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

April 10, 1990

LTR: BYRON 90-0066
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 March 1 through March 31, 1990.

Sincerely,

R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/KO/dm (0525M/0062M)

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

(0625M/0062M-1)

I. Monthly Report for Byron UNIT 1 for the month of March 1990

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in a scheduled refuel outage. On March 1 the unit was in Mode 2 with the reactor going critical at 1521 P.M. The unit entered Mode 1 on March 3 at 0008 A.M. The unit ran at power levels of up to 100% until March 30. On March 30, the unit was brought down to Mode 5 for a scheduled maintenance outage. The unit was in Mode 5 for the remainder of the month.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 04/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441 x2444

OPERATING STATUS

1. Reporting Period: March, 1990. Gross Hours: 744

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.	744	2160	39,793
6. Rx Critical Hours	681	779	31,319
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	622	719	30,813
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1,724,857	1,890,959	93,151,399
11. Gross Elec. Energy (MWH)	570,230	623,640	31,368,058
12. Net Elec. Energy (MWH)	537,489	569,692	29,547,724
13. Reactor Service Factor	91.5	36.1	78.7
14. Reactor Availability Factor	91.5	36.1	78.8
15. Unit Service Factor	83.6	33.3	77.4
16. Unit Availability Factor	83.6	33.3	77.4
17. Unit Capacity Factor (MDC net)	65.4	23.9	67.2
18. Unit Capacity Factor (DER net)	64.5	23.5	66.3
19. Unit Forced Outage Hrs.	0	0	1057
20. Unit Forced Outage Rate	0	0	3.3

21. Shutdowns Scheduled Over Next 6 Months: None

22. If Shutdown at End of Report Period, Estimated Date of Startup: 04/03/90

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

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

(0625M/0062M-3)

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 04/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441 x2444

MONTH: March, 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	-13 MW	16.	1088 MW
2.	-13 MW	17.	1099 MW
3.	-15 MW	18.	1095 MW
4.	156 MW	19.	1098 MW
5.	233 MW	20.	1095 MW
6.	274 MW	21.	1090 MW
7.	449 MW	22.	1091 MW
8.	458 MW	23.	1085 MW
9.	446 MW	24.	1083 MW
10.	722 MW	25.	1076 MW
11.	790 MW	26.	1095 MW
12.	929 MW	27.	1109 MW
13.	934 MW	28.	1107 MW
14.	1009 MW	29.	807 MW
15.	1030 MW	30.	-11 MW
		31.	-13 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-4)

Report Period March, 1990

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

****
* BYRON *
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1.	03/04/90	S	75:31	C	4				B1R03 Complete.
2.	03/30/90	S	47:15	F	1				Began Maintenance Outage B1M01

****
* 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)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of March 1990

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 detectable I-131 at this time.

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, March 1 through March 31, 1990. 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
90-002	03/01/90	Reactor trip OTΔT due to the failure of a resistance temperature detector card coincident with one channel in test.

II. Monthly Report for Byron UNIT 2 for the month of March 1990

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 (Power Operation) at approximately 94.4% power. The unit operated at power levels of up to 100% for the remainder of the month.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 04/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441 x2444

OPERATING STATUS

1. Reporting Period: March, 1990. Gross Hours: 744

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.	744	2,160	22,897
6. Rx Critical Hours	744	2,093	20,158
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	2,085	19,770
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,443,545	6,650,133	52,217,743
11. Gross Elec. Energy (MWH)	839,008	2,285,357	17,630,157
12. Net Elec. Energy (MWH)	796,714	2,171,262	16,561,398
13. Reactor Service Factor	100	96.9	88.0
14. Reactor Availability Factor	100	96.9	88.0
15. Unit Service Factor	100	96.5	86.3
16. Unit Availability Factor	100	96.5	86.3
17. Unit Capacity Factor (MDC net)	96.9	90.9	65.5
18. Unit Capacity Factor (DER net)	95.6	89.8	64.6
19. Unit Forced Outage Hrs.	0	26	845
20. Unit Forced Outage Rate	0	1.2	4.1

21. Shutdowns Scheduled Over Next 6 Months: None

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

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

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

(0625M/0062M-9)

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 04/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441 x2444

MONTH: March, 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1002 MW	16.	1092 MW
2.	1069 MW	17.	1025 MW
3.	1049 MW	18.	899 MW
4.	1070 MW	19.	1080 MW
5.	1055 MW	20.	1098 MW
6.	1103 MW	21.	1087 MW
7.	1111 MW	22.	1030 MW
8.	1090 MW	23.	1095 MW
9.	1085 MW	24.	1080 MW
10.	1088 MW	25.	1058 MW
11.	1064 MW	26.	1080 MW
12.	1044 MW	27.	1098 MW
13.	1075 MW	28.	1112 MW
14.	1044 MW	29.	1116 MW
15.	1053 MW	30.	1106 MW
		31.	1122 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-10)

Report Period March, 1990

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

****
* BYRON *
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence

NO MAJOR SHUTDOWNS/REDUCTIONS TO REPORT FOR MARCH

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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-11)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of March 1990

1. Safety/Relief valve operations for Unit Two.

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)

Yes. Approximately one leaking fuel pin.
Fuel Reliability Indicator = 3.6E-3 µCi/cc

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, March 1 through March 31, 1990. 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		