



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

September 10, 1990
BW/90-0911

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 August 1 through August 31, 1990.

Very truly yours,

K. L. Koffon
Station Manager
Braidwood Nuclear Station

KLK/EWC/sjs
(4957z)

Attachments

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

9011140144 900910
PDR ADOCK 05000456
R PNU

JEZA
11

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 at approximately 95% reactor power. The unit entered a forced outage on August 3, 1990 to repair a failed Essential Service Water discharge check valve. The unit was returned to service on August 14, 1990 and continued power operation through the end of the month.

B. OPERATING DATA REPORT

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 09/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1. Reporting Period: August, 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>5831</u>	<u>18320</u>
6. Hours Reactor Critical:	<u>486</u>	<u>5525.9</u>	<u>14623.1</u>
7. RX Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
8. Hours Generator on Line:	<u>477.4</u>	<u>5496.6</u>	<u>14346.2</u>
9. Unit Reserve Shutdown Hours:	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
10. Gross Thermal Energy (MWH):	<u>1452506</u>	<u>17499770</u>	<u>42302978</u>
11. Gross Elec. Energy (MWH):	<u>494902</u>	<u>6059856</u>	<u>14539923</u>
12. Net Elec. Energy (MWH):	<u>471073</u>	<u>5829901</u>	<u>13887072</u>
13. Reactor Service Factor:	<u>65.3</u>	<u>94.8</u>	<u>79.8</u>
14. Reactor Availability Factor:	<u>65.3</u>	<u>94.6</u>	<u>79.8</u>
15. Unit Service Factor:	<u>64.2</u>	<u>94.3</u>	<u>78.3</u>
16. Unit Availability Factor:	<u>64.2</u>	<u>94.3</u>	<u>78.3</u>
17. Unit Capacity Factor (MDC net):	<u>56.5</u>	<u>89.3</u>	<u>67.7</u>
18. Unit Capacity Factor (DER net):	<u>56.5</u>	<u>89.3</u>	<u>67.7</u>
19. Unit Forced Outage Rate:	<u>35.8</u>	<u>5.7</u>	<u>5.5</u>
20. Unit Forced Outage Hours:	<u>266.6</u>	<u>334.4</u>	<u>834.7</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.: 50-456
 UNIT: Braidwood 1
 DATE: 09/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

MONTH: August, 1990

1. _____	1049	17. _____	1085
2. _____	949	18. _____	1061
3. _____	8	19. _____	1109
4. _____	- 14	20. _____	1112
5. _____	- 14	21. _____	1103
6. _____	- 14	22. _____	1034
7. _____	- 14	23. _____	1033
8. _____	- 14	24. _____	1024
9. _____	- 14	25. _____	847
10. _____	- 14	26. _____	967
11. _____	- 14	27. _____	1093
12. _____	- 15	28. _____	1109
13. _____	- 15	29. _____	1103
14. _____	147	30. _____	1052
15. _____	788	31. _____	1038
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.

D. UNIT SHUTDOWNS/REDUCTIONS

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 09/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: August, 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 RECCURRNCE</u>
3	900803	F	266.6	A	1	90-011	BI	ISV	Failure of 1A essential service water discharge check valve. Valve was repaired and/or replaced in part.

 * 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, August 1 through August 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>
90-010	08-08-90	Containment Ventilation signal and L.C.O. 3.0.3 entry from de-energizing 4KV ESF bus to rack out failed breaker.
90-011	08-31-90	Unit shutdown due to failed discharge check valve on the 1A essential service water pump.
90-012	08-31-90	1B safety injection accumulator, 1A, and 1B residual heat removal pumps declared inoperable due to a small weld crack in a 3/4 inch test line.

I. Monthly Report for Braidwood Unit 2

A. Summary of Operating Experience

Braidwood Unit 2 operated routinely in August with no outages or significant power reductions.

B. OPERATING DATA REPORT

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 09/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1. Reporting Period: August, 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:	744	5831	16402
6. Hours Reactor Critical:	744	3975.2	13110.5
7. RX Reserve Shutdown Hours:	0.0	0.0	0.0
8. Hours Generator on Line:	744	3921.1	12982.2
9. Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10. Gross Thermal Energy (MWH):	2451032	10174372	36015330
11. Gross Elec. Energy (MWH):	839646	3433658	12325046
12. Net Elec. Energy (MWH):	806907	3253652	11746627
13. Reactor Service Factor:	100	79.2	79.9
14. Reactor Availability Factor:	100	67.3	79.9
15. Unit Service Factor:	100	67.3	79.2
16. Unit Availability Factor:	100	67.3	79.2
17. Unit Capacity Factor (MDC net):	96.8	49.8	63.9
18. Unit Capacity Factor (DER net):	96.8	49.8	63.9
19. Unit Forced Outage Rate:	0	3.6	4.5
20. Unit Forced Outage Hours:	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: 09/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

MONTH: August, 1990

1. _____	1120	17. _____	1094
2. _____	1119	18. _____	1118
3. _____	1099	19. _____	1107
4. _____	1114	20. _____	1063
5. _____	1118	21. _____	1109
6. _____	1120	22. _____	1054
7. _____	1071	23. _____	1053
8. _____	1084	24. _____	1062
9. _____	1118	25. _____	1111
10. _____	1082	26. _____	1059
11. _____	1101	27. _____	1111
12. _____	886	28. _____	1110
13. _____	1042	29. _____	1107
14. _____	1111	30. _____	1014
15. _____	1113	31. _____	1019
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.

D. UNIT SHUTDOWNS/REDUCTIONS

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 09/10/90
 COMPILED BY: K. M. Dundek
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: August, 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>
-----------	-------------	-------------	--------------	---------------	---------------	-------------------	---------------	------------------	--

None

 * SUMMARY *

<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, August 1 through August 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>
90-011	08-29-90	Containment Ventilation isolation signal due to spurious spiking from 2RE-ARC12 as a result of component failure.