

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



September 9, 1996

LTR: BYRON 96-0241  
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  
August 1 through August 31, 1996

Sincerely,

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

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 August, 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: 09/09/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815)234-5441  
x2282

OPERATING STATUS

1. Reporting Period: August, 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	5,855	96,072
6. Rx Critical Hours	744	3,776.5	78,995.8
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	3,698.3	78,197.9
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	7,435,877	11,624,541.8	239,389,496.8
11. Gross Elec. Energy (MWH)	833,120	3,951,557	81,007,815
12. Net Elec. Energy (MWH)	797,506	3,740,421	76,792,881
13. Reactor Service Factor	100	64.50	82.23
14. Reactor Availability Factor	100	64.50	82.27
15. Unit Service Factor	100	63.16	81.40
16. Unit Availability Factor	100	63.16	81.40
17. Unit Capacity Factor (MDC net)	97.01	57.81	72.34
18. Unit Capacity Factor (DER net)	95.71	57.04	71.37
19. Unit Forced Outage Hrs.	0	0	1,794.5
20. Unit Forced Outage Rate	0	0	2.24
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: 09/09/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815) 234-5441  
x2282

MONTH: August, 1996

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1076 MW	16. 1083 MW
2. 1072 MW	17. 1082 MW
3. 1071 MW	18. 1069 MW
4. 1066 MW	19. 1075 MW
5. 1060 MW	20. 1074 MW
6. 1058 MW	21. 1071 MW
7. 1058 MW	22. 1070 MW
8. 1067 MW	23. 1078 MW
9. 1071 MW	24. 1068 MW
10. 1076 MW	25. 1079 MW
11. 1079 MW	26. 1078 MW
12. 1078 MW	27. 1084 MW
13. 1075 MW	28. 1085 MW
14. 1076 MW	29. 1086 MW
15. 1083 MW	30. 1010 MW
	31. 1057 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: August 1996

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
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NO SHUTDOWNS OR MAJOR REDUCTIONS FOR UNIT ONE

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\* Summary \*  
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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 August, 1996

1. Safety/Relief valve operations for Unit One.

<u>DATE</u>	<u>VALVES</u> <u>ACTUATED</u>	<u>NO &amp; TYPE</u> <u>ACTUATION</u>	<u>PLANT</u> <u>CONDITION</u>	<u>DESCRIPTION</u> <u>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 =  $3.0 \text{ E-5 } \mu\text{Ci/CC}$

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, August 1, 1996 through August 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>
454-180-96-0013	08/14/96	Radiation Monitor Setpoint Discrepancy



II. Monthly Report for Byron UNIT 2 for the month of August, 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: 09/09/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815)234-5441  
x2282

OPERATING STATUS

1. Reporting Period: August, 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	5,855	79,176
6. Rx Critical Hours	178.9	5,131.4	69,386.3
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	178.7	5,126.8	68,747.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	486,347	17,118,809.6	207,120,012.6
11. Gross Elec. Energy (MWH)	163,136	5,873,703	70,579,368
12. Net Elec. Energy (MWH)	147,183	5,614,625	67,085,792
13. Reactor Service Factor	24.05	87.64	87.64
14. Reactor Availability Factor	24.05	87.64	87.64
15. Unit Service Factor	24.02	87.56	86.83
16. Unit Availability Factor	24.02	87.56	86.83
17. Unit Capacity Factor (MDC net)	17.90	86.78	76.68
18. Unit Capacity Factor (DER net)	17.66	85.62	75.65
19. Unit Forced Outage Hrs.	253.3	416.2	1,815.4
20. Unit Forced Outage Rate	58.63	7.51	2.57
21. Shutdowns Scheduled Over Next 6 Months:	None		
22. If Shutdown at End of Report Period, Date of Startup:	9/30/96		
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: 09/09/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815)234-5441  
x2282

MONTH: August, 1996

DAY      AVERAGE DAILY POWER LEVEL  
          (MWe-Net)

1.      _____ 948 MW _____	16.      _____ -13 MW _____
2.      _____ 943 MW _____	17.      _____ -13 MW _____
3.      _____ 931 MW _____	18.      _____ -13 MW _____
4.      _____ 905 MW _____	19.      _____ -13 MW _____
5.      _____ 874 MW _____	20.      _____ -13 MW _____
6.      _____ 864 MW _____	21.      _____ -13 MW _____
7.      _____ 821 MW _____	22.      _____ -13 MW _____
8.      _____ 143 MW _____	23.      _____ -13 MW _____
9.      _____ -14 MW _____	24.      _____ -13 MW _____
10.      _____ -13 MW _____	25.      _____ -13 MW _____
11.      _____ -13 MW _____	26.      _____ -13 MW _____
12.      _____ -13 MW _____	27.      _____ -13 MW _____
13.      _____ -13 MW _____	28.      _____ -13 MW _____
14.      _____ -13 MW _____	29.      _____ -13 MW _____
15.      _____ -13 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.

Report Period: August, 1996

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 2)

\*\*\*\*\*  
\* BYRON \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action To Prevent Recurrence
2	8/08/96	F	253:20	A	1		MS	Stm Generator	Forced Outage B2F17 Due To Increased Leak Rate In The 2A S/G
3	8/19/96	S	403:00	C	4				Began Refueling Outage B2R06

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\* Summary \*  
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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 2) for the month of August, 1996

1. Safety/Relief valve operations for Unit Two.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO &amp; 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:  $FRI = 3.9 \text{ E-5 } \mu\text{Ci/CC}$

F. LICENSEE EVENT REPORTS (UNIT 2)

The following is a tabular summary of Licensee Event Reports for Byron Nuclear Power Station, Unit Two, occurring during the reporting period, August 1, 1996 through August 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		