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

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I. Monthly Report for Byron Unit 1 for the month of March 1989

A. Summary of Operating Experience for Unit 1

The unit began this reporting period in Mode 1 (Power Operation) at approximately 100% power. The unit operated at power levels of up to 100% power until 3/4/89 when power was decreased to 73% to repair a leak in the 1C circulating waterbox. The unit was returned to and operated at power levels of up to 100% until 3/11/89 when power was reduced to 65% per the load dispatcher. The unit operated at power levels of up to 99% for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 04/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

OPERATING STATUS

1. Reporting Period: March 1989. 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	2160	31033
6. Rx Critical Hours	744	2142.7	23939.8
7. Rx Reserve Shutdown Hours	0	0	37.8
8. Hours Generator on Line	744	2137.6	23494.5
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	2186778	6735447	70282760
11. Gross Elec. Energy (MWH)	742293	2294365	23607246
12. Net Elec. Energy (MWH)	699074	2176796	22209304
13. Reactor Service Factor	100	99.2	77.1
14. Reactor Availability Factor	100	99.2	77.3
15. Unit Service Factor	100	99.0	75.7
16. Unit Availability Factor	100	99.0	75.7
17. Unit Capacity Factor (MDC net)	85.0	91.2	64.8
18. Unit Capacity Factor (DER net)	83.9	90.0	63.9
19. Unit Forced Outage Hrs.	0	22.4	1057
20. Unit Forced Outage Rate	0	1.0	4.3

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.

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 04/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

MONTH: March, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1084 MW	16.	979 MW
2.	1077 MW	17.	824 MW
3.	1075 MW	18.	859 MW
4.	773 MW	19.	867 MW
5.	919 MW	20.	870 MW
6.	1083 MW	21.	874 MW
7.	1087 MW	22.	873 MW
8.	1095 MW	23.	871 MW
9.	1102 MW	24.	867 MW
10.	1097 MW	25.	870 MW
11.	840 MW	26.	788 MW
12.	955 MW	27.	801 MW
13.	1055 MW	28.	798 MW
14.	1074 MW	29.	845 MW
15.	1107 MW	30.	841 MW
		31.	863 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.

(0625M/0062M-5)

Report Period March, 1989

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

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* BYRON *
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
5	03/04/89		24	A	5		CW		Isolated the 1C waterbox to investigate and correct a tube leak.
6	03/11/89		48	F	5				Reduced Load at the request of the Load Dispatcher.

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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 1) for the month of March 1989

1. Safety/Relief valve operations for Unit One.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT

None

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

No

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

Yes $I_{131} \approx 1.3E-3$ µci/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, submitted durin the reporting period, March 1 through March 31, 1989. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

Licensee Event Report Number	Occurrence Date	Title of Occurrence
89-02	01/31/89	Reactor Trip due to 1FW530 Failing Open
89-03	03/04/89	Control Room Ventilation Actuation and Fuel Handling Charcoal Booster Fan Automatic Start Due to Distribution System Voltage Transient when Off-site Line Tripped.

II. Monthly Report for Byron Unit 2 for the month of March 1989

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 5 (Cold Shutdown).
The unit entered Mode 2 (Startup) at 0601 on 3/4/89.
At 2021 on 3/6/89 the unit was synchronized to the grid. By 2036 on 3/12/89 the unit was at approximately 100% power. The unit operated at power levels of up to 100% for the rest of the reporting period.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 04/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

OPERATING STATUS

1. Reporting Period: March 1989. 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	2160	14137
6. Rx Critical Hours	661.7	806	11810.9
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	592.2	736.5	11437.7
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	1562613	1719024	28544441
11. Gross Elec. Energy (MWH)	523362	572068	9469985
12. Net Elec. Energy (MWH)	491559	519444	8848270
13. Reactor Service Factor	88.9	37.3	83.5
14. Reactor Availability Factor	88.9	37.3	83.5
15. Unit Service Factor	79.6	34.1	80.9
16. Unit Availability Factor	79.6	34.1	80.9
17. Unit Capacity Factor (MDC net)	59.8	21.8	56.6
18. Unit Capacity Factor (DER net)	59.0	21.5	55.9
19. Unit Forced Outage Hrs.	0	0	462.6
20. Unit Forced Outage Rate	0	0	3.2

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.

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 04/10/89
COMPILED BY: D. J. Spitzer
TELEPHONE: (815)234-5441 x2023

MONTH: March, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	-13 MW	16.	848 MW
2.	-13 MW	17.	926 MW
3.	-13 MW	18.	933 MW
4.	-13 MW	19.	902 MW
5.	-13 MW	20.	923 MW
6.	1 MW	21.	969 MW
7.	42 MW	22.	938 MW
8.	155 MW	23.	912 MW
9.	347 MW	24.	875 MW
10.	699 MW	25.	820 MW
11.	859 MW	26.	829 MW
12.	1012 MW	27.	786 MW
13.	1096 MW	28.	790 MW
14.	1086 MW	29.	885 MW
15.	931 MW	30.	957 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 the restricted power level line.) In such cases the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

(0625M/0062M-11)

Report Period March, 1989

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

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* BYRON *
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No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	01/07/89	S	151.8	C	4				Unit 2 Shutdown For Refueling

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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 & License Examination		5-Reduced Load	Licensee Event Report
			9-Other	(LER) File (NUREG-0161)

(0625M/0062M-12)

E. UNIQUE REPORTING REQUIREMENTS (UNIT 2) for the month of March 1989

1. Safety/Relief valve operations for Unit Two.

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT
03/02/89	Pressurizer PORV	2RY455	Mode 3 (Hot Standby)	Pressurizer PORV indavertently opened during troubleshooting.

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

No

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

No

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, March 1 through March 31, 1989. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

Licensee Event Report Number	Occurrence Date	Title of Occurrence
None		