

October 10, 1990 BW/90-1008

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 September 1 through September 30, 1990.

Very truly yours,

Station Manager

Braidwood Nuclear Station

KLK/EWC/clf (134/ZD85G)

Attachments

cc: A. B. Davis, NRC, Region III NRC Resident Inspector Braidwood Ill. Dept. of Nuclear Safety M. J. Wallace K. L. Graessor T. J. Kovach Nuclear Fuel Services, PWR Plant Support 1NPO 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

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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 entered the month at approximately 95% reactor power. On September 29,1990 the unit tripped due to spurious Solid State Protection System (SSPS) actuations. The unit remained shutdown the remainder of the month.

#### B. OPERATING DATA REPORT

DOCKET NO .: 50-456

UNIT: Braidwood 1

DATE: 10/10/90

COMPILED BY: K. M. Dundek TELEPHONE: (815)458-2801

ext. 2480

#### OPERATING STATUS

1. Reporting Period: September, 1990 Gross Hours: 720

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:	720	6551	19040
6.	Hours Reactor Critical:	689.6	6215.5	15312.7
7.	RX Reserve Shutdown Hours:	0.0	0.0	0.0
8.	Hours Generator on Line:	689.6	6186.2	15035.8
9.	Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10.	Gross Thermal Energy (MWH):	2196142	19695912	44499120
11.	Gross Elec. Energy (MWH):	756790	6815646	15296713
12.	Net Elec. Energy (MWH):	727440	5557341	14614512
13.	Reactor Service Factor:	95.8	94.9	80.4
14.	Reactor Availability Factor:	95.8	94.9	80.4
15.	Unit Service Factor:	95.8	94.4	79.0
16.	Unit Availability Factor:	95.8	94.4	79.0
17.	Unit Capacity Factor (MDC net):	90.2	89.4	68.5
18.	Unit Capacity Factor (DER net):	90.2	89.4	68.5
19.	Unit Forced Outage Rate:	4.2	5.6	5.4
20.	Unit Forced Outage Hours:	30.4	364.8	865.1
		THE RESERVE TO SERVE AND ADDRESS OF THE PARTY OF THE PART	NEW YORK CHARLES AND THE PARTY OF	

21. Shutdowns Scheduled Over Next 6 Months: Refueling Outage - March, 1991

22. If Shutdown at End of Report Period,

Estimated Date of Startup: October 10, 1990

#### C. AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO .: 50-456

DATE:

UNIT: Braidwood 1

10/10/90

COMPILED BY: TELEPHONE:

K. M. Dundek (815)458-2801

ext. 2480

MONTH:	September,	1990
CONTRACTOR OF THE PARTY OF		

MUNIN: 3	eptember, 1990			
1	1053	17	1026	
2	1082	18.	1037	
3	1016	19.	1014	
4	1042	20	1024	
5	1112	21	1053	
6	1109	22	108?	
7	1095	23	1024	
8	1085	24.	1035	
9	1011	25.	1045	
10	1099	26	1048	
11	1052	27	1057	
12	1082	28	1099	
13	1095	29	815	
14	1080	30	-15	
15	996			
16	941			

#### 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 a seeds 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.

#### UNIT SHUTDOWNS/REDUCTIONS D.

DOCKET NO.: 50-456

UNIT: Braidwood 1 DATE: 10/10/90

COMPILED BY: K. M. Dundek TELEPHONE: (815)458-2801

ext. 2480

REPORT PERIOD: September, 1990

No	DATE	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
4	90092	9 F	30.4	•	3	90-013	JG Ir	Under mestigation	Spurious "B" Train Solid State Protection System (SSPS) actuations appeared to be caused by internal problem with SSPS processing circuitry.

# \*SUMMARY\*

TYPE	REASON	METHOD	SYSTEM & COMPONENT
F-Forced S-Scheduled	4-Equipment Failure Maint or Test :-Maint or Test C-Refueling D-Regulatory Restriction E-Operator Training & License Examination F-Administration G-Oper Error H-Other	1 - Manual 2 - Manual Scr.m 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-0161)

(134/ZD85G/6)

- E. UNIQUE REPORTING REQUIREMENTS Unit 1
  - 1. Safety/Relief value operations.

