



Commonwealth Edison
Braidwood Nuclear Power Station
Route #1, Box 84
Braidwood, Illinois 60407
Telephone 815/458-2801

October 10, 1992
BW/92-0516

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 September 1 through
September 30, 1992.

K. L. Kofron
Station Manager
Braidwood Nuclear Station

KLK:JL:dla
638/ZD85G

Attachments

cc: A. B. Davis, NRC, Region III
NRC Resident Inspector Braidwood
Ill. Dept. of Nuclear Safety
M. J. Wallace
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T. J. Kovach
Nuclear Fuel Services, PWR Plant Support
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BRAIDWOOD NUCLEAR POWER STATION

UNIT 1 AND UNIT 2

MONTHLY PERFORMANCE REPORT

COMMONWEALTH EDISON COMPANY

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

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

I. Monthly Report for Braidwood Unit 1

A. Summary of Operating Experience

Braidwood Unit 1 entered the month of September, 1992 at approximately 68% reactor power. The Unit operated in a routine coast down until September 5 when it was shut down for a scheduled refueling outage.

B. OPERATING DATA REPORT

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 10/10/92
 COMPILED BY: P. Stanczak
 TELEPHONE: 815/458-2801
 ext. 2486

OPERATING STATUS

1. Reporting Period: September, 1992 Gross Hours: 720

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>720.0</u> | <u>6575.0</u> | <u>36584.0</u> |
| 6. Hours Reactor Critical | <u>99.0</u> | <u>5888.7</u> | <u>28168.9</u> |
| 7. RX Reserve Shutdown Hours: | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 8. Hours Generator on Line | <u>98.0</u> | <u>5868.5</u> | <u>27700.5</u> |
| 9. Unit Reserve Shutdown Hours: | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 10. Gross Thermal Energy (MWhT) | <u>219818.5</u> | <u>18504828.0</u> | <u>83489344.0</u> |
| 11. Gross Elec. Energy (MWH) | <u>73958.0</u> | <u>6285380.0</u> | <u>28607572.0</u> |
| 12. Net Elec. Energy (MWH): | <u>61568.0</u> | <u>6031088.0</u> | <u>27333012.0</u> |
| 13. Reactor Service Factor: | <u>13.8</u> | <u>89.6</u> | <u>77.0</u> |
| 14. Reactor Availability Factor: | <u>13.8</u> | <u>89.6</u> | <u>77.0</u> |
| 15. Unit Service Factor: | <u>13.6</u> | <u>89.3</u> | <u>75.7</u> |
| 16. Unit Availability Factor: | <u>13.6</u> | <u>89.3</u> | <u>75.7</u> |
| 17. Unit Capacity Factor (MDC NET): | <u>7.6</u> | <u>81.9</u> | <u>66.7</u> |
| 18. Unit Capacity Factor (DER NET): | <u>7.6</u> | <u>81.9</u> | <u>66.7</u> |
| 19. Unit Forced Outage Rate: | <u>0.0</u> | <u>1.4</u> | <u>10.5</u> |
| 20. Unit Forced Outage Hours: | <u>0.0</u> | <u>84.5</u> | <u>3236.3</u> |

21. Shutdown Scheduled Over
 Next 6 months: Refuel Outage September 5, 1992

22. If Shutdown at end of Report Period,
 Estimated Date of Startup: November 10, 1992

C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50-456
UNIT: Braidwood 1
DATE: 10/10/92
COMPILED BY: P. Stanczak
TELEPHONE: (815)458-2801
ext. 2486

MONTH: September, 1992

| | |
|----------|----------|
| 1. 753 | 17. - 13 |
| 2. 744 | 18. - 13 |
| 3. 725 | 19. - 13 |
| 4. 678 | 20. - 13 |
| 5. - 5 | 21. - 13 |
| 6. - 14 | 22. - 13 |
| 7. - 14 | 23. - 13 |
| 8. - 14 | 24. - 13 |
| 9. - 13 | 25. - 13 |
| 10. - 14 | 26. - 13 |
| 11. - 18 | 27. - 13 |
| 12. - 14 | 28. - 13 |
| 13. - 13 | 29. - 13 |
| 14. - 13 | 30. - 13 |
| 15. - 13 | 31. N/A |
| 16. - 13 | |

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: 10/10/92
 COMPILED BY: P. Stanczak
 TELEPHONE: (815)458-2801-
 ext. 2486

REPORT PERIOD: August, 1992

| <u>No</u> | <u>DATE</u> | <u>TYPE</u> | <u>HOURS</u> | <u>REASON</u> | <u>METHOD</u> | <u>LER NUMBER</u> | <u>SYSTEM</u> | <u>COMPONENT</u> | <u>CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE</u> |
|-----------|-------------|-------------|--------------|---------------|---------------|-------------------|---------------|------------------|------------------------------------------------------------|
| 6 | 920905 | S | 622 | C | 1 | N/A | N/A | N/A | Scheduled third refueling outage. |

 * S U M M A R Y *

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

E. UNIQUE REPORTING REQUIREMENTS - UNIT 1

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, September 1 through September 30, 1992. 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> |
|-----------------------------------------|------------------------|--------------------------------------------------------------------------|
| 92-009 | 09/11/92 | Untested Undervoltage Relay Contacts Due to Procedural Deficiency. |
| 92-010 | 09/18/92 | Dual Accounting for Samarium Due to Procedural Deficiency. |

II. Monthly Report for Braidwood Unit 2

A. Summary of Operating Experience

Braidwood Unit 2 entered the month of September 1992 at approximately 95% reactor power. On September 10, the Unit tripped when the 2B Feedwater Pump tripped on loss of vacuum after a contract laborer inadvertently closed the pump's turbine exhaust valve. The Unit returned to service on September 11 and operated routinely through the end of the month.

