TENNESSEE VALLEY AUTHORITY

DIVISION OF NUCLEAR POWER

BROWNS FERRY NUCLEAR PLANT

MONTHLY OPERATING REPORT TO NRC

August 1, 1985 - August 31, 1985

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

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

Submitted by: J E Swindell
for Acting Plant Manager

IE24
1/1

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Operations Summary

August 1985

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 were twelve reportable occurrences and no revisions to previous occurrences reported to the NRC during the month of August.

Unit 1

The unit was in cold shutdown the entire month for the unit's end-of-cycle 6 refueling outage.

Unit 2

The unit was in cold shutdown the entire month for the unit's end-of-cycle 5 refueling outage.

Unit 3

The unit was in cold shutdown the entire month on an administrative hold to resolve various TVA and NRC concerns.

Prepared principally by B. L. Porter.

Operations Summary (Continued)

August 1985

Refueling Information

Unit 1

Unit 1 was in shutdown for its sixth refueling on June 1, 1985 with a scheduled restart date of March 31, 1986. This refueling will involve loading 8x8R (retrofit) fuel assemblies into the core, replacing recirculation piping, work on "A" and "B" low-pressure turbine, upgrade hangers and anchors, and environmentally qualify instrumentations. The unit was shut down on March 19, 1985, and remained in cold shutdown until June 1, 1985, because of unfinished modifications to meet environmental concerns.

There are 504 assemblies in the reactor vessel. The spent fuel storage pool presently contains 260 EOC-6 assemblies, 252 EOC-5 assemblies, 260 EOC-4 assemblies; 232 EOC-3 assemblies; 156 EOC-2 assemblies; and 168 EOC-1 assemblies. The present fuel pool capacity is 3,471 locations.

Unit 2

Unit 2 was shut down for its fifth refueling outage on September 15, 1984 with a scheduled restart date of December 31, 1985. This refueling outage will involve loading additional 8X8R (retrofit) assemblies into the core, finishing torus modification, turbine inspection, piping inspection, TMI-2 modifications; post-accident sampling facility tie-ins, core spray change-out, and feedwater sparger inspection.

There are no assemblies in the reactor vessel. At month end, there were 273 new assemblies, 764 EOC-5 assemblies, 248 EOC-4 assemblies, 352 EOC-3 assemblies, 156 EOC-2 assemblies, and 132 EOC-1 assemblies in the spent fuel storage pool. The present available capacity of the spent fuel pool is 77 locations. All old racks have been removed from the pool and new HDR's are being installed.

Operations Summary

August 1985

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 were twelve reportable occurrences and no revisions to previous occurrences reported to the NRC during the month of August.

Unit 1

The unit was in cold shutdown the entire month for the unit's end-of-cycle 6 refueling outage.

Unit 2

The unit was in cold shutdown the entire month for the unit's end-of-cycle 5 refueling outage.

Unit 3

The unit was in cold shutdown the entire month on an administrative hold to resolve various TVA and NRC concerns.

Prepared principally by B. L. Porter.

Operations Summary (Continued)

August 1985

Fatigue Usage Evaluation

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

Location	Usage Factor		
	Unit 1	Unit 2	Unit 3
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 1.19E+06 gallons of waste liquids were discharged containing approximately 4.53E-02 curies of activities.

Operations Summary (Continued)

August 1985

Refueling Information

Unit 1

Unit 1 was in shutdown for its sixth refueling on June 1, 1985 with a scheduled restart date of March 31, 1986. This refueling will involve loading 8x8R (retrofit) fuel assemblies into the core, replacing recirculation piping, work on "A" and "B" low-pressure turbine, upgrade hangers and anchors, and environmentally qualify instrumentations. The unit was shut down on March 19, 1985, and remained in cold shutdown until June 1, 1985, because of unfinished modifications to meet environmental concerns.

There are 504 assemblies in the reactor vessel. The spent fuel storage pool presently contains 260 EOC-6 assemblies, 252 EOC-5 assemblies, 260 EOC-4 assemblies; 232 EOC-3 assemblies; 156 EOC-2 assemblies; and 168 EOC-1 assemblies. The present fuel pool capacity is 3,471 locations.

