February 10, 1992 BW/92-0080

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 January 1 through January 31, 1992.

Very truly yours,

Station Manager

Braidwood Nuclear Station

KLK/JL/dla (227/ZD85G)

Attachments

cc: A. B. Davis, NRC, Region III
NRC Resident Inspector Braidwood
III. Dept. of Nuclear Safety
M. J. Wallace

E. D. Eenigenburg 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

R. Pulsifer - USNRC

T. W. Simpkin

D. R. Eggett - Nuclear Engineering Department

Test.

BRAIDWOOD NUCLEAR POWER STATION

UNIT 1 AND UNIT 2

MONTHLY PERFORMANCE REPORT

COMMONWEALTH EDISON COMPANY

NRC DOCKET NO. G50-456, LICENSE NO. NPF-72

NRC DOCKET NO. 050-457, LICENSE NC SPF-77

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

Braidwood Unit 1 entered the month of January, 1992, at approximately 94% reactor power. The unit operated routinely during the month with no significant outages or power reductions.

. B. OPERATING DATA REPORT

DOCKET NO .: 50-456

UNIT: Braidwood 1

DATE: 02/10/92

COMPILED BY: C. E. Pershey TELEPHONE: (815)458-2801

ext. 2173

OPERATING STATUS

1. Reporting Period: January, 1992 Gross Hours: 744

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	744.0	30753
6.	Hours Reactor Critical:	744.0	744.0	23024.2
7.	RX Reserve Shutdown Hours:	0.0	0.0	0.0
8.	Hours Generator on Line:	744.0	744.0	22576.0
9.	Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10.	Gross Thermal Energy (MWH):	2442760	2442760	67427276
11.	Gross Elec. Energy (MWH):	839770	839770	23161962
12.	Net Elec. Energy (MWH):	809197	809197	22111121
13.	Reactor Service Factor:	100.0	100.0	74.9
14.	Reactor Availability Factor:	100.0	100.0	74.9
15.	Unit Service Factor:	100.0	100.0	73.4
16.	Unit Availability Factor:	100.0	100.0	73.4
17.	Unit Capacity Factor (MDC net):	97.1	97.1	64.2
18.	Unit Capacity Factor (DER net):	97.1	97.1	64.2
19.	Unit Forced Outage Rate:	0.0	0.0	12.3
20.	Unit Forced Outage Hours:	0.0	0.0	3151.8

21. Shutdowns Scheduled Over Next 6 Months: None

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

AVERAGE DAILY UNIT NET POWER LEVEL LOG

DOCKET NO.: 50-456

UNIT: Bratdwood 1

DATE: 02/10/92

COMPILED BY: C. E. Pershey TELEPHONE: (815)458-2801

ext. 2173

1,	1010	17	1117
2.	1062	18.	1088
3.	1088	19.	1091
4.	1102	20.	1074
5	1029	21.	1102
6.	1079	22.	1107
7	1112	23.	1045
8	1101	24.	1096
9.	1112	25.	1075
o	1103	26.	1088
١	1094	27.	1060
2.	1078	28.	1085
s	1096	29.	1109
4	1107	30.	1098
5	1107	31.	1063
6.	1120		

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

MNIT: Braidwood 1

DATE: 02/10/92

COMPILED BY: C. E. Pershey TELEPHONE: (815)458-2801

ext. 2173

REPORT PERIOD: January, 1992

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

None

TYPE	REASON	METHOD	SYSTEM & COMPONENT
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-0161)

(227/ZD85G)6

E. UNIQUE REPORTING REQUIREMENTS - Unit 1

Safety/Relief valve operations.

DATE VALVES ACTUATED

NO & TYPE ACTUATION PLANT CONDITION DESCRIPTION OF EVENT

None

Licensee generated changes to ODCM.See attached.

(227/ZD85G)7

F. LICENSEE EVENT REPORTS - UNIT 1

The following is a tabular summary of all Licensee Event Reports submitted during the reporting period, January 1 through January 31, 1992. 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

None

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

Braidwood ".it 2 entered the month of January, 1992, at approximately 96% reactor power. The unit operated routinely during the month until January 26, 1992, when load was reduced to perform scheduled maintenance on the Heater Drains system. The unit operated routinely through the end of the month following this maintenance.

