



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

June 5, 1992

LTR: BYRON 92-0413
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, 1992.

Sincerely,

R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/DE/ph

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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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

: Monthly Report for Byron UNIT 1 for the month of May 1992

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: 06/05/92
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

OPERATING STATUS

1. Reporting Period: May, 1992. 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	3647	58,800
6. Rx Critical Hours	744	3594.4	48,521.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	3586.1	47,890
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,421,568	11,459,569	144,263,149
11. Gross Elec. Energy (MWH)	816,386	3,875,431	48,648,680
12. Net Elec. Energy (MWH)	790,861	3,709,524	45,929,021
13. Reactor Service Factor	100	98.56	82.52
14. Reactor Availability Factor	100	98.56	82.58
15. Unit Service Factor	100	98.33	81.45
16. Unit Availability Factor	100	98.33	81.45
17. Unit Capacity Factor (MDC net)	96.20	92.05	70.69
18. Unit Capacity Factor (DER net)	94.91	90.82	69.74
19. Unit Forced Outage Hrs.	0	60.9	1,403.4
20. Unit Forced Outage Rate	0	1.67	2.85

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: 06/05/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

MONTH: May, 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)		
1.	1049 MW	16.	1065 MW
2.	1048 MW	17.	1020 MW
3.	1039 MW	18.	1040 MW
4.	1071 MW	19.	1059 MW
5.	1070 MW	20.	1084 MW
6.	1058 MW	21.	1096 MW
7.	1076 MW	22.	1095 MW
8.	1040 MW	23.	1049 MW
9.	996 MW	24.	1054 MW
10.	1000 MW	25.	1061 MW
11.	1078 MW	26.	1093 MW
12.	1101 MW	27.	1082 MW
13.	1044 MW	28.	1104 MW
14.	1047 MW	29.	1100 MW
15.	1073 MW	30.	1070 MW
		31.	1074 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, 1992

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

* Summary *

TYPE	Reason	Method	System & Component	
F-Forced	A-Equip Failur	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 MAY 1992

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.

NONE

3. Indications of failed fuel.

Fuel Reliability Indicator:

Yes FRI: $3.9E-3$ $\mu\text{Ci/cc}$

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
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, May 1 through May 31, 1992. 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>
454:92-003	5-30-92	LCOAR requirements not met due to sample taken on incorrect radiation monitor

II. Monthly Report for Byron UNIT 2 for the month of May 19.2

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: 06/05/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2'63

OPERATING STATUS

1. Reporting Period: May, 1992. 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	3647	41,904
6. Rx Critical Hours	744	2204.2	35,438.3
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	2158.4	34,933.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,119,282	6,122,016	97,640,736
11. Gross Elec. Energy (MWH)	726,638	2,083,749	33,040,518
12. Net Elec. Energy (MWH)	703,364	1,970,936	31,147,944
13. Reactor Service Factor	100	60.44	84.57
14. Reactor Availability Factor	100	60.44	84.57
15. Unit Service Factor	100	59.18	83.37
16. Unit Availability Factor	100	59.18	83.37
17. Unit Capacity Factor (MDC net)	85.55	48.91	67.27
18. Unit Capacity Factor (DER net)	84.41	48.25	66.37
19. Unit Forced Outage Hrs.	0	0	1155.9
20. Unit Forced Outage Rate	0	0	3.20
21. Shutdowns Scheduled Over Next 6 Months: Unit 2 third refuel outage. NONE			
22. IC 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: 06/05/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

MONTH: May, 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)		
1.	187 MW	16.	1024 MW
2.	207 MW	17.	987 MW
3.	332 MW	18.	1045 MW
4.	499 MW	19.	1055 MW
5.	829 MW	20.	1042 MW
6.	840 MW	21.	1077 MW
7.	836 MW	22.	1117 MW
8.	881 MW	23.	1129 MW
9.	1096 MW	24.	999 MW
10.	1091 MW	25.	978 MW
11.	1088 MW	26.	1092 MW
12.	1089 MW	27.	1126 MW
13.	1093 MW	28.	1126 MW
14.	1066 MW	29.	1120 MW
15.	1098 MW	30.	1088 MW
		31.	1053 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, 1992

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No. Date Type Hour Reason Method LER Number System Component Cause & Corrective Action to Prevent Recurrence

NO SHUTDOWNS OR MAJOR REDUCTIONS

* Summary *

<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System & Component</u>
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 May 1992

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.

NONE

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = 0

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
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, May 1, 1992 through May 31, 1992. 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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