

BYRON NUCLEAR POWER STATION

UNIT 1

MONTHLY PERFORMANCE REPORT

COMMONWEALTH EDISON COMPANY

NRC DOCKET NO. 050-454

LICENSE NO. NPF-37

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PDR ADOCK 05000454  
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## I. Monthly Report for Byron Unit 1

### A. Summary of Operating Experience for Unit 1

Byron Station's Unit 1 continued to achieve significant objectives towards finishing the startup program.

The Unit began this reporting period in a planned maintenance outage. Startup after the outage began on July 7th. On July 8th the Turbine was manually tripped due to a decreasing Reactor Coolant temperature caused by a misaligned Control Rod. A Reactor Trip resulted from the Turbine Trip. The Unit was taken critical on July 9th and brought to 98% Power.

On July 12th the Reactor tripped while executing the 50% Load Rejection Startup Test. A Reactor Coolant overtemperature condition was the cause of the trip. In the process of returning to power, on July 13th, the Reactor tripped from a high negative flux rate. This occurred when a group of Control Rods dropped coincident with a lightning strike.

The Unit remained shutdown until July 23rd to investigate and repair problems resulting from the lightning strike. The Unit was returned to 98% Power on July 24th. The 100% Power Reactor Trip Startup Test was executed on July 27th. The Unit remained shutdown through the end of the reporting period for repairs.

## B. OPERATING DATA REPORT

DOCKET NO.: 050-454  
UNIT: Byron One  
DATE: 8/12/85  
COMPILED BY: J.E. Langan  
TELEPHONE: (815)234-5441  
x2825

### OPERATING STATUS

1. Reporting Period: July 1985 Gross Hours in Reporting Period: 744

2. Currently Authorized Power Level (MWt): 3411  
Design Electrical Rating: 1175 (MWe-gross)  
Design Electrical Rating: 1120 (MWe-net)  
Max Dependable Capacity (MWe-net): NOT DETERMINED

3. Power Level to Which Restricted (If Any): 1175 (MWe-gross)

4. Reasons for Restriction (If Any): START UP TESTING PROGRAM

	THIS MONTH	YR TO DATE	CUMULATIVE
5. Number of Hours Reactor was Critical	213.5	2714.8	2714.8
6. Reactor Reserve Shutdown Hours	0	0	0
7. Hours Generator on Line	201.4	2123.0	2123.0
8. Unit Reserve Shutdown Hours	0	0	0
9. Gross Thermal Energy Generated (MWH)	568273	3942521	3942521
10. Gross Elec. Energy Generated (MWH)	187804	1217753	1217753
11. Net Elec. Energy Generated (MWH)	162297	1065987	1065987
12. Reactor Service Factor	0	0	0
13. Reactor Availability Factor	0	0	0
14. Unit Service Factor	0	0	0
15. Unit Availability Factor	0	0	0
16. Unit Capacity Factor (Using MDC)	0	0	0
17. Unit Capacity Factor (Using Design MWe)	0	0	0
18. Unit Forced Outage Rate	0	0	0
19. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each)	N/A		
20. If Shutdown at End of Report Period, Estimated Date of Startup:	August 2, 1985		
21. Units in Test Status (Prior to Commercial Operation):	Unit 1		

	FORECAST	ACHIEVED
Initial Criticality	1-25-85	2-2-85
Initial Electricity	_____	3-1-85
Commercial Operation	_____	_____

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454  
UNIT: Byron One  
DATE: 8/12/85  
COMPILED BY: J.E. Langan  
TELEPHONE: (815)234-5441  
x2825

MONTH: July, 1985

1. _____	0 MW	17. _____	0 MW
2. _____	0 MW	18. _____	0 MW
3. _____	0 MW	19. _____	0 MW
4. _____	0 MW	20. _____	0 MW
5. _____	0 MW	21. _____	0 MW
6. _____	0 MW	22. _____	0 MW
7. _____	0 MW	23. _____	191 MW
8. _____	0 MW	24. _____	735 MW
9. _____	718 MW	25. _____	1067 MW
10. _____	1078 MW	26. _____	1076 MW
11. _____	1080 MW	27. _____	880 MW
12. _____	495 MW	28. _____	0 MW
13. _____	0 MW	29. _____	0 MW
14. _____	0 MW	30. _____	0 MW
15. _____	0 MW	31. _____	0 MW
16. _____	0 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 1985

UNIT SHUTDOWNS/REDUCTIONS

\*\*\*\*\*  
 \* BYRON \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
20)	7/1/85	S	168.9	A	4				Continued scheduled outage from 6/27/85.
21)	7/8/85	F	14.1	A	2				A manual turbine trip was initiated at 8% Reactor Power due to misalignment of control rod P-8. A reactor trip resulted.
22)	7/12/85	F	10.7	B	3				The reactor tripped during performance of the 50% load rejection test.
23)	7/13/85	F	211.3	A	3				The reactor tripped due to high negative flux rate which was caused by lightning.
24)	7/27/85	S	100.0	B	2				100% Reactor Trip Startup Test.

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 \* Summary \*  
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Byron 1 is continuing in its 100% Power Test Sequence.

TYPE	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	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)

(0625M)

E. UNIQUE REPORTING REQUIREMENTS

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>
7/12/85	Pressurizer Power Operated Relief Valve	1	Rx trip during 50% Load Rejection Test	Valve relieved Reactor Coolant @ 2335 psig.

#### F. LICENSEE EVENT REPORTS

The following is a tabular summary of all licensee event reports for Byron Nuclear Power Station, Unit One, submitted during the reporting period, July 1 through July 31, 1985. 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>Date</u>	<u>Title of Occurrence</u>
84-001-01	7-31-85	Failure of Security to Patrol Fire Watch for Penetration Seals.
84-002-01	7-31-85	Failure to Complete Data Entry on a Shift Surveillance of the Residual Heat Removal System.
84-007-01	7-31-85	Sampling Missed for Vent Stacks for LCOAR on 1RE-PR028 and 2RE-PR028
84-015-01	7-31-85	Failure To Take Samples Required by Technical Specifications.
84-027-02	7-25-85	Failure of MSIV to close on MS Isolation Signal.
85-060-00	7-16-85	RWST Temperature above 100°F.
85-061-00	7-24-85	Reactor Trip.
85-006-00	7-25-85	Unit 1 Containment Ventilation Isolation.

August 12, 1985

LTR: BYRON 85-1124  
File: 2.7.200

Director, Office of Management Information  
and Program Control  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report covering Byron Nuclear Power Station for the period July 1 through July 31, 1985.

Very truly yours,



R. E. Querio  
Station Superintendent  
Byron Nuclear Power Station

REQ/JEL/bg

Enclosure

cc: J.G. Keppler, NRC, Region III  
NRC Resident Inspector Byron  
Gary Wright, Ill. Dept. of Nuclear Safety  
D.P. Galle, CEC  
T. J. Maiman  
D.L. Farrar, CEC  
G. R. Benson, Revenue Requirements  
INPO Records Center  
Thermal Group, Tech Staff Byron Station  
Nuclear Group, Tech Staff Byron Station  
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