Unit 2

Unit 2 was shut down for its fifth refueling outage on September 15, 1984 with a scheduled restart date of December 31, 1985. This refueling outage will involve loading additional 8X8R (retrofit) assemblies into the core, finishing torus modification, turbine inspection, piping inspection, TMI-2 modifications; post-accident sampling facility tie-ins, core spray change-out, and feedwater sparger inspection.

There are no assemblies in the reactor vessel. At month end, there were 273 new assemblies, 764 EOC-5 assemblies, 248 EOC-4 assemblies, 352 EOC-3 assemblies, 156 EOC-2 assemblies, and 132 EOC-1 assemblies in the spent fuel storage pool. The present available capacity of the spent fuel pool is 77 locations. All old racks have been removed from the pool and new HDR's are being installed.

Operations Summary (Continued)

August 1985

Unit 3

Unit 3 is scheduled for its sixth refueling outage approximately November 30, 1985, with a scheduled restart date of November 10, 1986. This refueling involves loading 8X8R (retrofit) assemblies into the core, and complete reinspection of stainless steel piping. The unit was shutdown on March 9, 1985, and will remain in cold shutdown until November 30, 1985, on an administrative hold to resolve various TVA and NRC concerns.

There are 764 assemblies presently in the reactor vessel. There are 248 EOC-5 assemblies, 280 EOC-4 assemblies, 124 EOC-3 assemblies, 144 EOC-2 assemblies, and 208 EOC-1 assemblies in the spent fuel storage pool. The present available capacity of the spent fuel pool is 914 locations.

August 1985

Significant Operational Events

Unit-1

8/01/85	0001	End of cycle-6 refuel outage continues
8/31/85	2400	End of cycle-6 refuel outage continues

August 1985

Significant Operational Events

Unit-2

8/01/85	0001	End of cycle-5 refuel and modifications outage continues
8/31/85	2400	End of cycle-5 refuel and modifications outage continues

August 1985

Significant Operational Events

Unit-3

8/01/85	0001	The unit has been placed on administrative hold until various TVA and NRC concerns are resolved.
8/31/85	2400	The unit has been placed on administrative hold until various TVA and NRC concerns are resolved.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259
UNIT Browns Ferry 1
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

MONTH August

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

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. 50-260
UNIT Browns Ferry 2
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

MONTH August

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

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. 50-296
UNIT Browns Ferry 3
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

MONTH August

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

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 50-259
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

OPERATING STATUS

1. Unit Name: Browns Ferry One
2. Reporting Period: August 1985
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	5,831	97,231
12. Number Of Hours Reactor Was Critical	0	1,647.78	59,521.38
13. Reactor Reserve Shutdown Hours	0	512.22	6,997.44
14. Hours Generator On-Line	0	1,626.67	58,267.26
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	4,950,821	168,066,787
17. Gross Electrical Energy Generated (MWH)	0	1,652,650	55,398,130
18. Net Electrical Energy Generated (MWH)	-7,471	1,567,725	53,781,546
19. Unit Service Factor	0	27.9	59.9
20. Unit Availability Factor	0	27.9	59.9
21. Unit Capacity Factor (Using MDC Net)	0	25.2	51.9
22. Unit Capacity Factor (Using DER Net)	0	25.2	51.9
23. Unit Forced Outage Rate	0	55.1	23.6

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: 9/14/86
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

OPERATING DATA REPORT

DOCKET NO. 50-260
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

OPERATING STATUS

1. Unit Name: Browns Ferry Two
2. Reporting Period: August 1985
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
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

Notes

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,831	92,118
12. Number Of Hours Reactor Was Critical	0	0	55,860.03
13. Reactor Reserve Shutdown Hours	0	0	14,200.44
14. Hours Generator On-Line	0	0	54,338.36
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	0	153,245,167
17. Gross Electrical Energy Generated (MWH)	0	0	50,771,798
18. Net Electrical Energy Generated (MWH)	-2,437	-20,004	49,282,969
19. Unit Service Factor	0	0	59.0
20. Unit Availability Factor	0	0	59.0
21. Unit Capacity Factor (Using MDC Net)	0	0	50.2
22. Unit Capacity Factor (Using DER Net)	0	0	50.2
23. Unit Forced Outage Rate	0	0	23.0

