



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

December 14, 1993

LTR: BYRON 93-0650
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 November 1
through November 30, 1993.

Sincerely,

G. K. Schwartz
Station Manager
Byron Nuclear Power Station

GKS/RC/ng

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
J.B. Hickman - USNRC
F. Yost - Utility Data Institute, Inc.

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(9928MM/WPF/120693/1)

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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 November 1993

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: 12/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: November, 1993. 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): None
4. Reasons for Restriction (If Any): N/A

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	720	8,016	71,953
6. Rx Critical Hours	720	6,408.2	60,066.5
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	720	6,361.1	59,388.1
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,391,630	20,133,378	180,589,669
11. Gross Elec. Energy (MWH)	822,494	6,866,136	60,976,724
12. Net Elec. Energy (MWH)	784,761	6,543,452	57,749,318
13. Reactor Service Factor	100	79.94	83.48
14. Reactor Availability Factor	100	79.94	83.53
15. Unit Service Factor	100	79.36	82.54
16. Unit Availability Factor	100	79.36	82.54
17. Unit Capacity Factor (MDC net)	98.64	73.87	72.63
18. Unit Capacity Factor (DER net)	97.32	72.88	71.66
19. Unit Forced Outage Hrs.	0	94.8	1,498.2
20. Unit Forced Outage Rate	0	1.47	2.46
21. Shutdowns Scheduled Over Next 6 Months:	0	0	0
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: 12/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

MONTH: November, 1993

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1.	1102 MW	16.	1103 MW
2.	1104 MW	17.	1090 MW
3.	1099 MW	18.	1104 MW
4.	1091 MW	19.	1106 MW
5.	1094 MW	20.	1111 MW
6.	1088 MW	21.	1099 MW
7.	1018 MW	22.	1098 MW
8.	1100 MW	23.	1088 MW
9.	1099 MW	24.	1091 MW
10.	1098 MW	25.	1025 MW
11.	1096 MW	26.	1084 MW
12.	1089 MW	27.	1094 MW
13.	1074 MW	28.	1092 MW
14.	1044 MW	29.	1097 MW
15.	1103 MW	30.	1101 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.

Report Period November, 1993

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* 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>
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NO UNIT SHUTDOWN OR MAJOR REDUCTIONS FOR UNIT ONE

* Summary *

<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System & Component</u>	
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 November 1993

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 = 0 μ 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, November 1, 1993 through November 30, 1993. 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 November 1993

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: 12/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: November, 1993. 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): None
4. Reasons for Restriction (If Any): N/A

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	720	8,016	55,057
6. Rx Critical Hours	698	6,726.3	47,061.9
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	695.5	6,656.3	46,461.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,265,593	20,867,354	133,617,811
11. Gross Elec. Energy (MWH)	782,642	7,120,876	45,336,814
12. Net Elec. Energy (MWH)	746,625	6,812,484	42,973,243
13. Reactor Service Factor	96.94	83.91	85.48
14. Reactor Availability Factor	96.94	83.91	85.48
15. Unit Service Factor	96.60	83.04	84.39
16. Unit Availability Factor	96.60	83.04	84.39
17. Unit Capacity Factor (MDC net)	93.84	76.91	70.64
18. Unit Capacity Factor (DER net)	92.59	77.88	69.69
19. Unit Forced Outage Hrs.	24.5	99.4	1,343.4
20. Unit Forced Outage Rate	3.40	1.47	2.81
21. Shutdowns Scheduled Over Next 6 Months:	0	0	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: 12/06/93
COMPILED BY: R. Colglazier
TELEPHONE: (815) 234-5441
x2282

MONTH: November, 1993

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. _____	806 MW	16. _____	1104 MW
2. _____	1042 MW	17. _____	1107 MW
3. _____	1091 MW	18. _____	1114 MW
4. _____	1087 MW	19. _____	1111 MW
5. _____	1097 MW	20. _____	1117 MW
6. _____	1081 MW	21. _____	1093 MW
7. _____	1091 MW	22. _____	1056 MW
8. _____	1088 MW	23. _____	25 MW
9. _____	1088 MW	24. _____	732 MW
10. _____	1088 MW	25. _____	1096 MW
11. _____	1105 MW	26. _____	1090 MW
12. _____	1110 MW	27. _____	1110 MW
13. _____	1078 MW	28. _____	1110 MW
14. _____	1063 MW	29. _____	1109 MW
15. _____	1097 MW	30. _____	1109 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.

Report Period November, 1993

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>
5	11/23/93	F	24.5	A	3	93-008	SSPS	---	Bad Card In The SSPS

* Summary *

<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System & Component</u>	
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 November 1993

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 = 0 μ 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, November 1, 1993 through November 30, 1993. 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>
93-007	Was withdrawn as an LER.	
93-008	11/23/93	Unit 2 Turbine Trip/Reactor Trip due to SSPS Universal Card Failure.