

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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(0625M/0062M/1)

I. Monthly Report for Byron UNIT 1 for the month of July 1990.

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 1 (Power Operation) at approximately 99.3% power. The unit operated at power levels of up to 100% for the remainder of the month.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 08/10/90
COMPILED BY: K. Orris
TELEPHONE: (615)234-5441
x2444

OPERATING STATUS

1. Reporting Period: July, 1990. 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): N/A
4. Reasons for Restriction (If Any):

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	5,087	42,720
6. Rx Critical Hours	744	3,534.2	34,074.2
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	3,460	33,554
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,309,888	10,424,551	101,684,991
11. Gross Elec. Energy (MWH)	784,542	3,530,530	34,274,948
12. Net Elec. Energy (MWH)	740,897	3,321,143	32,299,175
13. Reactor Service Factor	100	69.5	79.8
14. Reactor Availability Factor	100	69.5	79.9
15. Unit Service Factor	100	68.0	78.5
16. Unit Availability Factor	100	68.0	78.5
17. Unit Capacity Factor (MDC net)	90.1	59.1	68.4
18. Unit Capacity Factor (DER net)	88.9	58.3	67.5
19. Unit Forced Outage Hrs.	0	138.0	1,195.0
20. Unit Forced Outage Rate	0	3.8	3.5

21. Shutdowns Scheduled Over Next 6 Months: None
22. If Shutdown at End of Report Period, Estimated Date of Start-up:
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

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 08/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

MONTH: July, 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)		
1.	1061 MW	16.	847 MW
2.	1090 MW	17.	918 MW
3.	1034 MW	18.	951 MW
4.	1054 MW	19.	1080 MW
5.	1070 MW	20.	1079 MW
6.	984 MW	21.	942 MW
7.	971 MW	22.	967 MW
8.	968 MW	23.	967 MW
9.	1082 MW	24.	1011 MW
10.	1076 MW	25.	971 MW
11.	1028 MW	26.	962 MW
12.	995 MW	27.	1077 MW
13.	1022 MW	28.	1010 MW
14.	1060 MW	29.	940 MW
15.	800 MW	30.	981 MW
		31.	960

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.

(0625M/0062M/4)

Report Period July, 1990

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	System	Component	Cause & Corrective Action to Prevent Recurrence
7.	07/15/90	-	85:00					Isolated the 1A waterbox to investigate and correct a tube leak.

* Summary *

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)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of July 1990

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. (Y/N)

Yes - Revision O.A. to the ODCM, Chapter 11.

3. Indications of failed fuel. (Y/N)

No Fuel Reliability Indicator: FRI = $1.3E-4$ 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, submitted during the reporting period, July 1 through July 31, 1990. 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>
90-007	6/12/90	Main Steamline isolation system inoperable due to failure to test manual isolation handswitch.
90-008	6/27/90	Required plant shutdown due to elevated containment temperature.

II. Monthly Report for Byron UNIT 2 for the month of July 1990

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 (Power Operation) at approximately 78.2% power. On July 14 the unit was brought down to Mode 3 to repair a leak on the Process Sampling System. The unit entered Mode 2 at 1043 on July 17, and went critical at 1118 that same day. The unit is in coastdown in preparation for its refueling outage scheduled for September.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 08/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

OPERATING STATUS

1. Reporting Period: July, 1990. 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): N/A
4. Reasons for Restriction (If Any):

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	5,087	25,824
6. Rx Critical Hours	662.3	4,938.3	23,003.3
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	657.5	4,925.5	22,610.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1,509,466	14,903,597	60,471,206
11. Gross Elec. Energy (MWH)	510,759	5,120,508	20,465,308
12. Net Elec. Energy (MWH)	476,546	4,850,524	19,240,660
13. Reactor Service Factor	89.0	97.1	89.1
14. Reactor Availability Factor	89.0	97.1	89.1
15. Unit Service Factor	88.4	96.8	87.6
16. Unit Availability Factor	88.4	96.8	87.6
17. Unit Capacity Factor (MDC net)	58.0	86.3	67.4
18. Unit Capacity Factor (DER net)	57.2	85.1	66.5
19. Unit Forced Outage Hrs.	0	26	845
20. Unit Forced Outage Rate	0	0.5	3.6

21. Shutdowns Scheduled Over Next 6 Months: 1 - September
22. If Shutdown at End of Report Period, Estimated Date of Startup: N/A
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

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 08/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

MONTH: June, 1990

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1.	831 MW	16.	-15 MW
2.	820 MW	17.	82 MW
3.	816 MW	18.	590 MW
4.	799 MW	19.	727 MW
5.	802 MW	20.	738 MW
6.	800 MW	21.	740 MW
7.	795 MW	22.	742 MW
8.	779 MW	23.	731 MW
9.	781 MW	24.	724 MW
10.	767 MW	25.	700 MW
11.	763 MW	26.	681 MW
12.	760 MW	27.	647 MW
13.	706 MW	28.	642 MW
14.	-10 MW	29.	642 MW
15.	-15 MW	30.	644 MW
		31.	635 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 June, 1990

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
6.	7/14/90	S	86:32	A	1		RC	Unit was shutdown to repair Process Sampling system leaks.

* Summary *

TYPE	Reason	Method	System & Component
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 1990

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. (Y/N)

Yes. Revision O.A. to the ODCM, Chapter 11.

3. Indications of failed fuel. (Y/N)

Yes. Approximately two to five leaking fuel pins.
Fuel Reliability Indicator = $3.0E-3$ 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, submitted during the reporting period, July 1 through July 31, 1990. 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		