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: December 24, 1985
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

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OPERATING DATA REPORT

DOCKET NO. 50-296
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

OPERATING STATUS

1. Unit Name: Browns Ferry 3
2. Reporting Period: August 1985
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
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

Notes

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,831	74,543
12. Number Of Hours Reactor Was Critical	0	1,517.65	45,306.08
13. Reactor Reserve Shutdown Hours	0	508.05	5,149.55
14. Hours Generator On-Line	0	1,496.96	44,194.76
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	4,649,840	131,868,267
17. Gross Electrical Energy Generated (MWH)	0	1,572,770	43,473,760
18. Net Electrical Energy Generated (MWH)	-6,642	1,492,119	42,157,880
19. Unit Service Factor	0	25.7	59.3
20. Unit Availability Factor	0	25.7	59.3
21. Unit Capacity Factor (Using MDC Net)	0	24.0	53.1
22. Unit Capacity Factor (Using DER Net)	0	24.0	53.1
23. Unit Forced Outage Rate	100	74.3	23.6

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: March 87
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August

DOCKET NO. 50-259
UNIT NAME Browns Ferry 1
DATE 9/1/85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

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)	8/1/85	S	744	C	2				End of cycle 6 refuel outage continues.

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

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August

DOCKET NO. 50-260
UNIT NAME Browns Ferry 2
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

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)	8/1/85	S	744	C	4				EOC-5 refuel outage (controlled shutdown) 9/15/84

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

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August

DOCKET NO. 50-296
UNIT NAME Browns Ferry 3
DATE 9-1-85
COMPLETED BY T. Thom
TELEPHONE 205/729-2509

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
156 (Cont)	8/1/85	F	744	F					The unit remains on administrative hold until various TVA and NRC concerns are resolved.

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

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BROWNS FERRY NUCLEAR PLANT UNIT 0

CSSC EQUIPMENT

ELECTRICAL MAINTENANCE SUMMARY

For the Month of August 1985

Date	System	Component	Nature of Maintenance	Effect on Safe Operation of The Reactor	Cause of Malfunction	Results of Malfunction	Action Taken To Preclude Recurrence
1985 7/16	Radiation monitoring	PMP-90-0152A stack sample pump B1	Troubleshoot stack sample pump B1	None	Motor winding bad	Motor would not run	Motor rebuilt at Power Svc Shop MR 566809 MR 582336 1663 BFN 85-182
8/2	Off-gas	HTR-65-0060 standby gas treatment control heater for filter train C	Troubleshoot and repair charcoal heaters	None	Heaters burned out	Heaters not working	Replaced heaters MR 589769
8/14	EECW	FCV-67-0005 EECW strainer backwash discharge valve	Troubleshoot to identify problem	None	Bad valve motor	Valve would not operate	Replaced valve motor MR 588751

BROWNS FERRY NUCLEAR PLANT UNIT 1

CSSC EQUIPMENT

ELECTRICAL MAINTENANCE SUMMARY

For the Month of August 1985

Date	System	Component	Nature of Maintenance	Effect on Safe Operation of The Reactor	Cause of Malfunction	Results of Malfunction	Action Taken To Preclude Recurrence
1985 6/28	Radwaste	LS-77-25C RHR pump room flood level switch	Inspect switch for l ose and/ or missing hardware	None	Missing internal parts	Flood level switch was not operating	Replaced superseded level switch model #351 with model #352 TACF 1-85-021-77 MR 582415
7/19	Reactor protection system	SBM switch on battery board No. 1 compartment 9	Repair cut wire on terminal #2 (normal to alternate)	Several engineered safety features initiated	Panel door pinched insulation when closed & wire shorted to ground	Fuse FB-6 blew resulting in loss of RPS MG set B, causing group 2, 3, 6 & 8 isolations	Repaired wire MR 556010 LER 259/85037
8/26	Standby diesel generator	GEN-082-000B diesel generator B, units 1 and 2	SI 4.9.A.1.a D/G monthly check	None	Unknown	Idle speed out of specification per SI	Reduced idle speed from 470 RPMs to 450 RPMs MR 571826