B. OPERATING DATA REPORT

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 10/10/92
 COMPILED BY: P. Stanczak
 TELEPHONE: 815/458-2801
 ext. 2485

OPERATING STATUS

1. Reporting Period: September, 1992 Gross Hours: 720

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>720.0</u> | <u>6575.0</u> | <u>34666.0</u> |
| 6. Hours Reactor Critical | <u>695.5</u> | <u>6213.9</u> | <u>28980.5</u> |
| 7. RX Reserve Shutdown Hours: | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 8. Hours Generator on Line | <u>688.5</u> | <u>6171.8</u> | <u>28711.8</u> |
| 9. Unit Reserve Shutdown Hours: | <u>0.0</u> | <u>0.0</u> | <u>0.0</u> |
| 10. Gross Thermal Energy (MWh): | <u>2171245.0</u> | <u>19561160.0</u> | <u>84916711.0</u> |
| 11. Gross Elec. Energy (MWh) | <u>740326.0</u> | <u>6680122.0</u> | <u>27037562.0</u> |
| 12. Net Elec. Energy (MWh): | <u>714945.0</u> | <u>6423691.0</u> | <u>27786586.0</u> |
| 13. Reactor Service Factor: | <u>96.6</u> | <u>94.5</u> | <u>83.6</u> |
| 14. Reactor Availability Factor: | <u>96.6</u> | <u>94.5</u> | <u>83.6</u> |
| 15. Unit Service Factor: | <u>95.6</u> | <u>93.9</u> | <u>82.8</u> |
| 16. Unit Availability Factor: | <u>95.6</u> | <u>93.9</u> | <u>82.8</u> |
| 17. Unit Capacity Factor (MDC NET): | <u>88.7</u> | <u>87.2</u> | <u>71.6</u> |
| 18. Unit Capacity Factor (DER NET): | <u>88.7</u> | <u>87.2</u> | <u>71.6</u> |
| 19. Unit Forced Outage Rate: | <u>4.4</u> | <u>3.4</u> | <u>3.9</u> |
| 20. Unit Forced Outage Hours: | <u>31.5</u> | <u>216.5</u> | <u>1164.3</u> |

21. Shutdown 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.: 50-457

UNIT: Braidwood 2

DATE: 10/10/92

COMPILED BY: P. Stanczak

TELEPHONE: (815)453-2801
ext. 2486

MONTH: September, 1992

| | |
|----------|-----------|
| 1. 1010 | 17. 1118 |
| 2. 1062 | 18. 1071 |
| 3. 1062 | 19. 1099 |
| 4. 1098 | 20. 1052 |
| 5. 990 | 21. 1080 |
| 6. 1023 | 22. 1120 |
| 7. 1036 | 23. *1123 |
| 8. 1080 | 24. *1126 |
| 9. 1118 | 25. *1125 |
| 10. 1001 | 26. 1096 |
| 11. - 18 | 27. 667 |
| 12. 333 | 28. 999 |
| 13. 846 | 29. 1117 |
| 14. 1090 | 30. *1124 |
| 15. 1075 | 31. N/A |
| 16. 1051 | |

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 efficiency.

D. UNIT SHUTDOWNS/REDUCTIONS

DOCKET NO.: 50-457
UNIT: Braidwood 2
DATE: 10/10/92
COMPILED BY: P. Stanczak
TELEPHONE: (815)458-2801
ext. 2486

REPORT PERIOD: September, 1992

| No | DATE | TYPE | HOURS | REASON | METHOD | LER NUMBER | SYSTEM | COMPONENT | CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE |
|----|--------|------|-------|--------|--------|------------|--------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | 920910 | F | 31.5 | H | 3 | 92-006 | FW | V | Reactor trip due to trip of the 2B Feedwater Pump on loss of vacuum after a contract laborer inadvertently closed the pump's turbine exhaust valve. The valve was opened and the unit was returned to service. |
| 16 | 920926 | S | N/A | F | 5 | N/A | N/A | N/A | Power was reduced per the direction of the system load dispatcher. |

* SUMMARY *

| TYPE | REASON | METHOD | SYSTEM & COMPONENT |
|-------------|-------------------------------------------|------------------|---------------------------------|
| F-Forced | A-Equipment Failure Maint or Test | 1 - Method | Exhibit F & H |
| S-Scheduled | B-Maint or Test | 2 - Manual Scram | Instructions for Preparation of |
| | C-Refueling | 3 - Auto Scram | Data Entry Sheet |
| | D-Regulatory Restriction | 4 - Continued | Licensee Event Report |
| | E-Operator Training & License Examination | 5 - Reduced Load | (LER) File (NUREG-0161) |
| | F-Administration | 9 - Other | |
| | G-Oper Error | | |
| | 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 changer 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, September 1 through September 30, 1992. 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> |
|-----------------------------------------|------------------------|-------------------------------------------------------------------------------|
| 92-005 | 09/22/92 | Containment Ventilation Isolation Due to Checksource Failure of 2AR12J. |