

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

(0625M/0062M-2)

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I. Monthly Report for Byron Unit 1 for the month of May 1988

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 1 at 98% power. Power was maintained at or near 98% until 5/27/88, a load decrease, for a two week outage, to repair a tube leak in the 1A Steam Generator, was started. The turbine was tripped at 0016 on 5/28/88. Mode 5 (Cold Shutdown) was entered on 5/28/88. The unit remained in Mode 5 for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
 UNIT: Byron One
 DATE: 06/10/88
 COMPILED BY: D. J. Spitzer
 TELEPHONE: (815)234-5441
 x2023

OPERATING STATUS

1. Reporting Period: May 1988. Gross Hours: 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): 1097 (Mwe-net)
4. Reasons for Restriction (If Any): Steam Generator Split Flow (23MW)

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	3647	23736
6. Rx Critical Hours	649	3201.7	18513.7
7. Rx Reserve Shutdown Hours	0	0	37.8
8. Hours Generator on Line	648.3	3191.4	18152.4
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2145372	9972134	53567984
11. Gross Elec. Energy (MWH)	727058	3320029	17945806
12. Net Elec. Energy (MWH)	689586	3133042	16872519
13. Reactor Service Factor	87.2	87.8	78
14. Reactor Availability Factor	87.2	87.8	78.2
15. Unit Service Factor	87.1	87.5	76.5
16. Unit Availability Factor	87.1	87.5	76.5
17. Unit Capacity Factor (MDC net)	N/A	N/A	N/A
18. Unit Capacity Factor (DER net)	82.8	76.7	63.5
19. Unit Forced Outage Hrs.	0	65.3	977.4
20. Unit Forced Outage Rate	0	2.0	5.1
21. Shutdowns Scheduled Over Next 6 Months: 09/03/88			
22. If Shutdown at End of Report Period, Estimated Date of Startup: 06/13/88			
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: 06/10/88
 COMPILED BY: D. J. Spitzer
 TELEPHONE: (815)234-5441
 x2023

MONTH: May, 1988

DAY		AVERAGE DAILY POWER LEVEL (MWe-Net)	
1.	1073 MW	16.	1080 MW
2.	1071 MW	17.	1079 MW
3.	1072 MW	18.	1077 MW
4.	1076 MW	19.	1079 MW
5.	1072 MW	20.	1079 MW
6.	1065 MW	21.	1061 MW
7.	1060 MW	22.	1041 MW
8.	1064 MW	23.	1075 MW
9.	1068 MW	24.	1084 MW
10.	1069 MW	25.	1086 MW
11.	1070 MW	26.	1081 MW
12.	1064 MW	27.	918 MW
13.	1072 MW	28.	-20 MW
14.	1074 MW	29.	-14 MW
15.	1069 MW	30.	-13 MW
		31.	-17 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.

(0625M/0062M-5)

Report Period May, 1988

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
7.	05/28/88	S	95.7	A	1		SG		Outage for 1A Steam Generator Tube Leak Repair

* Summa *

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
	C-Refueling	4-Continued	Data Entry Sheet
	H-Other	5-Reduced Load	Licensee Event Report
	D-Regulatory Restriction	9-Other	(LER) File (NUREG-0161)
	E-Operator Training & License Examination		

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of May 1988

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)

No

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

Yes. I₁₃₁ = 8.0 E-4 µcuries/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, May 1 through May 31, 1988. 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>
88-002-00	04/18/88	Reactor Trip Due to Rod Drop During Manual Control Rod Motion

II. Monthly Report for Byron Unit 2 for the month of May 1988

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 at 87% power. The unit operated at power levels of up to 94% until 5/6/88 when at 1216 a reactor trip was initiated due to the 2C Feedwater pump trip and decreasing Steam Generator level. The reactor was taken critical at 0013 on 5/7/88 and synchronized to the grid at 0450 the same day. The unit operated at power levels of up to 94% until 5/21/88 when power was reduced to 70% for circulating water box cleaning. On 5/23/88 at 0428 a ramp to 94% was begun. The unit operated at power levels of up to 95% for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 06/10/88
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

OPERATING STATUS

1. Reporting Period: May 1988. Gross Hours: 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): 1055 (MWe-net)
4. Reasons for Restriction (If Any): Steam Generator Split Flow. (65 MW)

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	3647	6840
6. Rx Critical Hours	732.1	3620.7	5949.9
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	727.4	3417.6	5698
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2155660	9816193	16288357
11. Gross Elec. Energy (MWH)	736695	3298133	5402444
12. Net Elec. Energy (MWH)	698590	3109178	5080079
13. Reactor Service Factor	98.4	99.3	87.0
14. Reactor Availability Factor	98.4	99.3	87.0
15. Unit Service Factor	97.8	93.7	83.3
16. Unit Availability Factor	97.8	93.7	83.3
17. Unit Capacity Factor (MDC net)	N/A	N/A	N/A
18. Unit Capacity Factor (DER net)	83.8	76.1	66.3
19. Unit Forced Outage Hrs.	16.2	41.8	328.8
20. Unit Forced Outage Rate	2.2	1.2	5.5

21. Shutdowns Scheduled Over Next 6 Months:
22. If Shutdown at End of Report Period, Estimated Date of Startup:
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: 06/10/88
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

MONTH: May, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)		
1.	1015 MW	16.	1053 MW
2.	1042 MW	17.	1009 MW
3.	1033 MW	18.	997 MW
4.	1052 MW	19.	999 MW
5.	1051 MW	20.	1039 MW
6.	437 MW	21.	772 MW
7.	166 MW	22.	765 MW
8.	546 MW	23.	964 MW
9.	994 MW	24.	1054 MW
10.	1013 MW	25.	995 MW
11.	1006 MW	26.	982 MW
12.	1037 MW	27.	1004 MW
13.	990 MW	28.	977 MW
14.	1017 MW	29.	1023 MW
15.	1022 MW	30.	1006 MW
		31.	1034 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.

(0625M/0062M-11)

Report Period May11, 1988

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
8.	05/06/88	F	16.6	A	2		FW 2C FW Pp	Manual trip at 20% Steam Generator Level prior to auto trip at 17% Steam Generator Level, after the 2C Feedwater pump tripped.
9.	05/21/88	S	48	B	5			Reduced load to clean water boxes.

* 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
	C-Refueling	4-Continued	Data Entry Sheet
	E-Other	5-Reduced Load	Licensee Event Report
	D-Regulatory Restriction	9-Other	(LER) File (NUREG-0161)
	E-Operator Training & License Examination		

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of May 1988

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)

No

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

Yes. $I_{131} = 1.0 \text{ E-2 } \mu\text{curies/cc}$

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, May 1 through May 31, 1988. 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		

Attached are corrections to the April report (Submitted 5/10/88)

These corrections resulted from the time change that occurred in April.