



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

November 13, 1992

LTR: BYRON 92-0718  
FILE: 2.7.200

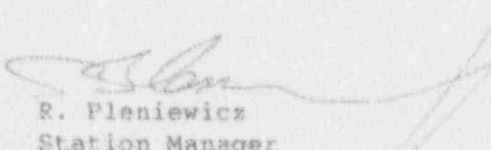
Director, Office of Management Information  
and Program Control  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

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, 1992.

Sincerely,



R. Pleniewicz  
Station Manager  
Byron Nuclear Power Station

RP/DE/ph

cc: A.B. Davis, NRC, Region III  
NRC Resident Inspector Byron  
Ill. Dept. of Nuclear Safety  
M. J. Wallace/E. D. Eenigenburg  
Nuclear Licensing Manager  
Nuclear Fuel Services, PWE Plant Support  
D. R. Eggett, Station Nuclear Engineering  
INPO Records Center  
J. B. Hickman - 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

1. Monthly Report for Byron UNIT 1 for the month of October 1992

A. Summary of Operating Experience for Unit 1

The Unit began this reporting period in Mode 1 (Power Operations). The power level varied due to load following requirements.

# B. OPERATING DATA REPORT

DOCKET NO.: 050-454  
 UNIT: Byron One  
 DATE: 11/13/92  
 COMPILED BY: D. Ehle  
 TELEPHONE: (815)234-5441  
 x2263

## OPERATING STATUS

1. Reporting Period: October, 1992. 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	7320	62,473
6. Rx Critical Hours	745	7267.4	52,194.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	745	7259.1	51,563
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,420,043	22,987,336	155,790,916
11. Gross Elec. Energy (MWH)	820,089	7,760,903	52,534,152
12. Net Elec. Energy (MWH)	796,035	7,466,315	49,685,812
13. Reactor Service Factor	100	99.28	83.55
14. Reactor Availability Factor	100	99.28	83.61
15. Unit Service Factor	100	99.17	82.54
16. Unit Availability Factor	100	99.17	82.54
17. Unit Capacity factor (MDC net)	96.70	92.31	71.97
18. Unit Capacity Factor (DER net)	95.40	91.07	71.01
19. Unit Forced Outage Hrs.	0	60.9	1,403.4
20. Unit Forced Outage Rate	0	.83	2.65

21. Shutdowns Scheduled Over Next 6 Months: Refueling Outage B1R05 2/5/93
22. If Shutdown at End of Report Period, Estimated Date of Startup: 4/10/93
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: 11/13/92  
COMPILED BY: D. Ehle  
TELEPHONE: (615) 234-5441  
x2263

MONTH: October, 1992

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1099 MW	16. 1086 MW
2. 1061 MW	17. 1111 MW
3. 1247 MW	18. 1079 MW
4. 1009 MW	19. 1107 MW
5. 1081 MW	20. 1105 MW
6. 1075 MW	21. 1095 MW
7. 1046 MW	22. 1054 MW
8. 1074 MW	23. 1078 MW
9. 1092 MW	24. 1058 MW
10. 1053 MW	25. 980 MW
11. 1018 MW	26. 1033 MW
12. 1012 MW	27. 1103 MW
13. 1079 MW	28. 1093 MW
14. 1065 MW	29. 1086 MW
15. 1071 MW	30. 1102 MW
	31. 1079 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, 1992

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 1)

\*\*\*\*\*  
\* BYRON \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
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No Shutdown or Major Reductions in October

\*\*\*\*\*  
\* Summary \*  
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TYPE	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test	2-Manual Scram	Instructions for
	C-Refueling	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) F.1g (NUREG-0161)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of OCTOBER 1992

1. Safety/Relief valve operations for Unit One.

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

2. Licensee generated changes to ODCM.

NONE

3. Indications of failed fuel.

Fuel Reliability Indicator:

Yes FRI:  $1.3E-3$   $\mu\text{Ci/cc}$

4. 10CFR50.46 Reporting Requirements: Peak Clad temperature (PCT) changes resulting from change or errors to the ECCS evaluation model.

