

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 12/10/87
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

OPERATING STATUS

1. Reporting Period: November 1987. Gross Hours: 720
2. Currently Authorized Power Level (MWt): 3411
Design Electrical Rating: 1175 (MWe-gross)
Design Electrical Rating: 1120 (MWe-net)
Max Dependable Capacity (MWe-net): NOT DETERMINED
3. Power Level to Which Restricted (If Any): 1097 (Mwe-net)
4. Reasons for Restriction (If Any): Steam Generator Split Flow (23MW)

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	720	8016	19345
6. Rx Critical Hours	720	5466	14568
7. Rx Reserve Shutdown Hours	0	0	37.8
8. Hours Generator on Line	720	5263	14217
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2272967.6	14742799.6	41288633.6
11. Gross Elec. Energy (MWH)	762621	4933589	13857821
12. Net Elec. Energy (MWH)	723097	4594521	13012599
13. Reactor Service Factor	100	68.2	75.3
14. Reactor Availability Factor	100	68.2	76
15. Unit Service Factor	100	66	74
16. Unit Availability Factor	100	66	74
17. Unit Capacity Factor (MDC net)	N/A	N/A	N/A
18. Unit Capacity Factor (DER net)	90	51.2	60.1
19. Unit Forced Outage Hrs.	0	135.1	912.1
20. Unit Forced Outage Rate	0	2.50	6.02
21. Shutdowns Scheduled Over Next 6 Months:			
22. If Shutdown at End of Report Period, Estimated Date of Startup:			
23. Units in Test Status (Prior to Commercial Operation):			None

*Note - The cumulative numbers do not reflect power generated prior to commercial service.

(0625M/0062M-4)

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PDR ADOCK 05000454
R DCD

Test 1/1

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 12/10/87
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

MONTH: November, 1937

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. 971 MW	16. 961 MW
2. 990 MW	17. 1065 MW
3. 1058 MW	18. 1073 MW
4. 993 MW	19. 1071 MW
5. 988 MW	20. 1047 MW
6. 1061 MW	21. 1051 MW
7. 1003 MW	22. 1051 MW
8. 989 MW	23. 979 MW
9. 1024 MW	24. 987 MW
10. 1060 MW	25. 971 MW
11. 1048 MW	26. 960 MW
12. 1000 MW	27. 976 MW
13. 1019 MW	28. 819 MW
14. 1045 MW	29. 826 MW
15. 1006 MW	30. 1020 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 November, 1987

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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NONE

* Summary *

TYPE	Reason	Method	System & Component
F-Forced S-Sched	A-Equip Failure B-Maint or Test C-Refueling D-Regulatory Restriction E-Operator Training & License Examination	1-Manual 2-Manual Scram 3-Auto Scram 4-Continued 5-Reduced Load 9-Other	Exhibit F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)

(0625M/0062M-6)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of November 1987

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. (Y/N)

No

3. Indications of failed fuel. (Y/N)

Yes. $I_{131} \approx 2.0 \text{ E-3 } \mu\text{curies/gram}$

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, November 1 through November 30, 1987. 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>
87-022-00	10/26/87	Containment Vent Isolation caused by AR12J Spike

II. Monthly Report for Byron Unit 2 for the month of November 1987

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 at 94% power. The unit operated at power levels of up to 94% until 11/20/87 when power was decreased due to high steam generator cation conductivity. On 11/21/87 at 0328 the load reduction was completed at 26% reactor power. The condition was corrected and power was at 88% by 0700 on 11/24/87. At 1740 on 11/25/87 a power reduction for a scheduled surveillance outage was begun. On 11/26/87 at 0200 the generator was taken off line. At 2025 on 11/26/87 Mode 5 (Cold Shutdown) was entered. The unit remained in mode 5 for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
 UNIT: Byron Two
 DATE: 12/10/87
 COMPILED BY: D. J. Spitzer
 TELEPHONE: (815)234-5441
 x2023