DATE ACTUATED ACTUATION PLANT CONDITION

DESCRIPTION OF EVENT

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, September 1 through September 30, 1990. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFR 50.73

Licensee Event Report Number	Report Date	Title of Occurrence
90-013	09-06-90	Feedwater Isolation due to spurious actuation of the Train B Feedwater Isolation Circuitry.
90-014	09-11-90	Entry into Mode 3 prior to performing 1B Main Steamline Isolation Valve Operability Test due to management deficiency.
90-015	09-26-90	Missed Auxiliary Building Vent Stack Grab Sample due to personnel error.
90-016	09-27-90	Spurious Auto Start of the Auxiliary Building Inaccessible Filter Plenum A Charcoal Booster Fan OB due to unknown cause.

- 1. Monthly Report for Braidwood Unit 2
  - A. Summary of Operating Experience

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

#### B. OPERATING DATA REPORT

DOCKET NO .: 50-457

UNIT: Braidwood 2

DATE: 10/10/90 COMPILED BY: K. M. Dun

OMPILED BY: K. M. Dundek TELEPHONE: (815)458-2801 ext. 2480

#### OPERATING STATUS

1. Reporting Period: September, 1990 Gross Hours: 720

2. Currently Authorized Power Level (MWt): 3411
Design Electrical Rating (MWe-gross): 1175
Design Electrical Rating (MWe-gross): 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 Anv): None

•	Reasons for restriction (11 Any): None	THIS MONTH	YR TO DATE	CUMULATIVE
5.	Report period Kours:	720	6551	17122
6.	Hours Reactor Critical:	720	4695.2	13830.5
7.	RX Reserve Shutdown Hours:	0.0	0.0	0.0
8.	Hours Generator on Line:	720	4641.1	13702.2
9.	Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10.	Gross Thermal Energy (MWH):	2318122	12492494	38333452
11.	Gross Elec. Energy (MWH):	795182	4228840	13120228
12.	Net Elec. Energy (MWH):	764793	4018445	12511420
13.	Reactor Service Factor:	100	71.7	80.8
14.	Reactor Availability Factor:	100	71.7	80.8
15.	Unit Service Factor:	100	70.8	80.0
16.	Unit Availability Factor:	100	70.8	80.0
17.	Unit Capacity Factor (MDC net):	94.8	54.8	65.2
18.	Unit Capacity Factor (DER net):	94.8	54.8	65.2
19.	Unit Forced Outage Rate:	0.0	3.1	4.3
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: 10/10/90

COMPILED BY: K. M. Dundek TELEPHONE: (815)458-2801

ext. 2480

MONTH: Septe	ember, 1	990
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MONTH. SE	premoer, 1990			
1	1046	17	1041	
2	1078	18	1033	
3	1026	19	1012	
4	8ذر ا	20	1006	
5	1073	21	1049	
6	1055	22	1084	
7	1094	23	1043	
8	1090	24	1053	
9	976	25	* 1133	
10	1047	26	1113	
11	1060	27	1063	
12	1112	28	1104	
13	1111	29	1109	
14	1099	30	1088	
15	1006			
16	980			

#### INSTRUCTIONS

On this form list the everage 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.

<sup>\*</sup> Due to Condenser Efficiencies

### D. UNIT SHUTDOWNS/REDUCTIONS

DOCKET NO.: 50-457

UNIT: Braidwood 2

DATE: 10/10/90

COMPILED BY: K. M. Dundek TELEPHONE: (815)458-2801

ext. 2480

REPORT PERIOD: September, 1990

NO DATE TYPE HOURS REASON METHOD LER NUMBER SYSTEM COMPONENT CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE

None

\* S U M M A R Y \*

F-Forced A-Equipment Failure Maint or Test
S-Scheduled 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 Sc

METHOD

2 - Manual Scram 3 - Auto Scram

4 - Continued 5 - Reduced Load

9 - Other

SYSTEM & COMPONENT

Exhibit F & H
Instructions for Preparation of

Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)

## E. UNIQUE REPOPTING REQUIREMENTS - UNIT 2

1. Safety/ lief valve operations.

DATE VALVES NO & TYPE PLANT CONDITION

DESCRIPTION OF EVENT

2. Licensee generated changes to ODCM.

None

None

#### F. LICENSEE EVENT REPORTS - UNIT 2

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

Licensee Event Report Number Report Date

Title of Occurrence

NONE