

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



January 9, 1997

LTR: BYRON 97-0004
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 December 1 through
December 31, 1996.

Sincerely,

A handwritten signature in dark ink, appearing to read "K. L. Koffron".

K. L. Koffron
Station Manager
Byron Nuclear Power Station

KLK/JV/rp

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 December, 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: 01/09/97
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

OPERATING STATUS

1. Reporting Period: December, 1996 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	8,784	99,001
6. Rx Critical Hours	744	6,666.2	81,885.5
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	6,588.4	81,088
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,428,710	21,054,315.8	248,819,270.8
11. Gross Elec. Energy (MWH)	841,690	7,208,763	84,265,021
12. Net Elec. Energy (MWH)	803,297	6,852,295	79,904,755
13. Reactor Service Factor	100	75.89	82.71
14. Reactor Availability Factor	100	75.89	82.75
15. Unit Service Factor	100	75.00	81.91
16. Unit Availability Factor	100	75.00	81.91
17. Unit Capacity Factor (MDC net)	97.71	70.60	73.04
18. Unit Capacity Factor (DER net)	96.40	69.65	72.06
19. Unit Forced Outage Hrs.	0	38.9	1,833.4
20. Unit Forced Outage Rate	0	0.59	2.21
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: 01/09/97
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

MONTH: December, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1097 MW	16. 1096 MW
2. 1098 MW	17. 1095 MW
3. 1096 MW	18. 1094 MW
4. 1090 MW	19. 1093 MW
5. 1092 MW	20. 1093 MW
6. 1093 MW	21. 1093 MW
7. 1094 MW	22. 1092 MW
8. 1092 MW	23. 1088 MW
9. 974 MW	24. 1093 MW
10. 1010 MW	25. 1096 MW
11. 955 MW	26. 1092 MW
12. 1065 MW	27. 1081 MW
13. 1079 MW	28. 1084 MW
14. 1091 MW	29. 1086 MW
15. 1090 MW	30. 1083 MW
	31. 1082 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: December, 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 for Unit One.

* 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
	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 1) for the month of December, 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.

Major revisions were to add a well water location between the site and the Rock River, and to revise radioiodine collection and analysis frequency from weekly to biweekly.

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = $9.4 \text{ E-6 } \mu\text{Ci/CC}$

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, December 1, 1996 through December 31, 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>
454-180-96-0022	12/05/96	Setpoint Discrepancy Between UFSAR And Tech Spec for AR011/12.

II. Monthly Report for Byron UNIT 2 for the month of December, 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: 01/09/97
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

OPERATING STATUS

1. Reporting Period: December, 1996. 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	8,784	82,105
6. Rx Critical Hours	744	7,267.8	71,522.7
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	7,225.9	70,846.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,493,274	23,861,271.6	213,862,474.6
11. Gross Elec. Energy (MWH)	861,790	8,194,824	72,900,489
12. Net Elec. Energy (MWH)	824,802	7,820,804	69,291,971
13. Reactor Service Factor	100	82.74	87.11
14. Reactor Availability Factor	100	82.74	87.11
15. Unit Service Factor	100	82.26	86.29
16. Unit Availability Factor	100	82.26	86.29
17. Unit Capacity Factor (MDC net)	100.33	80.57	76.37
18. Unit Capacity Factor (DER net)	98.98	79.50	75.35
19. Unit Forced Outage Hrs.	0	416.2	1,815.4
20. Unit Forced Outage Rate	0	5.45	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: 01/08/97
COMPILED BY: J. Vogl
TELEPHONE: (815)234-5441
x2282

MONTH: December, 1996

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. 1126 MW	16. 1126 MW
2. 1128 MW	17. 1126 MW
3. 1126 MW	18. 1125 MW
4. 1125 MW	19. 1124 MW
5. 1122 MW	20. 1121 MW
6. 1123 MW	21. 1123 MW
7. 1125 MW	22. 1120 MW
8. 1125 MW	23. 1124 MW
9. 1126 MW	24. 1095 MW
10. 1123 MW	25. 1129 MW
11. 1119 MW	26. 1132 MW
12. 1124 MW	27. 1123 MW
13. 1124 MW	28. 1127 MW
14. 1077 MW	29. 1090 MW
15. 759 MW	30. 1109 MW
	31. 1104 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: December, 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</u>	<u>Component</u>	<u>Cause & Corrective Action To Prevent Recurrence</u>
6	12/14	S	19	B	5		RC	Pump	Reduced Load To Add Oil To 2D RCP

* Summary *

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

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

1. Safety/Relief valve operations for Unit Two.

<u>DATE</u>	<u>VALVES</u> <u>ACTUATED</u>	<u>NC & TYPE</u> <u>ACTUATION</u>	<u>PLANT</u> <u>CONDITION</u>	<u>DESCRIPTION</u> <u>OF EVENT</u>
None				

2. Licensee generated changes to ODCM.

Major revisions were to add a well water location between the site and the Rock River, and to revise radioiodine collection and analysis frequency from weekly to biweekly.

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = $6.7 \text{ E-5 } \mu\text{Ci/cc}$

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, December 1, 1996 through December 31, 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>
None.		