



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

April 6, 1992

LTR: BYRON 92-0267
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 March 1 through
March 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
Ill. 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
A. Hsia - USNRC
F. Yost - Utility Data Institute, Inc.

100070 (3767M/VS)

9204130287 920331
PDR ADOCK 05000454
R PDR

IE24

11

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 March 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: 04/06/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

OPERATING STATUS

1. Reporting Period: March, 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	2184	57,337
6. Rx Critical Hours	744	2131.4	47,058.3
7. Rx Reserve Shutdown Hours	0	0	38
8. Hours Generator on Line	744	2123.1	46,427
9. Unit Reserve Shutdown Hours	0	0	0
*10. Gross Thermal Energy (MWH)	2,435,938	6,656,277	139,459,857
11. Gross Elec. Energy (MWH)	821,596	2,254,897	47,028,146
12. Net Elec. Energy (MWH)	788,052	2,150,363	44,369,860
13. Reactor Service Factor	100	97.59	82.07
14. Reactor Availability Factor	100	97.59	82.14
15. Unit Service Factor	100	97.21	80.97
16. Unit Availability Factor	100	97.21	80.97
17. Unit Capacity Factor (MDC net)	95.86	89.10	70.03
18. Unit Capacity Factor (DER net)	94.57	87.91	69.09
19. Unit Forced Outage Hrs.	0	60.9	1,403.4
20. Unit Forced Outage Rate	0	2.79	2.93

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.

Report Period March, 1992

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
4	03/30/92	F	12	A	5		FW	1FW009B	FW Isolation Valve 1FW009B was declared inoperable due to the failure of 'A' solenoid valve to stroke.
5	03/31/92	F	24	H	5			Steam Gen.	High sulfates in Unit 1 S/G.

* 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)

C. AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 04/06/92
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

MONTH: March, 1992

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1. _____	1095 MW	16. _____	1102 MW
2. _____	1068 MW	17. _____	1098 MW
3. _____	1112 MW	18. _____	1102 MW
4. _____	1101 MW	19. _____	1095 MW
5. _____	1064 MW	20. _____	1098 MW
6. _____	1042 MW	21. _____	1105 MW
7. _____	1100 MW	22. _____	1106 MW
8. _____	1098 MW	23. _____	1106 MW
9. _____	1067 MW	24. _____	1104 MW
10. _____	1109 MW	25. _____	1106 MW
11. _____	1112 MW	26. _____	1109 MW
12. _____	1108 MW	27. _____	1112 MW
13. _____	1107 MW	28. _____	1110 MW
14. _____	1104 MW	29. _____	1107 MW
15. _____	1106 MW	30. _____	717 MW
		31. _____	251 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.

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

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.

Yes (See Attached).

3. Indications of failed fuel.

Fuel Reliability Indicator:

Yes FRI: $9.9E-3$ $\mu\text{Ci/cc}$

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, March 1 through March 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>
NONE		

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

A. Summary of Operating Experience for Unit 2

The Unit began this reporting period in refueling outage B2R03.

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 04/06/92
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

OPERATING STATUS

1. Reporting Period: March, 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	2184	40,441
6. Rx Critical Hours	0	1395.1	34,629.2
7. Rx Reserve Shutdown Hours	0	0	0
8. Hours Generator on Line	0	1394.8	34,169.9
9. Unit Reserve Shutdown Hours	0	0	0
10. Gross Thermal Energy (MWH)	0	3,984,799	95,503,519
11. Gross Elec. Energy (MWH)	0	1,354,107	32,310,876
12. Net Elec. Energy (MWH)	-9,735	1,274,430	30,451,438
13. Reactor Service Factor	0	63.88	85.63
14. Reactor Availability Factor	0	63.88	85.63
15. Unit Service Factor	0	53.86	84.49
16. Unit Availability Factor	0	63.86	84.49
17. Unit Capacity Factor (MDC net)	0	52.81	68.14
18. Unit Capacity Factor (DER net)	0	52.10	67.23
19. Unit Forced Outage Hrs.	0	0	1155.9
20. Unit Forced Outage Rate	0	0	3.27
21. Shutdowns Scheduled Over Next 6 Months: Unit 2 third refuel outage. 2/28/92			
22. If Shutdown at End of Report Period, Estimated Date of Startup: 04/27/92			
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: 04/06/92
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