OPERATING STATUS

1. Reporting Period: November 1987. Gross Hours: 720

2. Currently Authorized Power Level (MWt): 3411
 Design Electrical Rating: 1175 (MWe-gross)
 Design Electrical Rating: 1120 (MWe-net)
 Max Dependable Capacity (MWe-net): NOT DETERMINED

3. Power Level to Which Restricted (If Any): 1055 (MWe-net)

4. Reasons for Restriction (If Any): Steam Generator Split Flow. (65 MW)

	THIS MONTH	YR TO DATE	CUMULATIVE%
5. Report Period Hrs.	720	2449	2449
6. Rx Critical Hours	602.1	2079.1	2079.1
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	602	2043	2043
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1735646.4	6124186.4	6124186.4
11. Gross Elec. Energy (MWH)	582290	1995763	1995763
12. Net Elec. Energy (MWH)	549267	1879841	1879841
13. Reactor Service Factor	84	85	85
14. Reactor Availability Factor	84	85	85
15. Unit Service Factor	84	83.4	83.4
16. Unit Availability Factor	84	83.4	83.4
17. Unit Capacity Factor (MDC net)	N/A	N/A	N/A
18. Unit Capacity Factor (DER net)	68.1	69	69
19. Unit Forced Outage Hrs.	0	288	288
20. Unit Forced Outage Rate	0	12.3	12.3

21. Shutdowns Scheduled Over Next 6 Months:

22. If Shutdown at End of Report Period, Estimated Date of Startup: 12/24/87

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: 12/10/87
 COMPILED BY: D. J. Spitzer
 TELEPHONE: (815)234-5441
 x2023

MONTH: November, 1987

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1. 1003 MW	16. 999 MW
2. 946 MW	17. 984 MW
3. 942 MW	18. 1038 MW
4. 953 MW	19. 1036 MW
5. 999 MW	20. 1034 MW
6. 947 MW	21. 303 MW
7. 1009 MW	22. 345 MW
8. 923 MW	23. 638 MW
9. 997 MW	24. 919 MW
10. 1034 MW	25. 825 MW
11. 1032 MW	26. -10 MW
12. 1033 MW	27. -15 MW
13. 1005 MW	28. -11 MW
14. 985 MW	29. -9 MW
15. 999 MW	30. -9 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 November, 1987

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System Component	Cause & Corrective Action to Prevent Recurrence
5.	11/20/87	F	31	H	5	MS	CP Demin S/G Cation Conductivity Concerns	
6.	11/26/87	S	118	H	1		Unit 2 Surveillance Outage	

* Summary *

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)

{0625M/0062M-12}

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of November 1987

1. Safety/Relief valve operations for Unit Two.

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

2. Licensee generated changes to ODCM. (Y/N)

No

3. Indications of failed fuel. (Y/N)

Yes. I₁₃₁ 2.0E-2 µcuries/gram

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, November 1 through November 30, 1987. 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

Attached are updates of the Unit 1 and Unit 2 operating data section for the month of October. These changes resulted from incorrect reporting of the time change that occurred during the October reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 11/10/87
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

OPERATING STATUS

1. Reporting Period: October 1987. Gross Hours: 745**
2. Currently Authorized Power Level (MWt): 3411
Design Electrical Rating: 1175 (MWe-gross)
Design Electrical Rating: 1120 (MWe-net)
Max Dependable Capacity (MWe-net): NOT DETERMINED
3. Power Level to Which Restricted (If Any): 1097 (MWe-net)
4. Reasons for Restriction (If Any): Steam Generator Split Flow (23MW)