B. OPERATING DATA REPORT

DOCKET NO.: 50-457

UNIT: Braidwood 2

DATE: 02/10/92

COMPILED BY: C. E. Pershey TELEPHONE: (815)458-2801

ext. 2173

OPERATING STATUS

1. Reporting Period: January, 1992 Gross Hours: 744

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	744	28835
6.	Hours Reactor Critical:	744	744	23510.6
7.	RX Reserve Shutdown Hours:	0.0	0.0	0.0
8.	Hours Generator on Line:	744	744	23284.0
9.	Unit Reserve Shutdown Hours:	0.0	0.0	0.0
10.	Gross Thermal Energy (MWH):	2422273	2422273	67777824
11.	Gross Elec. Energy (MWH):	836260	836260	23193700
12.	Net Elec. Energy (MWH):	805962	805962	22168857
13.	Reactor Service Factor:	100	100	81.5
14.	Reactor Availability Factor:	100	100	81.5
15.	Unit Service Factor:	100	100	80.7
16.	Unit Availability Factor:	100	100	80.7
17.	Unit Capacity Factor (MDC net):	96.7	96.7	68.6
18.	Unit Capacity Factor (DER net):	96.7	96.7	68.6
19.	Unit Forced Outage Rate:	0.0	0.0	3.9
20.	Unit Forced Outage Hours:	0.0	0.0	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 UN'T NET POWER LEVEL LOG

DOCKET NO.: 50-457

UNIT: Braidwood 2

DATE: 02/10/92

COMPILED BY: C. E. Pershey TELEPHONE: (815)458-2801

ext. 2173

MONTH: J	anuary, 1992		
1.	1065	17.	1047
2.	1069	18.	1097
3	1078	19.	1089
4.	1103	20.	1098
5	1099	21.	1103
6	1095	22.	1105
7.	1115	23.	1087
8.	1118	24	1092
9	*1127	25.	1068
10.	1119	26	683
11.	1095	27.	1087
12.	1075	28.	1120
13	1093	29.	1111
14.	1109	30.	1098
15	1114	31	1089
16.	1120		

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. (227/ZD85G)11

D. UNIT SHUTDOWNS/REDUCTIONS

DOCKET NO .: 50-457

UNIT: Braidwood 2

DATE: 02/10/92

COMPILED BY: C. E. Pershey TELEPHONE: (815)458-2801

ext. 2173

REPORT PERIOD: January, 1992

No	DATE	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
1	92012	6 S	19.3	В	5	N/A	SI	STR	Load reduction taken to perform a scheduled Heater Drain pump strainer flush. Pump was returned to service prior to power ascension.

* S U M M A R Y *

TYPE	REASON	METHOD	SYSTEM & COMPONENT
F-Forced S-Scheduled	A-Equipment Failure 8-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 (MUREG-0161)

E. UNIQUE REPORTING REQUIREMENTS - UNIT 2

None

Safety/Relief valve operations.

DATE VALVES NO & TYPE
ACTUATED ACTUATION

PLANT CONDITION DESCRIPTION OF EVENT

Licensee generated changes to ODCM.See attached.

F. LICENSEE EVENT REPORTS - UNIT 2

The following is a tabular summary of all Licensee Event Reports submitted during the reporting period, January 1 through January 31, 1992. 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
91-006	01-13-92	Generator trip caused by spurious actuation of neutral ground relay.

CHANGES TO THE OFFSITE DOSE CALCULATION MANUAL

Changes to the Offsite Dose Calculation Manual (ODCM) are reportable to the Nuclear Regulatory Commission (NRC) in accordance with station Technical Specifications.

Part I of Revision O.F. to the Braidwood Annex identifies a new dairy for milk sampling, BD-26, Gaddis Farm, replacing BD-18, Biros Dairy Farm.

This revision does not reduce the accuracy or reliability of dose calculations or setpoint determinations, and has been reviewed and found acceptable by the Onsite Review and Investigative Function.

