



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

June 6, 1994

LTR: BYRON 94-0207
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 May 1 through
May 31, 1994.

Sincerely,

G. K. Schwartz
Station Manager
Byron Nuclear Power Station

GKS/RC/mn

cc:
J.B. Martin, NRC, Region III
NRC Resident Inspector Byron
IL Dept. of Nuclear Safety
Nuclear Licensing Manager
Nuclear Fuel Services, PWR Plant Support
D.R. Eggett, Station Nuclear Engineering
INPO Records Center
G.F. Dick, Jr. - USNRC
F. Yost - Utility Data Institute, Inc.

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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

I. Monthly Report for Byron UNIT 1 for the month of May 1994

A. Summary of Operating Experience for Unit 1

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.: 050-454
 UNIT: Byron One
 DATE: 06/07/94
 COMPILED BY: R. Colglazier
 TELEPHONE: (815) 234-5441
 x2282

OPERATING STATUS

1. Reporting Period: May, 1994. 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	3,623	76,320
6. Rx Critical Hours	744	3,623	64,433.5
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	3623	63,755.1
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,479,698	12,135,144	195,196,243
11. Gross Elec. Energy (MWH)	854,563	4,173,470	65,992,015
12. Net Elec. Energy (MWH)	816,687	3,991,376	62,554,711
13. Reactor Service Factor	100	100	84.43
14. Reactor Availability Factor	100	100	84.48
15. Unit Service Factor	100	100	83.54
16. Unit Availability Factor	100	100	83.54
17. Unit Capacity Factor (MDC net)	99.34	99.70	74.18
18. Unit Capacity Factor (DER net)	98.01	98.36	73.18
19. Unit Forced Outage Hrs.	0	0	1,498.2
20. Unit Forced Outage Rate	0	0	2.30
21. Shutdowns Scheduled Over Next 6 Months:	1		
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.: 050-454
UNIT: Byron One
DATE: 06/07/94
COMPILED BY: R. Colglazier
TELEPHONE: (815) 234-5441
x2282

MONTH: May, 1994

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1.	1119 MW	16.	1110 MW
2.	1093 MW	17.	1112 MW
3.	1116 MW	18.	1110 MW
4.	1115 MW	19.	1108 MW
5.	1117 MW	20.	1104 MW
6.	1121 MW	21.	1095 MW
7.	1117 MW	22.	854 MW
8.	1103 MW	23.	1092 MW
9.	1055 MW	24.	1101 MW
10.	1111 MW	25.	1104 MW
11.	1099 MW	26.	1113 MW
12.	1110 MW	27.	1114 MW
13.	1106 MW	28.	1107 MW
14.	1106 MW	29.	1103 MW
15.	1103 MW	30.	1097 MW
		31.	1100 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 May, 1994

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	05/22/94	F	6	A	5		FW	Lube Oil Cooler	Inlet Temp. of Lube Oil Cooler at 240°F Possibly Caused by CW Intake Screen Cleaning.

* Summary *

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

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of May 1994

1. Safety/Relief valve operations for Unit One.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO & TYPE ACTUATION</u>	<u>PLANT CONDITION</u>	<u>DESCRIPTION OF EVENT</u>
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None

2. Licensee generated changes to ODCM.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = $3.1 \text{ E-5 } \mu\text{Ci/CC}$

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, May 1, 1994 through May 31, 1994. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

<u>Licensee Event Report Number</u>	<u>Occurrence Date</u>	<u>Title of Occurrence</u>
None		

II. Monthly Report for Byron UNIT 2 for the month of May 1994

A. Summary of Operating Experience for Unit 2

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

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
 UNIT: Byron Two
 DATE: 06/07/94
 COMPILED BY: R. Colglazier
 TELEPHONE: (815)234-5441
 x2282

OPERATING STATUS

1. Reporting Period: May, 1994. 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	3,623	59,424
6. Rx Critical Hours	744	3,623	51,428.9
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	3623	50,828.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,482,014	12,082,056	148,153,983
11. Gross Elec. Energy (MWH)	857,053	4,165,341	50,348,615
12. Net Elec. Energy (MWH)	819,332	3,984,852	47,768,079
13. Reactor Service Factor	100	100	86.55
14. Reactor Availability Factor	100	100	86.55
15. Unit Service Factor	100	100	85.54
16. Unit Availability Factor	100	100	85.54
17. Unit Capacity Factor (MDC net)	99.66	99.54	72.75
18. Unit Capacity Factor (DER net)	98.33	98.20	71.77
19. Unit Forced Outage Hrs.	0	0	1,343.4
20. Unit Forced Outage Rate	0	0	2.57
21. Shutdowns Scheduled Over Next 6 Months:	0		
22. If Shutdown at End of Report Period, 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: 06/07/94
COMPILED BY: R. Colglazier
TELEPHONE: (815) 234-5441
x2282

MONTH: May, 1994

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1.	1122 MW	16.	1117 MW
2.	1116 MW	17.	1120 MW
3.	1114 MW	18.	1116 MW
4.	1116 MW	19.	1113 MW
5.	1114 MW	20.	1107 MW
6.	1115 MW	21.	883 MW
7.	1115 MW	22.	1049 MW
8.	1110 MW	23.	1104 MW
9.	1112 MW	24.	1108 MW
10.	1114 MW	25.	1111 MW
11.	1107 MW	26.	1121 MW
12.	1117 MW	27.	1119 MW
13.	1114 MW	28.	1087 MW
14.	1114 MW	29.	1078 MW
15.	1109 MW	30.	1080 MW
		31.	1106 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 May, 1994

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

<u>No.</u>	<u>Date</u>	<u>Type</u>	<u>Hours</u>	<u>Reason</u>	<u>Method</u>	<u>LER Number</u>	<u>System</u>	<u>Component</u>	<u>Cause & Corrective Action To Prevent Recurrence</u>
3	05/21/94	S		H	5		CW		Reduced Load To Clean Waterboxes

* Summary *

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

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of May 1994

1. Safety/Relief valve operations for Unit Two.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO & TYPE ACTUATION</u>	<u>PLANT CONDITION</u>	<u>DESCRIPTION OF EVENT</u>
None				

2. Licensee generated changes to ODCM.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = $9.2 \text{ E-6 } \mu\text{Ci/CC}$

F. LICENSEE EVENT REPORTS (UNIT 2)

The following is a tabular summary of all Licensee Event Reports for Byron Nuclear Power Station, Unit Two, occurring during the reporting period, May 1, 1994 through May 31, 1994. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

<u>Licensee Event Report Number</u>	<u>Occurrence Date</u>	<u>Title of Occurrence</u>
None		