



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

FOR REFERENCE

December 10, 1990


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 November 1
through November 30, 1990.

Sincerely,



R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/KO/jkr (0625M/0062M)

cc: A.B. Davis, NRC, Region III
NRC Resident Inspector Byron
Ill. Dept. of Nuclear Safety
M. J. Wallace/K.L. Graesser
Nuclear Licensing Manager
Nuclear Fuel Services, PWR Plant Support
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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

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

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 1 (Power Operation) at approximately 93% 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: 12/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

OPERATING STATUS

1. Reporting Period: November, 1990. Gross Hours: 720
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.	720	8,016	45,649
6. Rx Critical Hours	720	6,432.1	36,972.1
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	720	6,355.1	36,449.1
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,253,682	19,433,186	110,693,626
11. Gross Elec. Energy (MWH)	771,840	6,599,696	37,344,114
12. Net Elec. Energy (MWH)	728,750	6,235,493	35,213,525
13. Reactor Service Factor	100	80.2	81.0
14. Reactor Availability Factor	100	80.2	81.1
15. Unit Service Factor	100	79.3	79.8
16. Unit Availability Factor	100	79.3	79.8
17. Unit Capacity Factor (MDC net)	91.6	70.4	69.8
18. Unit Capacity Factor (DER net)	90.4	69.5	68.9
19. Unit Forced Outage Hrs.	0	171.9	1,228.9
20. Unit Forced Outage Rate	0	2.6	3.3

21. Shutdowns Scheduled Over Next 6 Months: None
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: 12/10/90
 COMPILED BY: K. Orris
 TELEPHONE: (815)234-5441
 x2444

MONTH: November, 1990

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. _____	985 MW	16. _____	994 MW
2. _____	1009 MW	17. _____	1029 MW
3. _____	1002 MW	18. _____	971 MW
4. _____	976 MW	19. _____	997 MW
5. _____	1047 MW	20. _____	999 MW
6. _____	1087 MW	21. _____	967 MW
7. _____	1029 MW	22. _____	891 MW
8. _____	1074 MW	23. _____	990 MW
9. _____	1074 MW	24. _____	959 MW
10. _____	1050 MW	25. _____	841 MW
11. _____	1062 MW	26. _____	985 MW
12. _____	1067 MW	27. _____	1002 MW
13. _____	1093 MW	28. _____	1014 MW
14. _____	1075 MW	29. _____	1050 MW
15. _____	1006 MW	30. _____	1024 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 November, 1990

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No. Date Type Hours Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NO SHUTDOWNS OR REDUCTIONS FOR UNIT 1

* 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
	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 November 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 - Byron Station's Radiological Environmental Monitoring Program (REMP) has been updated to identify new dairy ownership and deleted locations for both dairy and vegetable sampling.

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

No Fuel Reliability Indicator: FRI = $1.6E-4$ $\mu\text{Ci/cc}$

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, November 1 through November 30, 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>
90-013	10/31/90	Loss of OA and OB SX Makeup Pumps due to personnel error.

II. Monthly Report for Byron Wt. - 2 for the month of November 1990

A. Summary of Operating Experience for Unit 2

The unit was in a refuel outage until November 21. The unit operated at power levels up to 75% for the remainder of the month.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
 UNIT: Byron Two
 DATE: 12/10/90
 COMPILED BY: K. Orris
 TELEPHONE: (815)234-5441
 x2444

OPERATING STATUS

1. Reporting Period: November, 1990. Gross Hours: 745
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.	720	8,016	28,753
6. Rx Critical Hours	264	5,948.8	24,013.6
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	226.4	5,897	23,582
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	357,848	16,507,579	62,075,188
11. Gross Elec. Energy (MWH)	114,091	5,631,419	20,976,219
12. Net Elec. Energy (MWH)	97,322	5,290,414	19,680,551
13. Reactor Service Factor	36.7	74.2	83.5
14. Reactor Availability Factor	36.7	74.2	83.5
15. Unit Service Factor	31.4	73.6	82.0
16. Unit Availability Factor	31.4	73.6	82.0
17. Unit Capacity Factor (MDC net)	12.2	59.7	61.9
18. Unit Capacity Factor (DER net)	12.1	58.9	61.1
19. Unit Forced Outage Hrs.	0	26	845
20. Unit Forced Outage Rate	0	0.4	3.5

21. Shutdowns Scheduled Over Next 6 Months: None
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: 12/10/90
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

MONTH: November, 1990

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1.	-13 MW	16.	-15 MW
2.	-13 MW	17.	-15 MW
3.	-13 MW	18.	-15 MW
4.	-13 MW	19.	-15 MW
5.	-13 MW	20.	-15 MW
6.	-13 MW	21.	59 MW
7.	-14 MW	22.	220 MW
8.	-14 MW	23.	246 MW
9.	-14 MW	24.	231 MW
10.	-14 MW	25.	221 MW
11.	-14 MW	26.	234 MW
12.	-14 MW	27.	614 MW
13.	-14 MW	28.	829 MW
14.	-15 MW	29.	833 MW
15.	-15 MW	30.	850 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 November, 1990

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
7	11/21	S	493.6	C	4			Unit exited refueling outage B2R02.

* 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 November 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>
11-20-90	2A S/G PORV	1	Mode 2	Elevated Tave due to Moderator Temperature Coefficient (MTC) testing

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

Yes - Byron Station's Radiological Environmental Monitoring Program (REMP) has been updated to identify new dairy ownership and deleted locations for both dairy and vegetable sampling.

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

N/A. U-2 returned to operation at the end of November. There is insufficient power operation data at this time.

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, November 1 through November 30, 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>
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NONE