MONTH: March, 1992

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1.	_____ -13 MW _____	16.	_____ -13 MW _____
2.	_____ -13 MW _____	17.	_____ -13 MW _____
3.	_____ -13 MW _____	18.	_____ -13 MW _____
4.	_____ -13 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.	_____ -14 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 March, 1992

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

No.	Date	Type	Hours	Reason	Method	LER Number	System	Component	Cause & Corrective Action to Prevent Recurrence
1	03/01/92	S	744	C	1	-----	----	-----	Unit 2 in Refueling Outage B2R03.

* Summary *

TYPE	Reason	Method	System & Component
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
	C-Refueling	4-Continued	Data Entry Sheet
	H-Other	5-Reduced Load	Licensee Event Report
	D-Regulatory Restriction	9-Other	(LER) File (NUREG-0161)
	E-Operator Training & License Examination		

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

Yes (See Attached).

3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = Unit 2 Shutdown

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, February 1 through February 29, 1992. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10CFR 50.73.

Licensee Event Report Number

None

ATTACHMENT

April 1, 1992

SUBJECT: Change of dairy sample location in the Byron Annex of the ODCM.
Byron Annex Revision O.F, ODCM.

Milk Sample Location BY-15 (Danakas Dairy) has been replaced with location BY-30 (Roos Dairy). The Danakas Dairy (BY-15) has gone out of business and samples are no longer available. Sample collection began at BY-30 on 12/16/91. The last sample obtained at BY-15 occurred on 11/04/92. All sample frequencies required by the ODCM were met.

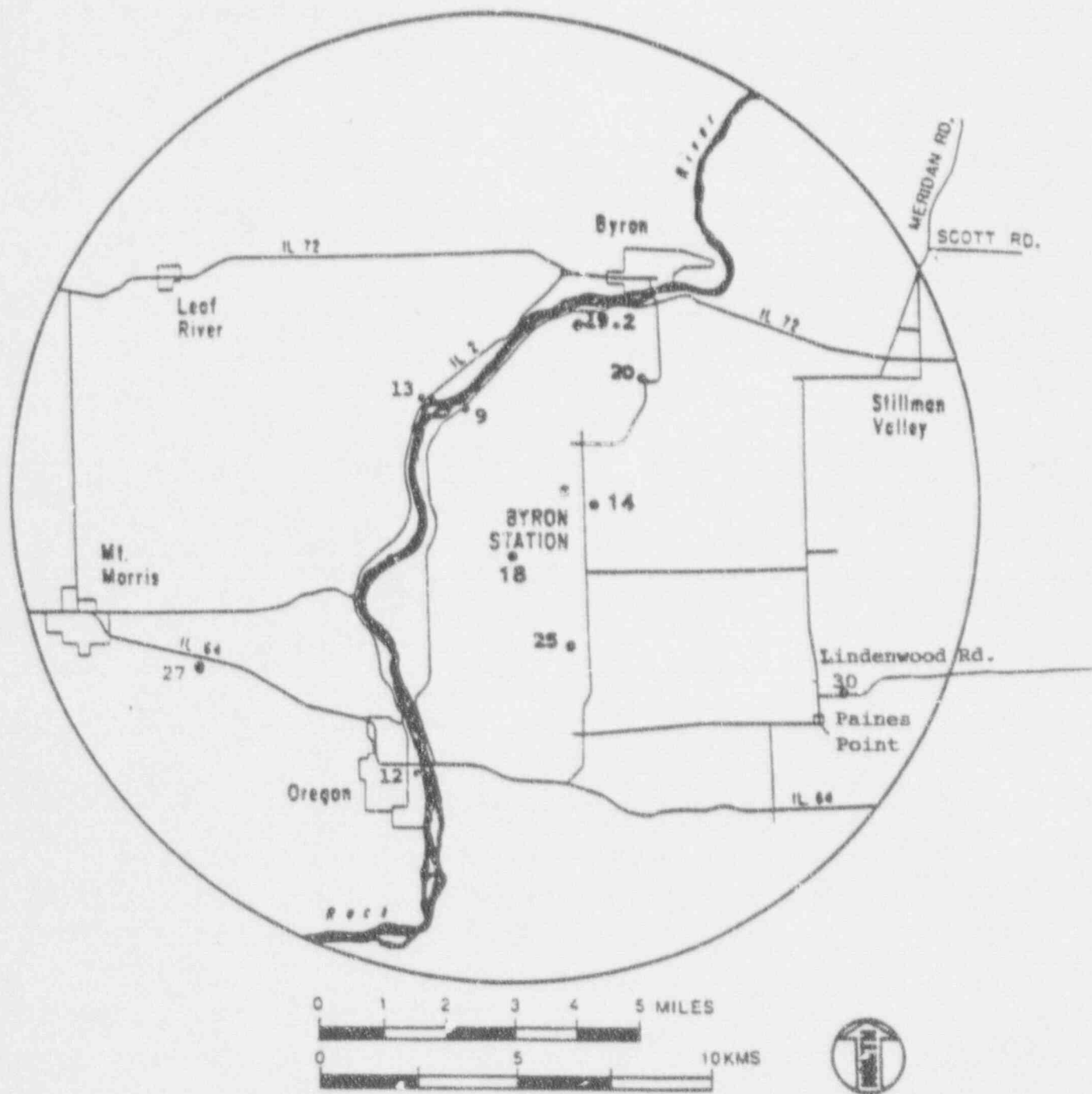
A summary of Revision O.F is attached.

