TENNESSEE VALLEY AUTHORITY DIVISION OF NUCLEAR POWER BROWNS FERRY NUCLEAR PLANT

MONTHLY OPERATING REPORT TO NRC July 1, 1984 - July 31, 1984

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

Submitted by: Of Toundal!

Submitted by: Plant Manager

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#### Operations Summary

July 1984

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 no revisions to previous reportable occurrences reported to the NRC during the month of July.

#### Unit 1

There were no scrams on the unit during the month.

Unit 2

There were no scrams on the unit during the month.

Unit 3

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

Prepared principally by B. L. Porter.

# Operations Summary (Continued) July 1984

#### Fatigue Usage Evaluation

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

| Location            |         | Usage Facto | r       |
|---------------------|---------|-------------|---------|
|                     | Unit 1  | Unit 2      | Unit 3  |
| Shell at water line | 0.00609 | 0.00490     | 0.00403 |
| Feedwater nozzle    | 0.29185 | 0.21223     | 0.15429 |
| Closure studs       | 0.23676 | 0.17302     | 0.13233 |

NOTE:

This accumulated monthly information satisfies Technical

Specification Section 6.6.A.17.B(3) reporting requirements.

#### Common System

Approximately 6.82E+05 gallons of waste liquids were discharged containing approximately 7.47E-01 curies of activities.

# Operations Summary (Continued) July 1984

#### Refueling Information

#### Unit 1

Unit 1 is scheduled for its sixth refueling beginning on or about March 22, 1985 with a scheduled restart date of October 8, 1985. 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.

There are 764 fuel assemblies in the reactor vessel. The spent fuel storage pool presently contains 252 EOC-5 fuel assemblies, 260 EOC-4 fuel assemblies; 232 EOC-3 fuel assemblies; 156 EOC-2 fuel assemblies; and 168 EOC-1 fuel assemblies. The present fuel pool capacity is 3,471 locations.

Unit 2 is scheduled for its fifth refueling beginning on or about September 14, 1984 with a scheduled restart date of January 31, 1985. This refueling outage will involve loading additional 8X8R (retrofit) fuel assemblies into the core, finishing the torus modification, turbine inspection, finishing piping inspection, finishing TMI-2 modifications; post-accident sampling facility tie-ins, core spray change-out, and feedwater sparger inspection.

There are 764 fuel assemblies in the reactor vessel. At the end of the month there were 248 EOC-4 fuel assemblies, 352 EOC-3 fuel assemblies, 156 EOC-2 fuel assemblies, and 132 EOC-1 fuel assemblies in the spent fuel storage pool. The present available capacity of the spent fuel pool is 61 locations. All old racks have been removed from the pool and new HDR's are being installed.

# Operations Summary (Continued) July 1984

#### Unit 3

Unit 3 shutdown for its fifth refueling outage on September 7, 1983, with a scheduled restart date of September 1, 1984. This refueling involves loading 8X8R (retrofit) assemblies into the core, finishing the torus modifications, postaccident sampling facility tie-in, core spray change-out, finishing TMI-2 modifications, turbine inspection, piping inspections for cracks, and changeout of jet pump hold-down beams.

There are 0 fuel assemblies presently in the reactor vessel. There are 248 new fuel assemblies, 764 EOC-5 fuel assemblies, 280 EOC-4 fuel assemblies, 124 EOC-3 fuel assemblies, 144 EOC-2 fuel assemblies, and 208 EOC-1 fuel assemblies in the spent fuel storage pool. The present available capacity of the spent fuel pool is 150 locations.

| Date | Time | Event  |
|------|------|--|
|      |      | Unit 1   |
| 7/01 | 0001 | Reactor thermal power at 86-percent (%), power ascension in progress                       |
|      | 0030 | Commenced PCIOMR from 86%, thermal power   |
|      | 1230 | Reactor thermal power at 91%, maximum flow, rod limited                                    |
|      | 1600 | Reactor thermal power at 90%, maximum flow, rod limited                                    |
|      | 1900 | Reactor thermal power at 89%, maximum flow rod limited                                     |
|      | 2100 | Reactor thermal power at 88%, maximum flow rod limited                                     |
| 7/02 | 0100 | Reactor thermal power at 87%, maximum flow rod limited                                     |
|      | 1000 | Reactor thermal power at 86%, maximum flow rod limited                                     |
| 7/03 | 2340 | Commenced reducing thermal power for control rod pattern adjustment.                       |
|      | 2400 | Reactor thermal power at 76% for control rod pattern adjustment, increasing thermal power. |
| 7/04 | 0425 | Commenced power ascension from 86% thermal power.  |
|      | 0530 | Commenced PCIOMR from 91% thermal power.   |
|      | 1605 | Reactor thermal power at 100%, maximum flow, rod limited.                                  |
| 7/07 | 0200 | Commenced reducing thermal power for turbine control valve test and SI's.                  |
|      | 0210 | Reactor thermal power at 93% for turbine control valve test and SI's.                      |
|      | 0340 | Turbine control valve test and SI's complete, commenced PCIOMR.                            |
|      | 0730 | Reactor thermal power at 100%, maximum flow, rod limited.                                  |
| 7/13 | 2200 | Commenced reducing thermal power for a control rod sequence exchange.                      |
| 7/14 | 0200 | Reactor thermal power at 55% for control rod sequence exchange.                            |
|      | 0515 | Control rod sequence exchange in progress, increasing thermal power.                       |
|      | 1011 | Control rod sequence exchange complete, commenced power ascension from 64% thermal power.  |
|      | 1100 | Commenced PCIOMR from 71% thermal power.   |
|      | 1310 | "R" factor out-of-limits, reduced thermal power from 749 to 73%.                           |
|      | 1700 | "R" factor back in limits, commenced PCIOMR from 73% power.                                |