BwAF 1205-3T1 Revision 4

Braidwood On-site Review and Investigation Report

OSR Number: _	92-007		Date: 1-23 92
Subject Review:	Offsik Dise Collectation Hand	al (out) Are I	of Rev of
	pages 11-7 and 11-17 of Cha		
Requested by:	KILL ALESHIRE		*******
Disciplines Requi		lant Technology	
	B Reactor Operati C Reactor Engineer		
	D D Chemistry	rrang	
	M E Radiation Prote		
	D F Instrumentation		
	M G Mechanical and		
	P Sugarior	0 E	n mit verkenste in de seuscher.
	55		e Militaria de la colonia.
E	P courd.		
OSR Membership Ap	proved miled I Pra	wer .	1/23/42
	Technical Staff Sup	pervisor /	Date
Findings and Reco	ired by Offsite Review? () commendations: identify a new day, with Tochnormal Span	g to milk som	pline, in
**************************************		cates concurrence w	
Signatures	Piscipline(s)	Date	east armanarcan
mule I Prague	A 8 6	1/23/42	
Vin Weeken	moderate annual control of the contr	12352	APPROVED
Ellien m	LAL	7.28 5.3	
9240	Alice	1-27-92	JUL 0 9 1991
Mark Mark Mark	Character and the State of the		BRAIDWOOD ON-SITE REVIEW
Approved by:	D. 18.	In the second	31-92
Chinago pl.	STATION MANAGER		DATE
130(07000))			

BRAIDWOOD

BRAIDWOOD ON-SITE REVIEW AND INVESTIGATION REPORT

		OSR No.	
	***	************************	
		NOTE *	
	* Th	is checklist is provided as guidance for OSR *	
		eparation and review. Items should be	
	* 00	mpleted as appropriate. *	
	***	我们我们的我们我们我们我们的我们的我们的我们的我们的我们的我们的我们的我们的我们	
	Preparer		
	APP. N/A		
1.	SYNOPSIS		
- 1	X }	- Purpose New daily form for milk samples - Executive Summary of Findings and Recommendations	
1	X	- Executive Summary of Findings and Recommendations	
1	1 11	References - Bases of Findings and Recommendations - Contingency Actions Recommended	CONTRACTOR OF STREET
[1 1/1	- Contingency Actions Recommended	
II.	DOCUMENTA	ATION REVIEWED: (List Applicable Sections in Synopsis)	
1	2 1 3	ting an	
	1 11	- Tech Specs. 2/4 12 tonomore to the day Admin Tech Requirements - Safety Evaluation Report - Fire Protection Report	
	1 1	- Admin Tech Requirements	
- 1	1 11	- Fire Protection Report - Prior 10CFR50.59 Safety Evals - NRC Commitments	
		- Prior 10CFR50.59 Safety Evals	-
	1 1	- Vendor Documentation	-
1	1 1-1	- Special Permits/Licenses	
7.0	1 11	- Station Procedures - Environmental Qualification	and processing the con-
1		T MEGAMI MGGAS POURIELLGLAUI	
1	1 1/1	- Drawings - Maint. History (TJM)	
1	1 1	- MPRDS	
1	1 11	* FRA INIO.	
	1 1	- Prior NED QE 40.1 Operability Evaluations	
1	1 1.1		
III.	PLANT CON	NDITIONS: (Discuss Applicable Items in Synopsis)	
- 1	1 61	- Applicable Modes	
		- Work In-Progress/Planned	
	1 11	- Temporary Alteration Installed	
1	1 11	- Out-of-Service - Degraded Equipment Log	
1	1 10	- ADROTMAL VAIVE Lineups	
. 1	3 17	- 672MCE OB UDDOSITM 1781B	
	1 11	- Effect on Other Unit - Effect on Other Station	
	1 17	- rigining reduited	
1	1 11	*	
IV.	OTHER IN	ICTNEDIETOUS (Nimes bestient)	
		열심하다 하시는 사람들이 되었다. 하는 사람들이 되는 사람들이 하는 사람들이 하는 사람들이 가득하게 하지 않아 모든 것이다.	
13	()	- Consistency (dates, document no.s, values, EID's etc.)	
1	1 10	- Grammar (Continuity, spelling, flow, etc.) - Engineering Review of A/E Calculations and Assumptions	
		Adequately Documented - Reportability (10CFR72, 10CFR72, etc)	
1	1	- Reportability (10CFR21, 10CFR72, etc)	
1	1 11		
Prepa	ared by: _	Um Abshir 12892 APPRO	OVED .
130(0	070991)	(Final) 2 of 2	1001
ZWBWI		두 경기는 이 경기가 하는 이번 경기를 보고 있다. 그는 이 사고 없다.	- 01