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BROWNS FERRY NUCLEAR PLANT UNIT 3

CSSC EQUIPMENT

ELECTRICAL MAINTENANCE SUMMARY

For the Month of August 19 85

Date	System	Component	Nature of Maintenance	Effect on Safe Operation of The Reactor	Cause of Malfunction	Results of Malfunction	Action Taken To Preclude Recurrence
1985 8/7	Radiation monitoring	RE-90-0143 reactor zone exhaust radiation detector channel B	Surveillance instruction 4.2.A-10	None	Bad connector at end of cable going to RE-90-143	Radiation monitor not operating	Repaired pins A & E on connector plug MR 180799
8/10	Fire protection	XS-39-106EF CB, el 593 battery rm zone E smoke detector	Surveillance instruction 4.11.C.1 & 5	None	Bad detector	No alarm came in on detector when tested	Replaced detector MR 572524
7/18	Containment inerting	Analyzer sample return pump	Investigate excessive noise	None	Bad pump on analyzer	Pump very noisy; failure anticipated	Replaced pump/motor assembly MR 571946

BROWNS FERRY NUCLEAR PLANT UNIT 0

CSSC EQUIPMENT

MECHANICAL MAINTENANCE SUMMARY

For the Month of August 19 85

DATE	SYSTEM	COMPONENT	NATURE OF MAINTENANCE	EFFECT ON SAFE OPERATION OF THE REACTOR	CAUSE OF MALFUNCTION	RESULTS OF MALFUNCTION	ACTION TAKEN TO PRECLUDE RECURRENCE
8/5/85	84	HCV-554	Repair Leak		Age and normal use		MR 176643 repaired valve
8/5/85	84	HCV-555	Repair Leak		Age and normal use		MR 176644 repaired leak
8/5/85	84	CKV	Repair Leak		Age and normal use		MR 176645 repaired leak

BROWNS FERRY NUCLEAR PLANT UNIT 1

CSSC EQUIPMENT

MECHANICAL MAINTENANCE SUMMARY

For the Month of August 19 85

DATE	SYSTEM	COMPONENT	NATURE OF MAINTENANCE	EFFECT ON SAFE OPERATION OF THE REACTOR	CAUSE OF MALFUNCTION	RESULTS OF MALFUNCTION	ACTION TAKEN TO PRECLUDE RECURRENCE
				None			

BROWNS FERRY NUCLEAR PLANT UNIT 2

CSSC EQUIPMENT

MECHANICAL MAINTENANCE SUMMARY

For the Month of August 19 85

DATE	SYSTEM	COMPONENT	NATURE OF MAINTENANCE	EFFECT ON SAFE OPERATION OF THE REACTOR	CAUSE OF MALFUNCTION	RESULTS OF MALFUNCTION	ACTION TAKEN TO PRECLUDE RECURRENCE
				None			

BROWNS FERRY NUCLEAR PLANT UNIT 3

EQUIPMENT

MECHANICAL MAINTENANCE SUMMARY

For the Month of August 19 85

DATE	SYSTEM	COMPONENT	NATURE OF MAINTENANCE	EFFECT ON SAFE OPERATION OF THE REACTOR	CAUSE OF MALFUNCTION	RESULTS OF MALFUNCTION	ACTION TAKEN TO PRECLUDE RECURRENCE
				None			

SHUTDOWN UNITS' MONTHLY REPORT

MONTHS OF JULY - AUGUST 1985

Unit 1 Status: Shutdown date: March 19, 1985

Turbine: 1 "B" LP turbine disassembly started July 6. The spindle was shipped offsite to the Power Service Shop for rebuild on July 23.

Refuel Floor: Fuel pool gates were opened on July 31. Fuel offload started August 15. As of August 30, 267 of 764 bundles were offloaded.

