

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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(495/214)

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I. Monthly Report for Braidwood Unit 1

A. Summary of Operating Experience

The unit entered the month of August at 99% reactor power. On August 11, a reactor trip occurred while replacing a fuse on the Rod Control System. The unit was returned to service on August 12. On August 21 power was reduced to less than 50% to evaluate the Quadrant Power Tilt Ratio following load swings ordered by the Load Dispatcher. The unit was returned to 98% reactor power on August 22 and remained at that level through the end of the month.

B. OPERATING DATA REPORT

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 09/09/88
 COMPILED BY: K. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1. Reporting Period: August, 1988 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:	744.0	800.3	800.3
6. Hours Reactor Critical:	727.3	783.6	783.6
7. RX Reserve Shutdown Hours:	0.0	0.0	0.0
8. Hours Generator on Line:	716.3	772.6	772.6
9. Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10. Gross Thermal Energy (MWH):	2172541	2355623	2355623
11. Gross Elec. Energy (MWH):	735674	798364	798364
12. Net Elec. Energy (MWH):	704408	764448	764448
13. Reactor Service Factor:	97.8	97.9	97.9
14. Reactor Availability Factor:	97.8	97.9	97.9
15. Unit Service Factor:	96.3	96.5	96.5
16. Unit Availability Factor:	96.3	96.5	96.5
17. Unit Capacity Factor (MDC net):	84.5	85.3	85.3
18. Unit Capacity Factor (DER net):	84.5	85.3	85.3
19. Unit Forced Outage Rate:	0.04	0.03	0.03
20. Unit Forced Outage Hours:	27.7	27.7	27.7
21. Shutdowns Scheduled Over Next 6 Months:			

22. If Shutdown at End of Report Period, Estimated Date of Startup:
23. Units in Test Status (Prior to Commercial Operation):

	<u>FORECAST</u>	<u>ACHIEVED</u>
Initial Criticality	05/23/87	05/29/87
Initial Electricity	07/11/87	07/12/87
Commercial Operation	07/15/88	07/29/88

JEH

* Numbers re-zeroed due to commercial operation

C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50-456
 UNIT: Braidwood 1
 DATE: 09/09/88
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

MONTH: August, 1988

1. _____	1106	17. _____	1096
2. _____	1094	18. _____	1097
3. _____	1062	19. _____	1084
4. _____	1108	20. _____	1087
5. _____	1035	21. _____	550
6. _____	1033	22. _____	874
7. _____	1012	23. _____	1073
8. _____	1094	24. _____	988
9. _____	1094	25. _____	995
10. _____	1095	26. _____	999
11. _____	530	27. _____	1012
12. _____	11	28. _____	974
13. _____	285	29. _____	991
14. _____	787	30. _____	998
15. _____	1087	31. _____	1009
16. _____	1076		

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: 09/09/88
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: August, 1988

<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>
01	880811	F	27.7	G	3	88-016	N/A	N/A	Reactor trip due to negative rate trip.
02	880821	F	0	F	1	N/A	N/A	N/A	Load reduction to evaluate the Quadrant Power Tilt Ratio following a load swing ordered by the load dispatcher.

 * 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	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-1022)
	F-Administration	9 - Other	
	G-Oper Error		
	H-Other		

E. UNIQUE REPORTING REQUIREMENTS-- UNIT I

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 I

The following is a tabular summary of all Licensee Event Reports submitted during the reporting period, August 1 through August 31, 1988. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFP 50.73.

<u>Licensee Event Report Number</u>	<u>Report Date</u>	<u>Title of Occurrence</u>
88-015-00	07/25/88	Control room ventilation isolation due to inadvertent switch mispositioning.
88-017-00	08/17/88	Missed technical specification composite samples due to failure to implement required changes.
88-018-00	08/17/88	Inoperable valves to 1W001CB containment chiller 1B as a result of out of service procedural deficiency.
88-019-00	08/19/88	Train A and B control room ventilation switchover due to radiation monitors OPR31J thru 34J experiencing a momentary loss of power from 345 KV line loss.

II. Monthly Report for Braidwood Unit 2

A. Summary of Operating Experience

The unit entered the month of August at 74% reactor power. On August 7, power was reduced to below 50% to facilitate Feedwater Pump startup testing. Following this testing, the unit was returned to 74% reactor power on August 8. The unit was again reduced below 50% reactor power on August 13 to facilitate Feedwater Pump testing. On August 15, the unit was returned to 70% reactor power. On August 17, the 75% startup test sequence was completed and the unit was increased to 90% reactor power. On August 23, power was reduced to 26% as a result of a nitrogen leak on a Feedwater Isolation Valve. Upon completion of repairs, the unit was increased to 90% reactor power. On August 31, the 90% startup test sequence was completed and the unit was increased to 100% reactor power.