| Date | Time | Event  |
|------|------|--|
|      |      | Unit 1 (Continued)   |
| 7/15 | 2130 | Reactor thermal power at 100%, maximum flow, rod limited.                                  |
|      | 0215 | Commenced reducing thermal power at request of load dispatcher.                            |
|      | 0230 | Reactor thermal power at 90% at request of load dispatcher.                                |
|      | 0240 | Commenced power ascension at request of load dispatcher.                                   |
|      | 0500 | Reactor thermal power at 100%, maximum flow, rod limited.                                  |
| 7/19 | 0215 | Commenced reducing thermal power at request of load dispatcher.                            |
|      | 0230 | Reactor thermal power at 90% at request of load dispatcher.                                |
|      | 0240 | Commenced power ascension at request of load dispatcher.                                   |
|      | 0500 | Reactor thermal power at 100%, maximum flow, rod limited.                                  |
| 7/21 | 2227 | Commenced reducing thermal power for control rod pattern adjustment.                       |
| 7/22 | 0100 | Reactor thermal power at 79% for control rod pattern adjustment, increasing thermal power. |
|      | 0255 | Control rod pattern adjustment complete, commenced power ascension from 85% thermal power. |
|      | 0430 | Commenced PCIOMR from 86% thermal power.   |
|      | 1730 | Reactor thermal power at 100%, maximum flow, rod limited.                                  |
| 7/28 | 0030 | Commenced reducing thermal power for turbine control valve test and SI's.                  |
|      | 0050 | Reactor thermal power at 94% for turbine control valve test and SI's.                      |
|      | 0303 | Turbine control valve test and SI's complete, commenced power ascension.                   |
|      | 0700 | Reactor thermal power at 100%, maximum flow, rod limited.                                  |
| 7/30 | 1630 | Commenced reducing thermal power due to condensate demineralizer problems.                 |
|      | 1800 | Reactor thermal power at 90%, condensate demineralizer limited.                            |

| Date | Time                 | Event  |
|------|----------------------|--|
|      |                      | Unit 1 (Continued)   |
| 7/30 | 1945<br>1955<br>2230 | Commenced power ascension from 90% the mal power. Commenced PCIOMR from 96% thermal power. Reactor thermal power at 100%, maximum flow, rod limited. |
| 7/31 | 2400                 | Reactor thermal power at 100%, maximum flow, rod limited.  |

| Date | Time                                 | Event   |
|------|--------------------------------------|---|
|      |                                      | Unit 2  |
| 7/01 | 0001                                 | Reactor thermal power at 59% to extend fuel cycle, and administrative hold because all ADS valve cables are routed through the same cable tray.   |
| 7/03 | 2300                                 | Reactor thermal power at 60% to extend fuel cycle and administrative hold.  |
| 7/06 | 2300                                 | Reactor thermal power at 61% to extend fuel cycle and administrative hold.  |
| 7/08 | 0200                                 | Reactor thermal power at 60% to extend fuel cycle and administrative hold.  |
| 7/12 | 2200<br>2400                         | Commenced reducing thermal power to extend fuel cycle. Reactor thermal power at 55% to extend fuel cycle.   |
| 7/14 | 1600                                 | Reactor thermal power at 56% to extend fuel cycle.  |
| 7/16 | 0525<br>0600<br>1400<br>1900<br>2100 | Increasing thermal power from 56%. Reactor thermal power at 61% to extend fuel cycle and administrative hold (ADS valve control cables). Reactor thermal power at 60% to extend fuel cycle and administrative hold. Reducing thermal power to extend fuel cycle. Reactor thermal power at 53% to extend fuel cycle. |
| 7/17 | 1315<br>1600<br>1730<br>2100         | Commenced power ascension from 53%. Reactor thermal power at 61% to extend fuel cycle and administrative hold. Reducing thermal power from 61%. Reactor thermal power at 51% to extend fuel cycle.  |
| 7/18 | 1025<br>1100<br>1800<br>2100         | Commenced power ascension from 51% thermal power. Rector thermal power at 60% to extend fuel cycle and administrative hold. Commenced reducing thermal power to extend fuel cycle. Reactor thermal power at 51% to extend fuel cycle.   |
| 7/19 | 1230<br>1300                         | Increasing thermal power from 51%. Reactor thermal power at 53% to extend fuel cycle.   |

| Date | Time         | Event  |
|------|--------------|--|
|      |              | Unit 2 (Continued)   |
| 7/21 | 1215<br>1500 | Commenced power ascension from 53% thermal power. Reactor thermal power at 61% to extend fuel cycle and administrative hold. |
|      | 2000         | Reactor thermal power at 60% to extend fuel cycle and administrative hold.   |
| 7/22 | 1300         | Reactor thermal power at 59% to extend fuel cycle and administrative hold.   |
| 7/23 | 0700         | Reactor thermal power at 60% to extend fuel cycle and administrative hold.   |
|      | 0900         | Commenced power ascension from 60% thermal power (administrative hold lifted).   |
|      | 1300         | Reactor thermal power at 75%, maximum flow, rod limited.   |
|      | 1700         | Reactor thermal power at 75%, maximum flow, rod limited.   |
|      | 2100         | Reactor thermal power at 73%, maximum flow, rod limited.   |
| 7/24 | 0100         | Reactor thermal power at 72%, maximum flow, rod limited.   |
|      | 0700         | Reactor thermal power at 71%, maximum flow, rod limited.   |
|      | 1800         | Reactor thermal power at 70%, maximum flow, rod limited.   |
| 7/28 | 2300         | Reactor thermal power at 69%, maximum flow, rod limited.   |
| 7/31 | 2400         | Reactor thermal power at 69%, maximum flow, rod limited.   |

| Date | Time | Event                                   |
|------|------|---|
|      |      | Unit 3                                  |
| 7/1  | 0001 | End-of-cycle 5 refuel outage continues. |
| 7/31 | 2400 | End-of-cycle 5 refuel outage continues. |

## AVERAGE DAILY UNIT POWER LEVEL

| DOCKET NO.   | 50-259        |
|--------------|---------------|
| UNIT         | One           |
| DATE         | 8/1/84        |
| COMPLETED BY | Ted Thom      |
| TELEPHONE    | (205)729-0834 |

| AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-------------------------------------|-----|-------------------------------------|
| 907                                 | 17  | 1046                                |
| 836                                 | 18  | 1049                                |
| 871                                 | 19  | 1047                                |
| 975                                 | 20  | 1046                                |
| 1017                                | 21  | 1026                                |
| 1018                                | 22  | 969                                 |
| 1028                                | 23  | 1046                                |
| 1048                                | 24  | 1046                                |
| 1034                                | 25  | 1043                                |
| 1043                                | 26  | 1041                                |
| 1045                                | 27  | 1056                                |
| 1040                                | 28  | 1036                                |
| 1018                                | 29  | 1048                                |
| 685                                 | 30  | 1034                                |
| 955                                 | 31  | 1048                                |
| 1041                                |     |                                     |

