BYRON NUCLEAR POWER STATION

UNIT 1 AND UNIT 2

MONTHLY PERFORMANCE REPORT

COMMONWEALTH EDISON COMPANY

NRC DOCKET NO. 050-454

NRC DOCKET NO. 050-455

LICENSE NO. NPF-37

LICENSE NO. NPF-66

IE24
1/1

(0625M/0062M-2)

I. Monthly Report for Byron Unit 1 for the month of February 1989

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 3 (Hot Standby). At 0424 on 2/1/89 the unit was taken critical. At 0826 on 2/1/89 the unit was synchronized to the grid. The unit operated at power levels of up to 100% until 2/10/89 when power was reduced to repair a leak in the 1A circulating waterbox. The waterbox was repaired. The unit operated at power levels of up to 100% until 2/18/89 when a load reduction was initiated due to a feedwater pump trip. The unit operated at power levels of up to 100% for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 03/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

OPERATING STATUS

1. Reporting Period: February 1989. Gross Hours: 672

2. Currently Authorized Power Level: 3411 (MWt)
   Design Electrical Rating: 1175 (MWe-gross)
   Design Electrical Rating: 1120 (MWe-net)
   Max Dependable Capacity: 1105 (MWe-net)

3. Power Level to Which Restricted (If Any): N/A

4. Reasons for Restriction (If Any):

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	672	1416	30289
6. Rx Critical Hours	668.7	1398.7	23195.8
7. Rx Reserve Shutdown Hours	0	0	37.8
8. Hours Generator on Line	663.6	1393.6	22750.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2133181	4568669	68095982
11. Gross Elec. Energy (MWH)	719363	1552072	22864953
12. Net Elec. Energy (MWH)	684495	1477320	21509911
13. Reactor Service Factor	99.5	98.8	76.6
14. Reactor Availability Factor	99.5	98.8	76.7
15. Unit Service Factor	98.8	98.4	75.1
16. Unit Availability Factor	98.8	98.4	75.1
77. Unit Capacity Factor (MDC net)	92.2	94.4	64.3
18. Unit Capacity Factor (DER net)	90.9	93.2	63.4
19. Unit Forced Outage Hrs.	8.4	22.4	1057
20. Unit Forced Outage Rate	1.3	1.6	4.4

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): None

*Note - The cumulative numbers do not reflect power generated prior to commercial service.

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 03/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

MONTH: February, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	150 MW	16.	1108 MW
2.	915 MW	17.	1104 MW
3.	1105 MW	18.	965 MW
4.	1091 MW	19.	863 MW
5.	1088 MW	20.	1099 MW
6.	1081 MW	21.	1098 MW
7.	1078 MW	22.	1099 MW
8.	1082 MW	23.	1097 MW
9.	1076 MW	24.	1092 MW
10.	1034 MW	25.	1094 MW
11.	819 MW	26.	1105 MW
12.	818 MW	27.	1104 MW
13.	1038 MW	28.	1091 MW
14.	1107 MW		
15.	1107 MW		

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.

Report Period February, 1989

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

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* BYRON *
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
2	01/31/89	F	8.4	A	4		FW	1FW530	Continued from Previous Month
3	02/10/89		0	A	5		CW		Reduced Load due to a Tube Leak in the 1A Circulating Waterbox.
4	02/18/89		0	A	5		FW		Reduced Load Due to 1B Main Feedwater Pump Tripping From Low Lube Oil Pressure.

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* Summary *
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TYPE	Reason		Method	System & Component
F-Forced	A-Equip Failure	F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling	H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction		4-Continued	Data Entry Sheet
	E-Operator Training & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

(0625M/0062M-6)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of February 1989

1. Safety/Relief valve operations for Unit One.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT
None				

2. Licensee generated changes to ODCM. (Y/N)

No

3. Indications of failed fuel. (Y/N)

No

F. LICENSEE EVENT REPORTS (UNIT 1)

The following is a tabular summary of all Licensee Event Reports for Byron Nuclear Power Station, Unit One, submitted during the reporting period, February 1 through February 28, 1989. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

Licensee Event Report Number	Occurrence Date	Title of Occurrence
89-01	11/14/88	Technical Specification Hot Channel Factor Surveillance Performed Late Due to Personnel Error.

