



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

June 10, 1991

LTR: BYRON 91-0411
FILE: 2.7.200

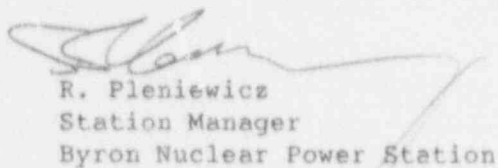
Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

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

Sincerely,



R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/DE/mw (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
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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 May 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: 06/10/91
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

OPERATING STATUS

1. Reporting Period: May, 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	3,623	50,016
6. Rx Critical Hours	744	3,623	41,307.2
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	3,623	40,778.6
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,517,536	11,857,186	124,729,790
11. Gross Elec. Energy (MWH)	850,736	4,020,482	42,101,562
12. Net Elec. Energy (MWH)	809,682	3,823,679	39,735,944
13. Reactor Service Factor	100	100	82.6
14. Reactor Availability Factor	100	100	82.7
15. Unit Service Factor	100	100	81.5
16. Unit Availability Factor	100	100	81.5
17. Unit Capacity Factor (MDC net)	98.5	95.5	71.9
18. Unit Capacity Factor (DER net)	97.2	94.2	70.9
19. Unit Forced Outage Hrs.	0	0	1,266.4
20. Unit Forced Outage Rate	0	0	3.0

21. Shutdowns Scheduled Over Next 6 Months: Unit 1 fourth 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.
(0625M/0062M/3)

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 06/10/91
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

MONTH: May, 1991

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1062 MW	16. 1082 MW
2. 1086 MW	17. 1051 MW
3. 1110 MW	18. 1102 MW
4. 1108 MW	19. 1105 MW
5. 1104 MW	20. 1098 MW
6. 1109 MW	21. 1091 MW
7. 1109 MW	22. 1086 MW
8. 1097 MW	23. 1086 MW
9. 1091 MW	24. 1087 MW
10. 1095 MW	25. 1087 MW
11. 1089 MW	26. 1085 MW
12. 1087 MW	27. 1084 MW
13. 1084 MW	28. 1074 MW
14. 1087 MW	29. 1072 MW
15. 1088 MW	30. 1068 MW
	31. 1059 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 May, 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 in May.

* Summary *

TYPE	Reason	Method	System & Component
F-Forced	A-Equip Failure	1-Manual	Exhibit F & E
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 May 1991

1. Safety/Relief valve operations for Unit One.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO & TYPE ACTUATION</u>	<u>PLANT CONDITION</u>	<u>DESCRIPTION OF EVENT</u>
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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 = $1.2E-4$ 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, May 1 through May 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>
91-002	05-05-91	ESF Actuation due to lightning strike on 345 KV transmission lines.

II. Monthly Report for Byron UNIT 2 for the month of May 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: 06/10/91
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

OPERATING STATUS

1. Reporting Period: May, 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	3,623	33,120
6. Rx Critical Hours	744	3,623	28,355.1
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	3,623	27,907.6
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,374,353	7,600,307	76,110,499
11. Gross Elec. Energy (MWH)	804,410	4,022,509	25,760,604
12. Net Elec. Energy (MWH)	764,762	3,826,955	24,231,284
13. Reactor Service Factor	100	100	85.6
14. Reactor Availability Factor	100	100	85.6
15. Unit Service Factor	100	100	84.3
16. Unit Availability Factor	100	100	84.3
17. Unit Capacity Factor (MDC net)	93.0	95.6	66.2
18. Unit Capacity Factor (DER net)	91.8	94.3	65.3
19. Unit Forced Outage Hrs.	0	0	886.4
20. Unit Forced Outage Rate	0	0	3.1

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: 06/10/91
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

MONTH: May, 1991

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1051 MW	16. 1064 MW
2. 1069 MW	17. 1094 MW
3. 1044 MW	18. 954 MW
4. 1063 MW	19. 952 MW
5. 996 MW	20. 1002 MW
6. 1064 MW	21. 1091 MW
7. 1094 MW	22. 1079 MW
8. 1040 MW	23. 1004 MW
9. 1002 MW	24. 1044 MW
10. 1028 MW	25. 858 MW
11. 1019 MW	26. 919 MW
12. 1079 MW	27. 952 MW
13. 1076 MW	28. 1008 MW
14. 1061 MW	29. 1031 MW
15. 1090 MW	30. 1000 MW
	31. 1025 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 May, 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 May

* 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
	C-Refueling	4-Continued	Data Entry Sheet
	H-Other	5-Reduced Load	Licensee Event Report
	D-Regulatory Restriction	9-Other	(LER) File (NUREG-0151)
	E-Operator Training		
	& License Examination		

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of May 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 = $4.4E-4$ $\mu\text{Ci/cc}$

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, May 1 through May 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>
None		