### 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.

#### 12 AVERAGE DAILY UNIT POWER LEVEL

| DOCKET NO.   | 50-260        |
|--------------|---------------|
| UNIT         | Two           |
| DATE         | 8/1/84        |
| COMPLETED BY | Ted Thom      |
| TELEPHONE    | (205)729-0834 |

| AVERAGE DAILY POWER LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|--|-----|-------------------------------------|
| 585                                    | 17  | 510                                 |
| 582                                    | 18  | 521                                 |
| 571                                    | 19  | 492                                 |
| 590                                    | 20  | 497                                 |
| 578                                    | 21  | 534                                 |
| 574                                    | 22  | 578                                 |
| 589                                    | 23  | 682                                 |
| 593                                    | 24  | 709                                 |
| 585                                    | 25  | 694                                 |
| 584                                    | 26  | 694                                 |
| 585                                    | 27  | 731                                 |
| 583                                    | 28  | 701                                 |
| 582                                    | 29  | 702                                 |
| 530                                    | 30  | 698                                 |
| 533                                    | 31  | 687                                 |
| 556                                    |     |                                     |

#### 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 Three

8/1/84

Ted Thom

TELEPHONE (205)729-0834

| AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-------------------------------------|-----|-------------------------------------|
| -5                                  | 17  |                                     |
| -5                                  | 18  | -5                                  |
| -5                                  | 19  | -6                                  |
| -5                                  | 20  | -8                                  |
| -5                                  | 21  | -7                                  |
| -5                                  | 22  | -7                                  |
| -5                                  | 23  | -7                                  |
| -5                                  |     | -7                                  |
| -5                                  | 24  | -7                                  |
| -6                                  | 25  | -7                                  |
|                                     | 26  |                                     |
| -4                                  | 27  | -6                                  |
|                                     | 28  | -7                                  |
| -5                                  | 29  | -7                                  |
| -5                                  | 30  | -8                                  |
| -5                                  | 31  | -7                                  |

#### 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 8-1-84

COMPLETED BY TELEPHONE (205)729-0834

| OPERATING STATUS   |                         |                       |             |  |  |  |
|--|-------------------------|-----------------------|-------------|--|--|--|
| I. Unit Name: Browns Ferry - One   | Notes                   |                       |             |  |  |  |
| 2. Reporting Period:July 1984  |                         |                       |             |  |  |  |
| 3. Licensed Thermal Power (MWt): 3293  |                         |                       |             |  |  |  |
| 4. Nameplate Rating (Gross MWe): 1152  |                         |                       |             |  |  |  |
| 5. Design Electrical Rating (Net MWe):10   | 065                     |                       |             |  |  |  |
| 6. Maximum Dependable Capacity (Gross MW)  |                         |                       |             |  |  |  |
| 7. Maximum Dependable Capacity (Net MWe)   |                         |                       |             |  |  |  |
| 8. If Changes Occur in Capacity Ratings (Items   |                         | Samuel Charles        |             |  |  |  |
| The capacity ratings (items  | N/A                     | mee tast Report, Give | Reasons:    |  |  |  |
| 9. Power Level To Which Restricted, If Any (N  | Net MWet: N/A           |                       |             |  |  |  |
| ). Reasons For Restrictions, If Any:   | N/A                     |                       |             |  |  |  |
| Total Control of the  | **/ **                  |                       |             |  |  |  |
|  |                         |                       |             |  |  |  |
|  | The March               |                       |             |  |  |  |
|  | This Month              | Yrto-Date             | Cumulative  |  |  |  |
| . Hours In Reporting Period  | 744                     | 5,111                 | 87,673      |  |  |  |
| Number Of Hours Reactor Was Critical   | 744                     | 4,629.10              | 54,435.22   |  |  |  |
| Reactor Reserve Shutdown Hours   | 0                       | 465.58                | 6,250.60    |  |  |  |
| . Hours Generator On-Line  | 744                     | 4,508.95              | 53,226.59   |  |  |  |
| Unit Reserve Shutdown Hours  | 0                       | 0                     | 0           |  |  |  |
| Gross Thermal Energy Generated (MWH)   | 2,383,044               | 13,799,488            | 152,357,167 |  |  |  |
| Gross Electrical Energy Generated (MWH)  | 768,640                 | 4,556,830             | 50,202,450  |  |  |  |
| Net Electrical Energy Generated (MWH)  | 748,596                 | 4,437,358             | 48,762,685  |  |  |  |
| Unit Service Factor  | 100                     | 88.2                  | 60.7        |  |  |  |
| Unit Availability Factor   | 100                     | 88.2                  | 60.7        |  |  |  |
| Unit Capacity Factor (Using MDC Net)   | 94.5                    | 81.5                  | 52.2        |  |  |  |
| Unit Capacity Factor (Using DER Net)   | 94.5                    | 81.5                  | 52.2        |  |  |  |
| Unit Forced Outage Rate  | 0                       | 11.2                  | 22.9        |  |  |  |
| Shutdowns Scheduled Over Next 6 Months (   | Type Date and Duration  | of Each t             | -           |  |  |  |
|  | , personal and tourning | i de Laciri.          |             |  |  |  |
| State of the state |                         |                       |             |  |  |  |
|  |                         |                       |             |  |  |  |
| If Shut Down At End Of Report Period. Esti   | mated Date of Startun:  |                       |             |  |  |  |
| Units In Test Status (Prior to Commercial Or   |                         | 4 4 4 4               |             |  |  |  |
|  | peration):              | Forecast              | Achieved    |  |  |  |
|  | peration):              | Forecast              | Achieved    |  |  |  |
| INITIAL CRITICALITY INITIAL ELECTRICITY  | peration):              | Forecast              | Achieved    |  |  |  |

