

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

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PDR ADOCK 05000454
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I. Monthly Report for Byron UNIT 1 for the month of July, 1997.

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: 08/12/97
COMPILED BY: J. Vogl
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: July, 1997 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*
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* 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: 08/12/97
COMPILED BY: J. Vogl
TELEPHONE: (815)234-5441
x2282

MONTH: July, 1997

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1.	1054 MW	16.	1076 MW
2.	1057 MW	17.	1077 MW
3.	1068 MW	18.	1078 MW
4.	1072 MW	19.	1081 MW
5.	1069 MW	20.	1077 MW
6.	1062 MW	21.	1080 MW
7.	971 MW	22.	1085 MW
8.	1049 MW	23.	1086 MW
9.	1075 MW	24.	1086 MW
10.	1009 MW	25.	1074 MW
11.	1088 MW	26.	1067 MW
12.	1081 MW	27.	1030 MW
13.	1074 MW	28.	1025 MW
14.	1077 MW	29.	1043 MW
15.	1079 MW	30.	1085 MW
		31.	1087 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, 1997

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
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NO SHUTDOWNS OR MAJOR REDUCTIONS FOR UNIT ONE IN JULY.

* 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 July, 1997

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: FRI = 9.29 E-6 μ 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, July 1, 1997 through July 31, 1997. 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

II. Monthly Report for Byron UNIT 2 for the month of July, 1997

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: 08/12/97
COMPILED BY: J. Vogl
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: July, 1997. 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	5,087	87,192
6. Rx Critical Hours	744	4,976.3	76,499
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	4,950.1	75,796.7
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,472,252	16,413,760	230,276,234.6
11. Gross Elec. Energy (MWH)	839,404	5,627,659	78,528,148
12. Net Elec. Energy (MWH)	803,625	5,382,104	74,674,075
13. Reactor Service Factor	100	97.82	87.74
14. Reactor Availability Factor	100	97.82	87.74
15. Unit Service Factor	100	97.31	86.93
16. Unit Availability Factor	100	97.31	86.93
17. Unit Capacity Factor (MDC net)	97.75	95.75	77.51
18. Unit Capacity Factor (DER net)	96.44	94.47	76.47
19. Unit Forced Outage Hrs.	0	0	1,815.4
20. Unit Forced Outage Rate	0	0	2.34
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 UNIT TWO

DOCKET NO.: 050-455
 UNIT: Byron Two
 DATE: 08/12/97
 COMPILED BY: J. Vogl
 TELEPHONE: (815)234-5441
 x2282

MONTH: July, 1997

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. _____	1100 MW	16. _____	1100 MW
2. _____	1103 MW	17. _____	1102 MW
3. _____	1115 MW	18. _____	1101 MW
4. _____	1120 MW	19. _____	1029 MW
5. _____	1115 MW	20. _____	1100 MW
6. _____	1112 MW	21. _____	1105 MW
7. _____	1117 MW	22. _____	1111 MW
8. _____	1107 MW	23. _____	1110 MW
9. _____	1121 MW	24. _____	1108 MW
10. _____	1118 MW	25. _____	1094 MW
11. _____	1113 MW	26. _____	1083 MW
12. _____	1104 MW	27. _____	1047 MW
13. _____	1097 MW	28. _____	868 MW
14. _____	1099 MW	29. _____	773 MW
15. _____	1104 MW	30. _____	982 MW
		31. _____	1112 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, 1997

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>
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NO SHUTDOWNS OR MAJOR REDUCTIONS FOR UNIT TWO IN JULY.

* 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 2) for the month of July, 1997

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 = 4.79 E-5 μ 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, July 1, 1997 through July 31, 1997. 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		