BRAIDWOOD ANNEX INDEX

PAGE	REVISION
CHAPTER	11
11-i 11-ii 11-ii 11-iv 11-1 11-2 11-3 11-4 11-5 11-6 11-7 11-8 11-9 11-10	0.F 0.A 0.A 0.O 0 0.D 0.F 0.A
11-11 11-12 11-13 11-14 11-15 11-16	0 0.A 0 0 0
11-7	0.F

3. Waterbornee (Cont'd)

d. Cooling Water BD-08, Intake Pipe No. 3, 5.0 mi E (8.0 km E) Weekly 6D-09. Discharge Pipe No. 4, 5.0 mi E (8.0 km E)

> Gamma isotopic Semiannually analysis on each sample.

e. Shoreline Sediments

80-10, Kankakee River downstream of discharge, 5.0 mi ENE (8.0 km D)

4. Ingestione

b. Fish

Indicators a. Milk BD-11, Morris/Mack Farm, 2.4 mi E (3.9 km E) BD-17, Halpin's Dairy, 5.5 mi SSW (8.8 km K)

BD-26, Gaddis Farm, 11.0 mi ESE (17.6 km F)

Controls

BD-18, Biros Farm, 10.5 mi W (16.9 km N)

BD-07, Kankakee River upstream of discharge,

80-10. Kankakee River downstream of discharge, 5.0 mi ENE (8.0 km D)

BD-14, Pinnick Farm, 1.8 mi N (2.9 km A) c. Vegetables BD-15, Girot Farm, 1.4 mi N (2.2 km A) BD-16, Clark Farm, 3.3 mi ENE (5.5 km D)

5.4 mi E (8.7 km E)

Semimonthly: May to October Monthly: November to April

Gamma isotopic and I-131 analysis on each sample.

Gross beta analysis

Three times a year (spring, summer, and fall)

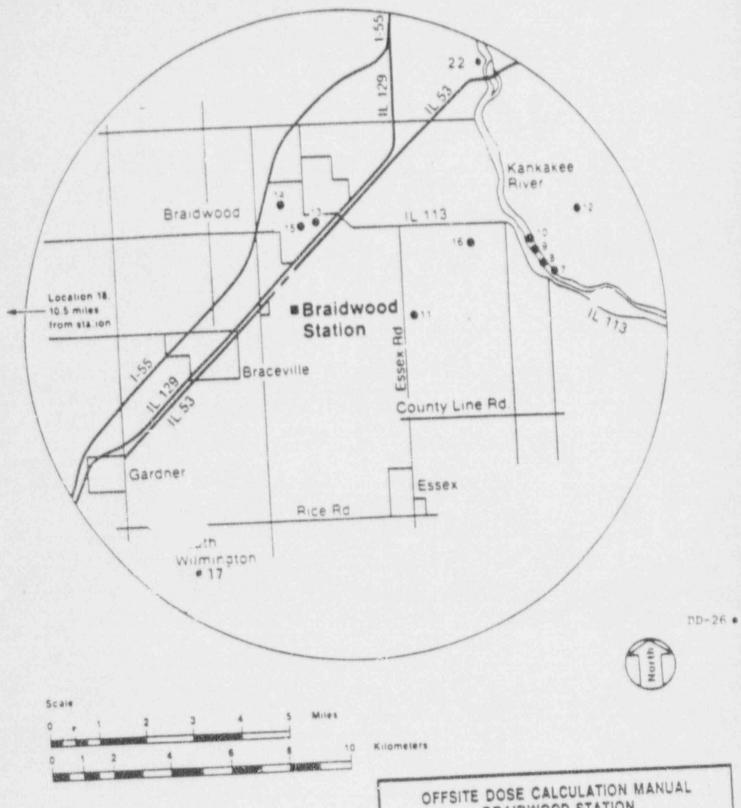
Annually

Gamma isotopic analysis on edible portions.

Gamma isotopic

portions.

analysis on edible



BRAIDWOOD STATION

FIGURE 11-3

INGESTION AND WATERBORNE EXPOSURE PATHWAY SAMPLE LOCATIONS