#### OPERATING DATA REPORT

DOCKET NO. 50-260

DATE 8-1-84

TELEPHONE (205)729-0834

| OPERATING STATUS  |                           |                      |                |  |  |  |  |  |  |  |  |
|---|---------------------------|----------------------|----------------|--|--|--|--|--|--|--|--|
| OF ENTITION STATES  |                           |                      |                |  |  |  |  |  |  |  |  |
| 1. Unit Name: Browns Ferry - T  | wo                        | - Notes              |                |  |  |  |  |  |  |  |  |
| 2. Reporting Period: July 1984  |                           |                      |                |  |  |  |  |  |  |  |  |
| 3. Licensed Thermal Power (MWt): 3293   |                           |                      |                |  |  |  |  |  |  |  |  |
| 4. Nameplate Rating (Gross MWe): 1152   |                           |                      |                |  |  |  |  |  |  |  |  |
| 5. Design Electrical Rating (Net MWe):  | 1065                      |                      |                |  |  |  |  |  |  |  |  |
| 6. Maximum Dependable Capacity (Gross M   | We): 1098.4               |                      |                |  |  |  |  |  |  |  |  |
| 7. Maximum Dependable Capacity (Net MW  | e): 1065                  |                      |                |  |  |  |  |  |  |  |  |
| 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reason   |                           |                      |                |  |  |  |  |  |  |  |  |
|   | N/A                       |                      |                |  |  |  |  |  |  |  |  |
|   |                           |                      |                |  |  |  |  |  |  |  |  |
|   |                           |                      |                |  |  |  |  |  |  |  |  |
| 9. Power Level To Which Restricted, If Any  | (Net MWe): 60%            | And District Control |                |  |  |  |  |  |  |  |  |
| 10. Reasons For Restrictions, If Any: A1  |                           | surization syste     | m relief valve |  |  |  |  |  |  |  |  |
|   | bles are routed th        |                      |                |  |  |  |  |  |  |  |  |
|   |                           |                      |                |  |  |  |  |  |  |  |  |
|   |                           |                      |                |  |  |  |  |  |  |  |  |
|   | This Month                | Yrto-Date            | Cumulative     |  |  |  |  |  |  |  |  |
|   |                           | Tr. to bate          |                |  |  |  |  |  |  |  |  |
| 11. Hours In Reporting Period   | 744                       | 5,111                | 82,614         |  |  |  |  |  |  |  |  |
| 12. Number Of Hours Reactor Was Critical  | 744                       | 4,810.92             | 54,775.10      |  |  |  |  |  |  |  |  |
| 13. Reactor Reserve Shutdown Hours  | 0                         | 300.08               | 14,200.44      |  |  |  |  |  |  |  |  |
| 14. Hours Generator On-Line   | 744                       | 4,760.59             | 53,253.43      |  |  |  |  |  |  |  |  |
| 15. Unit Reserve Shutdown Hours   | 0                         | 0                    | 0              |  |  |  |  |  |  |  |  |
| 16. Gross Thermal Energy Generated (MWH)  | 1,508,141                 | 10,834,215           | 150,979,260    |  |  |  |  |  |  |  |  |
| 7. Gross Electrical Energy Generated (MWH)  | 463,030                   | 3,465,920            | 50, 63,208     |  |  |  |  |  |  |  |  |
| 8. Net Electrical Energy Generated (MWH)  | 447,449                   | 3,366,978            | 48. 25,581     |  |  |  |  |  |  |  |  |
| 9. Unit Service Factor  | 100                       | 93.1                 | 6 .5           |  |  |  |  |  |  |  |  |
| 0. Unit Availability Factor   | 100                       | 93.1                 | 6+.5           |  |  |  |  |  |  |  |  |
| 1. Unit Capacity Factor (Using MDC Net)   | 56.5                      | 61.9                 | 55.3           |  |  |  |  |  |  |  |  |
| 2. Unit Capacity Factor (Using DER Net)   | 56.5                      | 61.9                 | 55.3           |  |  |  |  |  |  |  |  |
| 3. Unit Forced Outage Rate  | 0                         | 5.0                  | 23.3           |  |  |  |  |  |  |  |  |
| 4. Shutdowns Scheduled Over Next 6 Month  | s (Type Date and Duration | -                    |                |  |  |  |  |  |  |  |  |
| The state of the state of the state of |                           |                      |                |  |  |  |  |  |  |  |  |
|   | September 19              | 84 - refuel          |                |  |  |  |  |  |  |  |  |
|   |                           |                      |                |  |  |  |  |  |  |  |  |
| S If Shot Down At Earl Of Down Book A   | ations and Date of Proper |                      |                |  |  |  |  |  |  |  |  |
| 15 If Shut Down At End Of Report Period, E  |                           |                      |                |  |  |  |  |  |  |  |  |
| 6. Units In Test Status (Prior to Commercial  | Operation):               | Forecast             | Achieved       |  |  |  |  |  |  |  |  |
| WATER COURSE OF   |                           |                      |                |  |  |  |  |  |  |  |  |
| INITIAL CRITICALITY   |                           | -                    | ***********    |  |  |  |  |  |  |  |  |
| INITIAL ELECTRICITY   | )                         |                      |                |  |  |  |  |  |  |  |  |

