



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

September 9, 1993

LTR: BYRON 93-0516  
FILE: 2.7.200 (1.10.0101)

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, 1993.

Sincerely,

G. K. Schwartz  
Station Manager  
Byron Nuclear Power Station

GKS/RC/rp

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 August 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: 09/09/93  
COMPILED BY: R. Colglazier  
TELEPHONE: (815) 234-5441  
x2282

OPERATING STATUS

1. Reporting Period: August, 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	5,831	69,768
6. Rx Critical Hours	744	4,223.2	57,881.5
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	4,176.1	57,203.1
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,331,105	12,938,329	173,394,620
11. Gross Elec. Energy (MWH)	789,863	4,382,223	58,483,811
12. Net Elec. Energy (MWH)	750,934	4,167,694	55,373,560
13. Reactor Service Factor	100	72.43	82.96
14. Reactor Availability Factor	100	72.43	83.02
15. Unit Service Factor	100	71.62	81.99
16. Unit Availability Factor	100	71.62	81.99
17. Unit Capacity Factor (MDC net)	91.34	64.68	71.83
18. Unit Capacity Factor (DER net)	90.12	63.82	70.86
19. Unit Forced Outage Hrs.	0	94.8	1,498.2
20. Unit Forced Outage Rate	0	2.22	2.55
21. Shutdowns Scheduled Over Next 6 Months:	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: 09/09/93  
COMPILED BY: R. Colglazier  
TELEPHONE: (815) 234-5441  
x2282

MONTH: August, 1993

DAY      AVERAGE DAILY POWER LEVEL  
          (MWe-Net)

1.	1042 MW	16.	960 MW
2.	997 MW	17.	1080 MW
3.	1093 MW	18.	1079 MW
4.	1092 MW	19.	1071 MW
5.	972 MW	20.	953 MW
6.	995 MW	21.	750 MW
7.	1000 MW	22.	841 MW
8.	949 MW	23.	983 MW
9.	984 MW	24.	1052 MW
10.	994 MW	25.	1024 MW
11.	1077 MW	26.	1028 MW
12.	1069 MW	27.	1089 MW
13.	1071 MW	28.	1021 MW
14.	996 MW	29.	922 MW
15.	996 MW	30.	1025 MW
		31.	1068 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, 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>
5	08/20/93	F	16	A	5		CW	Waterbox	Tube Leak In The 1A CW Box

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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 August 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, August 1, 1993 through August 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 August 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: 09/09/93  
COMPILED BY: R. Colglazier  
TELEPHONE: (815)234-5441  
x2282

OPERATING STATUS

1. Reporting Period: August, 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):

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	744	5,831	52,872
6. Rx Critical Hours	744	5,793.2	46,128.8
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	744	5,756.1	45,561.4
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1,958,439	18,253,682	131,004,139
11. Gross Elec. Energy (MWH)	660,630	6,225,745	44,441,683
12. Net Elec. Energy (MWH)	624,605	5,978,152	42,138,911
13. Reactor Service Factor	100	99.35	87.25
14. Reactor Availability Factor	100	99.35	87.25
15. Unit Service Factor	100	98.72	86.17
16. Unit Availability Factor	100	98.72	86.17
17. Unit Capacity Factor (MDC net)	75.97	92.78	72.13
18. Unit Capacity Factor (DER net)	74.96	91.54	71.16
19. Unit Forced Outage Hrs.	0	74.90	1318.9
20. Unit Forced Outage Rate	0	1.28	2.81
21. Shutdowns Scheduled Over Next 6 Months:	1	B2R04 09/03/93	
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: 09/09/93  
COMPILED BY: R. Colglazier  
TELEPHONE: (815)234-5441  
x2282

MONTH: August, 1993

DAY      AVERAGE DAILY POWER LEVEL  
          (MWe-Net)

1.	1004 MW	16.	831 MW
2.	991 MW	17.	819 MW
3.	972 MW	18.	805 MW
4.	972 MW	19.	799 MW
5.	962 MW	20.	797 MW
6.	956 MW	21.	785 MW
7.	952 MW	22.	773 MW
8.	934 MW	23.	750 MW
9.	906 MW	24.	747 MW
10.	899 MW	25.	738 MW
11.	890 MW	26.	726 MW
12.	880 MW	27.	711 MW
13.	865 MW	28.	724 MW
14.	857 MW	29.	722 MW
15.	846 MW	30.	694 MW
		31.	704 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, 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

NO SHUTDOWNS DURING AUGUST

\*\*\*\*\*  
\* Summary \*  
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<u>TYPE</u>	<u>Reason</u>	<u>Method</u>	<u>System &amp; 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 August 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, August 1, 1993 through August 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>
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None		
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