



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

January 6, 1992

LTR: BYRON 92-0024

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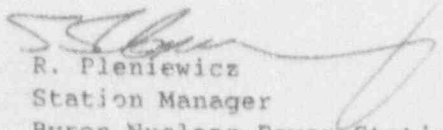
Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

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

Sincerely,


R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/DE/bl (3767M/VS)

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, 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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R PDR

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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 December 1991

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 1 (Power Operation) and continued there all month. The power level varied due to load following requirements.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
 UNIT: Byron One
 DATE: 01/06/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

OPERATING STATUS

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

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	8,760	55,153
6. Rx Critical Hours	744	7,242.7	44,926.9
7. Reserve Shutdown Hours	0	0	33
8. Hours Generator on Line	744	7,148.3	44,303.9
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,400,177	19,930,976	132,803,580
11. Gross Elec. Energy (MWH)	615,562	6,692,169	44,773,249
12. Net Elec. Energy (MWH)	777,885	6,307,232	42,219,497
13. Reactor Service Factor	100.00	82.68	81.46
14. Reactor Availability Factor	100.00	82.68	81.53
15. Unit Service Factor	100.00	81.60	80.33
16. Unit Availability Factor	100.00	81.60	80.33
17. Unit Capacity Factor (MDC net)	94.62	65.16	69.28
18. Unit Capacity Factor (DEK net)	93.35	64.29	68.35
19. Unit Forced Outage Hrs.	0	76.1	1,342.5
20. Unit Forced Outage Rate	0	1.05	2.94

21. Shutdowns Scheduled Over Next 6 Months: N/A
22. If Shutdown at End of Report Period, Estimated Date of Startup: N/A
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: 01/06/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

MONTH: December, 1991

DAY		AVERAGE DAILY POWER LEVEL (MWe-Net)	
1.	1064 MW	16.	1058 MW
2.	1070 MW	17.	1050 MW
3.	1068 MW	18.	1083 MW
4.	1045 MW	19.	1078 MW
5.	1077 MW	20.	1069 MW
6.	1083 MW	21.	1050 MW
7.	1031 MW	22.	1059 MW
8.	942 MW	23.	1040 MW
9.	1059 MW	24.	1063 MW
10.	1043 MW	25.	1022 MW
11.	1011 MW	26.	1045 MW
12.	1013 MW	27.	1102 MW
13.	970 MW	28.	1094 MW
14.	1019 MW	29.	1033 MW
15.	992 MW	30.	1003 MW
		31.	1061 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 December, 1991

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

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 for Unit 1.

* 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 1) for the month of December 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.

Fuel Reliability Indicator:

Yes FRI: $1.1E-2$ μ 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 ($^{\circ}$ 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, December 1 through December 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 Date</u>	<u>Title of Occurrence</u>
91-006	11-14-91	Emergency Diesel Generator Inoperable.

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

A. Summary of Operating Experience for Unit 2

The unit began the reporting period in Mode 1 (Power Operation) and continued there all month. The power level varied due to load following requirements.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
 UNIT: Byron Two
 DATE: 01/06/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

OPERATING STATUS

1. Reporting Period: December, 1991. Gross Hours: 744
2. Currently Authorized Power Level: 3411 (Mwt)
 Design Electrical Rating: 1.75 (MWe-gross)
 Design Electrical Rating: 1120 (MWe-net)
 Max Dependable Capacity: 1103 (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.	744	8,760	38,257
6. Rx Critical Hours	744	8,502	33,234.1
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	8,490.5	32,775.1
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,455,371	27,207,328	91,518,720
11. Gross Elec. Energy (MWH)	833,346	9,218,674	30,956,769
12. Net Elec. Energy (MAH)	705,507	8,772,679	29,177,008
13. Reactor Service Factor	100.00	97.05	86.87
14. Reactor Availability Factor	100.00	97.05	86.87
15. Unit Service Factor	100.00	96.92	85.67
16. Unit Availability Factor	100.00	96.92	85.67
17. Unit Capacity Factor (MDC net)	95.76	90.63	69.02
18. Unit Capacity Factor (DER net)	95.47	89.41	68.02
19. Unit Forced Outage Hrs.	0	269.5	1155.9
20. Unit Forced Outage Rate	0	3.08	3.41
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: 01/06/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-8441
 x2263

MONTH: December, 1991

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. _____	1005 MW	15. _____	1067 MW
2. _____	1072 MW	17. _____	1058 MW
3. _____	1079 MW	18. _____	1082 MW
4. _____	1088 MW	19. _____	1081 MW
5. _____	1057 MW	20. _____	1067 MW
6. _____	1058 MW	21. _____	1056 MW
7. _____	1043 MW	22. _____	1066 MW
8. _____	982 MW	23. _____	1077 MW
9. _____	1025 MW	24. _____	1105 MW
10. _____	1098 MW	25. _____	1106 MW
11. _____	1100 MW	26. _____	1103 MW
12. _____	1008 MW	27. _____	1106 MW
13. _____	1037 MW	28. _____	1108 MW
14. _____	1015 MW	29. _____	1107 MW
15. _____	1060 MW	30. _____	1108 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 December, 1991

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

BYRON *

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 for Unit 2.

* Summary *

TYPE	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit I & H
S-Scram?	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 December 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 = $1.2E-3$ μ 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, December 1 through December 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 Date</u>	<u>Title of Occurrence</u>
91-005	11-07-91	Unit 2 reactor trip on low 2 Steam Generator Level.