

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



October 6, 1995

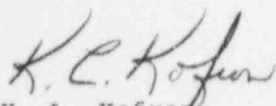
LTR: BYRON 95-0334  
FILE: 2.7.200

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United States Nuclear Regulatory Commission  
Washington, D.C. 20555

Gentlemen:

Enclosed for your information is the Monthly Performance Report covering Byron Nuclear Power Station for the period September 1 through September 30, 1995.

Sincerely,

  
K. L. Kofron  
Station Manager  
Byron Nuclear Power Station

KLK/JV/rp

cc: H.J. Miller, NRC, Region III  
NRC Resident Inspector Byron  
IL Dept. of Nuclear Safety  
Regulatory Services Manager  
Nuclear Fuel Services, PWR Plant Support  
INPO Records Center  
G.F. Dick, Jr. - USNRC  
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 September, 1995

A. Summary of Operating Experience for Unit 1

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

# B. OPERATING DATA REPORT

DOCKET NO.: 050-454  
UNIT: Byron One  
DATE: 10/06/95  
COMPILED BY: J. Vogl  
TELEPHONE: (815) 234-5441  
x2282

## OPERATING STATUS

1. Reporting Period: September, 1995 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	6,551	88,008
6. Rx Critical Hours	720	6,551	74,536.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	720	6,551	73,821.2
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,409,646	21,587,424	225,630,413
11. Gross Elec. Energy (MWH)	822,696	7,349,233	76,327,515
12. Net Elec. Energy (MWH)	786,058	7,021,531	72,376,760
13. Reactor Service Factor	100	100	84.69
14. Reactor Availability Factor	100	100	84.74
15. Unit Service Factor	100	100	83.88
16. Unit Availability Factor	100	100	83.88
17. Unit Capacity Factor (MDC net)	98.80	97.00	74.42
18. Unit Capacity Factor (DER net)	97.48	95.70	73.43
19. Unit Forced Outage Hrs.	0	0	1,794.5
20. Unit Forced Outage Rate	0	0	2.37
21. Shutdowns Scheduled Over Next 6 Months: 2 (B1P02) (B1R07)			
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: 10/06/95  
COMPILED BY: J. Vogl  
TELEPHONE: (815) 234-5441  
x2282

MONTH: September, 1995

DAY      AVERAGE DAILY POWER LEVEL  
          (MWe-Net)

1.      1091 MW	16.      1084 MW
2.      1089 MW	17.      1099 MW
3.      1089 MW	18.      1099 MW
4.      1085 MW	19.      1096 MW
5.      1082 MW	20.      1101 MW
6.      1081 MW	21.      1105 MW
7.      1093 MW	22.      1105 MW
8.      1092 MW	23.      1103 MW
9.      1095 MW	24.      1022 MW
10.      1096 MW	25.      1102 MW
11.      1097 MW	26.      1097 MW
12.      1093 MW	27.      1096 MW
13.      1085 MW	28.      1094 MW
14.      1092 MW	29.      1093 MW
15.      1093 MW	30.      1088 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: September, 1995

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 &amp; Corrective Action to Prevent Recurrence</u>
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NO SHUTDOWNS OR MAJOR REDUCTIONS FOR UNIT ONE

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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	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 September, 1995

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.

Yes. Fuel Reliability Indicator: FRI =  $2.6 \text{ E-4 } \mu\text{Ci/CC}$

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, September 1, 1995 through September 30, 1995. 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>
LER 454:95-003	09/18/95	Unit 1 Reactor Coolant System Leakage Detection System Inoperable
LER 454:95-004	09/28/95	125 V Battery Terminal Connection Resistance Not Measured



II. Monthly Report for Byron UNIT 2 for the month of September, 1995

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: 10/06/95  
COMPILED BY: J. Vogl  
TELEPHONE: (815)234-5441  
x2282

OPERATING STATUS

1. Reporting Period: September, 1995. 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	6,551	71,112
6. Rx Critical Hours	720	5,530.5	62,045.9
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	720	5,501.9	61,411.7
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,331,326	17,577,706	182,561,604
11. Gross Elec. Energy (MWH)	800,190	6,009,684	62,143,868
12. Net Elec. Energy (MWH)	764,206	5,722,494	59,009,891
13. Reactor Service Factor	100	84.42	87.25
14. Reactor Availability Factor	100	84.42	87.25
15. Unit Service Factor	100	83.99	86.36
16. Unit Availability Factor	100	83.99	86.36
17. Unit Capacity Factor (MDC net)	96.05	79.05	75.10
18. Unit Capacity Factor (DER net)	94.77	77.79	74.09
19. Unit Forced Outage Hrs.	0	0	1,399.2
20. Unit Forced Outage Rate	0	0	2.23
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

DOCKET NO.: 050-455  
UNIT: Byron Two  
DATE: 10/06/95  
COMPILED BY: J. Vogl  
TELEPHONE: (815) 234-5441  
x2282

MONTH: September, 1995

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1113 MW	16. 1108 MW
2. 1057 MW	17. 1109 MW
3. 1048 MW	18. 1121 MW
4. 1020 MW	19. 1121 MW
5. 1106 MW	20. 1124 MW
6. 1104 MW	21. 1129 MW
7. 1118 MW	22. 1129 MW
8. 1092 MW	23. 1073 MW
9. 404 MW	24. 1115 MW
10. 611 MW	25. 1126 MW
11. 965 MW	26. 1120 MW
12. 1115 MW	27. 1116 MW
13. 1109 MW	28. 1114 MW
14. 1118 MW	29. 1115 MW
15. 1118 MW	30. 1110 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: September, 1995

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 &amp; Corrective Action To Prevent Recurrence</u>
5	9/8/95	S	22	A	5		MP	Voltage Regulator	Reduced Load To Replace Voltage Regulator

\*\*\*\*\*  
\* Summary \*  
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<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; 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 September, 1995

1. Safety/Relief valve operations for Unit Two.

<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 =  $2.8 \text{ E-5 } \mu\text{Ci/CC}$

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, September 1, 1995 through September 30, 1995. 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