

TENNESSEE VALLEY AUTHORITY  
POWER & ENGINEERING (NUCLEAR)  
BROWNS FERRY NUCLEAR PLANT

MONTHLY OPERATING REPORT TO NRC  
NOVEMBER 1, 1985 - NOVEMBER 30, 1985

DOCKET NUMBERS 50-259, 50-260, AND 50-296  
LICENSE NUMBERS DPR-33, DPR-52, AND DPR-68

Submitted by: Thomas D. Cosby  
for Acting Plant Manager

B602190164 851130  
PDR ADOCK 05000259  
R PDR

DESIGNATED ORIGINAL  
Certified By MR Beebe 02/10/86

IE24  
0/1

## TABLE OF CONTENTS

Operations Summary . . . . .	1
Refueling Information. . . . .	3
Significant Operational Events . . . . .	5
Average Daily Unit Power Level . . . . .	8
Operating Data Reports . . . . .	11
Unit Shutdowns and Power Reductions. . . . .	14
Plant Maintenance. . . . .	17

1

Operations Summary

NOVEMBER 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 five reportable occurrences and three revisions to previous occurrences reported to NRC during the month of November.

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.

This was prepared principally by B. L. Porter.

Operations Summary (Continued)

NOVEMBER 1985

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 1.02E+06 gallons of waste liquids were discharged containing  
approximately 3.49E-02 curies of activities

Refueling Information

NOVEMBER 1985

Unit 1

Unit 1 was in shutdown for its sixth refueling on June 1, 1985 with a scheduled restart date of March 1989. 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 instrumentation. 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 0 assemblies in the reactor vessel. The spent fuel storage pool presently contains 764 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 June 1, 1986. This refueling outage will involve loading additional 8x8R (retrofit) assemblies into the core, finishing torus modification, turbine inspection, piping inspection, TMI-2 modifications; postaccident sampling facility tie-ins, core spray change-out, and feedwater sparger inspection.

Refueling Information

NOVEMBER 1985

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 HDRs are being installed.

Unit 3

Unit 3 is scheduled for its sixth refueling outage approximately November 30, 1985, with a scheduled restart date of March 1987. 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.

Significant Operational Events

NOVEMBER 1985

Unit 1

11/01	0001	End-of-cycle 6 Refuel outage continues
11/30	2400	End-of-cycle 6 refuel outage continues

Significant Operational Events

NOVEMBER 1985

Unit 2

11/01	0001	End-of-cycle 5 Refuel and modifications outage continues
11/30	2400	End-of-cycle 5 Refuel and modifications outage continues

0058B

Significant Operational Events

NOVEMBER 1985

Unit 3

11/01	0001	The unit has been placed on administrative hold until various TVA and NRC concerns are resolved.
11/30	2400	The unit has been placed on administrative hold until various TVA and NRC concerns are resolved.

0058B

8  
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259  
UNIT Browns Ferry One  
DATE 12-1-85  
COMPLETED BY T. Thom  
TELEPHONE 205/729-2509

MONTH November

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

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

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  
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-260

UNIT Browns Ferry Two

DATE 12-1-85

COMPLETED BY T. Thom

TELEPHONE (205) 729-2509

MONTH November

DAY      AVERAGE DAILY POWER LEVEL  
            (MWe-Net)

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

DAY      AVERAGE DAILY POWER LEVEL  
            (MWe-Net)

17	<u>-6</u>
18	<u>-6</u>
19	<u>-6</u>
20	<u>-6</u>
21	<u>-6</u>
22	<u>-6</u>
23	<u>-6</u>
24	<u>-7</u>
25	<u>-7</u>
26	<u>-7</u>
27	<u>-8</u>
28	<u>-6</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.

## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-296UNIT Browns Ferry ThreeDATE 12-1-85COMPLETED BY T. ThomTELEPHONE 205/729-2509MONTH November

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

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>-8</u>
18	<u>-9</u>
19	<u>-9</u>
20	<u>-9</u>
21	<u>-8</u>
22	<u>-9</u>
23	<u>-8</u>
24	<u>-9</u>
25	<u>-9</u>
26	<u>-8</u>
27	<u>-9</u>
28	<u>-9</u>
29	<u>-9</u>
30	<u>-9</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.

