

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



August 8, 1996

LTR: BYRON 96-0214  
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 July 1 through July 31, 1996.

Sincerely,

A handwritten signature in dark ink, appearing to read "K. L. Kofron", is written over a horizontal line.

K. L. Kofron  
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 July, 1996

A. Summary of Operating Experience for Unit 1

The Unit began this reporting period in Mode 2 (Startup).

B. OPERATING DATA REPORT UNIT ONE

DOCKET NO.: 050-454  
UNIT: Byron One  
DATE: 08/07/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815) 234-5441  
x2282

OPERATING STATUS

1. Reporting Period: July, 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	5,111	95,328
6. Rx Critical Hours	744	3,032.5	78,251.8
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	672.2	2,954.3	77,453.9
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	1,669,483	9,188,664.8	236,953,619.8
11. Gross Elec. Energy (MWH)	554,592	3,118,437	80,174,695
12. Net Elec. Energy (MWH)	521,160	2,942,915	75,995,375
13. Reactor Service Factor	100	59.33	82.09
14. Reactor Availability Factor	100	59.33	82.13
15. Unit Service Factor	90.35	57.80	81.25
16. Unit Availability Factor	90.35	57.80	81.25
17. Unit Capacity Factor (MDC net)	63.39	52.11	72.14
18. Unit Capacity Factor (DER net)	62.54	51.41	71.18
19. Unit Forced Outage Hrs.	0	0	1,794.5
20. Unit Forced Outage Rate	0	0	2.26
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: 08/07/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815) 234-5441  
x2282

MONTH: July, 1996

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. _____	-14 MW	16. _____	1023 MW
2. _____	-14 MW	17. _____	1022 MW
3. _____	-14 MW	18. _____	1015 MW
4. _____	153 MW	19. _____	1032 MW
5. _____	174 MW	20. _____	1064 MW
6. _____	196 MW	21. _____	1083 MW
7. _____	197 MW	22. _____	1081 MW
8. _____	368 MW	23. _____	1077 MW
9. _____	403 MW	24. _____	1076 MW
10. _____	502 MW	25. _____	1081 MW
11. _____	634 MW	26. _____	1084 MW
12. _____	645 MW	27. _____	1078 MW
13. _____	631 MW	28. _____	933 MW
14. _____	369 MW	29. _____	903 MW
15. _____	928 MW	30. _____	927 MW
		31. _____	1065 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: July 1996

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 1)

\*\*\*\*\*  
\* BYRON \*  
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<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 &amp; Corrective Action to Prevent Recurrence</u>
4	7/03/96	S	71.8	C	4				B1R07 Ended At 23:49 Hrs 7/03/96
5	7/13/96	F	33.0	A	5				Oil Leak On Turbine Generator Air Side Seal Oil Cooler

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\* Summary \*  
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<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; 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 July, 1996

1. Safety/Relief valve operations for Unit One.

<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 =  $3.2 \text{ E-5 } \mu\text{Ci/CC}$

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, July 1, 1996 through July 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>
454-180-96-0011	07/02/96	Reactor Trip From Broken Instrument Air Line To 1FW039B
454-180-96-0012	07/17/96	Tornado Watch Notification Didn't Happen



II. Monthly Report for Byron UNIT 2 for the month of July, 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: 08/07/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815)234-5441  
x2282

OPERATING STATUS

1. Reporting Period: July, 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	5,111	78,432
6. Rx Critical Hours	744	4,952.5	69,207.4
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	4,948.1	68,568.8
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,438,756	16,632,462.6	206,633,665.6
11. Gross Elec. Energy (MWH)	832,059	5,710,567	70,416,232
12. Net Elec. Energy (MWH)	790,094	5,467,442	66,938,609
13. Reactor Service Factor	100	96.90	88.24
14. Reactor Availability Factor	100	96.90	88.24
15. Unit Service Factor	100	96.81	87.42
16. Unit Availability Factor	100	96.81	87.42
17. Unit Capacity Factor (MDC net)	96.10	96.81	77.24
18. Unit Capacity Factor (DER net)	94.82	95.51	76.20
19. Unit Forced Outage Hrs.	0	162.9	1,562.1
20. Unit Forced Outage Rate	0	3.19	2.23
21. Shutdowns Scheduled Over Next 6 Months: 1 (B2R06)			
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: 08/07/96  
COMPILED BY: J. Vogl  
TELEPHONE: (815)234-5441  
x2282

MONTH: July, 1996

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1095 MW	16. 1100 MW
2. 1095 MW	17. 1090 MW
3. 1092 MW	18. 1077 MW
4. 1103 MW	19. 1080 MW
5. 1024 MW	20. 1086 MW
6. 1096 MW	21. 1081 MW
7. 1095 MW	22. 1067 MW
8. 1102 MW	23. 1036 MW
9. 1102 MW	24. 1028 MW
10. 1078 MW	25. 1024 MW
11. 1110 MW	26. 1012 MW
12. 1102 MW	27. 999 MW
13. 1039 MW	28. 988 MW
14. 1105 MW	29. 971 MW
15. 1108 MW	30. 964 MW
	31. 956 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: July, 1996

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 2)

\*\*\*\*\*  
\* BYRON \*  
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<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 &amp; Corrective Action To Prevent Recurrence</u>
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NO SHUTDOWNS FOR UNIT TWO IN JULY

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\* Summary \*  
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<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; 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 July, 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>
None				

2. Licensee generated changes to ODCM.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI =  $1.2 \text{ E-5 } \mu\text{Ci/CC}$

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, July 1, 1996 through July 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>
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None