Days shutdown as of August 31: 165. Outage Day: 91

Unit 3 Status: Shutdown date: March 9, 1985

As of the first week in August, priority on returning unit 3 to service ceased and was shifted to completing the unit 2 cycle 5 refueling outage. Completed work on unit 3 was identified, as was aborted (until the unit 3 cycle 6 refueling outage) work and unit 3 ongoing work to be carried over to the unit 2, cycle 5 refueling outage schedule. Unit 3 will remain shutdown until its outage starts. It will not require a reload of fresh fuel.

Days shutdown as of August 31: 175.

Unit 2 Status: Shutdown date: September 15, 198-
Return to service: Target - December 24, 1985.
Scheduled - February 1, 1986

A. Turbine: The unit 2 turbine building crane is still not in service. Recoupling of turbines remains outstanding.

B. Refuel Floor: The core is unloaded and the cavity is flooded. Setting of four Westinghouse fuel bundles in the fuel pool, reload, changeout of LPRMs, SRM/IRM dry tube replacement, and assembly remain outstanding.

C. Drywell/Steam Tunnel; remaining major work:

Complete work on "B" I/B and both "C" MSIVs.
Re - LLRT all valves.
Remove valve 69-579, machine it, and reweld it in the process pipe.
Reinstall MSRVs.
Rebuild MSRV vacuum breakers.
Changeout recirc. pump shaft seals.
Repair weld DSRHR-2-5A.
Replace RWCU suction pipe.

Replace two electrical penetrations for ECN P0324.
Replace one drywell airlock penetration.
LPRM changeout.
Install TIP tubing.
Complete ECN P0415; feedwater temperature monitors.
Walkdown vessel level instrument sensing lines.
Complete ECN P0284; MSRV accoustic monitors charge converters.
Reinstall SRMs & IRMs which were defective and removed.
Drywell coolers maintenance.
Remove vessel head spray piping.
Inspect jet pump instrument line nozzle drywell penetrations.
Replace interferences removed for ISHI.
Replace valve 73-45.
Analyze and modify MSRV air sensing lines (ECN P0612).
Install high level radiation monitors (ECN P0324).
Complete replacement of valves 3-98 & 3-99.
ILRT & RPV hydro preps.
Replace insulation removed for IHSI.
Hanger Inspections/Repairs.

D. Torus Fill Preps: Remaining identified major work.

Install wide-range level sensing lines (ECN P0323).
Minor work associated with ECN P0093.
Rework narrow-range level sensing lines.
Stroke single-isolation valves from the torus below normal water line for operability.
Install seismic shims.
Install torus snubbers (operability).
Painting touchup.

E. Unit 2 modification by type, by ECN.

MECHANICAL

L1970	EECW Piping	0%
P0083	RHR Seal HX	80%
P0093	Remaining Torus work	90%
P0126	Mech. Supp't for Elec. Mods	0%
P0271	Rem. packing bleed-offs	0%
P0323	Torus level instr.	0%
P0354	Stack monitoring - piping	0%
P0361	Attached piping supports	75%
P0392	CRD - Syst. Mods	70%
P0555	Torus Painting, heatcure	90%
P0569	RPV - Vent valves	70%
P0598	Security Mods	99%
P0611	MSRV - Flg. machining	95%
P0625	Misc. Vent/Drain Supports	0%
P0652	Replace 71-40	0%
P0666	1" RHR by-pass	60%
P0669	Sprinkler system Mods	0%
P0671	Sprinkler system Mods	0%
P0684	Torus Vac. Brkr. Mods	40%
P0697	HVAC Mods - Control Bay	60%
P0651	Replace 73-45	0%
P0724	Rem. RHR HD Spray	0%
P2085	Attach Piping Document	0%
P3002	Replace 43-13	0%
P3043	Modify 64-9/10/40/41/42/43	0%
P3046	Modify 64-139/140/141	0%
P3069	Modify 75-57/58	0%
P3130	Modify 32-62/63	0%
P3134	Modify 64-31/34	0%
P3135	Replace valves on PNL	0%
P3140	Replace 64-31/34	0%
P3148	HVAC Mods	0%
P5016	Rem. Snubber Lugs	50%
P5049	Install Rad Monitor	0%
P5213	Modify 73-24 and 71-32	0%

