



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

March 11, 1991

LTR: BYRON 91-0184
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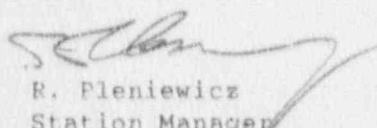
Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report
covering Byron Nuclear Power Station for the period February 1
through February 28, 1991.

Sincerely,



R. 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 Byron UNIT 1 for the month of February 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: 03/11/91
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

OPERATING STATUS

1. Reporting Period: February, 1991. Gross Hours: 672
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.	672	1,416	47,809
6. Rx Critical Hours	672	1,416	39,100.2
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	672	1,416	38,571.6
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,195,323	4,659,904	117,532,508
11. Gross Elec. Energy (MWH)	747,708	1,577,393	39,658,473
12. Net Elec. Energy (MWH)	710,888	1,500,144	37,412,409
13. Reactor Service Factor	100	100	81.8
14. Reactor Availability Factor	100	100	81.9
15. Unit Service Factor	100	100	80.7
16. Unit Availability Factor	100	100	80.7
17. Unit Capacity Factor (MDC net)	95.7	95.9	70.8
18. Unit Capacity Factor (DER net)	94.5	94.6	69.9
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.
(0525M/0062M/3)

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454

UNIT: Byron O.

DATE: 03/11/91

COMPILED BY: K. Orris

TELEPHONE: (815)234-5441
x2444

MONTH: February, 1991

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1091 MW	16. 1082 MW
2. 1102 MW	17. 1052 MW
3. 1072 MW	18. 1060 MW
4. 1057 MW	19. 1080 MW
5. 1071 MW	20. 1063 MW
6. 1066 MW	21. 1025 MW
7. 1066 MW	22. 1001 MW
8. 1055 MW	23. 1058 MW
9. 1042 MW	24. 1041 MW
10. 969 MW	25. 1097 MW
11. 979 MW	26. 1097 MW
12. 989 MW	27. 1106 MW
13. 1047 MW	28. 1103 MW
14. 1040 MW	
15. 1095 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 electric loading 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 Febru. 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 February

* Summary *

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

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of February 1991

1. Safety/relief valve operations for Unit One.

DATE	VALVES ACTUATED	NO & TYPE SITUATION	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 = $1.3E-4$ 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, February 1 through February 28, 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>
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None

II. Monthly Report for Byron UNIT 2 for the month of February 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: 03/11/91
COMPILED BY: K. Orris
TELEPHONE: (815)234-5441
x2444

OPERATING STATUS

1. Reporting Period: February, 1991. Gross Hours: 672
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.	672	1,416	30,913
6. P= Critical Hours	672	1,416	26,148.1
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	672	1,416	25,700.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,190,398	4,665,324	68,976,716
11. Gross Elec. Energy (MWH)	753,900	1,593,688	23,331,783
12. Net Elec. Energy (MWH)	717,171	1,516,598	21,920,927
13. Reactor Service Factor	100	100	84.6
14. Reactor Availability Factor	100	100	84.6
15. Unit Service Factor	100	100	83.1
16. Unit Availability Factor	100	100	83.1
17. Unit Capacity Factor (MDC net)	96.6	96.9	64.3
18. Unit Capacity Factor (DER net)	95.3	95.6	63.3
19. Unit Forced Outage Hrs.	0	0	886.4
20. Unit Forced Outage Rate	0	0	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.: 050-455
UNIT: Byron Two
DATE: 02/11/91
COMPILED BY: J. Orris
TELEPHONE: (815)234-5441
x2444

MONTH: February, 1991

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1052 MW	16. 1098 MW
2. 1058 MW	17. 1057 MW
3. 1056 MW	18. 1038 MW
4. 1069 MW	19. 1036 MW
5. 1022 MW	20. 1075 MW
6. 1079 MW	21. 1066 MW
7. 992 MW	22. 1066 MW
8. 1026 MW	23. 1063 MW
9. 1035 MW	24. 1066 MW
10. 1013 MW	25. 1099 MW
11. 1078 MW	26. 1100 MW
12. 1107 MW	27. 1102 MW
13. 1104 MW	28. 1102 MW
14. 1099 MW	
15. 1112 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 February, 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 in February

* Summary *
** *****

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)

F. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of February 1991

1. Safety/Relief valve operations for Unit Two.

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)

Yes Fuel Reliability Indicator: FRI = $2.0E-6$ cc/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, February 1 through February 28, 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		