COMMERCIAL OPERATION

#### OPERATING DATA REPORT

DOCKET NO. 50-296

DATE 8-1-84

COMPLETED BY Ted Thom
TELEPHONE (205)729-0834

| OPERATING STATUS  |                             |   |  |  |  |  |
|---|-----------------------------|---|--|--|--|--|
| 1. Unit Name:Browns Ferry - Ti  | hree                        | Notes   |  |  |  |  |
| 2. Reporting Period:July 1984   |                             |   |  |  |  |  |
| 3. Licensed Thermal Power (MWt): 32   |                             |   |  |  |  |  |
| 4. Nameplate Rating (Gross MWe): 11   |                             |   |  |  |  |  |
|   | 1065                        |   |  |  |  |  |
| 6. Maximum Dependable Capacity (Gross M                                       | Wer:1098.4                  |   |  |  |  |  |
| 7. Maximum Dependable Capacity (Net MW  |                             |   |  |  |  |  |
| 8. If Changes Occur in Capacity Ratings (Ite                                  | A J .                       | ings Last Bannet Circ.  | 0  |  |  |  |
|   | N/A                         | mice tast Report, Give i  | xeasons:   |  |  |  |
|   |                             |   |  |  |  |  |
| O Property and To Which to select the   | N/A                         |   | 34 15  |  |  |  |
| Power Level To Which Restricted, If Any     Reasons For Restrictions, If Any: | (Net MWe): N/A              |   |  |  |  |  |
| o. Reasons For Restrictions, II Any:  | 11/71                       |   |  |  |  |  |
|   |                             |   |  |  |  |  |
|   |                             |   |  |  |  |  |
|   | This Month                  | Yrto-Date   | Cumulative   |  |  |  |
| 1. Hours In Reporting Period  | 744                         | 5,111   | 65,039   |  |  |  |
| 2. Number Of Hours Reactor Was Critical                                       | 0                           | 0   | 43,087.80  |  |  |  |
| 3. Reactor Reserve Shutdown Hours   | 0                           | 0   | 3,878.13   |  |  |  |
| 4. Hours Generator On Line  | 0                           | 0   | 42,193.71  |  |  |  |
| 5. Unit Reserve Shutdown Hours  | 0                           | 0   | 0  |  |  |  |
| 6. Gross Thermal Energy Generated (MWH)                                       |                             | 0   | 126,307,71   |  |  |  |
| 7. Gross Electrical Energy Generated (MWH)                                    | 0                           | 0   | 41,597,620   |  |  |  |
| 8. Net Electrical Energy Generated (MWH)                                      | 0                           | 0   | 40,375,256   |  |  |  |
| 9. Unit Service Factor  | 0                           | 0   | 64.9   |  |  |  |
| 0. Unit Availability Factor   | 0                           | 0   | 64.9   |  |  |  |
| 1. Unit Capacity Factor (Using MDC Net)                                       | 0                           | 0   | 58.3   |  |  |  |
| 2. Unit Capacity Factor (Using DER Net)                                       | 0                           | 0   | 58.3   |  |  |  |
| 3. Unit Forced Outage Rate  | 0                           | Ō   | 16.4   |  |  |  |
| 4. Shutdowns Scheduled Over Next 6 Month                                      | s (Type, Date, and Duration | n of Each):   | Surgery Spice  |  |  |  |
|   |                             |   |  |  |  |  |
|   |                             |   |  |  |  |  |
|   |                             | 1001  |  |  |  |  |
| 5. If Shut Down At End Of Report Period, E                                    | stimated Date of Startup:   | August 1984   |  |  |  |  |
| 6. Units In Test Status (Prior to Commercial                                  | Operation)                  | Forecast  | Achieved   |  |  |  |
| INITIAL CRITICALITY   |                             |   |  |  |  |  |
| INITIAL ELECTRICITY   |                             | With the Park Street, | -  |  |  |  |
| COMMERCIAL OPERA  |                             | Territoria de la constanta de | William Annual A |  |  |  |

#### UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-259

UNIT NAME One
DATE 8/1/84

COMPLETED BY Ted Thom (205) 729-0834

#### REPORT MONTH July 1984

| No. | Date    | Typel | Duration<br>(Hours) | Reason | Method of<br>Shutting<br>Down Reactors | Licensee<br>Event<br>Report = | System<br>Code4 | Component<br>Code5 | Cause & Corrective Action to Prevent Recurrence |
|-----|---------|-------|---------------------|--------|--|-------------------------------|-----------------|--------------------|---|
| 288 | 7/13/84 | S     |                     | Н      |  |                               |                 |                    | Derated for control rod sequence exchange       |

F: Forced S: Scheduled

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)

Method: !-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 (NURLG-0161)

5

Exhibit 1 - Same Source

(9/77)

DOCKET NO.

50-260

#### UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1984

| No. | Date    | Type1 | Doration | Reason? | Method of<br>Shart 2<br>Down Reactor 3 | Licensee<br>Event<br>Report = | System<br>Code4 | Component<br>Code5 | Cause & Corrective Action to Prevent Recurrence  |
|-----|---------|-------|----------|---------|--|-------------------------------|-----------------|--------------------|--|
| 296 | 7/1/84  | S     |          | Н       |  |                               |                 |                    | Derated to extend fuel cycle and administrative hold because all ADS relivative cables are routed through the same cable tray. |
| 297 | 7/13/84 | S     |          | H       |  |                               |                 |                    | Derated to extend fuel cycle.  |
| 298 | 7/16/84 | S     |          | H       | 0.70                                   |                               |                 |                    | Same as 296.   |
| 299 | 7/16/84 | S     |          | H       |  |                               |                 |                    | Same as 297  |
| 300 | 7/17/84 | S     |          | Н       |  |                               |                 |                    | Same as 296  |
| 301 | 7/17/84 | S     |          | Н       |  |                               |                 |                    | Same as 297  |
| 302 | 7/18/84 | S     |          | Н       |  |                               |                 |                    | Same as 296  |
| 303 | 7/18/84 | S     |          | Н       |  |                               |                 |                    | Same as 297  |
| 304 | 7/21/84 | S     |          | Н       |  |                               |                 |                    | Same as 296  |

F: Forced S: Scheduled

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)

Method:

!-Manual

2-Manual Scram.

3-Automatic Scram.

4-Other (Explain)

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

Exhibit I - Same Source

(9/77)

50-296 DOCKET NO. Three UNIT NAME 8/1/84 DATE Ted Thom (205)729-0834 COMPLETED BY TELEPHONE

REPORT MONTH July 1984

| No. | Date    | Type1 | Duration<br>(Hours) | Reason | Method of<br>Shutting<br>Down Reactor 3 | Licensee<br>Event<br>Report = | System<br>Code4 | Component<br>Code5 | Cause & Corrective Action to Prevent Recurrence                     |
|-----|---------|-------|---------------------|--------|---|-------------------------------|-----------------|--------------------|---|
| 140 | 7,'1/84 | S     | 744                 | С      | 4                                       |                               |                 |                    | End-of-cycle 5 refuel outage continues (Controlled shutdown 9/7/83) |

F: Forced S: Scheduled

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)

Method: !-Manual

2-Manual Scram.

3-Automatic Scrain.

