

Commonwealth Edison Company
Byron Generating Station
4450 North German Church Road
Byron, IL 61010-9794
Tel 815-234-5441



November 8, 1996

LTR: BYRON 96-0313
FILE: 2.7.200

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

ATTENTION: Document Control Desk

SUBJECT: Monthly Operating Report
Byron Nuclear Power Station, Units 1 and 2
NRC Docket Numbers: 50: 454 and 455

Gentlemen:

Enclosed for your information is the Monthly Operating Report covering
Byron Nuclear Power Station for the period November 1 through
November 30, 1996.

Sincerely,

A handwritten signature in dark ink, appearing to read "K. L. Kofron", is written over the typed name.

K. L. Kofron
Station Manager
Byron Nuclear Power Station

KLK/JV/ld

cc: A.B. Beach, Regional Administrator - RIII
G. Dick, Byron Project Manager - NRR
S. Burgess, Senior Resident Inspector - Byron
Office of Nuclear Safety - IDNS
INPO Records Center
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 November, 1996.

A. Summary of Operating Experience for Unit 1

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

B. OPERATING DATA REPORT UNIT ONE

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 12/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

OPERATING STATUS

1. Reporting Period: November, 1996 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	8,040	98,257
6. Rx Critical Hours	720	5,922.2	81,141.5
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	720	5,844.4	80,344
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,356,694	18,625,605.8	246,390,560.8
11. Gross Elec. Energy (MWH)	815,464	6,367,073	83,423,331
12. Net Elec. Energy (MWH)	779,432	6,048,998	79,101,458
13. Reactor Service Factor	100	73.66	82.58
14. Reactor Availability Factor	100	73.66	82.62
15. Unit Service Factor	100	72.69	81.77
16. Unit Availability Factor	100	72.69	81.77
17. Unit Capacity Factor (MDC net)	97.97	68.09	72.85
18. Unit Capacity Factor (DER net)	96.66	67.18	71.88
19. Unit Forced Outage Hrs.	0	38.9	1,833.4
20. Unit Forced Outage Rate	0	0.66	2.23
21. Shutdowns Scheduled Over Next 6 Months:	None		
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 UNIT ONE

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 12/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

MONTH: November, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1092 MW	16. 1085 MW
2. 1091 MW	17. 1091 MW
3. 1090 MW	18. 1092 MW
4. 1090 MW	19. 1093 MW
5. 1088 MW	20. 1094 MW
6. 1080 MW	21. 1092 MW
7. 1091 MW	22. 1092 MW
8. 1091 MW	23. 1091 MW
9. 1069 MW	24. 1093 MW
10. 922 MW	25. 1093 MW
11. 1031 MW	26. 1091 MW
12. 1088 MW	27. 1091 MW
13. 1089 MW	28. 1092 MW
14. 1086 MW	29. 1094 MW
15. 1084 MW	30. 1096 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, 1996

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
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No shutdowns or major derating reductions for Unit One.

* Summary *

TYPE	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	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, 1996

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 = $2.3 \text{ E-5 } \mu\text{Ci/CC}$

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, November 1, 1996 through November 30, 1996. 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>
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None

II. Monthly Report for Byron UNIT 2 for the month of November, 1996

A. Summary of Operating Experience for Unit 2

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

B. OPERATING DATA REPORT UNIT TWO

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 12/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

OPERATING STATUS

1. Reporting Period: November, 1996. 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	8,040	81,361
6. Rx Critical Hours	720	6,523.8	70,778.7
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	720	6,481.9	70,102.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,446,246	21,367,997.6	211,369,200.6
11. Gross Elec. Energy (MWH)	843,304	7,333,034	72,038,699
12. Net Elec. Energy (MWH)	806,786	6,996,002	68,467,169
13. Reactor Service Factor	100	81.14	86.99
14. Reactor Availability Factor	100	81.14	86.99
15. Unit Service Factor	100	80.62	86.16
16. Unit Availability Factor	100	80.62	86.16
17. Unit Capacity Factor (MDC net)	101.41	78.75	76.16
18. Unit Capacity Factor (DER net)	100.05	77.69	75.14
19. Unit Forced Outage Hrs.	0	416.2	1,815.4
20. Unit Forced Outage Rate	0	6.03	2.52
21. Shutdowns Scheduled Over Next 6 Months:	None		
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 UNIT TWO

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 12/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

MONTH: November, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1126 MW	16. 1115 MW
2. 1126 MW	17. 1121 MW
3. 1123 MW	18. 1124 MW
4. 1119 MW	19. 1125 MW
5. 1117 MW	20. 1126 MW
6. 1107 MW	21. 1125 MW
7. 1119 MW	22. 1126 MW
8. 1118 MW	23. 1124 MW
9. 1122 MW	24. 1127 MW
10. 1106 MW	25. 1130 MW
11. 1075 MW	26. 1128 MW
12. 1121 MW	27. 1125 MW
13. 1120 MW	28. 1121 MW
14. 1119 MW	29. 1124 MW
15. 1120 MW	30. 1122 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, 1996

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 Component</u>	<u>Cause & Corrective Action To Prevent Recurrence</u>
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NO SHUTDOWNS OR MAJOR REDUCTIONS FOR UNIT TWO IN NOVEMBER

* 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
	C-Refueling	4-Continued	Data Entry Sheet
	H-Other	5-Reduced Load	Licensee Event Report
	D-Regulatory Restriction	9-Other	(LER) File (NUREG-0161)
	E-Operator Training		
	& License Examination		

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of November, 1996

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>
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None

2. Licensee generated changes to ODCM.

None

3. Indications of failed fuel.

Nc. Fuel Reliability Indicator: FRI = $6.8 \text{ E-5 } \mu\text{Ci/cc}$

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, November 1, 1996 through November 30, 1996. 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>
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None.