



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

August 10, 1992

LTR: BYRON 92-0558  
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 July 1 through  
July 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  
111. 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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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 July 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: 08/10/92  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

### OPERATING STATUS

1. Reporting Period: July, 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	5111	60,264
6. Rx Critical Hours	744	5058.4	49,985.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	5050.1	49,354
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,757.5	15,997,215	148,800,795
11. Gross Elec. Energy (MWH)	765,406	5,401,534	50,174,783
12. Net Elec. Energy (MWH)	736,503	5,180,234	47,399,731
13. Reactor Service Factor	100	98.97	82.94
14. Reactor Availability Factor	100	98.97	83.01
15. Unit Service Factor	100	98.81	81.90
16. Unit Availability Factor	100	98.81	81.90
17. Unit Capacity Factor (MDC net)	89.59	91.72	71.18
18. Unit Capacity Factor (DER net)	88.39	90.50	70.23
19. Unit Forced Outage Hrs.	0	60.9	1,403.4
20. Unit Forced Outage Rate	0	1.19	2.76

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: 08/10/92  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

MONTH: July, 1992

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1046 MW	16. 932 MW
2. 1030 MW	17. 1081 MW
3. 937 MW	18. 1079 MW
4. 657 MW	19. 984 MW
5. 803 MW	20. 1032 MW
6. 979 MW	21. 1016 MW
7. 1032 MW	22. 914 MW
8. 1024 MW	23. 930 MW
9. 1043 MW	24. 1021 MW
10. 1056 MW	25. 928 MW
11. 866 MW	26. 1021 MW
12. 957 MW	27. 995 MW
13. 1060 MW	28. 1011 MW
14. 1105 MW	29. 1030 MW
15. 1090 MW	30. 1008 MW
	31. 1003 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 July, 1992

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 1)

\*\*\*\*\*  
\* BYRON \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
9	7/4	--	--	F	5	----	---	---	Reduced Load per SPSO

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\* Summary \*  
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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	Licensee Event Report
	& License Examination	9-Other	(LER) File (NUREG-0161)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of JULY 1992

1. Safety/Relief valve operations for Unit One.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO &amp; 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:  $3.8E-3$   $\mu\text{Ci/cc}$

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, July 1 through July 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: 92-005	7-24-92	Degraded Equipment Voltage Setpoints
454: 92-006	7-28-92	IST Program Surveillance Deficiency



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

A. Summary of Operating Experience for Unit 2

The Unit began this reporting period in Mode 1 (Power Operations)

Unit 2 was down from July 18 to 24 for maintenance repairs to replace hydrogen seals (M03). The Unit was back on line July 25 and ran the rest of the month.

## B. OPERATING DATA REPORT

DOCKET NO.: 050-455  
UNIT: Byron Two  
DATE: 08/10/92  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

### OPERATING STATUS

1. Reporting Period: July, 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	5111	43,368
6. Rx Critical Hours	500.6	3428.5	36,662.6
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	566.9	3357.2	36,132.3
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1,696,730	9,733,419	101,252,139
11. Gross Elec. Energy (MWH)	576,526	3,315,704	34,272,473
12. Net Elec. Energy (MWH)	555,712	3,160,348	32,337,356
13. Reactor Service Factor	78.04	67.08	84.54
14. Reactor Availability Factor	78.04	67.08	84.54
15. Unit Service Factor	76.20	65.69	83.32
16. Unit Availability Factor	76.20	65.69	83.32
17. Unit Capacity Factor (MDC net)	67.59	55.96	67.48
18. Unit Capacity Factor (DER net)	66.69	55.21	66.58
19. Unit Forced Outage Hrs.	0	88.1	1244
20. Unit Forced Outage Rate	0	2.56	3.33
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: 08/10/92  
COMPILED BY: D. Ehle  
TELEPHONE: (815)234-5441  
x2263

MONTH: July, 1992

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1110 MW	16. 1110 MW
2. 1084 MW	17. 993 MW
3. 998 MW	18. -10 MW
4. 750 MW	19. -14 MW
5. 742 MW	20. -14 MW
6. 978 MW	21. -14 MW
7. 1114 MW	22. -14 MW
8. 1104 MW	23. -14 MW
9. 1090 MW	24. -14 MW
10. 1037 MW	25. 257 MW
11. 1096 MW	26. 767 MW
12. 937 MW	27. 973 MW
13. 1051 MW	28. 1010 MW
14. 987 MW	29. 1040 MW
15. 982 MW	30. 992 MW
	31. 1015 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 restricted power level line.) In such cases the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

Report Period July, 1992

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 2)

\*\*\*\*\*  
\* BYRON \*  
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	7/18	S	177.1	A	1	---	--	-----	Maintenance Outage to replace Hydrogen seals (MO3)

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\* Summary \*  
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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 July 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:  $FRI = 6.5E-5 \mu Ci/CC$

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  
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, July 1, 1992 through July 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		
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