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

October 10, 1989

LTR: BYRON 89-0950
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 September 1 through September 31, 1989.

Sincerely,

for R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/RA/bb (0625M/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
L. Anastasia, Station Nuclear Engineering
INPO Records Center
L. Olshan - USNRC

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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-2)

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

A. Summary of Operating Experience for Unit 1

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

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 10/10/89
COMPILED BY: R. Aken
TELEPHONE: (815)234-5441 x2730

OPERATING STATUS

1. Reporting Period: September 1989. Gross Hours: 720

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.	720	6,551	35,424
6. Rx Critical Hours	720	6,534	28,331
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	720	6,529	27,885
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,334,417	20,635,699	84,163,012
11. Gross Elec. Energy (MWH)	797,863	7,026,973	28,339,854
12. Net Elec. Energy (MWH)	758,208	6,662,051	26,694,559
13. Reactor Service Factor	100	99.7	80.0
14. Reactor Availability Factor	100	99.7	80.1
15. Unit S vice Factor	100	99.7	78.8
16. Unit Availability Factor	100	99.7	78.8
17. Unit Capacity Factor (MDC net)	95.3	92.0	68.2
18. Unit Capacity Factor (DER net)	94.0	90.8	67.3
19. Unit Forced Outage Hrs.	0	22	1057
20. Unit Forced Outage Rate	0	0.3	3.7

21. Shutdowns Scheduled Over Next 6 Months: One

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.

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 10/10/89
COMPILED BY: R. Aken
TELEPHONE: (815)234-5441
x2730

MONTH: September, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1010 MW	16.	1017 MW
2.	987 MW	17.	1040 MW
3.	982 MW	18.	1059 MW
4.	967 MW	19.	1046 MW
5.	1005 MW	20.	1095 MW
6.	1074 MW	21.	1080 MW
7.	1093 MW	22.	1089 MW
8.	1091 MW	23.	1109 MW
9.	1089 MW	24.	1063 MW
10.	982 MW	25.	1103 MW
11.	1029 MW	26.	1105 MW
12.	1039 MW	27.	1059 MW
13.	1015 MW	28.	1103 MW
14.	1019 MW	29.	1088 MW
15.	1032 MW	30.	1104 MW
		31.	

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-5)

Report Period September, 1989

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

****
* BYRON *
****

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

NO SHUTDOWNS OR REDUCTIONS IN SEPTEMBER 1989

****
* Summary *
****

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)

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

The entire manual was revised and sent to the NRC in August. Attachment B of this revision was submitted with Byron's August report.

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

Yes Possibly one leaking fuel pin
No steady state nominal power data is available.

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, September 1 through September 31, 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
89-008	8/30/89	Auxiliary Feedwater Pressure Switches Found Out of Calibration

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

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 (Power Operation) at approximately 83% power. The unit operated at power levels of up to 98% for the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 10/10/89
COMPILED BY: R. Aken
TELEPHONE: (815)234-5441 x2730

OPERATING STATUS

1. Reporting Period: September 1989. Gross Hours: 720

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.	[illegible]	6551	18,528
6. Rx Critical Hours	720	5035	16,040
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	720	4961	15,662
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,075,113	12,277,215	39,102,632
11. Gross Elec. Energy (MWH)	721,436	4,218,423	13,116,340
12. Net Elec. Energy (MWH)	683,335	3,944,112	12,272,938
13. Reactor Service Factor	100	76.9	86.6
14. Reactor Availability Factor	100	76.9	86.6
15. Unit Service Factor	100	75.7	84.5
16. Unit Availability Factor	100	75.7	84.5
17. Unit Capacity Factor (MDC net)	85.9	54.5	59.9
18. Unit Capacity Factor (DER net)	84.7	53.8	59.1
19. Unit Forced Outage Hrs.	0	169	632
20. Unit Forced Outage Rate	0	3.3	3.9

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-10)

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 10/10/89
COMPILED BY: R. Aken
TELEPHONE: (815)234-5441
x2730

MONTH: September, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	811 MW	16.	941 MW
2.	803 MW	17.	898 MW
3.	688 MW	18.	1008 MW
4.	828 MW	19.	981 MW
5.	924 MW	20.	967 MW
6.	922 MW	21.	972 MW
7.	969 MW	22.	1006 MW
8.	944 MW	23.	1050 MW
9.	912 MW	24.	836 MW
10.	869 MW	25.	1011 MW
11.	916 MW	26.	1021 MW
12.	918 MW	27.	1054 MW
13.	1019 MW	28.	1045 MW
14.	1024 MW	29.	1041 MW
15.	1007 MW	30.	1076 MW
		31.	

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 September, 1989

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
12	09/24/89			F	5				Reduced load per SPSO.

****
* 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 September 1989

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)

The entire manual was revised and sent to the NRC in August. Attachment B of this revision was submitted with Byron's August report.

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

Yes

No steady state nominal power data is available.

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, September 1 through September 31, 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		