II. Monthly Report for Byron Unit 2 for the month of February 1989

A. Summary of Operating Experience for Unit 2

The unit was shutdown the entire reporting period for the first refueling outage.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 03/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

OPERATING STATUS

1. Reporting Period: February 1989. Gross Hours: 672

2. Currently Authorized Power Level: 3411 (MWt)
   Design Electrical Rating: 1175 (MWe-gross)
   Design Electrical Rating: 1120 (MWe-net)
   Max Dependable Capacity: 1105 (MWe-net)

3. Power Level to Which Restricted (If Any): N/A

4. Reasons for Restriction (If Any):

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	672	1416	13393
6. Rx Critical Hours	0	144.3	11149.5
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	0	144.3	10845.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	0	156411	26981828
11. Gross Elec. Energy (MWH)	0	48706	8946623
12. Net Elec. Energy (MWH)	-7910	28204	8357030
13. Reactor Service Factor	0	10.2	83.2
14. Reactor Availability Factor	0	10.2	83.2
15. Unit Service Factor	0	10.2	81.0
16. Unit Availability Factor	0	10.2	81.0
17. Unit Capacity Factor (MDC net)	0	1.8	56.4
18. Unit Capacity Factor (DER net)	0	1.8	55.7
19. Unit Forced Outage Hrs.	0	0	462.6
20. Unit Forced Outage Rate	0	0	4.1

21. Shutdowns Scheduled Over Next 6 Months:

22. If Shutdown at End of Report Period, Estimated Date of Startup: 03/06/89

23. Units in Test Status (Prior to Commercial Operation): None

*Note - The cumulative numbers do not reflect power generated prior to commercial service.

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 03/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

MONTH: February, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	-20 MW	16.	-11 MW
2.	-10 MW	17.	-11 MW
3.	-9 MW	18.	-12 MW
4.	-8 MW	19.	-12 MW
5.	-8 MW	20.	-8 MW
6.	-8 MW	21.	-11 MW
7.	-8 MW	22.	-12 MW
8.	-9 MW	23.	-11 MW
9.	-9 MW	24.	-14 MW
10.	-8 MW	25.	-16 MW
11.	-8 MW	26.	-17 MW
12.	-9 MW	27.	-17 MW
13.	-10 MW	28.	-20 MW
14.	-10 MW		
15.	-10 MW		

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.

(0625M/0062M-11)

Report Period February, 1989

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

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* BYRON *
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	01/07/89	S	672	C	4				Unit 2 Shutdown For Refueling

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* Summary *
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TYPE	Reason	Method	System & Component
F-Forced	A-Equip Failure F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

(0625M/0062M-12)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of February 1989

1. Safety/Relief valve operations for Unit Two.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT
02/22/89	Pressurizer PORV	2RY455A	Mode 5	Valve cycled open during RCS pressure transient.

2. Licensee generated changes to ODCM. (Y/N)

No

3. Indications of failed fuel. (Y/N)

Yes. U.T. exams indicate 6 failed fuel rods

F. LICENSEE EVENT REPORTS (UNIT 2)

The following is a tabular summary of all Licensee Event Reports for Byron Nuclear Power Station, Unit Two, submitted during the reporting period, February 1 through February 28, 1989. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

Licensee Event Report Number	Occurrence Date	Title of Occurrence
None		

Commonwealth Edison
Byron Nuclear Station
4450 North German Church Road
Byron, Illinois 61010

March 10, 1989

LTR: BYRON 89-0235
FILE: 2.7.200

Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report covering Byron Nuclear Power Station for the period February 1 through February 28, 1989.

Sincerely,

R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/DJS/bb

cc: A.B. Davis, NRC, Region III
NRC Resident Inspector Byron
Gary Wright, Ill. Dept. of Nuclear Safety
T.J. Maiman/K.L. Graesser
Nuclear Licensing Manager
Nuclear Fuel Services, PWR Plant Support
L. Anastasia, Station Nuclear Engineering
INPO Records Center
L. Olshan - USNRC

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