

January 9, 1990
BH/90-0020

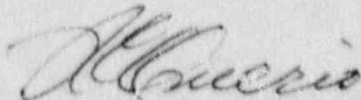
Director, Office of Resource Management
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report covering Braidwood Nuclear Power Station for the period December 1 through December 31, 1989.

Very truly yours,



R. E. Quorio
Station Manager
Braidwood Nuclear Station

REQ/EWC/jfe
(49572)

Attachments

cc: A. B. Davis, NRC, Region III
NRC Resident Inspector Braidwood
III. Dept. of Nuclear Safety
T. J. Maiman
K. L. Graesser
T. J. Kovach
Nuclear Fuel Services, PWR Plant Support
INPO Records Center
Performance Monitoring Group, Tech Staff Braidwood Station
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S. Sands - USNRC
S. C. Hunsader
Production Services

BRAIDWOOD NUCLEAR POWER STATION

UNIT 1 AND UNIT 2

MONTHLY PERFORMANCE REPORT

COMMONWEALTH EDISON COMPANY

NRC DOCKET NO. 050-456, LICENSE NO. NPF-72

NPC DOCKET NO. 050-457, LICENSE NO. NPF-77

I. Monthly Report for Braidwood Unit 1

A. Summary of Operating Experience

The unit entered the month off line due to a continuation of the first refueling outage. The refueling outage was completed during the month and the unit went critical on December 11, 1989. The unit was synchronized to the grid on December 15, 1989. Reactor power continued to increase through the end of the month as post refuel testing was completed.

B. OPERATING DATA REPORT

DOCKET NO.: 50-456
UNIT: Braidwood 1
DATE: 01/09/90
COMPILED BY: M. W. Peterson
TELEPHONE: (815)458-2801
ext. 2480

OPERATING STATUS

1. Reporting Period: December, 1989 Gross Hours: 744.0

2. Currently Authorized Power Level (MWt): 3411
Design Electrical Rating (MWe-gross): 1175
Design Electrical Rating (MWe-net): 1120
Max Dependable Capacity (MWe-gross): 1175
Max Dependable Capacity (MWe-net): 1120

3. Power level to which restricted (If Any): None

4. Reasons for restriction (If Any): None

| | <u>THIS MONTH</u> | <u>YR TO DATE</u> | <u>CUMULATIVE</u> |
|------------------------------------------------------------------------|-------------------|-------------------|-------------------|
| 5. Report period Hours: | 744 | 8760 | 12489 |
| 6. Hours Reactor Critical: | 483.5 | 5586.8 | 9097.2 |
| 7. RX Reserve Shutdown Hours: | 0.0 | 0.0 | 0.0 |
| 8. Hours Generator on Line: | 363.6 | 4439.2 | 8849.6 |
| 9. Unit Reserve Shutdown Hours: | 0.0 | 0.0 | 0.0 |
| 10. Gross Thermal Energy (MWH): | 858637 | 14432746 | 24803208 |
| 11. Gross Elec. Energy (MWH): | 289004 | 4891103 | 8482057 |
| 12. Net Elec. Energy (MWH): | 272797 | 4632297 | 8057171 |
| 13. Reactor Service Factor: | 65.0 | 63.8 | 72.8 |
| 14. Reactor Availability Factor: | 65.0 | 63.9 | 72.8 |
| 15. Unit Service Factor: | 52.3 | 62.1 | 70.9 |
| 16. Unit Availability Factor: | 52.3 | 62.1 | 70.9 |
| 17. Unit Capacity Factor (MDC net): | 32.7 | 47.2 | 57.6 |
| 18. Unit Capacity Factor (DER net): | 32.7 | 47.2 | 57.6 |
| 19. Unit Forced Outage Rate: | 0.0 | 3.2 | 5.4 |
| 20. Unit Forced Outage Hours: | 0.0 | 182.3 | 500.3 |
| 21. Shutdowns Scheduled Over Next 6 Months: | None | | |
| 22. If Shutdown at End of Report Period, Estimated Date of Startup: | | | |

C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50-456
UNIT: Braidwood 1
DATE: 01/09/90
COMPILED BY: M. W. Peterson
TELEPHONE: (815)458-2801
ext. 2480