4-Other (Explain)

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NURLG-01611

Exhibit I - Same Source

(9/77)

BF EMSIL 30 Appendix B

9/29/82

CSSC EQUIPMENT

ELECTRICAL MAINTENANCE SUMMARY

For the Month of July 19 84

| Date<br>1984 | System   | Component             | Nature of<br>Maintenance                                 | Effect on Safe<br>Operation of<br>The Reactor | Cause of<br>Malfunction                     | Results of<br>Malfunction   | Action taken To Preclude Recurrence                      |
|--------------|--|-----------------------|--|---|---|---|--|
| 6/11         | Standby<br>Diesel<br>Generator                   | O-RLY-82-NVR          | Replaced NVR<br>relay                                    | None  | Vendor recom-<br>mendation                  | Possible inoperability<br>of diesel generator A<br>loss of voltage alarm              | Installed new model<br>NVR relay.<br>MR # 254813         |
| 6/27         | 4kV shut-<br>down board<br>and buses             | 0-BDAA-211-A          | Replace test<br>trip and close<br>station                | None  | Bad trip and<br>close station<br>pushbutton | Not able to test trip<br>and close breaker in<br>compt. 17 of 4kV<br>shutdown board A | Replaced bad trip<br>and close station.<br>MR # 266174 8 |
| 7/13         | CO2 storage<br>fire pro-<br>tection &<br>purging | ,0-BAT-39-25-30       | 5 Replaced<br>battery                                    | None  | Bad battery                                 | Low cell voltage  | Replaced bad batter                                      |
| 7/25         | Air-condi-<br>tioning                            | 0-CHR-031-<br>0007B - | Replace sole-<br>noid valve on<br>chiller purge<br>unit. | None  | Bad solenoid on<br>purge unit               | Valve inoperable  | Replaced bad sole-<br>noid valve.<br>MR # 322846         |
| 7/26         | Ventilating                                      | 0-FS-30-60B           | Replace flow<br>switch                                   | None  | Paddle missing                              | Flow switch inoperable  | Replaced bad flow<br>switch.<br>MR # 266192              |

ELECTR L MAINTENANCE SUMMARY

Page 3 BF EMSIL 30 Appendix B 9/29/82

CSSC EQUIPMENT

For the Month of July 19 84

| Date         | System                         | Component              | Sature of<br>Maintenance   | Effect on Safe Operation of The Reactor | Cause of<br>Malfunction   | Results of<br>Malfunction  | Action Taken To Preclude Recurrence                                   |
|--------------|--------------------------------|------------------------|--|---|---------------------------|--|---|
| 1984<br>1/27 | Raw servic<br>water            | e 1 & 2-ANN-25-<br>41A | Replace AFI air flow switch  | None                                    | Bad switch                | Annunciation   | Replaced bad switch. MR # 207922                                      |
| 1/27         | Raw servic<br>water            | e 1 & 2-ANN-25-<br>41C | Replace AF1 air flow switch  | None                                    | Bad switch                | Annunciation   | Replaced bad switch. MR # 207923                                      |
| 3/9          | Air<br>condition-<br>ing       | 1-FAN-31-161A          | Replace fan<br>motor   | None                                    | Bad fan motor             | Fan motor trips on overload                                      | Replaced bad fan motor.  MR # 140633                                  |
| 3/13         | Unit pre-<br>ferred<br>120VAC  | 1-000-252-000          | Replace switch<br>voltmeter on<br>unit preferred<br>local control<br>cabinet | None                                    | Bad switch volt-<br>meter | Annunciation   | Replaced bad switch<br>voltmeter.<br>MR # 267850                      |
| 5/30         | Standby<br>diesel<br>generator | 1 & 2-GEN-82-B         | Replace overload<br>relay  | None                                    | Bad overload<br>relay     | Lube oil circulating pump will not run                           | Replaced bad over-<br>load relay.<br>MR # 252792                      |
| 6/22         | RHR service<br>water           | e 1-LA-23-80A          | Replace level<br>switch  | None                                    | Bad level switch          | Antunciation   | Replaced bad level<br>switch with new<br>model switch.<br>MR # 265985 |
| 6/26         | Main<br>steam                  | 1-FCV-1-1-55           | Replace relay  | None                                    | Bad coil                  | FCV-1-1-55 will not<br>operate from control<br>switch on pnl 9-3 | Replaced bad coil MR # 267386   |
| 6/27         | Main<br>steam                  | 1-PCV-1-4              | Test   | None                                    | Unknown                   | 1-PCV-001-0004<br>operated prematurely<br>during unit startup    | Valve tested O.K. MR # 266175   |

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CSSC EQUIPMENT

ELECTRICAL MAINTENANCE SUMMARY

for the Month of July 19 84

| Date         | System   | Component   | Nature of<br>Maintenance        | Effect on Safe<br>Operation of<br>The Reactor | Cause of<br>Malfunction | Results of<br>Malfunction   | Action Taken To Preciade Recurrence             |
|--------------|--|-------------|---------------------------------|---|-------------------------|---|---|
| 1984<br>6/30 | Control<br>rod drive                           | 1-HS-85-48  | Replace springs<br>in switch    | None  | Broken springs          | HS-85-48 inoperable   | Replaced bad switch<br>MR # 257451              |
| 7/10         | Residual<br>heat re-<br>moval                  | 1-MG-74-1DN | Replaced motor<br>and generator | None  | Failed generator        | Motor-generator set inoperable  | Installed new motor and generator.  MR # 263352 |
| 7/16         | Reactor<br>bldg. heat-<br>ing &<br>ventilation |             | Replace breaker                 | None  | Bad breaker             | Fan trips off   | Replace bad breaker.<br>MR # 266027             |
| 7/28         | RHR service<br>water                           | 1-MTR-23-8  | Replace R1 relay                | None  | Bad relay               | C1 RHRSW pump failed<br>to start during per-<br>formance of<br>SI 4.9.A.3.a | Replaced bad relay.                             |
|              |  |             |                                 |   |                         |   |   |
|              | and the second                                 |             |                                 |   |                         |   |   |