	THIS MONTH	YR TO DATE	CUMULATIVE*
5. Report Period Hrs.	745	7296	18625
6. Rx Critical Hours	745	4746	13848
7. Rx Reserve Shutdown Hours	0	0	37.8
8. Hours Generator on Line	745	4543	13497
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2343715	12469832	39015666
11. Gross Elec. Energy (MWH)	790337	4170968	13095200
12. Net Elec. Energy (MWH)	749178	3871424	12289502
13. Reactor Service Factor	100	65	74.3
14. Reactor Availability Factor	100	65	75
15. Unit Service Factor	100	63	73
16. Unit Availability Factor	100	63	73
17. Unit Capacity Factor (MDC net)	N/A	N/A	N/A
18. Unit Capacity Factor (DER net)	90	47.4	59
19. Unit Forced Outage Hrs.	0	135.1	912.1
20. Unit Forced Outage Rate	0	2.88	6.33
21. Shutdowns Scheduled Over Next 6 Months:			
22. If Shutdown at End of Report Period, Estimated Date of Startup:			
23. Units in Test Status (Prior to Commercial Operation):			See Unit 2 (II.B.23)

*Note - The cumulative numbers do not reflect power generated prior to commercial service.

** One more hour in period due to the time change.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 11/10/87
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441
x2023

OPERATING STATUS

1. Reporting Period: October 1987. Gross Hours: 745**
2. Currently Authorized Power Level (MWt): 3411
Design Electrical Rating: 1175 (MWe-gross)
Design Electrical Rating: 1120 (MWe-net)
Max Dependable Capacity (MWe-net): NOT DETERMINED
3. Power Level to Which Restricted (If Any): 1055 (MWe-net)
4. Reasons for Restriction (If Any): Steam Generator Split Flow. (65 MW)
5. Report Period Hrs. THIS MONTH YR TO DATE CUMULATIVE*
6. Rx Critical Hours 745 1729 1729
7. Rx Reserve Shutdown Hours 699 1477 1477
8. Hours Generator on Line 0 0 0
9. Unit Reserve Shutdown Hours 677.2 1441 1441
10. Gross Thermal Energy (MWH) 0 0 0
11. Gross Elec. Energy (MWH) 1996878 4388540 4388540
12. Net Elec. Energy (MWH) 671579 1413473 1413473
13. Reactor Service Factor 634809 1330574 1330574
14. Reactor Availability Factor 94 85.4 85.4
15. Unit Service Factor 94 85.4 85.4
16. Unit Availability Factor 91 83.3 83.3
17. Unit Capacity Factor (MDC net) 91 83.3 83.3
18. Unit Capacity Factor (DER net) N/A N/A N/A
19. Unit Forced Outage Hrs. 76.3 69 69
20. Unit Forced Outage Rate 67.8 288 288
21. Shutdowns Scheduled Over Next 6 Months: 9 17 17
22. If Shutdown at End of Report Period, Estimated Date of Startup: 11/28/87
23. Units in Test Status (Prior to Commercial Operation): (UNIT 2)

	<u>Forecast</u>	<u>Achieved</u>
Initial Criticality	01/07/87	01/09/87
Initial Electricity	02/05/87	02/06/87
Commercial Operation	05/31/87	08/21/87

*Note - The cumulative numbers do not reflect power generated prior to commercial service.

** One more hour in time period due to the time change.

(0625M/0062M-17)

December 10, 1987

LTR: BYRON 87-1181
File: 2.7.200

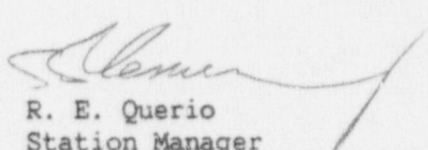
Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report covering Byron Nuclear Power Station for the period November 1 through November 30, 1987.

Very truly yours,


R. E. Querio
Station Manager
Byron Nuclear Power Station

REQ/DJS/bb

cc: A.B. Davis, NRC, Region III
NRC Resident Inspector Byron
Gary Wright, Ill. Dept. of Nuclear Safety
T.J. Maiman/K.L. Graesser
L.D. Butterfield
Nuclear Fuel Services, PWR Plant Support
L. Anastasia, Station Nuclear Engineering
INPO Records Center
L. Olshan - USNRC

(0625M/0062M-1)

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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 November 1987

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 1 at 98% power. The unit operated at power levels of up to 98% for the entire reporting period.