the June 1987 Monthly Operating Report to NRC for Browns Ferry Nuclear Plant units 1, 2, and 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



Robert L. Lewis
Plant Manager

Enclosure

cc: Mr. G. E. Gears
Browns Ferry Project Manager
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Bethesda, Maryland 20814

U.S. Nuclear Regulatory Commission
Region II
Attn: Dr. J. Nelson Grace,
Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. Ted Marston, Director
Electric Power Research Institute
P. O. Box 10412
Palo Alto, California 94304

Mr. G. G. Zech, Director
TVA Projects
U.S. Nuclear Regulatory Commission
101 Marietta St., NW, Suite 2900
Atlanta, Georgia 30323

Browns Ferry Resident Inspector
Browns Ferry Nuclear Plant
P.O. Box 311
Athens, Alabama 35611

INPO Records Center
Institute of Nuclear Power
Operations
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30389

IE24
11