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

April 6, 1993

LTR: BYRON 93-0206
FILE: 2.7.200 (1.10.0101)

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, 1993.

Sincerely,

G. K. Schwartz
Station Manager
Byron Nuclear Power Station

GKS/RC/rp

cc: A.B. Davis, NRC, Region III
NRC Resident Inspector Byron
IL Dept. of Nuclear Safety
M.J. Wallace/E.D. Eenigenburg
Nuclear Licensing Manager
Nuclear Fuel Services, PWR Plant Support
D.R. Eggett, Station Nuclear Engineering
INPO Records Center
J.B. Hickman - USNRC
F. Yost - Utility Data Institute, Inc.

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

(3927M/VS/040693/1)

I. Monthly Report for Byron UNIT 1 for the month of March 1993

A. Summary of Operating Experience for Unit 1

The Unit began this reporting period in Mode 6 (Refueling Outage).

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 04/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441 x2282

OPERATING STATUS

1. Reporting Period: March, 1993. 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): None

4. Reasons for Restriction (If Any): N/A

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	2160	66,097
6. Rx Critical Hours	0	842.4	54,500.7
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	0	842.4	53,869.2
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	0	2,641,131	163,097,422
11. Gross Elec. Energy (MWH)	0	889,469	54,991,057
12. Net Elec. Energy (MWH)	-9,392	848,322	52,054,188
13. Reactor Service Factor	0	39.00	82.46
14. Reactor Availability Factor	0	39.00	82.51
15. Unit Service Factor	0	38.99	81.50
16. Unit Availability Factor	0	38.99	81.50
17. Unit Capacity Factor (MDC net)	-1.14	35.54	71.27
18. Unit Capacity Factor (DER net)	-1.13	35.07	70.32
19. Unit Forced Outage Hrs.	0	0	1,403.4
20. Unit Forced Outage Rate	0	0	2.54

21. Shutdowns Scheduled Over Next 6 Months: Refueling Outage B1R05 2/5/93

22. If Shutdown at End of Report Period, Estimated Date of Startup: 4/15/93

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: 04/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441 x2282

MONTH: March, 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	-12 MW	16.	-12 MW
2.	-12 MW	17.	-12 MW
3.	-12 MW	18.	-12 MW
4.	-12 MW	19.	-12 MW
5.	-12 MW	20.	-12 MW
6.	-12 MW	21.	-12 MW
7.	-12 MW	22.	-12 MW
8.	-12 MW	23.	-12 MW
9.	-12 MW	24.	-13 MW
10.	-12 MW	25.	-13 MW
11.	-12 MW	26.	-13 MW
12.	-12 MW	27.	-13 MW
13.	-12 MW	28.	-13 MW
14.	-12 MW	29.	-13 MW
15.	-12 MW	30.	-13 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.

(3927M/VS/040693/4)

Report Period March, 1993

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
2	3/01/93	S	744	C	4				B1R05

****
* Summary *
****

B1R05

TYPE	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Error C-Refueling H-Other D-Regulatory Restriction E-Operator Training & License Examination	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)

(3927M/VS/040693/5)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of March 1993

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.

None

3. Indications of failed fuel.

Fuel Reliability Indicator:

No FRI: Unit Shutdown

4. 10CFR50.46 Reporting Requirements: Peak Clad temperature (PCT) changes resulting from change or errors to the ECCS evaluation model.

Current licensing basis PCT plus margin allocation (°F)

Large Break LOCA	Small Break LOCA
2051.3	1681.6

Explain differences from previous report:

The small break LOCA value changed to account for incorrect safety injection data for the centrifugal charging pump (166.5°) and uncertainty of the pressurizer pressure initial condition during EGC operation (5°) per December 22, 1992 letter from Marcia A. Jackson to Dr. Thomas E. Murley.

F. LICENSEE EVENT REPORTS (UNIT 1)

The following is a tabular summary of all Licensee Event Reports for Byron Nuclear Power Station, Unit One, occurring during the reporting period, March 1, 1993 through March 31, 1993. 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
LER: 454:93-003	3/06/93	Damaged fuel assemblies and upper internals

II. Monthly Report for Byron UNIT 2 for the month of March 1993

A. Summary of Operating Experience for Unit 2

The Unit began this reporting period in Mode 1 (Power Operations).

The power level varied due to load following requirements.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 04/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441 x2282

OPERATING STATUS

1. Reporting Period: March, 1993. 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	49,201
6. Rx Critical Hours	744	2,160	42,495.6
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	2,160	41,965.3
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,500,150	7,087,014	119,837,471
11. Gross Elec. Energy (MWH)	855,112	2,429,777	40,645,715
12. Net Elec. Energy (MWH)	829,093	2,366,394	38,527,153
13. Reactor Service Factor	100	100	86.37
14. Reactor Availability Factor	100	100	86.37
15. Unit Service Factor	100	100	85.29
16. Unit Availability Factor	100	100	85.29
17. Unit Capacity Factor (MDC net)	100.85	99.15	70.86
18. Unit Capacity Factor (DER net)	99.50	97.82	69.92
19. Unit Forced Outage Hrs.	0	0	1244
20. Unit Forced Outage Rate	0	0	2.88

21. Shutdowns Scheduled Over Next 6 Months: 1 B2R04 08/29/93

22. If Shutdown at End of Report Period, Estimated Date of Startup: NONE

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: 04/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441 x2282

MONTH: March, 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1117 MW	16.	1123 MW
2.	1126 MW	17.	1139 MW
3.	1115 MW	18.	1133 MW
4.	1123 MW	19.	1130 MW
5.	1128 MW	20.	1126 MW
6.	1129 MW	21.	1128 MW
7.	1107 MW	22.	1126 MW
8.	1099 MW	23.	1119 MW
9.	1130 MW	24.	1108 MW
10.	1129 MW	25.	1078 MW
11.	1136 MW	26.	1055 MW
12.	1139 MW	27.	1098 MW
13.	1137 MW	28.	1067 MW
14.	1121 MW	29.	1068 MW
15.	1127 MW	30.	1088 MW
		31.	1083 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 March, 1993

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

****
* BYRON *
****

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

****
* Summary *
****

No Shutdown or Major Reductions for Unit 2 in March

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 2) for the month of March 1993

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.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = 2.3E-5 µCi/CC

4. 10CFR50.46 Reporting Requirements: Peak Clad temperature (PCT) changes resulting from changes or errors to the ECCS evaluations model.

Current licensing basis PCT plus major allocations (°F)

Large Break LOCA	Small Break LOCA
2064.1	1681.6

Explain differences from previous report:

The small break LOCA value changed to account for incorrect safety injection data for the centrifugal charging pump (166.5°) and uncertainty of the pressurizer pressure initial condition during EGC operation (5°) per December 22, 1992 letter from Marcia A. Jackson to Dr. Thomas E. Murley.

F. LICENSEE EVENT REPORTS (UNIT 2)

The following is a tabular summary of all Licensee Event Reports for Byron Nuclear Power Station, Unit Two, occurring during the reporting period, March 1, 1993 through March 31, 1993. 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
LER 455:93-002	3/11/93	Unit 1 service water pump availability to Unit 2.