



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

February 11, 1993

LTR: BYRON 93-0087
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 January 1
through January 31, 1993.

Sincerely,

G. K. Schwartz
Station Manager
Byron Nuclear Power Station

RP/RC/cf

cc: A.B. Davis, NRC, Region III
NRC Resident Inspector Byron
Ill. Dept. of Nuclear Safety
M. J. Wallace/E. L. Eenigenburg
Nuclear Licensing Manager
Nuclear Fuel Services, PWR 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

I. Monthly Report for Byron UNIT 1 for the month of January 1993

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: 02/11/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: January, 1993. 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	744	64,681
6. Rx Critical Hours	744	744	54,402.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	744	53,771
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,382,891	23,828,891	162,839,182
11. Gross Elec. Energy (MWH)	802,121	802,121	54,903,709
12. Net Elec. Energy (MWH)	779,558	779,558	51,985,424
13. Reactor Service Factor	100	100	84.11
14. Reactor Availability Factor	100	100	84.17
15. Unit Service Factor	100	100	82.94
16. Unit Availability Factor	100	100	83.13
17. Unit Capacity Factor (MDC net)	94.82	94.82	72.73
18. Unit Capacity Factor (DER net)	93.55	93.55	71.76
19. Unit Forced Outage Hrs.	0	0.	1,403.4
20. Unit Forced Outage Rate	0	0.	2.54

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: 02/11/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

MONTH: January, 1993

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 785 MW	16. 1103 MW
2. 780 MW	17. 1111 MW
3. 859 MW	18. 1110 MW
4. 1077 MW	19. 1104 MW
5. 1111 MW	20. 1091 MW
6. 1111 MW	21. 1075 MW
7. 1110 MW	22. 1069 MW
8. 1110 MW	23. 1045 MW
9. 1103 MW	24. 1046 MW
10. 1105 MW	25. 1041 MW
11. 1104 MW	26. 1021 MW
12. 1102 MW	27. 1016 MW
13. 1108 MW	28. 1007 MW
14. 1111 MW	29. 1000 MW
15. 1107 MW	30. 982 MW
	31. 962 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, 1993

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	1/19/93	S		H	9				Unit began its Coastdown to B1R05

* Summary *

Unit began its Coastdown to B1R05

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-Refue. ng 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. LIQUID REPORTING REQUIREMENTS (UNIT 1) for the month of January 1993

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.

3. Indications of failed fuel.

Fuel Reliability Indicator:

Yes FRI: $5.9E-4$ $\mu\text{Ci/cc}$

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
1681.6

Explain differences from previous report:

The small break LOCA value changed to account for incorrect safety injection data for the centrifugal charging pump (166.5°) and uncertainty of the pressurizer pressure initial condition during EGC operation (5°) per December 22, 1992 letter from Marcia A. Jackson to Dr. Thomas E. Murley.

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, 1993 through January 31, 1993. 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		

II. Monthly Report for Byron UNIT 2 for the month of January 1993

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: 02/11/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: January, 1993. 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	47,785
6. Rx Critical Hours	744	744	41,079.6
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	744	40,549.3
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,377,986	2,377,986	115,128,443
11. Gross Elec. Energy (MWH)	815,162	815,162	39,031,100
12. Net Elec. Energy (MWH)	792,307	792,307	36,953,066
13. Reactor Service Factor	100	100	85.97
14. Reactor Availability Factor	100	100	35.97
15. Unit Service Factor	100	100	84.86
16. Unit Availability Factor	100	100	84.86
17. Unit Capacity Factor (MDC net)	96.37	96.37	69.98
18. Unit Capacity Factor (DER net)	95.08	95.08	69.05
19. Unit Forced Outage Hrs.	0	0	1244
20. Unit Forced Outage Rate	0	0	2.98
21. Shutdowns Scheduled Over Next 6 Months:		1	B2R04 08/28/93
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: 02/11/93
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2202

MONTH: January, 1993

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 1052 MW	16. 1007 MW
2. 1007 MW	17. 1105 MW
3. 1015 MW	18. 1124 MW
4. 1055 MW	19. 1128 MW
5. 1000 MW	20. 1128 MW
6. 835 MW	21. 1114 MW
7. 1071 MW	22. 1114 MW
8. 1135 MW	23. 1035 MW
9. 1128 MW	24. 991 MW
10. 1117 MW	25. 1125 MW
11. 1126 MW	26. 1111 MW
12. 1126 MW	27. 1101 MW
13. 1127 MW	28. 1039 MW
14. 1132 MW	29. 1126 MW
15. 1120 MW	30. 1121 MW
	31. 575 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, 1993

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
1	01/30/93			A	5		FW Pump	Reduced load to repair leak on 2FW090D.

* Summary *

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	Licer - Event Report
	& License Examination	9-Other	(LER File (NUREG-0161)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of January 1993

1. Safety/Relief valve operations for Unit Two.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO & TYPE ACTUATION</u>	<u>PLANT CONDITION</u>	<u>DESCRIPTION OF EVNT</u>
None				

2. Licensee generated changes to ODCM.

3. Indications of failed fuel.

No. Fuel Reliability Indicator: $FRI = 7.8E-5 \mu Ci/cc$

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 (°F)

Large Break LOCA
2064.1

Small Break LOCA
1681.6

Explain differences from previous report:

The small break LOCA value changed to account for incorrect safety injection data for the centrifugal charging pump (166.5°) and uncertainty of the pressurizer pressure initial condition during EGC operation (5°) per December 22, 1992 letter from Marcia A. Jackson to Dr. Thomas E. Murley.

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, 1993 through January 31, 1993. 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		