



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

October 6, 1993

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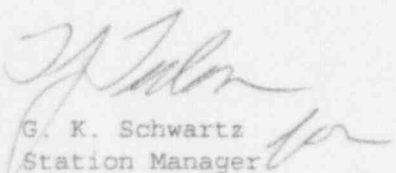
Director, Office of Management Information  
and Program Control  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report  
covering Byron Nuclear Power Station for the period September 1  
through September 30, 1993.

Sincerely,

  
G. K. Schwartz  
Station Manager  
Byron Nuclear Power Station

GKS/RC/ng

cc: J.B. Martin, NRC, Region III  
NRC Resident Inspector Byron  
IL Dept. of Nuclear Safety  
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 September 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: 10/06/93  
COMPILED BY: R. Colglazier  
TELEPHONE: (815) 234-5441  
x2282

### OPERATING STATUS

1. Reporting Period: September, 1993. Gross Hours: 720
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.	720	6,551	70,488
6. Rx Critical Hours	720	4,943.2	58,601.5
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	720	4,896.1	57,923.5
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,339,957	15,278,286	175,734,577
11. Gross Elec. Energy (MWH)	805,627	5,187,850	59,289,438
12. Net Elec. Energy (MWH)	771,781	4,939,475	56,145,341
13. Reactor Service Factor	100	75.46	83.14
14. Reactor Availability Factor	100	75.46	83.19
15. Unit Service Factor	100	74.74	82.17
16. Unit Availability Factor	100	74.74	82.17
17. Unit Capacity Factor (MDC net)	97.01	68.24	72.08
18. Unit Capacity Factor (DER net)	95.71	67.32	71.12
19. Unit Forced Outage Hrs.	0	94.8	1,498.2
20. Unit Forced Outage Rate	0	1.90	2.52
21. Shutdowns Scheduled Over Next 6 Months:	0	0	0
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.: 050-454  
UNIT: Byron One  
DATE: 10/06/93  
COMPILED BY: R. Colglazier  
TELEPHONE: (815) 234-5441  
x2282

MONTH: September, 1993

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 1046 MW	16. 1057 MW
2. 1096 MW	17. 1089 MW
3. 1092 MW	18. 1099 MW
4. 1034 MW	19. 1078 MW
5. 977 MW	20. 1047 MW
6. 937 MW	21. 1114 MW
7. 1049 MW	22. 1113 MW
8. 1012 MW	23. 1102 MW
9. 1041 MW	24. 1108 MW
10. 1034 MW	25. 1102 MW
11. 1064 MW	26. 1096 MW
12. 1025 MW	27. 1110 MW
13. 1095 MW	28. 1119 MW
14. 1106 MW	29. 1093 MW
15. 1095 MW	30. 1112 MW
	31.

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 September, 1993

UNIT SHUTDOWNS/REDUCTIONS  
(UNIT 1)

\*\*\*\*\*  
\* BYRON \*  
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<u>No.</u>	<u>Date</u>	<u>Type</u>	<u>Hours</u>	<u>Reason</u>	<u>Method</u>	<u>LER Number</u>	<u>System</u>	<u>Component</u>	<u>Cause &amp; Corrective Action to Prevent Recurrence</u>
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NO SHUTDOWNS OR MAJOR REDUCTIONS FOR UNIT ONE IN SEPTEMBER

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\* Summary \*  
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<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; Component</u>	
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 1) for the month of September 1993

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:

No FRI: 0 $\mu$ 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, occurring during the reporting period, September 1, 1993 through September 30, 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 September 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 coast down requirements.

The Unit was shutdown 09/03/93 for it's 4th refueling outage.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455  
UNIT: Byron Two  
DATE: 10/06/93  
COMPILED BY: R. Colglazier  
TELEPHONE: (815)234-5441  
x2282

OPERATING STATUS

1. Reporting Period: September, 1993. Gross Hours: 720
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.	720	6,551	53,592
6. Rx Critical Hours	50.7	5,843.9	46,179.5
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	49.4	5,805.5	45,610.8
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	96,047	18,349,729	131,100,186
11. Gross Elec. Energy (MWH)	31,455	6,257,200	44,473,138
12. Net Elec. Energy (MWH)	20,588	5,998,740	42,159,499
13. Reactor Service Factor	7.04	89.21	86.17
14. Reactor Availability Factor	7.04	89.21	86.17
15. Unit Service Factor	6.86	88.62	85.11
16. Unit Availability Factor	6.86	88.62	85.11
17. Unit Capacity Factor (MDC net)	2.59	82.87	71.19
18. Unit Capacity Factor (DER net)	2.55	81.76	70.24
19. Unit Forced Outage Hrs.	0	74.90	1,318.90
20. Unit Forced Outage Rate	0	1.27	2.81
21. Shutdowns Scheduled Over Next 6 Months:			
22. If Shutdown at End of Report Period, Estimated Date of Startup: 11/02/93			
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.: 050-455  
UNIT: Byron Two  
DATE: 09/09/93  
COMPILED BY: R. Colglasier  
TELEPHONE: (815) 234-5441  
x2282

MONTH: September, 1993

DAY      AVERAGE DAILY POWER LEVEL  
          (MWe-Net)

1.      _____ 688 MW _____	16.      _____ -13 MW _____
2.      _____ 528 MW _____	17.      _____ -13 MW _____
3.      _____ -5 MW _____	18.      _____ -13 MW _____
4.      _____ -14 MW _____	19.      _____ -13 MW _____
5.      _____ -13 MW _____	20.      _____ -13 MW _____
6.      _____ -13 MW _____	21.      _____ -13 MW _____
7.      _____ -13 MW _____	22.      _____ -13 MW _____
8.      _____ -13 MW _____	23.      _____ -13 MW _____
9.      _____ -13 MW _____	24.      _____ -13 MW _____
10.     _____ -13 MW _____	25.     _____ -13 MW _____
11.     _____ -13 MW _____	26.     _____ -13 MW _____
12.     _____ -13 MW _____	27.     _____ -13 MW _____
13.     _____ -13 MW _____	28.     _____ -13 MW _____
14.     _____ -13 MW _____	29.     _____ -13 MW _____
15.     _____ -13 MW _____	30.     _____ -13 MW _____
	31.     _____

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 September, 1993

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	09/03/93	S	670.6	C	1	---	---	---	UNIT BEGAN REFUEL OUTAGE B2R04

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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 September 1993

1. Safety/Relief valve operations for Unit Two.

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

2. Licensee generated changes to ODCM.

None

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = 0  $\mu$ 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, occurring during the reporting period, September 1, 1993 through September 30, 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>
93-004	09/05/93	Inadvertent SI due to Mispositioned Switch
93-005	09/16/93	Control of Contractor Dose Limits
93-006	09/24/93	Source Range-Missed Surveillance