MONTH: December, 1989

| | | | |
|-----------|-----|-----------|------|
| 1. _____ | -11 | 17. _____ | 250 |
| 2. _____ | -11 | 18. _____ | 266 |
| 3. _____ | -11 | 19. _____ | 460 |
| 4. _____ | -12 | 20. _____ | 549 |
| 5. _____ | -11 | 21. _____ | 549 |
| 6. _____ | -12 | 22. _____ | 548 |
| 7. _____ | -12 | 23. _____ | 589 |
| 8. _____ | -12 | 24. _____ | 537 |
| 9. _____ | -11 | 25. _____ | 865 |
| 10. _____ | -12 | 26. _____ | 987 |
| 11. _____ | -12 | 27. _____ | 1109 |
| 12. _____ | -12 | 28. _____ | 1112 |
| 13. _____ | -12 | 29. _____ | 1112 |
| 14. _____ | -12 | 30. _____ | 1113 |
| 15. _____ | 16 | 31. _____ | 1112 |
| 16. _____ | 34 | | |

INSTRUCTIONS

On this form list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt. These figures will be used to plot a graph for each reporting month. Note that when maximum dependable capacity is used for the net electrical rating of the unit there may be occasions when the daily average power level exceeds the 100% line (or the restricted power level line). In such cases the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

D. UNIT SHUTDOWNS/REDUCTIONS

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 01/09/90
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: December, 1989

| No | DATE | TYPE | HOURS | REASON | METHOD | LER NUMBER | SYSTEM | COMPONENT | CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE |
|----|--------|------|-------|--------|--------|------------|--------|-----------|-------------------------------------------------|
| 14 | 890902 | S | 355.2 | C | 4 | NA | NA | NA | Continuation of Scheduled Refueling Outage. |

 * SUMMARY *

| TYPE | REASON | METHOD | SYSTEM & COMPONENT |
|-------------|-------------------------------------------|------------------|---------------------------------|
| F-Forced | A-Equipment Failure Maint or Test | 1 - Method | Exhibit F & H |
| S-Scheduled | C-Refueling | 2 - Manual Scram | Instructions for Preparation of |
| | D-Regulatory Restriction | 3 - Auto Scram | Data Entry Sheet |
| | E-Operator Training & License Examination | 4 - Continued | Licensee Event Report |
| | F-Administration | 5 - Reduced Load | (LER) File (NUREG-0161) |
| | G-Oper Error | 9 - Other | |
| | H-Other | | |

E. UNIQUE REPORTING REQUIREMENTS

1. Safety/Relief valve operations.

| <u>DATE</u> | <u>VALVES ACTUATED</u> | <u>NO & TYPE ACTUATION</u> | <u>PLANT CONDITION</u> | <u>DESCRIPTION OF EVENT</u> |
|-------------|----------------------------|------------------------------------|----------------------------|---------------------------------|
| | None | | | |

2. Licensee generated changes to ODCM.

None

F. LICENSEE EVENT REPORTS - UNIT 1

The following is a tabular summary of all Licensee Event Reports submitted during the reporting period, December 1 through December 31, 1989. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFR 50.73.

| <u>Licensee Event Report Number</u> | <u>Report Date</u> | <u>Title of Occurrence</u> |
|-----------------------------------------|------------------------|---------------------------------------------------------------|
| 89-015 | 12-04-89 | Missed Isotopic Analysis for Particulate Sample Cartridge. |

I. Monthly Report for Braidwood Unit 2

A. Summary of Operating Experience

The unit entered the month at full power and continued full power operation through December 28, 1989, at which time unit capacity started to gradually decline due to core coastdown. The unit ended the month in a gradual coastdown as it approaches a refueling outage schedule for March, 1990.

B. OPERATING DATA REPORT

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 01/09/90
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1. Reporting Period: December, 1989 Gross Hours: 744

2. Currently Authorized Power Level (MWt): 3411
 Design Electrical Rating (MWe-gross): 1175
 Design Electrical Rating (MWe-net): 1120
 Max Dependable Capacity (MWe-gross): 1175
 Max Dependable Capacity (MWe-net): 1120

