



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

January 10, 1992  
BW/92-0009

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 December 1 through December 31, 1991.

Very truly yours,

K. L. Kofron  
Station Manager  
Braidwood Nuclear Station

KLK/EWC/sjs  
(227/2D85G)

Attachments

cc: A. B. Davis, NRC, Region III  
NRC Resident Inspector Braidwood  
Ill. Dept. of Nuclear Safety  
M. J. Wallace  
E. D. Fenigenburg  
T. J. Kovach  
Nuclear Fuel Services, IWR Plant Support  
INPC Records Center  
Performance Monitoring Group, Tech Staff Braidwood Station  
Nuclear Group, Tech Staff Braidwood Station  
R. Pulsifer - USNRC  
T. W. Simpkin  
D. R. Eggett - Nuclear Engineering Department

2201130074 911231  
PDR ADOCK 05000456  
R PDR  
130000

JE24

TRAIDWOOD 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-72

I. Monthly Report for Braidwood Unit 1

A. Summary of Operating Experience

Braidwood Unit 1 entered the month of December at approximately 99% reactor power. The unit operated routinely with no significant outages or power reductions during the month.

9. OPERATING DATA REPORT

DOCKET NO.: 50-456  
 UNIT: Braidwood 1  
 DATE: 01/10/92  
 COMPILED BY: C. E. Pershey  
 TELEPHONE: (815)458-2801  
 ext. 2173

OPERATING STATUS

1. Reporting Period: December, 1991 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

	THIS MONTH	YR TO DATE	CUMULATIVE
5. Report period Hours:	744.0	8760	30009
6. Hours Reactor Critical:	744.0	5352.9	22280.2
7. RX Reserve Shutdown Hours:	0.0	0.0	0.0
8. Hours Generator on Line:	744.0	5201.1	21837.0
9. Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10. Gross Thermal Energy (MWH):	2409575	15331446	64984516
11. Gross Elec. Energy (MWH):	829610	5241551	22322192
12. Net Elec. Energy (MWH):	798410	4980218	21301924
13. Reactor Service Factor:	100.0	61.1	74.2
14. Reactor Availability Factor:	100.0	61.1	74.2
15. Unit Service Factor:	100.0	59.4	72.8
16. Unit Availability Factor:	100.0	59.4	72.8
17. Unit Capacity Factor (MDC net):	95.8	50.8	63.4
18. Unit Capacity Factor (LER net):	95.8	50.8	63.4
19. Unit Forced Outage Rate:	0.0	24.3	12.6
20. Unit Forced Outage Hours:	0.0	1672.8	3151.8
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 WJ

DOCKET NO.: 50-456  
UNIT: Braidwood 1  
DATE: 01/10/92  
COMPILED BY: C. E. Pershey  
TELEPHONE: (815)458-2801  
ext. 2173

MONTH: December, 1991

1. 1090	17. 1120
2. 1107	18. 1110
3. 1111	19. 1101
4. 1102	20. 1094
5. 1099	21. 1062
6. 1102	22. 1054
7. 1084	23. 1072
8. 980	24. 1031
9. 1033	25. 877
10. *1124	26. 997
11. *1121	27. 1053
12. 1111	28. 1019
13. 1070	29. 1043
14. 1081	30. 1082
15. 1095	31. 1107
16. 1115	

## 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.: 50-456  
 UNIT: Braidwood 1  
 DATE: 01/10/92  
 COMPILED BY: C. E. Pashley  
 TELEPHONE: (815)458-2801  
 ext. 2173

REPORT PERIOD: December, 1991

NO	DATE	TIME	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRING
----	------	------	-------	--------	--------	------------	--------	-----------	--

None

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*

TYPE	REASON	METHOD	SYSTEM & COMPONENT
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 (NREG-0161)
	F-Administration	9 - Other	
	G-Oper Error		
	H-Other		

E. UNIQUE REPORTING REQUIREMENTS - Unit :

1. Safety/Relief valve operation:.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT
------	--------------------	------------------------	--------------------	-------------------------

None

2. Licensee generated changes to OOCM.

None

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, 1991. 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>
91-012	12-05-91	Reactor trip as a result of a feedwater pump trip due to a loss of EH fluid pressure.
91-013	12-12-91	Untested relay contacts cause Diesel Generator inoperability.



