BYRON NUCLEAR POWER STATION

UNIT 1

MONTHLY PERFORMANCE REPORT

COMMONWEALTH EDISON COMPANY

NRC DOCKET NO. 050-454

LICENSE NO. NPF-37

8608220297 860731 PDR ADDCK 05000454

(0625M/62M)

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- I. Monthly Report for Byron Unit 1
  - A. Summary of Operating Experience for Unit 1

The unit began this reporting period on July 1 in a critical mode while operating with a discretionary load reduction to 70% power to minimize the rate of Steam Generator Tube corrosion and to prevent a back to back outage schedule with Unit 2.

On July 2, unidentified leakage of greater than 1 gpm was discovered during a surveillance and the unit went through a controlled shutdown. The leakage was found to be coming from a Resistance Temperature Detector Isolation valve.

While heating up the unit in order to perform a restart, the C pressurizer relief valve lifted at a pressure which was lower than the desired setpoint. During this time, both the A and C pressurizer relief valves exhibited excessive leakage. Repair of the A and C pressurizer relief valves caused a delay in the start-up of the unit.

The unit was taken critical again on July 23 at 2357 hours and the generator was synchronized onto the grid on July 24 at 0400 hours. The unit remained critical through the end of this reporting period.

#### B. OPERATING DATA REPORT

DOCKET NO.: 050-454

UNIT: Byron One

DATE: 8/11/86

COMPILED BY: P. Dandrea

TELEPHONE: (815)234-5441

x2341

## OPERATING STATUS

1. Reporting Period: July 1986. Gross Hours: 744

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): 1152 (MWe-gross)

 Reasons for Restriction (If Any): Not meeting minimum requirement on split feedwater flow.

5.	Depart Paried Une	THIS MONTH	YR TO DATE 5087	CUMULATIVE* 7656
٥.	Report Period Hrs.			
6.	Rx Critical Hours	241.7	4202.8	6195.3
7.	Rx Reserve Shutdown Hours	0	21.7	37.8
8.	Hours Generator on Line	236.1	4152.1	5344.5
9.	Unit Reserve Shutdown Hours	0	0	0
10.	Gross Thermal Energy (MWH)	615385	12234086	15573278
11.	Gross Elec. Energy (MWH)	208906	4136033	5224623
12.	Net Elec. Energy (MWH)	186841	3894103	4907001
13.	Reactor Service Factor	32.5	82.6	80.9
14.	Reactor Availability Factor	32.5	83.0	81.4
15.	Unit Service Factor	31.7	81.6	69.8
16.	Unit Availability Factor	31.7	81.6	69.8
17.	Unit Capacity Factor (MDC net)	N/A	N/A	N/A
18.	Unit Capacity Factor (DER net)	22.4	68.3	57.2
19.	Unit Forced Outage Hrs.	507.9	610.6	713.2
20.	Unit Forced Outage Rate	68.3	12.8	11.8

- 21. Shutdowns Scheduled Over Next 6 Months: None.
- 22. If Shutdown at End of Report Period, Estimated Date of Startup: N/A
- 23. Units in Test Status (Prior to Commercial Operation): None

<sup>\*</sup>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: 8/11/86

COMPILED BY: P. Dandrea

TELEPHONE: (815)234-5441

x2341

MONTH: July, 1986

)(S)	AVERAGE DAILY PO (MWe-Net)	WER DEVEL			
1.	802	MW	17	0	MW
2	734	MW	18	0	MW
3	0	MW	19	0	MW
4	0	MW	20.	0	MW
5	0	MW	21.	0	MW
ő	0	MW	22.	0	MW
7.	0	MW	23.	0	MW
3	0	MW	24	325	MW
).	0	MW	25.	797	MW
.0.	0	MW	26	802	MW
1	0	MW	27.	802	MW
.2	0	MW	28.	922	MW
3	0	MW	29.	1120	MW
4.	0	MW	30.	975	MW
5	0	MW	31.	1027	MW
6.	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, 1986

UNIT SHUTDOWNS/REDUCTIONS

No.	Date	Туре	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
10)	7/03/86	F	507.9	λ	1	86-020	RC	Valve	Plant shutdown due to excessive Reactor Coolant System leakage from resistance temperature detector isolation valve.

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\* Summary \*

Unit 1 was on line for 2 days, had an outage of 21 days due to RTD isolation valve leakage and relief valve problems, and returned to power for the remaining 8 days of July.

TYPE	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure F-Admin B-Maint or Test G-Oper Error C-Refueling H-Other D-Regulatory Restriction E-Operator Training & License Examination	1-Manual 2-Manual Scram 3-Auto Scram 4-Continued 5-Reduced Load 9-Other	Exhibit F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)

(0625M/0062M)

# E. UNIQUE REPORTING REQUIREMENTS

1. Safety/Relief valve operations for Unit One.

DATE	VALVES	NO & TYPE	PLANT	DESCRIPTION
	ACTUATED	ACTUATION	CONDITION	OF EVENT
7-18-86	1RY8010C	Pressurizer Safety Valve	Mode 3 Temperature 520°F Pressure 1700 PSIG	Excessive Valve Leakage due to Missing Valve Disk Caused Lift.

2. Licensee generated changes to ODCM. (Y/N)

No

## 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, 1986. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

Licensee Event Report Number	Date	Title of Occurrence
86-021-00	7-14-86	Technical Specification Action Statement exceeded due to misinterpretation of the requirement
86-019-00	7-29-86	Technical Specification Action Statement for power range nuclear instrumentation not satisfied due to personnel error
86-020-00	7-29-86	Plant shutdown due to excessive reactor coolant system leakage from Resistance Temperature Detector isolation valve
86-022-00	7-31-86	Nuclear Instrumentation Action Response exceeded due to personnel error

August 11, 1986

LTR:

BYRON 86-0926

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 30, 1986.

Very truly yours,

R. E. Querio Station Manager

Byron Nuclear Power Station

REQ/PHD/1r

cc: J.G. Keppler, NRC, Region III

NRC Resident Inspector Byron

Gary Wright, Ill. Dept. of Nuclear Safety

D.P. Galle

T. J. Maiman

D.L. Farrar

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