B. OPERATING DATA REPORT

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 09/09/88
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

OPERATING STATUS

1. Reporting Period: August, 1988 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

	THIS MONTH	YR TO DATE	CUMULATIVE
5. Report period Hours:	744.0	2355.4	2355.4
6. Hours Reactor Critical:	744.0	2111.7	2111.7
7. RX Reserve Shutdown Hours:	0.0	0.0	0.0
8. Hours Generator on Line:	744.0	1951.6	1951.6
9. Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10. Gross Thermal Energy (MWH):	1916252	3734970	3734970
11. Gross Elec. Energy (MWH):	639092	1157854	1157854
12. Net Elec. Energy (MWH):	608370	1091199	1091199
13. Reactor Service Factor:	N/A	N/A	N/A
14. Reactor Availability Factor:	N/A	N/A	N/A
15. Unit Service Factor:	N/A	N/A	N/A
16. Unit Availability Factor:	N/A	N/A	N/A
17. Unit Capacity Factor (MDC net):	N/A	N/A	N/A
18. Unit Capacity Factor (DER net):	N/A	N/A	N/A
19. Unit Forced Outage Rate:	N/A	N/A	N/A
20. Unit Forced Outage Hours:	0.0	204.1	204.1
21. Shutdowns Scheduled Over Next 6 Months:			

22. If Shutdown at End of Report Period,
 Estimated Date of Startup: _____

23. Units in Test Status (Prior to
 Commercial Operation):

	FORECAST	ACHIEVED
Initial Criticality	02/29/88	03/08/88
Initial Electricity	03/28/88	05/25/88
Commercial Operation	10/17/88	_____

C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50-457
 UNIT: Braidwood 2
 DATE: 09/09/88
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

MONTH: August, 1988

1. _____	806	_____	17. _____	823	_____
2. _____	810	_____	18. _____	987	_____
3. _____	802	_____	19. _____	996	_____
4. _____	794	_____	20. _____	998	_____
5. _____	802	_____	21. _____	994	_____
6. _____	803	_____	22. _____	1000	_____
7. _____	527	_____	23. _____	603	_____
8. _____	716	_____	24. _____	220	_____
9. _____	796	_____	25. _____	638	_____
10. _____	795	_____	26. _____	1042	_____
11. _____	787	_____	27. _____	1110	_____
12. _____	777	_____	28. _____	1116	_____
13. _____	533	_____	29. _____	1017	_____
14. _____	516	_____	30. _____	902	_____
15. _____	748	_____	31. _____	1052	_____
16. _____	815	_____			

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: 09/09/88
 COMPILED BY: M. W. Peterson
 TELEPHONE: (815)458-2801
 ext. 2480

REPORT PERIOD: August, 1988

<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>
10	880807	S	0	B	5	N/A	N/A	N/A	Load reduction to facilitate startup testing of the Feedwater System.
11	880813	S	0	B	5	N/A	N/A	N/A	Load reduction to facilitate startup testing of the Feedwater System.
12	880823	F	0	A	5	N/A	N/A	N/A	Load reduction due to a nitrogen leak while performing a Feedwater System surveillance. Leak was repaired.

 * SUMMARY *

<u>TYPE</u>	<u>REASON</u>	<u>METHOD</u>	<u>SYSTEM & COMPONENT</u>
F-Forced S-Scheduled	A-Equipment Failure B-Maint or Test C-Refueling D-Regulatory Restriction E-Operator Training & License Examination F-Administration G-Oper Error H-Other	1 - Manual 2 - Manual Scram 3 - Auto Scram 4 - Continued 5 - Reduced Load 9 - Other	Exhibit F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-1022)

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>
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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, 1988. 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>
88-019-00	08/19/88	Manual reactor trip due to approaching low low steam generator levels as a result of instrument air valve mispositioning by person or persons unknown.



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

BW/88-1078

September 9, 1988

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, 1988.

Very truly yours,

R. E. Querio
Station Manager
Braidwood Nuclear Station

REQ/RCB/jab
(4957z)

Attachments

cc: A. B. Davis, NRC, Region III
NRC Resident Inspector Braidwood
Gary Wright, Ill. Dept. of Nuclear Safety
T. J. Maiman
K. L. Graesser
H. E. Bliss
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

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