



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

November 8, 1991

LTR: BYRON 91-0901  
FILE: 2.7.200

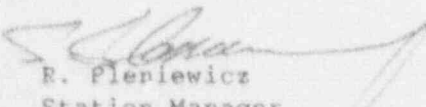
Director, Office of Management Information  
and Program Control  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report  
covering Byron Nuclear Power Station for the period October 1  
through October 31, 1991.

Sincerely,

  
E. Pleniewicz  
Station Manager  
Byron Nuclear Power Station

RP/DE/b1 (3712M/VS)

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  
D. R. Eggett, Station Nuclear Engineering  
INPO Records Center  
A. Hsia - USNRC  
F. Yost - Utility Data Institute, Inc.

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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

Y. Monthly Report for Byrea UNIT 1 for the month of October 1991

A. Summary of Operating Experience for Unit 1

The unit is in Mode 4 of refueling outage.

## B. OPERATING DATA REPORT

DOCKET NO.: 050-154  
UNIT: Byron One  
DATE: 11/08/91  
COMPILED BY: D. Ehle  
TELEPHONE: (615)234-5441  
x2263

### OPERATING STATUS

1. Reporting Period: October, 1991. 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): None
4. Reasons for Restriction (If Any): N/A

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	745	7,296	53,689
6. Rx Critical Hours	0	5,952.9	43,637.1
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	0	5,951.1	43,106.7
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	0	16,514,034	129,386,638
11. Gross Elec. Energy (MWH)	0	5,549,491	43,630,571
12. Net Elec. Energy (MWH)	-10,835	5,224,337	41,141,602
13. Reactor Service Factor	0	81.59	81.28
14. Reactor Availability Factor	0	81.59	81.35
15. Unit Service Factor	0	81.57	80.29
16. Unit Availability Factor	0	81.57	80.29
17. Unit Capacity Factor (MDC net)	-1.32	64.86	69.35
18. Unit Capacity Factor (DER net)	-1.30	63.99	68.42
19. Unit Forced Outage Hrs.	0	0	1,266.4
20. Unit Forced Outage Rate	0	0	2.85

21. Shutdowns Scheduled Over Next 6 Months: Unit 1 fourth refuel outage.
22. If Shutdown at End of Report Period, Estimated Date of Startup: 11/07/91
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: 11/08/91  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

MONTH: October, 1991

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. _____	-12 MW	16. _____	-12 MW
2. _____	-12 MW	17. _____	-12 MW
3. _____	-12 MW	18. _____	-13 MW
4. _____	-12 MW	19. _____	-12 MW
5. _____	-12 MW	20. _____	-12 MW
6. _____	-12 MW	21. _____	-12 MW
7. _____	-12 MW	22. _____	-12 MW
8. _____	-12 MW	23. _____	-13 MW
9. _____	-12 MW	24. _____	-13 MW
10. _____	-13 MW	25. _____	-13 MW
11. _____	-12 MW	26. _____	-13 MW
12. _____	-13 MW	27. _____	-17 MW
13. _____	-13 MW	28. _____	-21 MW
14. _____	-13 MW	29. _____	-22 MW
15. _____	-13 MW	30. _____	-27 MW
		31. _____	-30 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 October, 1991

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 1)

\*\*\*\*\*  
\* BYRON \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
3	10/01/91	S	745	C	1				Unit 1 refueling Outage B1R04.

\*\*\*\*\*  
\* Summary \*  
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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 1) for the month of October 1991

1. Safety/Relief valve operations for Unit One.

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

2. Licensee generated changes to ODCM.

None.

3. Indications of failed fuel.

No Fuel Reliability Indicator:

Unit shut down on 9/06/91.

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, October 1 through October 31, 1991. 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</u> <u>Date</u>	<u>Title of Occurrence</u>
None.		



II. Monthly Report for Byron UNIT 2 for the month of October 1991

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 (Power Operation). Packing leak on valve exceeded Tech Spec limit. Shut down unit October 27, 1991. Unit is in Mode 4.

# B. OPERATING DATA REPORT

DOCKET NO.: 050-455  
UNIT: Byron Two  
DATE: 11/08/91  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

## OPERATING STATUS

1. Reporting Period: October, 1991. 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.	745	7,296	36,793
6. Rx Critical Hours	634.6	7185.6	31,917.7
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	633.9	7,184.9	31,469.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,078,036	22,951,754	87,263,146
11. Gross Elec. Energy (MWH)	703,031	7,775,635	29,513,730
12. Net Elec. Energy (MWH)	676,231	7,403,320	27,807,649
13. Reactor Service Factor	85.18	98.49	86.75
14. Reactor Availability Factor	85.18	98.49	86.75
15. Unit Service Factor	85.09	98.48	85.53
16. Unit Availability Factor	85.09	98.48	85.53
17. Unit Capacity Factor (MDC net)	82.14	91.83	68.40
18. Unit Capacity Factor (DER net)	81.04	90.60	67.48
19. Unit Forced Outage Hrs	111.1	111.1	997.5
20. Unit Forced Outage Rate	14.9	1.5	3.07
21. Shutdowns Scheduled Over Next 6 Months: Unit 2 third refuel outage.			
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: 11/08/91  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

MONTH: October, 1991

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1105 MW	16. 1074 MW
2. 1112 MW	17. 1070 MW
3. 1108 MW	18. 1068 MW
4. 1105 MW	19. 1072 MW
5. 1050 MW	20. 1075 MW
6. 1083 MW	21. 1098 MW
7. 1086 MW	22. 1082 MW
8. 1071 MW	23. 1065 MW
9. 1060 MW	24. 1067 MW
10. 1074 MW	25. 1044 MW
11. 1083 MW	26. 1072 MW
12. 1071 MW	27. 198 MW
13. 1071 MW	28. -20 MW
14. 1101 MW	29. -21 MW
15. 1089 MW	30. -26 MW
	31. -29 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 October, 1991

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 2)

\*\*\*\*\*  
\* BYRON \*  
\*\*\*\*\*

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	10/27/91	F	111:01	A	1		RC	2RC002GC	Packing leak on valve 2RC002GC exceeded Tech Spec.

\*\*\*\*\*  
\* Summary \*  
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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 2) for the month of October 1991

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.

None.

3. Indications of failed fuel.

Yes Fuel Reliability Indicator:  $FRI = 6.9E-4 \mu Ci/cc$

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, October 1 through October 31, 1991. 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</u> <u>Date</u>	<u>Title of Occurrence</u>
None		