

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

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PDR ADOCK 05000456
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I. Monthly Report for Braidwood Unit 1

A. Summary of Operating Experience

Unit 1 entered the month of December at approximately 99.2% power. On December 1, 1990 the unit tripped on low steam generator level resulting from the loss of a main feedwater pump. The pump was repaired and the unit returned to power operation on December 3, 1990. On December 4, 1990 the generator was taken off-line to replace the seal oil vapor extractor motor. After the motor replacement, the generator was synchronized to the grid and the unit performed routinely until December 30, 1990 when it tripped due to a main generator neutral ground overcurrent. The unit remained off-line through the remainder of the report period.

B. OPERATING DATA REPORT

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 01/10/91
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1. Reporting Period: December, 1990 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>21249</u>
6. Hours Reactor Critical:	<u>655.2</u>	<u>7830.1</u>	<u>16927.3</u>
7. RX Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
8. Hours Generator on Line:	<u>640.4</u>	<u>7781.3</u>	<u>16630.9</u>
9. Unit Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
10. Gross Thermal Energy (MWH):	<u>2058699</u>	<u>24849862</u>	<u>49653070</u>
11. Gross Elec. Energy (MWH):	<u>710492</u>	<u>8600574</u>	<u>17080641</u>
12. Net Elec. Energy (MWH):	<u>680782</u>	<u>8264585</u>	<u>16321756</u>
13. Reactor Service Factor:	<u>88.1</u>	<u>89.4</u>	<u>79.7</u>
14. Reactor Availability Factor:	<u>88.1</u>	<u>89.4</u>	<u>79.7</u>
15. Unit Service Factor:	<u>86.1</u>	<u>88.8</u>	<u>78.3</u>
16. Unit Availability Factor:	<u>86.1</u>	<u>88.8</u>	<u>78.3</u>
17. Unit Capacity Factor (MDC net):	<u>81.7</u>	<u>84.2</u>	<u>68.6</u>
18. Unit Capacity Factor (DER net):	<u>81.7</u>	<u>84.2</u>	<u>68.6</u>
19. Unit Forced Outage Rate:	<u>13.9</u>	<u>11.2</u>	<u>8.2</u>
20. Unit Forced Outage Hours:	<u>103.9</u>	<u>979</u>	<u>1479.3</u>
21. Shutdowns Scheduled Over Next 6 Months: Refueling Outage - March, 1991			
22. If Shutdown at End of Report Period, Estimated Date of Startup: <u>February 6, 1991</u>			

C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 01/10/91
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

MONTH: December, 1990

1.	786	17.	*1129
2.	-15	18.	*1128
3.	-3	19.	*1128
4.	116	20.	*1128
5.	691	21.	*1128
6.	1068	22.	*1127
7.	1069	23.	*1128
8.	1069	24.	*1128
9.	1070	25.	*1124
10.	1071	26.	*1126
11.	1070	27.	*1126
12.	1068	28.	*1126
13.	1071	29.	1118
.	1070	30.	308
15.	1086	31.	-14
16.	*1129		

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.: 50-456
 UNIT: Braidwood 1
 DATE: 01/10/91
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

REPRT PERIOD: December, 1990

No	DATE	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
5	901201	F	53.7	A	3	90-021	FW	N/A	The 1B Feedwater Pump tripped due to low oil pressure. It is believed that the suction of the high pressure oil pump became partially plugged. A portable centrifuge has been connected to the pump oil reservoir to remove water and debris from the oil system. Other methods to minimize potential water intrusion into the oil system are being evaluated.
6	901230	F	39.6	A	3	90-023	TG	GEN	Neutral ground overcurrent trip of main generator. Problem isolated to stator with exact cause being investigated for appropriate corrective action.

 * S U M M A R Y *

TYPE	REASON	METHOD	SYSTEM & COMPONENT
F-Forced	A-Equipment Failure Maint or Test	1 - Manual	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.

See Attachment

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, 1990. 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>
90-020	12-21-90	Spurious start of the Auxiliary Building Inaccessible Filter Plenum A Charcoal Booster Fan OB due to component failure.
90-021	12-31-90	Reactor trip as a result of a Feedwater Pump trip due to low oil pressure.

I. Monthly Report for Braidwood Unit 2

A. Summary of Operating Experience

Braidwood Unit 2 operated routinely in December with no outages or significant power reductions caused by equipment problems.

B. OPERATING DATA REPORT

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 01/10/91
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1. Reporting Period: December, 1990 Gross Hours: 744
 2. Currently Authorized Power Level (MW^e): 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
- | | THIS MONTH | YR TO DATE | CUMULATIVE |
|-------------------------------------|------------|------------|------------|
| 5. Report period Hours: | 744 | 8760 | 19331 |
| 6. Hours Reactor Critical: | 744 | 6904.2 | 16039.5 |
| 7. RX Reserve Shutdown Hours: | 0.0 | 0.0 | 0.0 |
| 8. Hours Generator on Line: | 744 | 6850.4 | 15911.2 |
| 9. Unit Reserve Shutdown Hours: | 0.0 | 0.0 | 0.0 |
| 10. Gross Thermal Energy (MWH): | 2397002 | 19469070 | 45310028 |
| 11. Gross Elec. Energy (MWH): | 81383 | 6643385 | 15534773 |
| 12. Net Elec. Energy (MWH): | 797837 | 6334505 | 14827480 |
| 13. Reactor Service Factor: | 100.0 | 78.8 | 83.0 |
| 14. Reactor Availability Factor: | 100.0 | 78.8 | 83.0 |
| 15. Unit Service Factor: | 100.0 | 78.2 | 82.3 |
| 16. Unit Availability Factor: | 100.0 | 78.2 | 82.3 |
| 17. Unit Capacity Factor (MDC net): | 95.7 | 64.6 | 68.5 |
| 18. Unit Capacity Factor (DER net): | 95.7 | 64.6 | 68.5 |
| 19. Unit Forced Outage Rate: | 0.0 | 2.1 | 3.7 |
| 20. Unit Forced Outage Hours: | 0.0 | 147.9 | 613.6 |
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.: 50-457
 UNIT: Braidwood 2
 DATE: 01/10/91
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

MONTH: December, 1990

1. _____	1107	17. _____	1118
2. _____	1003	18. _____	*1129
3. _____	1054	19. _____	*1129
4. _____	1102	20. _____	*1129
5. _____	*1133	21. _____	1108
6. _____	*1133	22. _____	1097
7. _____	*1133	23. _____	1047
8. _____	1091	24. _____	1043
9. _____	887	25. _____	880
10. _____	1043	26. _____	1086
11. _____	1032	27. _____	1109
12. _____	1021	28. _____	1073
13. _____	1104	29. _____	1020
14. _____	1119	30. _____	1036
15. _____	1032	31. _____	1114
16. _____	1116		

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: 01/10/91
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: December, 1990

<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>
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NONE

 * 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 - Manual	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 changes to ODCM.

See Attachment

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, 1990. 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>
90-012	12-18-90	Containment Ventilation isolation signal due to a failed Radiation Detector.