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CSSC EQUIPMENT

ELECTRICAL MAINTENANCE SUMMARY

For the Month of July 19 84

| Date         | System                        | Component   | Nature of<br>Maintenance | Operation of<br>The Reactor | Cause of<br>Malfunction | Results of<br>Malfunction        | Action Tiren To Preclude Recurrence     |
|--------------|-------------------------------|-------------|--------------------------|-----------------------------|-------------------------|----------------------------------|---|
| 1984<br>7/12 | Unit pre-<br>ferred<br>120VAC | 2-GEN-252-2 | Replace excitor          |                             | Bad belt                | Unit preferred MG set inoperable | Installed new exciter belt. MR # 322568 |
|              |                               |             |                          |                             |                         |                                  |   |
|              |                               |             |                          |                             |                         |                                  | 23                                      |
|              |                               |             |                          |                             |                         |                                  |   |
|              |                               |             |                          |                             |                         |                                  |   |
|              |                               |             |                          |                             |                         |                                  |   |
|              |                               |             |                          |                             |                         |                                  |   |

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#### CSSC EQUIPMENT

#### ELECTRICAL MAINTENANCE SUMMARY

For the Month of July 19 84

| Date<br>1984 | System   | Component             | Nature of<br>Miintenance                    | Effect on Sale<br>Operation of<br>The Reactor | Cause of<br>Nalfunction                       | Results of<br>Malfunction  | Action 1 sen<br>To Proclese<br>Recurs       |
|--------------|--|-----------------------|---|---|---|--|---|
| 3/8          | Standby<br>diesel<br>generator                               | 3-RLY-82-TRB-3        | Replace relay                               | None  | Cracked coil spoo                             | None   | Replaced bad relay.<br>MR # 254754          |
| 3/21         | 4kV shut-<br>down boards<br>& buses                          | 3-RLY-211-275/<br>3CX | Replace relay<br>coil                       | None  | Cracked coil spoo                             | 1 None   | Replaced bad relay coil. MR # 254769        |
| 4/11         | 4kV shut-<br>down board<br>& buses                           | 3-RLY-211-<br>Spare   | Replace relay                               | None  | Cracked coil spoo                             | None   | Replaced bad relay<br>coil.<br>MR # 254774  |
| 7/1          | CO <sub>2</sub> storage<br>fire pro-<br>tection &<br>purging | ,3-TA-39-113          | Replace kl relay                            | None  | Bad relay                                     | Annunciation   | Replaced bad relay. MR # 257739             |
| 7/9          | Radiation<br>monitoring                                      | 3-CAM-90-251          | Replace power<br>switch                     | None  | Toggle switch<br>burned up                    | Possible fire hazard   | Replaced bad switch.<br>MR # 257642         |
| 7/10         | Control<br>rod drive   | 3-FCV-85              | Replace sole-<br>noids                      | None  | Coils in scram<br>pilot solenoid<br>burned up | Valve inoperable   | Replaced bad sole-<br>noids.<br>MR # 257645 |
| 7/26         |  | 3-RHRSW-Pump<br>Start | Replace R1 relay                            | None  |   | pumps Bl, C3, & D1<br>did not auto start   | Replaced bad relay.                         |
| 7/27         | Battery<br>boards<br>1,2,3 & 4                               | 3-FU-280-3C           | Replaced in-<br>correct fuses               | None  | Oversized fuses                               | protection for I&C bus   | Replaced with correct fuses. MR # 254952    |
| 7/28         | Residual<br>heat re-<br>moval                                | 3-MTR-74-39           | Replaced second-<br>ary disconnect<br>block | None  | block   | No green light when<br>breaker is racked in;<br>does have green light<br>in test position. |   |

#### BROWNS FERRY NUCLEAR PLANT UNIT Common

#### CSSC EQUIPMENT

#### MECHANICAL MAINTENANCE SUMMARY

For the Month of \_\_July\_\_\_19 \_\_84

| DATE | SYSTEM | COMPONENT     | NATURE OF<br>MAINTENANCE                            | OPERATION OF<br>THE REACTOR | CAUSE OF<br>MALFUNCTION | RESULTS OF<br>MALFUNCTION | ACTION TAKEN<br>TO PRECLUDE<br>RECURRENCE |
|------|--------|---------------|---|-----------------------------|-------------------------|---------------------------|---|
| 7/3  | 85     | 0-ACU-85-3847 | Rebuild water<br>accomulator and<br>store for spare | None                        | None                    | N/A                       | N/A                                       |
|      |        |               |   |                             |                         |                           | 25  |
|      |        |               |   |                             |                         |                           |   |
|      |        |               |   |                             |                         |                           |   |
|      |        |               |   |                             |                         |                           |   |
|      |        |               |   |                             |                         |                           |   |

CSSC EQUIPMENT

#### MECHANICAL MAINTENANCE SUMMARY

For the Month of July 19 84

| DATE | SYSTEM | COMPONENT      | NATURE OF<br>MAINTENANCE | EFFECT ON SAFE<br>OPERATION OF<br>THE REACTOR | CAUSE OF<br>MALFUNCTION | RESUL.S OF<br>MALFUNCTION               | ACTION TAKEN<br>TO PRECLUDE<br>RECURRENCE |
|------|--------|----------------|--------------------------|---|-------------------------|---|---|
| 6/25 | 85     | 2-HCV-85-22-07 | Repair water accumulator | None  | Defective 0-ring        | s Leak                                  | Repaired on<br>MR A-252811                |
| 6/30 | 85     | 2-HCV-85-38-47 | Repair accumulator       | None  | Normal usage            | Accumulator<br>alarm would<br>not clear | Repaired on<br>MR A-257554                |
|      |        |                |                          |   |                         |   | 26  |
|      |        |                |                          |   |                         |   |   |
|      |        |                |                          |   |                         |   |   |
|      |        |                |                          |   |                         |   |   |
|      |        |                |                          |   |                         |   |   |
|      |        |                |                          |   |                         |   |   |
|      |        |                |                          |   |                         |   |   |
|      |        |                |                          |   |                         |   |   |

| BROWNS FERRY NUCLEAR PLANT UNIT _ 1 | BROWNS | FERRY | NUCLEAR | PLANT | UNIT | 1 |
|-------------------------------------|--------|-------|---------|-------|------|---|
|-------------------------------------|--------|-------|---------|-------|------|---|

