

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



June 10, 1996

LTR: BYRON 96-0167
FILE: 2.7.200

Document Control Desk
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 May 1 through May 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/mn

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 May, 1996

A. Summary of Operating Experience for Unit 1

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

B. OPERATING DATA REPORT UNIT ONE

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 06/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

OPERATING STATUS

1. Reporting Period: May, 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	3,647	93,864
6. Rx Critical Hours	0	2,282.3	77,501.6
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	0	2,282.1	76,781.7
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	0	7,519,181.8	235,284,136.8
11. Gross Elec. Energy (MWH)	0	2,563,845	79,620,103
12. Net Elec. Energy (MWH)	-9,239	2,431,280	75,483,740
13. Reactor Service Factor	0	62.58	82.57
14. Reactor Availability Factor	0	62.58	82.61
15. Unit Service Factor	0	62.57	81.80
16. Unit Availability Factor	0	62.57	81.80
17. Unit Capacity Factor (MDC net)	-1.12	60.33	72.78
18. Unit Capacity Factor (DER net)	-1.11	59.52	71.80
19. Unit Forced Outage Hrs.	0	0	1,794.5
20. Unit Forced Outage Rate	0	0	2.28
21. Shutdowns Scheduled Over Next 6 Months:	None		
22. If Shutdown at End of Report Period, Estimated Date of Startup:	7/05/96		
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 ONE

DOCKET NO.: 050-454
 UNIT: Byron One
 DATE: 06/10/96
 COMPILED BY: J. Vogl
 TELEPHONE: (815)234-5441
 x2282

MONTH: May, 1996

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. _____ -13 MW	16. _____ -12 MW
2. _____ -13 MW	17. _____ -12 MW
3. _____ -12 MW	18. _____ -13 MW
4. _____ -12 MW	19. _____ -13 MW
5. _____ -12 MW	20. _____ -13 MW
6. _____ -12 MW	21. _____ -13 MW
7. _____ -12 MW	22. _____ -13 MW
8. _____ -12 MW	23. _____ -10 MW
9. _____ -13 MW	24. _____ -10 MW
10. _____ -12 MW	25. _____ -10 MW
11. _____ -12 MW	26. _____ -10 MW
12. _____ -12 MW	27. _____ -11 MW
13. _____ -12 MW	28. _____ -13 MW
14. _____ -12 MW	29. _____ -14 MW
15. _____ -12 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: May 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>
2	5/01/96	S	744	C	4				Continue B1R07

* 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 1) for the month of May, 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.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: N/A

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, May 1, 1996 through May 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>
454-180-96-0007	05/23/96	Loss of Offsite Power on Unit 1.
454-180-96-0008	05/28/96	Fuel Assemblies Located in Incorrect Region of Spent Fuel Pool.
454-180-96-0009	05/07/96	SI Flow Above Tech. Spec. Limits.

II. Monthly Report for Byron UNIT 2 for the month of May, 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: 06/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815) 234-5441
x2282

OPERATING STATUS

1. Reporting Period: May, 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	3,647	76,968
6. Rx Critical Hours	585.5	3,488.5	67,743.4
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	581.1	3,484.1	67,104.8
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1,919,793	11,748.661	201,749,863
11. Gross Elec. Energy (MWH)	657,017	4,045,150	68,750,815
12. Net Elec. Energy (MWH)	632,859	3,879,106	65,350,273
13. Reactor Service Factor	78.70	95.65	88.02
14. Reactor Availability Factor	78.70	95.65	88.02
15. Unit Service Factor	78.10	95.53	87.19
16. Unit Availability Factor	78.10	95.53	87.19
17. Unit Capacity Factor (MDC net)	76.98	96.26	76.84
18. Unit Capacity Factor (DER net)	75.95	94.97	75.81
19. Unit Forced Outage Hrs.	162.9	162.9	1,562.1
20. Unit Forced Outage Rate	21.9	4.47	2.27
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: 06/10/96
COMPILED BY: J. Vogl
TELEPHONE: (815)234-5441
x2282

MONTH: May, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1126 MW	16. 1132 MW
2. 1126 MW	17. 1117 MW
3. 1126 MW	18. 1110 MW
4. 1125 MW	19. 1107 MW
5. 1047 MW	20. 1126 MW
6. 1140 MW	21. 1126 MW
7. 1139 MW	22. 1123 MW
8. 1133 MW	23. 368 MW
9. 1128 MW	24. -9 MW
10. 1134 MW	25. -10 MW
11. 1141 MW	26. -9 MW
12. 1143 MW	27. -10 MW
13. 1141 MW	28. -12 MW
14. 1139 MW	29. -14 MW
15. 1135 MW	30. 353 MW
	31. 938 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: May, 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>
1	5/23/96	F	162:58	H	2		AP	SAT	At 0804 5/23/96 SAT 142-2 Had A Deluge Actuation B2F16 Caused By Water Intrusion Into The 4 KV Non-Segregated Bus Duct

* Summary *

<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System & 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 2) for the month of May, 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: FRI = $1.6 \text{ E-5 } \mu\text{Ci/CC}$

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, May 1, 1996 through May 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		