

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



October 10, 1996

LTR: BYRON 96-0262
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 September 1 through September 30, 1996.

Sincerely,

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

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 September, 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: 10/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

OPERATING STATUS

1. Reporting Period: September, 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	6,575	96,792
6. Rx Critical Hours	689.5	4,466	79,685.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	681.1	4,379.4	78,879
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,195,951	13,820,493	241,585,448
11. Gross Elec. Energy (MWH)	753,974	4,705,531	81,761,789
12. Net Elec. Energy (MWH)	722,069	4,462,490	77,514,950
13. Reactor Service Factor	95.76	67.92	82.33
14. Reactor Availability Factor	95.76	67.92	82.37
15. Unit Service Factor	94.60	66.61	81.49
16. Unit Availability Factor	94.60	66.61	81.49
17. Unit Capacity Factor (MDC net)	90.76	61.42	72.47
18. Unit Capacity Factor (DER net)	89.54	60.60	71.50
19. Unit Forced Outage Hrs.	38.9	38.9	1,833.4
20. Unit Forced Outage Rate	5.40	0.88	2.27
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: 10/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

MONTH: September, 1996

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. 1087 MW	16. 1093 MW
2. 1087 MW	17. 1094 MW
3. 1084 MW	18. 1093 MW
4. 1083 MW	19. 1094 MW
5. 1083 MW	20. 1092 MW
6. 1083 MW	21. 1091 MW
7. 1083 MW	22. 1090 MW
8. 1085 MW	23. 1090 MW
9. 1086 MW	24. 1089 MW
10. 1087 MW	25. 1085 MW
11. -9 MW	26. 1081 MW
12. 60 MW	27. 1083 MW
13. 703 MW	28. 1081 MW
14. 1084 MW	29. 1078 MW
15. 1078 MW	30. 1074 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, 1996

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 & Corrective Action to Prevent Recurrence</u>
6	9/11/96	F	38.51	G	3		TG		Turbine Trip And Subsequent Reactor Trip During Turbine Overspeed Trip Testing Due To Personnel Error. (B1F16)

* 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
	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 September, 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>
None				

2. Licensee generated changes to ODCM.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = $2.5 \text{ E-5 } \mu\text{Ci/CC}$

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, September 1, 1996 through September 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>
454-180-96-0014	09/03/96	Boraflex Degradation In Spent Fuel Pool
454-180-96-0017	09/11/96	Unit 1 Trip Due To Personnel Error During Surveillance Activities

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

A. Summary of Operating Experience for Unit 2

The Unit began this reporting period in Mode 6 (Refueling).

B. OPERATING DATA REPORT UNIT TWO

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

OPERATING STATUS

1. Reporting Period: September, 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	6,575	79,896
6. Rx Critical Hours	0	5,131.4	69,386.3
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	0	5,136.8	68,747.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	0	17,118,810	207,120,013
11. Gross Elec. Energy (MWH)	0	5,873,703	70,579,368
12. Net Elec. Energy (MWH)	-9,820	5,604,805	67,075,792
13. Reactor Service Factor	0	78.04	86.85
14. Reactor Availability Factor	0	78.04	86.85
15. Unit Service Factor	0	77.97	86.05
16. Unit Availability Factor	0	77.97	86.05
17. Unit Capacity Factor (MDC net)	-1.23	77.14	75.98
18. Unit Capacity Factor (DER net)	-1.22	76.11	74.96
19. Unit Forced Outage Hrs.	0	416.2	1,815.4
20. Unit Forced Outage Rate	0	7.51	2.57
21. Shutdowns Scheduled Over Next 6 Months:	None		
22. If Shutdown at End of Report Period, Date of Startup:	10/04/96		
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: 10/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

MONTH: September, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. _____	-13 MW	16. _____	-13 MW
2. _____	-13 MW	17. _____	-13 MW
3. _____	-13 MW	18. _____	-13 MW
4. _____	-13 MW	19. _____	-13 MW
5. _____	-13 MW	20. _____	-13 MW
6. _____	-13 MW	21. _____	-13 MW
7. _____	-13 MW	22. _____	-13 MW
8. _____	-13 MW	23. _____	-13 MW
9. _____	-13 MW	24. _____	-13 MW
10. _____	-13 MW	25. _____	-13 MW
11. _____	-21 MW	26. _____	-13 MW
12. _____	-18 MW	27. _____	-14 MW
13. _____	-13 MW	28. _____	-14 MW
14. _____	-13 MW	29. _____	-14 MW
15. _____	-13 MW	30. _____	-14 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, 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>
4	10/01/96	S	720	C	4				Continue Refueling Outage B2R06

* 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)
		1-Manual	
		2-Manual Scram	
		3-Auto Scram	
		4-Continued	
		5-Reduced Load	
		9-Other	

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of September, 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>
None				

2. Licensee generated changes to ODCM.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: N/A

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, 1996 through September 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>
455-180-96-0003	09/04/96	Steam Generator Tubes Not Inspected During Outage
455-180-96-0004	09/22/96	Source Range Detectors Inoperable With Reactor Trip Breakers Closed