BYRON ANNEX INDEX

PAGE	REVISION
CHAPTER 11	
11-i	0.F
11-ii	0.A
11-iii	0.A
11-iv	0.A
11-1	0
11-2	0
11-3	0
11-4	0
11-5	0
11-6	0.D
11-7	0.F
11-8	0.D
11-9	0
11-10	0.A
11-11	0.A
11-12	0.A
11-13	0
11-14	0.A
11-15	0.A
11-16	0
11-17	0
11-18	0
11-19	0.F

TABLE 11-1 (Cont'd)

<u>Exposure Pathway and/or Sample</u>	<u>Sampling or Monitoring Locations</u>	<u>Sampling or Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
3. <u>Waterborne</u> (Cont'd)			
b. <u>Ground/Well Water Offsite</u>	<u>Indicators</u> BY-14, CECO Offsite Well 0.3 mi ESE (0.5 km F) BY-18, McCoy Farmstead 1.0 mi SW (1.6 km L)	Quarterly	Gamma Isotopic ^C and Tritium analysis on quarterly.
c. <u>Shoreline Sediments</u>	BY-12, Oregon Pool of Rock River, Downstream of Discharge, 4.5 mi SW (7.2 km L) BY-13, Rock River, Upstream of Intake, 2.6 mi WSW (4.2 km P) BY-29, Byron Upstream of Intake, 3.5 mi NNE (5.6 km B)	Semiannually	Gamma isotopic ^C analysis semiannually.
4. <u>Ingestion</u>			
a. <u>Milk</u>	<u>Indicators</u> BY-30, Don Roos Dairy, 5.13 mi SE (8.2 km G) BY-20, K. Reeverts Dairy Farm, 2.1 mi NE (3.4 km C) BY-27, Kenneth Druien Dairy Farm, 5.8 mi SW (9.3 km M)	Semimonthly: May to October Monthly: November to April	Gamma isotopic ^C and I-131 analysis on each sample.



OFFSITE DOSE CALCULATION MANUAL
BYRON STATION

FIGURE 11-4

INGESTION AND WATERBORNE EXPOSURE
PATHWAY SAMPLE LOCATIONS