3. Power level to which restricted (If Any): None

4. Reasons for restriction (If Any): None

| | <u>THIS MONTH</u> | <u>YR TO DATE</u> | <u>CUMULATIVE</u> |
|------------------------------------------------------------------------------|-------------------|-------------------|-------------------|
| 5. Report period Hours: | <u>744</u> | <u>8760</u> | <u>10571</u> |
| 6. Hours Reactor Critical: | <u>744</u> | <u>7618.1</u> | <u>9125.3</u> |
| 7. RX Reserve Shutdown Hours: | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 8. Hours Generator on Line: | <u>744</u> | <u>7583.4</u> | <u>9060.8</u> |
| 9. Unit Reserve Shutdown Hours: | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 10. Gross Thermal Energy (MWH): | <u>2472337</u> | <u>21763340</u> | <u>25840958</u> |
| 11. Gross Elec. Energy (MWH): | <u>854252</u> | <u>7471196</u> | <u>8891388</u> |
| 12. Net Elec. Energy (MWH): | <u>818996</u> | <u>7142035</u> | <u>8492975</u> |
| 13. Reactor Service Factor: | <u>100</u> | <u>87.0</u> | <u>86.4</u> |
| 14. Reactor Availability Factor: | <u>100</u> | <u>87.0</u> | <u>86.4</u> |
| 15. Unit Service Factor: | <u>100</u> | <u>86.6</u> | <u>85.7</u> |
| 16. Unit Availability Factor: | <u>100</u> | <u>86.6</u> | <u>85.7</u> |
| 17. Unit Capacity Factor (MDC net): | <u>98.3</u> | <u>72.8</u> | <u>71.7</u> |
| 18. Unit Capacity Factor (DER net): | <u>98.3</u> | <u>72.8</u> | <u>71.7</u> |
| 19. Unit Forced Outage Rate: | <u>0.0</u> | <u>1.7</u> | <u>4.9</u> |
| 20. Unit Forced Outage Hours: | <u>0.0</u> | <u>132.1</u> | <u>465.7</u> |
| 21. Shutdowns Scheduled Over Next 6 Months: Refueling Outage March, 1990 | | | |
| 22. If Shutdown at End of Report Period, Estimated Date of Startup: _____ | | | |

C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50-457
UNIT: Braidwood 2
DATE: 01/09/90
COMPILED BY: M. W. Peterson
TELEPHONE: (815)458-2801
ext. 2480

MONTH: December, 1989

| | |
|----------|-----------|
| 1. 1051 | 17. 1120 |
| 2. 1080 | 18. *1121 |
| 3. *1123 | 19. *1126 |
| 4. 1112 | 20. *1133 |
| 5. 1107 | 21. *1132 |
| 6. 1107 | 22. *1133 |
| 7. 1096 | 23. *1130 |
| 8. 1094 | 24. 1119 |
| 9. 1084 | 25. *1125 |
| 10. 955 | 26. 1115 |
| 11. 1070 | 27. 1110 |
| 12. 1105 | 28. 1100 |
| 13. 1108 | 29. 1089 |
| 14. 1110 | 30. 1076 |
| 15. 1110 | 31. 1055 |
| 16. 1112 | |

INSTRUCTIONS

On this form list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt. These figures will be used to plot a graph for each reporting month. Note that when maximum dependable capacity is used for the net electrical rating of the unit there may be occasions when the daily average power level exceeds the 100% line (or the restricted power level line). In such cases the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

*Due to Condenser Efficiencies

D. UNIT SHUTDOWNS/REDUCTIONS

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 01/09/90
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: December, 1989

| No | DATE | TYPE | HOURS | REASON | METHOD | LER NUMBER | SYSTEM | COMPONENT | CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE |
|----|------|------|-------|--------|--------|------------|--------|-----------|-------------------------------------------------|
|----|------|------|-------|--------|--------|------------|--------|-----------|-------------------------------------------------|

None

 * S U M M A R Y *

| TYPE | REASON | METHOD | SYSTEM & COMPONENT |
|-------------|-------------------------------------------|------------------|---------------------------------|
| F-Forced | A-Equipment Failure Maint or Test | 1 - Method | Exhibit F & H |
| S-Scheduled | C-Refueling | 2 - Manual Scram | Instructions for Preparation of |
| | D-Regulatory Restriction | 3 - Auto Scram | Data Entry Sheet |
| | E-Operator Training & License Examination | 4 - Continued | Licensee Event Report |
| | F-Administration | 5 - Reduced Load | (LER) File (NUREG-0161) |
| | G-Oper Error | 9 - Other | |
| | H-Other | | |

E. UNIQUE REPORTING REQUIREMENTS - UNIT 2

1. Safety/Relief valve operations.

| <u>DATE</u> | <u>VALVES ACTUATED</u> | <u>NO & TYPE ACTUATION</u> | <u>PLANT CONDITION</u> | <u>DESCRIPTION OF EVENT</u> |
|-------------|----------------------------|------------------------------------|----------------------------|---------------------------------|
| | None | | | |

2. Licensee generated changes to ODCM.

None

F. LICENSEE EVENT REPORTS - UNIT 2

The following is a tabular summary of all Licensee Event Reports submitted during the reporting period, December 1 through December 31, 1989. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFR 50.73.

| <u>Licensee Event Report Number</u> | <u>Report Date</u> | <u>Title of Occurrence</u> |
|-----------------------------------------|------------------------|-------------------------------------------------------------------------------|
| 89-007 | 12-11-89 | Dual Train inoperability of Auxiliary Feedwater System for six minutes. |