#### CSSC EQUIPMENT

#### MECHANICAL MAINTENANCE SUMMARY

For the Month of July 19 84

| DATE | SYSTEM | COMPONENT      | NATURE OF<br>MAINTENANCE | EFFECT ON SAFE<br>OPERATION OF<br>THE REACTOR | CAUSE OF<br>MALFUNCTION  | RESULTS OF<br>MALFUNCTION          | ACTION TAKEN<br>TO PRECLUDE<br>RECURRENCE |
|------|--------|----------------|--------------------------|---|--------------------------|------------------------------------|---|
| 6/18 | 67     | I-CLR-67-0909  | Clean Coolers            | None  | Routine Mainte-<br>nance | N/A                                | N/A                                       |
| 6/28 | 85     | 1-FCV-85-0039A | Repair leak              | None  | Unknown                  | Control rod<br>was in past<br>"00" | Repaired on MR<br>A-257383                |
| 7/16 | 85     | 1-PMP-85-001   | Replace gasket           | None  | Normal use               | Leak                               | Repaired on MR A-266148                   |

#### OUTAGE MAINTENANCE & MAJOR MODIFICATION MANAGEMENT JULY 1984

#### I. Work Synopsis

A. During the July report period the unit 3 outage progressed through day number 329 of what is presently scheduled to be a 371-day outage.

Projected milestone dates from the July 31, 1984, schedule update were as follows:

| Open Fuel Pool Gates                  | 8/3/84  |
|---------------------------------------|---------|
| Start Core Reload                     | 8/9/84  |
| Start RPV Reassembly                  | 8/24/84 |
| Start Reactor Vessel Hydrostatic Test | 8/29/84 |
| Return Unit 3 to Service              | 9/12/84 |

B. Major field activities for the unit 3 outage effort during the July report period include progression of ECN PO392 CRD System Scram Discharge Instrument Volume Modification work to the point of completion of post-modification testing which allowed preliminary CRD testing to begin July 30, 1984.

#### II. Mechanical Summary - Modifications Section

- A. Jet pump instrumentation nozzles weld overlays were completed and Non-Destructive Examinations (NDE) reported satisfactory.
- B. Main Steam Isolation Valves valve restoration lacks completion of ECN PO621 installation of locking tags and limit switch mounting plates. Limit switch bracket installation and mounting of the switches was reported at 65-percent complete on inboard valves.
- C. ECN PO730 removal of RHR head spray piping (from unit 3) was reported field complete.

#### OUTAGE MAINTENANCE & MAJOR MODIFICATION MANAGEMENT JULY 1984

#### II. Mechanical Summary - Modifications Section (Continued)

- D. Diesel generator modifications (electrical and mechanical) were completed on the "1A," "B," and "C" diesel generators. These modifications include:
  - PO585 Replacement of Existing Speed Sensing Equipment with Solid
    State Equipment
  - PO185 Loss of Field Trip Bypass When in Emergency Mode
  - PO275 Degraded Voltage Relays
  - PO709 Throttle Valve Installation in EECW Piping to the Cooling Water
    Heat Exchangers
  - L1970 EECW Piping Changeout (Carbon Steel to Stainless) partial Note that these modifications were previously completed on the 3A, B, C, and D diesel generators.
- E. Three recirculation system snubbers were removed for maintenance.
- F. ECN PO361 Modification work on torus attached piping progressed through field completion of 447 of 457 required supports.
- G. The 79-02 hanger inspection program effort reported 337 of 387 complete at the end of July.
- H. Preparations are in progress to coat the lower drywell elevations (including structural steel).
- I. PO569 Replacement of RPV Head Vent Valves 3-98 and 3-99 is approximately 90-percent complete. Solenoid valve hookup and limit switch installation was tested satisfactorily from the control room.
- J. P0695 Modification to Selected 84-System valves to allow Local Leak Rate Test (LLRT) to the Flange Sides was reported field complete on July 17, 1984.

#### OUTAGE MAINTENANCE & MAJOR MODIFICATION MANAGEMENT JULY 1984

#### II. Mechanical Summary - Modifications Section (Continued)

- K. P0691 (similar to P0695 described above) was continued on selected 64series valves.
- L. P0684 Modifications to the Drywell-to-Torus Vacuum Breakers was still in progress this month.
- M. RHR Loop I and II maintenance and modification work was completed to a point that allowed release of these systems to the operations section for lineup and tests.
- N. Refuel floor efforts this month have included:
  - 1. Unit 2 high density fuel storage rack preparation work
  - 2. Unit 3 refuel platform maintenance
  - 3. Lost article search in the unit 3 reactor vessel
  - 4. SRM dry-tube inspection no relevant indications found

#### III. Electrical Summary - Modifications Section

- A. ECN PO4151 Temperature Instrumentation on the reactor feedwater nozzles was reported field complete on July 19, 1984.
- B. P0399/P0422/P5097 Correcting I&C bus voltage problems and RPS modification to provide redundant class IE protection were continued this month. The bus outages for transformer hookups associated with P0399 were completed. P0422 was reported field complete July 23, 1984.
- C. P3138 Replacement of RHR Pump Room Cooler Fan Motors was reported field complete this month.

## OUTAGE MAINTENANCE & MAJOR MODIFICATION MANAGEMENT JULY 1984

#### III. Electrical Summary - Modifications Section (Continued)

- D. P3006 System-73 Pressure Switch Repoacement was reported field complete July 6, 1984.
- E. PO631 Relocation of RHRSW Radiation Detector Work per this ECN has been delayed due to four-week delivery time for cable connectors.

#### IV. Planning and Scheduling

- A. The principal unit 3 efforts have centered around monitoring the work progress versus the schedule projections in order to identify delays and gains so that this information could be applied to additional schedule refinements.
- B. Unit 2 planning and scheduling work continues in preparation for the presently scheduled September 14, 1984, start of the unit 2 outage.

# Browns Ferry Nuclear Plant P. O. Box 2000 Decatur, Alabama 35602

## AUG 0 9 1984

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

Gentlemen:

Enclosed is the July 1984 Monthly Operating Report to NRC for Browns Ferry Nuclear Plant Units 1, 2, and 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

G. T. Jones
Plant Manager

Enclosures

cc: Director, Region II

Nuclear Regulatory Commission
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Director, Office of Inspection and Enforcement Nuclear Regulatory Commission Washington, D. C. 20555 (10 copies)

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