

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

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 1 at 92% power. The unit operated at power levels of up to 98% until 8/4/88 at 0047 when a reactor trip occurred (grid stability trip). The reactor was taken critical at 1902 on 8/4/88 and synchronized to the grid at 0208 on 8/5/88. The unit operated at power levels of up to 98% for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 09/10/88
COMPILED BY: D. J. Spitzer
TELEPHONE: (615)234-5441
x2023

OPERATING STATUS

1. Reporting Period: August 1988. 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): 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	5855	25944
6. Rx Critical Hours	725.7	5125.7	20437.7
7. Rx Reserve Shutdown Hours	0	0	37.8
8. Hours Generator on Line	718.6	5094.7	20055.7
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2316529	16000060	59595910
11. Gross Elec. Energy (MWH)	786919	5359514	19985291
12. Net Elec. Energy (MWH)	745469	5060295	18799772
13. Reactor Service Factor	97.5	87.5	78.8
14. Reactor Availability Factor	97.5	87.5	78.9
15. Unit Service Factor	96.6	87.0	77.3
16. Unit Availability Factor	96.6	87.0	77.3
17. Unit Capacity Factor (MDC net)	90.7	78.2	65.6
18. Unit Capacity Factor (DER net)	89.5	77.2	64.7
19. Unit Forced Outage Hrs.	25.4	122.5	1034.6
20. Unit Forced Outage Rate	3.4	2.3	4.9
21. Shutdowns Scheduled Over Next 6 Months: 09/03/88			
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.: 050-454
UNIT: Byron One
DATE: 09/10/88
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

MONTH: August, 1988

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. _____	1044 MW	16. _____	1068 MW
2. _____	1073 MW	17. _____	1064 MW
3. _____	1074 MW	18. _____	1050 MW
4. _____	12 MW	19. _____	1085 MW
5. _____	380 MW	20. _____	1086 MW
6. _____	728 MW	21. _____	1083 MW
7. _____	1044 MW	22. _____	1084 MW
8. _____	1076 MW	23. _____	1083 MW
9. _____	1082 MW	24. _____	1085 MW
10. _____	1031 MW	25. _____	1087 MW
11. _____	1049 MW	26. _____	1090 MW
12. _____	1068 MW	27. _____	1086 MW
13. _____	1067 MW	28. _____	1086 MW
14. _____	1068 MW	29. _____	1066 MW
15. _____	1071 MW	30. _____	1103 MW
_____		31. _____	1036 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 August, 1988

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
10.	08/04/88	F	25.4	A	3	88-005-00	AF		Offsite electrical distribution unit stability trip caused main generator to trip, resulting in a turbine trip causing a reactor trip.

* 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
	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 August 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. $I_{131} = 4.5E-3 \mu\text{curies/gr.}$

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, August 1 through August 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>
88-004-00	07/16/88	Tachometer Failure Caused Overspeed Trip of Main Feed Pump, Resulting in a Reactor Trip
88-005-00	08/04/88	Main Generator Stability Trip Caused by Microwave Noise Resulting in a Reactor Trip

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

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 at 75% power. The unit operated at power levels of up to 95% until 8/7/88 when a load reduction, for line stability, occurred. The unit operated at power levels of up to 87% for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 09/10/88
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

OPERATING STATUS

1. Reporting Period: August 1988. 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): 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	5855	9048
6. Rx Critical Hours	744	5761.9	8091.1
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	5511.2	791.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1696191	15498916	21971080
11. Gross Elec. Energy (MWH)	570435	5205408	7309719
12. Net Elec. Energy (MWH)	533256	4904629	6875530
13. Reactor Service Factor	100	98.4	89.4
14. Reactor Availability Factor	100	98.4	80.4
15. Unit Service Factor	100	94.1	86.1
16. Unit Availability Factor	100	94.1	86.1
17. Unit Capacity Factor (MDC net)	64.9	75.8	68.8
18. Unit Capacity Factor (DER net)	64.0	74.8	67.8
19. Unit Forced Outage Hrs.	0	156.2	443.2
20. Unit Forced Outage Rate	0	2.7	5.4
21. Shutdowns Scheduled Over Next 6 Months: 1/7/89			
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.: 050-453
UNIT: Byron Two
DATE: 09/10/88
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5141
x2023

MONTH: August, 1988

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1.	907 MW	16.	958 MW
2.	1045 MW	17.	954 MW
3.	1047 MW	18.	926 MW
4.	1037 MW	19.	861 MW
5.	1050 MW	20.	814 MW
6.	1023 MW	21.	641 MW
7.	739 MW	22.	664 MW
8.	833 MW	23.	310 MW
9.	839 MW	24.	309 MW
10.	836 MW	25.	310 MW
11.	866 MW	26.	313 MW
12.	907 MW	27.	280 MW
13.	952 MW	28.	254 MW
14.	869 MW	29.	252 MW
15.	920 MW	30.	241 MW
		31.	248 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 August, 1988

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
16.	08/07/88	N/A		A	5			Line 15501 - Line Open Stability Trip Disabled

* 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 August 1988

1. Safety/Relief valve operations for Unit Two.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT
None				

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

No

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

Yes. No steady state data.

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, August 1 through August 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>
88-009-00	07/15/88	Thermal Binding of Steam Generator Preheater Bypass Valves Resulting in Low Steam Generator Level Reactor Trip
88-010-00	07/27/88	Exceeded Technical Specification Sample Interval for Inoperable Radiation Monitor Due to Personnel Error



Commonwealth Edison
Byron Nuclear Station
4450 North German Church Road
Byron, Illinois 61010

September 10, 1988

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 August 1 through August 31, 1988.

Sincerely,

R. Pleniewicz
Station Manager
Byron Nuclear Power Station

cc: A.B. Davis, NRC, Region III
NRC Resident Inspector Byron
Gary Wright, Ill. Dept. of Nuclear Safety
T.J. Maiman/K.L. Graesser
H. E. Bliss
Nuclear Fuel Services, PWR Plant Support
L. Anastasia, Station Nuclear Engineering
INPO Records Center
L. Olshan - USNRC

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