Current licensing basis PCT plus margin allocation ( $^{\circ}\text{F}$ )

Large Break LOCA  
2051.3

Small Break LOCA  
1510.1

Explain differences from previous report:

None

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, 1992. 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>
454: 92-008	10-01-92	Incomplete Auxiliary
	submitted	Feedwater Surveillance
	10-26-92	Testing Discovered During Review of Surveillance Program



II. Monthly Report for Byron UNIT 2 for the month of October 1992

A. Summary of Operating Experience for Unit 2

The Unit began this reporting period in Mode 1 (Power Operations).

The power level varied due to load following requirements.

## B. OPERATING DATA REPORT

DOCKET NO.: 050-455  
UNIT: Byron Two  
DATE: 11/13/92  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

### OPERATING STATUS

1. Reporting Period: October, 1992. 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	7320	45,577
6. Rx Critical Hours	745	5637.5	38,871.6
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	745	5566.2	38,341.3
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,420,657	16,582,032	108,100,752
11. Gross Elec. Energy (MWH)	834,998	5,667,177	36,623,946
12. Net Elec. Energy (MWH)	810,721	5,439,361	34,616,369
13. Reactor Service Factor	100	77.02	85.29
14. Reactor Availability Factor	100	77.02	85.29
15. Unit Service Factor	100	76.04	84.12
16. Unit Availability Factor	100	76.04	84.12
17. Unit Capacity Factor (MDC net)	98.48	67.25	68.73
18. Unit Capacity Factor (DER net)	97.16	66.35	67.81
19. Unit Forced Outage Hrs.	0	88.1	1244
20. Unit Forced Outage Rate	0	1.56	3.14
21. Shutdowns Scheduled Over Next 6 Months:	NONE		
22. If Shutdown at End of Report Period, Estimated Date of Startup:	NONE		
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: 10/13/92  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

MONTH: October, 1992

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1117 MW	16. 1122 MW
2. 1067 MW	17. 1130 MW
3. 1083 MW	18. 1091 MW
4. 948 MW	19. 1071 MW
5. 1048 MW	20. 1128 MW
6. 1053 MW	21. 1125 MW
7. 1057 MW	22. 1114 MW
8. 1117 MW	23. 1103 MW
9. 1111 MW	24. 1080 MW
10. 1088 MW	25. 977 MW
11. 922 MW	26. 1096 MW
12. 1084 MW	27. 1129 MW
13. 1106 MW	28. 1129 MW
14. 1132 MW	29. 1130 MW
15. 1132 MW	30. 1128 MW
	31. 1108 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, 1992

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 2)

\*\*\*\*\*  
\* BYRON \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
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No Shutdowns or Major Reductions in October

\*\*\*\*\*  
\* Summary \*  
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TYPE	Reason	Method	System & Component
F-Forced	A-Equip Failure F-Admin	1-Manual	Exhibit F & H
S-Sched	B-Maint or Test G-Oper Error	2-Manual Scram	Instructions for
	C-Refueling H-Other	3-Auto Scram	Preparation of
	D-Regulatory Restriction	4-Continued	Data Entry Sheet
	E-Operator Training	5-Reduced Load	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of October 1992

1. Safety/Relief valve operations for Unit Two.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO &amp; TYPE ACTUATION</u>	<u>CLANT CONDITION</u>	<u>DESCRIPTION OF EVENT</u>
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None

2. Licensee generated changes to ODCM.

NONE

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI =  $7.2E-5$   $\mu$ Ci/CC

4. 10CFR50.46 Reporting Requirements: Peak Clad temperature (PCT) changes resulting from changes or errors to the ECCS evaluations model.

Current licensing basis PCT plus major allocations ( $^{\circ}$ F)

Large Break LOCA  
2064.1

Small Break LOCA  
1510.1

Explain differences from previous report:

None



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, 1992 through October 31, 1992. 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		
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