



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

December 10, 1990
BW/90-1197

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 November 1 through November 30, 1990.

Very truly yours,

K. L. Kofron
Station Manager
Braidwood Nuclear Station

KLK/EWC/clf
(4957z)

Attachments

cc: A. B. Davis, NRC, Region III
NRC Resident Inspector Braidwood
Ill. Dept. of Nuclear Safety
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K. L. Graesser
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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 operated routinely in November with no outages or significant power reductions.

B. OPERATING DATA REPORT

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 12/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1.	Reporting Period: November, 1990	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>8016</u>	<u>20505</u>
6.	Hours Reactor Critical:	<u>720.0</u>	<u>7174.9</u>	<u>16272.1</u>
7.	RX Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
8.	Hours Generator on Line:	<u>720.0</u>	<u>7140.9</u>	<u>15990.5</u>
9.	Unit Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
10.	Gross Thermal Energy (MWH):	<u>2371174</u>	<u>22791163</u>	<u>47594371</u>
11.	Gross Electrical Energy (MWH):	<u>824110</u>	<u>7890082</u>	<u>16370149</u>
12.	Net Elec. Energy (MWH):	<u>79406</u>	<u>7583823</u>	<u>15640974</u>
13.	Reactor Service Factor:	<u>100.0</u>	<u>89.5</u>	<u>79.4</u>
14.	Reactor Availability Factor:	<u>100.0</u>	<u>89.5</u>	<u>79.4</u>
15.	Unit Service Factor:	<u>100.0</u>	<u>89.1</u>	<u>78.</u>
16.	Unit Availability Factor:	<u>100.0</u>	<u>89.1</u>	<u>78.0</u>
17.	Unit Capacity Factor (MDC net):	<u>98.5</u>	<u>84.5</u>	<u>68.1</u>
18.	Unit Capacity Factor (DFC net):	<u>98.5</u>	<u>84.5</u>	<u>68.1</u>
19.	Unit Forced Outage Rate:	<u>0.0</u>	<u>10.9</u>	<u>7.9</u>
20.	Unit Forced Outage Hours:	<u>0.0</u>	<u>875.1</u>	<u>1375.4</u>
21.	Shutdowns Scheduled Over Next 6 Months: Refueling Outage - March, 1991			
22.	If Shutdown at End of Report Period,			
	Estimated Date of Startup:	_____		

C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50- 36
UNIT: Braidwood 1
DATE: 12/10/90
COMPILED BY: K. M. Dundek
TELEPHONE: (815)458-2801
ext. 2480

MONTH: November, 1990

1. _____	*1140 _____	17. _____	*1123 _____
2. _____	*1138 _____	18. _____	1048 _____
3. _____	*1136 _____	19. _____	*1132 _____
4. _____	*1137 _____	20. _____	959 _____
5. _____	*1138 _____	21. _____	837 _____
6. _____	*1133 _____	22. _____	864 _____
7. _____	*1132 _____	23. _____	1043 _____
8. _____	*1132 _____	24. _____	*1135 _____
9. _____	*1131 _____	25. _____	*1123 _____
10. _____	*1131 _____	26. _____	*1137 _____
11. _____	*1131 _____	27. _____	*1133 _____
12. _____	*1131 _____	28. _____	*1125 _____
13. _____	*1131 _____	29. _____	*1132 _____
14. _____	*1130 _____	30. _____	*1132 _____
15. _____	*1130 _____		
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: 12/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: November, 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 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, November 1 through November 30, 1990. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CrS 50.73.

<u>Licensee Event Report Number</u>	<u>Report Date</u>	<u>Title of Occurrence</u>
90-019	11-02-90	OA Control Room Ventilation actuation due to a spurious spike of a process radiation monitor.

I. Monthly Report for Braidwood Unit 2

A. Summary of Operating Experience

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

B. OPERATING DATA REPORT

DOCKET NO.: 50-457
 UNIT: Braiwood 2
 DATE: 12/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1.	Reporting Period: November, 1990	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>% TO DATE</u>
				<u>CUMULATIVE</u>
5.	Report period Hours:	<u>720.0</u>	<u>8016</u>	<u>18587</u>
6.	Hours Reactor Critical:	<u>720.0</u>	<u>6160.2</u>	<u>15295.5</u>
7.	RX Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
8.	Hours Generator on Line:	<u>720.0</u>	<u>6106.4</u>	<u>15167.2</u>
9.	Unit Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
10.	Gross Thermal Energy (MWH):	<u>2262639</u>	<u>17072068</u>	<u>42913026</u>
11.	Gross Elec. Energy (MWH):	<u>782538</u>	<u>5812002</u>	<u>14703390</u>
12.	Net Elec. Energy (MWH):	<u>753057</u>	<u>5536668</u>	<u>14029643</u>
13.	Reactor Service Factor:	<u>100.0</u>	<u>76.8</u>	<u>82.3</u>
14.	Reactor Availability Factor:	<u>100.0</u>	<u>76.8</u>	<u>82.3</u>
15.	Unit Service Factor:	<u>100.0</u>	<u>76.2</u>	<u>81.6</u>
16.	Unit Availability Factor:	<u>100.0</u>	<u>76.2</u>	<u>81.6</u>
17.	Unit Capacity Factor (MDC net):	<u>93.4</u>	<u>61.7</u>	<u>67.4</u>
18.	Unit Capacity Factor (DER net):	<u>93.4</u>	<u>61.7</u>	<u>67.4</u>
19.	Unit Forced Outage Rate:	<u>0.0</u>	<u>2.4</u>	<u>3.9</u>
20.	Unit Forced Outage Hours:	<u>0.0</u>	<u>147.9</u>	<u>613.6</u>
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: 12/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (615)458-2801
 ext. 2480

MONTH: November, 1990

1. _____	1059	_____	17. _____	1115	_____
2. _____	1033	_____	18. _____	1058	_____
3. _____	1036	_____	19. _____	1029	_____
4. _____	1003	_____	20. _____	*1125	_____
5. _____	1044	_____	21. _____	1119	_____
6. _____	959	_____	22. _____	758	_____
7. _____	*1129	_____	23. _____	817	_____
8. _____	*1128	_____	24. _____	1001	_____
9. _____	*1129	_____	25. _____	872	_____
10. _____	1118	_____	26. _____	1004	_____
11. _____	1100	_____	27. _____	945	_____
12. _____	*1131	_____	28. _____	1008	_____
13. _____	*1128	_____	29. _____	1061	_____
14. _____	*1127	_____	30. _____	*1122	_____
15. _____	1076	_____			
16. _____	1119	_____			

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 must be footnoted to explain the apparent anomaly.

*Due to Condenser Efficiencies

D. UNIT SHUTDOWNS / RESTRICTIONS

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 12/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: November, 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>
5	901122	S	0	F	5	N/A	N/A	'A	Reduced power to follow demand.

 * 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.

None

F. LICENSEE EVENT REPORTS - UNIT 2

The following is a tabular summary of all Licensee Event Reports submitted during the reporting period, November 1 through November 30, 1990. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 BR 50.73.

<u>Licensee Event</u> <u>Report Number</u>	<u>Report</u> <u>Date</u>	<u>Title of Occurrence</u>
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NONE