



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

February 15, 1991

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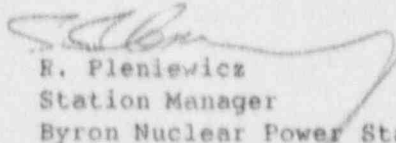
Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

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

Sincerely,


E. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/KO/mcw (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
D. R. Eggett, Station Nuclear Engineering
INPO Records Center
A. Hsia - USNRC

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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 Byros UNIT 1 for the month of January 1991

A. Summary of Operating Experience for Unit 1

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

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
 UNIT: Byron One
 DATE: 02/14/91
 COMPILED BY: K. Orris
 TELEPHONE: (815)234-5441
 x2444

OPERATING STATUS

1. Reporting Period: January, 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): N/A
4. Reasons for Restriction (If Any):

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	744	47,137
6. Rx Critical Hours	744	744	38,428.2
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	744	37,899.6
9. Unit Reserve Shutdown Hours	0	0	0
#10. Gross Thermal Energy (MWH)	2,464,581	2,464,581	115,337,185
11. Gross Elec. Energy (MWH)	829,685	829,685	38,910,765
12. Net Elec. Energy (MWH)	789,256	789,256	36,701,521
13. Reactor Service Factor	100	100	81.5
14. Reactor Availability Factor	100	100	81.6
15. Unit Service Factor	100	100	80.4
16. Unit Availability Factor	100	100	80.4
17. Unit Capacity Factor (MDC net)	96.0	96.0	70.5
18. Unit Capacity Factor (DER net)	94.7	94.7	69.5
19. Unit Forced Outage Hrs.	0	0	1,266.4
20. Unit Forced Outage Rate	0	0	3.2

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: 02/14/91
 COMPILED BY: K. Orris
 TELEPHONE: (815)234-5441
 x2444

MONTH: January, 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1025 MW
2.	1030 MW
3.	1069 MW
4.	1070 MW
5.	1089 MW
6.	1090 MW
7.	1081 MW
8.	1087 MW
9.	1083 MW
10.	1039 MW
11.	1090 MW
12.	1054 MW
13.	1037 MW
14.	1056 MW
15.	1022 MW
16.	1015 MW
17.	1086 MW
18.	1064 MW
19.	1048 MW
20.	1005 MW
21.	1087 MW
22.	1083 MW
23.	1091 MW
24.	1079 MW
25.	1047 MW
26.	1033 MW
27.	1044 MW
28.	1043 MW
29.	1059 MW
30.	1075 MW
31.	1080 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 January, 1991

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 Major Reductions for January

* Summary *

<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System & Component</u>
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 1) for the month of January 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. (Y/N)

None

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

No Fuel Reliability Indicator: FRI = $1.5E-4$ μ 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, January 1 through January 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>
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None

II. Monthly Report for Zyrze UNIT 2 for the month of January 1991

A. Summary of Operating Experience for Unit 2

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.: 050-455
UNIT: Byron Two
DATE: 02/14/91
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

OPERATING STATUS

1. Reporting Period: January, 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): N/A
4. Reasons for Restriction (If Any):

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	744	30,241
6. Rx Critical Hours	744	744	25,476.1
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	744	25,028.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,474,926	2,474,926	66,786,318
11. Gross Elec. Energy (MWH)	839,788	839,788	22,577,883
12. Net Elec. Energy (MWH)	799,427	799,427	21,203,756
13. Reactor Service Factor	100	100	
14. Reactor Availability Factor	100	100	
15. Unit Service Factor	100	100	82.8
16. Unit Availability Factor	100	100	82.8
17. Unit Capacity Factor (MDC net)	97.2	97.2	63.5
18. Unit Capacity Factor (DER net)	95.9	95.9	62.6
19. Unit Forced Outage Hrs.	0	0	886.4
20. Unit Forced Outage Rate	0	0	3.4

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: 02/14/91
 COMPILED BY: K. Orris
 TELEPHONE: (815)234-5441
 x2444

MONTH: January, 1991

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. _____	1039 MW	16. _____	1073 MW
2. _____	1073 MW	17. _____	1086 MW
3. _____	1077 MW	18. _____	1070 MW
4. _____	1073 MW	19. _____	1006 MW
5. _____	1093 MW	20. _____	988 MW
6. _____	1090 MW	21. _____	1081 MW
7. _____	1082 MW	22. _____	1096 MW
8. _____	1092 MW	23. _____	1104 MW
9. _____	1086 MW	24. _____	1100 MW
10. _____	1091 MW	25. _____	1091 MW
11. _____	1101 MW	26. _____	1084 MW
12. _____	1072 MW	27. _____	1055 MW
13. _____	1061 MW	28. _____	1070 MW
14. _____	1063 MW	29. _____	1072 MW
15. _____	1094 MW	30. _____	1070 MW
		31. _____	1062 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 /January, 1991

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	How's	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
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No Shutdowns or Major Reductions in January

* 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 January 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. (Y/N)

None

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

Yes Fuel Reliability Indicator: FRI = $2.3E-4$ $\mu\text{Ci/cc}$

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, January 1 through January 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		