



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

September 10, 1992

LTR: BYRON 92-0598
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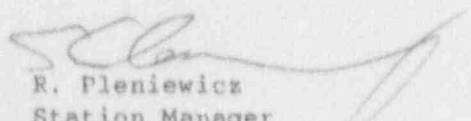
Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report
covering Byron Nuclear Power Station for the period August 1 through
August 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
J. B. Hickman - USNRC
F. Yost - Utility Data Institute, Inc.

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BYROP' 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 August 1992

A. Summary of Operating Experience for Unit 1

The Unit began t'is 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: 09/10/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

OPERATING STATUS

1. Reporting Period: August, 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	5855	61,008
6. Rx Critical Hours	744	5802.4	50,729.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	5794.1	50,098
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,274,847	18,272,062	151,075,642
11. Gross Elec. Energy (MWH)	766,738	6,168,272	50,941,521
12. Net Elec. Energy (MWH)	741,075	5,921,309	48,140,800
13. Reactor Service Factor	100	99.10	83.15
14. Reactor Availability Factor	100	99.10	83.21
15. Unit Service Factor	100	98.96	82.12
16. Unit Availability Factor	100	98.96	82.12
17. Unit Capacity Factor (MDC net)	90.14	91.52	71.41
18. Unit Capacity Factor (DER net)	88.93	90.30	70.45
19. Unit Forced Outage Hrs.	0	60.9	403.4
20. Unit Forced Outage Rate	0	1.04	2.72

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: 09/10/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

MONTH: August, 1992

DAY		AVERAGE DAILY POWER LEVEL (MWe-Net)	
1.	932 MW	16.	739 MW
2.	903 MW	7.	984 MW
3.	1001 MW	18.	1033 MW
4.	975 MW	19.	1064 MW
5.	996 MW	20.	958 MW
6.	1037 MW	21.	1007 MW
7.	1029 MW	22.	937 MW
8.	1022 MW	23.	896 MW
9.	1059 MW	24.	1068 MW
10.	1077 MW	25.	1084 MW
11.	985 MW	26.	1056 MW
12.	1108 MW	27.	1025 MW
13.	1086 MW	28.	1007 MW
14.	993 MW	29.	934 MW
15.	925 MW	30.	962 MW
		31.	983 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 August, 1992

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
10	8/6/92	--	--	F	5	----	---	---	Reduced Load per SPSO

* 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)

8. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of AUGUST 1992

1. Safety/Relief valve operations for Unit One.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CON' TION	DESCRIPTION OF EVENT
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8/1/92

2. Licensee generated changes to ODCM.

8/1/92

3. Indications of failed fuel.

Fuel Reliability Indicator:

Yes FRI: 2 - 3 μ 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 (°F)

Large Break LOCA

Small Break LOCA

1510.2

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, August 1 through August 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</u>	
	<u>Date</u>	<u>Title of Occurrence</u>
454: 92-007	8-18-92	Non-Conservative Samarium in previous revisions to the shutdown margin

II. Monthly Report for Byron UNIT 2 for the month of August 1992

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: 09/10/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

OPERATING STATUS

1. Reporting Period: August, 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	5855	44,112
6. Rx Critical Hours	744	4172.5	37,406.6
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	4101.2	36,876.3
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2,181,039	11,914,508	103,433,228
11. Gross Elec. Energy (MWH)	746,296	4,062,000	35,018,769
12. Net Elec. Energy (MWH)	721,391	3,881,739	33,058,747
13. Reactor Service Factor	106	71.26	84.80
14. Reactor Availability Factor	100	71.26	84.80
15. Unit Service Factor	100	70.05	83.60
16. Unit Availability Factor	100	70.05	83.60
17. Unit Capacity Factor (MDC net)	87.75	60.00	67.82
18. Unit Capacity Factor (DER net)	86.57	59.19	66.91
19. Unit Forced Outage Hrs.	0	88.1	1244
20. Unit Forced Outage Rate	0	2.10	3.26
21. Shutdowns Scheduled Over Next 6 Months:	NONE		
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: 09/10/92
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

MONTH: August, 1992

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1.	988 MW	16.	694 MW
2.	958 MW	17.	960 MW
3.	1102 MW	18.	1001 MW
4.	971 MW	19.	962 MW
5.	991 MW	20.	924 MW
6.	1012 MW	21.	948 MW
7.	1023 MW	22.	796 MW
8.	944 MW	23.	886 MW
9.	1021 MW	24.	989 MW
10.	1091 MW	25.	1056 MW
11.	1061 MW	26.	1055 MW
12.	1032 MW	27.	1000 MW
13.	1016 MW		1003 MW
14.	992 MW	29.	869 MW
15.	932 MW	30.	757 MW
		31.	1009 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 August, 1992

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
5	8/16/92	--	---	F	5	---	--	-----	Reduced Load per SPSO

* 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)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of August 1992

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.

NONE

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = $5.8E-5$ μ 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 ($^{\circ}$ F)

Large Break LOCA
2764.1

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, August 1, 1992 through August 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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NONE