## OPERATING DATA REPORT

DOCKET NO. 50-259  
 DATE 12-1-85  
 COMPLETED BY T. Thom  
 TELEPHONE 205/729-2509

OPERATING STATUS

1. Unit Name: Browns Ferry One  
 2. Reporting Period: November 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	720	8,016	99,416
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)	-5,596	1,546,769	53,760,590
19. Unit Service Factor	0	20.3	58.6
20. Unit Availability Factor	0	20.3	58.6
21. Unit Capacity Factor (Using MDC Net)	0	18.1	50.8
22. Unit Capacity Factor (Using DER Net)	0	18.1	50.8
23. Unit Forced Outage R. %	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):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast

Achieved

## OPERATING DATA REPORT

DOCKET NO. 50-260  
 DATE 12-1-85  
 COMPLETED BY T. Thom  
 TELEPHONE 205/729-2509

OPERATING STATUS

1. Unit Name: Browns Ferry 2  
 2. Reporting Period: November 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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	8,016	94,303
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)	-4,240	-32,150	49,270.823
19. Unit Service Factor	0	0	57.6
20. Unit Availability Factor	0	0	57.6
21. Unit Capacity Factor (Using MDC Net)	0	0	49.1
22. Unit Capacity Factor (Using DER Net)	0	0	49.1
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: June 1986

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 12-1-85  
 COMPLETED BY T. Thom  
 TELEPHONE 205/729-2509

OPERATING STATUS

1. Unit Name: Browns Ferry 3  
 2. Reporting Period: November 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	<u>720</u>	<u>8,016</u>	<u>76,728</u>
12. Number Of Hours Reactor Was Critical	<u>0</u>	<u>1,517.65</u>	<u>45,306.08</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>508.05</u>	<u>5,149.55</u>
14. Hours Generator On-Line	<u>0</u>	<u>1,496.96</u>	<u>44,194.76</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>4,649,840</u>	<u>131,868,267</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1,572,770</u>	<u>43,473,760</u>
18. Net Electrical Energy Generated (MWH)	<u>-6,333</u>	<u>1,472,615</u>	<u>42,138,376</u>
19. Unit Service Factor	<u>0</u>	<u>18.7</u>	<u>57.6</u>
20. Unit Availability Factor	<u>0</u>	<u>18.7</u>	<u>57.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>17.2</u>	<u>51.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>17.2</u>	<u>51.6</u>
23. Unit Forced Outage Rate	<u>100</u>	<u>81.3</u>	<u>26.4</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: March 1987  
 26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast

Achieved

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-259

UNIT NAME One

DATE 12-1-85

COMPLETED BY T. Thom

TELEPHONE 205/729-2509

REPORT MONTH November

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
315 (Cont)	11/1/85	S	720	C	2				End of Cycle 5 Refuel Outage Continued

<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  
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 (LER) File (NUREG-0161)

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

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-260  
 UNIT NAME Browns Ferry Two  
 DATE 12-1-85  
 COMPLETED BY T. Thom  
 TELEPHONE 205/729-2509

REPORT MONTH November

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
305 (cont)	11/1/85	S	720	C	4				EOC-5 Refuel Outage (Controlled Shutdown 9/15/84)

<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  
 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 (LER) File (NUREG-0161)

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

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH November

DOCKET NO. 50-296  
 UNIT NAME Browns Ferry Three  
 DATE 12-1-85  
 COMPLETED BY T. Thom  
 TELEPHONE 205/729-2509

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
156 (Cont)	11/1/85	F	720	F	2				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

CSSC EQUIPMENT

## ELECTRICAL MAINTENANCE SUMMARY

For the Month of November 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 4/18	RHRSW	D RHRSW strainer motor	Replace motor bearings	None	Bad bearings in strainer motor	Strainer not rotating properly	Replaced motor bearing MR 182481
10/30	High pressure fire protection	BKR-26-2 fire pump 'B' breaker	Performing EMI 7	None	Worn parts on breaker	Breaker not operating properly	Replaced primary disconnect fingers on breaker stabs MR 569756
11/1	High pressure fire protection	PMP-26-2 fire pump 'B'	Troubleshoot motor heaters	None	Bad motor heaters	Motor shut off	Replaced motor heaters MR 569937
11/5	4-kV shutdown bds & busses	C-phase ammeter on ACB-1614	Performing SI 4.A.4	None	Broken suspension on ammeter	Ammeter not indicating	Replaced ammeter MR 556047
11/17	Standby diesel generator	GOV-82-D 1D DG governor	Performing SI 4.9.A.1.d	None	Out of adjustment	DG idle speed did not meet criteria. Speed was 421 RPMs; should have been 450 RPMs	Adjust idle speed to 450 RPMs. MR 569710
11/19	4-kV shutdown board & busses	4-kV shutdown board A transfer switch	Performing SI 4.9.A.2.c battery discharge test	None	Wire swapped on transfer switch	Could not transfer 4-kV shutdown board A 250VDC to alternate feed	Swapped wires on transfer switch MR 590139
11/25	Diesel 125 VDC system	BATB-254-D diesel generator D batteries	Performing SI 4.9.A.2.a	None	Improper voltage adjustment	Overall voltage did not meet criteria of SI	Adjusted battery chargers A & B float & equalize voltages. MR 569973