ECNs COMPLETED

P0157	Cap and Rem. 1" EECW piping
P0612	MSIV - Mods
P0613	MSIV - Mods
P0614	MSIV - Mods
P0646	DSL Generator Mods, U/1-2
P0688	Modify 76 and 84 series valves
P0720	JPI Nozzle

ELECTRICAL

ECN	DESCRIPTION	PERCENT COMPLETE
L1791	Modify control of SJAE	0
P0085	Upgrade drywell temp	70
P0112	Instl Thermal PWR monitor	0
P0126	Analog trip system	60
P0203	Rewire internals of PNL 25-31	100
P0272	Reroute wire for IRME	100
P0284	Upgrade acoustic monitoring sys	0
P0322	Upgrade containment press. sys	80
P0323	Upgrade torus level	80
P0324	Upgrade containment radiation monitor sys	40
P0354	Upgrade off gas monitoring sys	30
P0392	Qualify switches of scram discharge sys	70
P0399	Resolve I&C bus problems	30
P0415	RPV feedwater nozzle temp instr	45
P0417	Remove internal wire in control cab	100
P0418	Replace CRD S/D air header P. S.	0
P0422	RPS circuit protector	0
P0511	Relocate RB emergency light transformer	0
P0532	Replace T/D relay	0
P0533	Upgrade torus temperature sys	90
P0567	Replace diodes	0
P0598	Upgrade control bay doors	100
P0600	Remove clips from recirc MG sets	0
P0631	Move RHRSW inline detectors	0
P0672	Remove wire from panels 25-5A & 6A	100
P0697	Upgrade HVAC system	0
P0706	Replace pwr supplies for ECCS	0
P0707	Replace pwr supplies for RPS	0
P0712	Replace unit preferred transformer	50
P0724	Rem head spray pipe	0
P0737	Replace elect penetration to D. W.	0
P0738	Upgrade access control	99
P0752	Remove static press limiters	0
P0753	HPCI cable separation	0
P0820	Change MCC internal wiring	99
P0828	Add fuses for recirc MG sets	0
P0831	Revise 120/240 VAC emergency tie	0
P0834	Adjust magnet setting of load brkr	0
P0837	Add/replace brkr/ckt of cables	0
P3006	Replace press switches	96
P3019	Replace press switches	96
P3022	Replace press switches	0
P3023	Replace press switches	96
P3025	Replace press switches	96
P3026	Replace press switches	0
P3028	Replace press switches	96

Electrical

ECN	DESCRIPTION	PERCENT COMPLETE
P3040	Replace flow solenoid valves	96
P3051	Replace switches	0
P3053	Replace switches	0
P3058	Replace switches	0
P3061	Replace switches	0
P3064	Relocate pwr supplies	0
P3084	Replace switches	96
P3085	Replace switches	96
P3087	Replace switches	96
P3092	Replace switches	96
P3098	Replace switches	0
P3104	Replace switches	96
P3106	Replace switches	96
P3112	Replace valve components	0
P3113	Replace valve components	0
P3114	Replace valve components	0
P3115	Replace valve components	0
P3116	Replace valve components	0
P3117	Replace valve components	0
P3118	Replace valve components	0
P3138	Replace RHR pmp room cooler	100
P3139	Replace CS pmp room cooler	100
P3142	Add pressure indicators	0
P3145	Provide conduit seals	0
P3148	Qualify SD bd room cooling	0
P5041	Remove instruments used during D. W. leak rate tests	100
P5192	Replace annunciator window in C. R.	100
P5209	Replace annunciator window in C. R.	100
P5210	Replace annunciator window in C. R.	100

TENNESSEE VALLEY AUTHORITY
Browns Ferry Nuclear Plant
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Decatur, Alabama 35602

SEP 17 1985

Nuclear Regulatory Commission
Office of Management Information
and Program Control
Washington, DC 20555

Gentlemen:

Enclosed is the August 1985 Monthly Operating Report to NRC for Browns Ferry Nuclear Plant Units 1, 2, and 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

for Robert L. Lewis
Acting Plant Manager

Enclosures
cc: Director, Region II
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