I. Monthly Report for Braidwood Unit 2

A. Summary of Operating Experience

Braidwood Unit 2 entered the month of December at approximately 50% reactor power in startup testing following its second refueling outage. The unit tripped on December 1, 1991 with the actuation of the main generator neutral ground overcurrent backup relay. Precautionary measures were taken and the unit was returned to service on December 3, 1991. The unit remained in post refueling testing until December 17, 1991. The unit operated routinely for the remainder of the month.

## B. OPERATING DATA REPORT

DOCKET NO.: 50-457  
UNIT: Braidwood 2  
DATE: 01/10/92  
COMPILED BY: C. E. Pershey  
TELEPHONE: (815)458-2801  
ext. 2173

## OPERATING STATUS

1. Reporting Period: December, 1991 Gross Hours: 744

2. Currently Authorized Power Level (MWt): 3411  
Design Electrical Rating (MWg-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	8760	28091
6. Hours Reactor Critical:	712.7	6727.1	22766.6
7. RX Reserve Shutdown Hours:	0.0	0.0	0.0
8. Hours Generator on Line:	707.4	6628.8	22540.0
9. Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10. Gross Thermal Energy (MWH):	2015229	20045523	65355551
11. Gross Elec. Energy (MWH):	694100	6822667	22357440
12. Net Elec. Energy (MWH):	665365	6535415	21362895
13. Reactor Service Factor:	95.8	76.8	81.0
14. Reactor Availability Factor:	95.8	76.8	81.0
15. Unit Service Factor:	95.1	75.7	80.2
16. Unit Availability Factor:	95.1	75.7	80.2
17. Unit Capacity Factor (MDC net):	79.8	66.6	67.9
18. Unit Capacity Factor (DER net):	79.8	66.6	67.9
19. Unit Forced Outage Rate:	4.9	4.8	4.0
20. Unit Forced Outage Hours:	36.6	334.2	947.8
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: 01/10/92  
COMPILED BY: C. E. Pershey  
TELEPHONE: (815)458-2801  
ext. 2173

MONTH: December, 1991

1. 385	17. 1115
2. -15	18. 1094
3. 244	19. 1113
4. 533	20. 1096
5. 535	21. 1072
6. 540	22. 1069
7. 522	23. 1078
8. 692	24. 1039
9. 848	25. 1025
10. 893	26. 1073
11. 1103	27. 1036
12. 1117	28. 1058
13. 1118	29. 858
14. 1114	30. 1016
15. 1116	31. 1099
16. 1117	

## 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: 01/10/92  
 COMPILED BY: C. E. Pershey  
 TELEPHONE: (815)458-2801  
 ext. 2173

REPORT PERIOD: December, 1991

No.	DATE	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
10	911201	F	16.6	A	3	91-906	TB	59	Actuation of the main generator neutral ground overcurrent backup relay causing a generator trip. A turbine and reactor trip followed as designed. Troubleshooting found all possible causes of the actuation to be operating properly. As a precautionary measure, the potential transformer fuses were replaced prior to the unit being returned to service.

\*\*\*\*\*  
 \* SUMMARY \*  
 \*\*\*\*\*

TYPE	REASON	METHOD	SYSTEM & COMPONENT
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	Licenses Event Report
	E-Operator Training & License Examination	5 - Reduced Load	(LER) file (NREG-0161)
	F-Administration	9 - Other	
	G-Oper Error		
	H-Other		

2. UNIQUE REPORTING REQUIREMENTS - UNIT 2

1. Safety/relief valve operations.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT
------	--------------------	------------------------	--------------------	-------------------------

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, December 1 through December 31, 1991. 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>
91-006	12-23-91	Generator trip caused by spurious actuation of neutral ground relay.