CSSC EQUIPMENT

## ELECTRICAL MAINTENANCE SUMMARY

For the Month of November 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 11/17	Diesel generator	RPM meter on ID DG	Troubleshoot RPM meter	None	Unknown	Meter not indicating properly	Adjusted & cleaned meter MR 583356

CSSC EQUIPMENT

## ELECTRICAL MAINTENANCE SUMMARY

For the Month of November 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 11/9	Reactor building ventilation	FCO-64-43 Rx zone exhaust duct outboard isolation damper	Troubleshoot limit switch	None	Limit switch out of adjustment	Improper indication in open and closed positions	Adjusted limit switch MR 588245

CSSC EQUIPMENT

## ELECTRICAL MAINTENANCE SUMMARY

For the Month of November 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
7/15	Diesel generator	RLY-82-C/SFB1 DG 3C start failure backup relay SFB1	DG redundant start test	None	Defective circuit in time delay relay SFB1	Timing was too slow	Replaced relay MR 641714
8/12	Fire protection	Fire protection JB 5662 cabinet	Replace amp meter on cabinet of JB 5662	None	Amp meter broken	Meter did not work; about to fall from cabinet	Replaced meter MR 572401

CSSC EQUIPMENT

## MECHANICAL MAINTENANCE SUMMARY

For the Month of November 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
11/15	23	D1 RHRSW Pump	Replace Strainer Basket	None	Age & Use	N/A	Replaced Strainer Basket.
11/15	23	D2 RHRSW Pump	Replace Strainer Basket	None	Age & Use	N/A	Replaced Strainer Basket.

CSSC EQUIPMENT

MECHANICAL MAINTENANCE SUMMARY

For the Month of November 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
11/12	64	Damper 64-12A	Repair Damper Operator	None	Unknown	N/A	Adjusted regulator to insure proper opening & closing of dampers.
11/11	64	1B RX Zone Exhaust Fan Damper	Check damper and repair	None	Possible inside of fan housing causing damper not to close.	N/A	Damper yoke was adjusted. No adjustment left on threads.
11/1	74	FCV-1-74-58	Hand wheel will not engage.	None	Age & Use	N/A	Tightened Declutch lever, replaced key in handle & replaced gasket on handwheel.
11/11	64	Exhaust fan FCO-64-12A outlet damper	Dampers do not close properly - B fan runs backward when A fan is in service.	None	Operator not closing fully causing A fan to back peddle	N/A	Checked damper and linkage - dampers are free.

CSSC EQUIPMENT

MECHANICAL MAINTENANCE SUMMARY

For the Month of November 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
11/1	71	2-FCV-71-34 Limitorque Operator	Check oper. worm gear for wear		Routine or preventative maintenance		Operator was disassembled and checked for wear. No wear found. Reassembled.
11/1	74	2-FCV-74-58	Perform QMDS maintenance		Age & Use		Machinist inspected gear. Filters cleaned and lubri- cated stem.
11/12	75	Corespray testable check valve	Inspect actuator for leakage.		Age & Use		Tightened tubes and connections per BF 6.1.
11/12	23	RHR HCH Tube vent "A"	Valve leaks through		Age & Use		Replaced gasket & laped valve seat.

BROWNS FERRY NUCLEAR PLANT UNIT 3CSSC EQUIPMENT

## MECHANICAL MAINTENANCE SUMMARY

For the Month of November 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
	268	3EN LPCI	Replace bearing on flywheel.		Material failure		New bearing and flywheel installed.
11/14	63	SLC Accumula- tor "B"	SLC accumulator "B" was found to be 800 PSIG		Age & Use		Charged "B" accumulator to 980 PSIG
11/19	86	#2 air comp. on 3C D/G	Replace head gasket on HP side.		Age & Use		Replaced bea gaskets on air compressor
11/1	70	Valve	Investigate leakage of water around valve.		Age & Use		Replaced packing.