



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

November 8, 1991

LTR: BYRON 91-0901
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 October 1
through October 31, 1991.

Sincerely,

E. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/DE/b1 (3712M/VS)

cc: A.B. Davis, NRC, Region III
NRC Resident Inspector Byron
Ill. Dept. of Nuclear Safety
M. J. Wallace/K. L. Graesser
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.

9111210315 911031
PDR ADDCK 05000454
R PDR

IE24
1/1

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

Y. Monthly Report for Byron UNIT 1 for the month of October 1991

A. Summary of Operating Experience for Unit 1

The unit is in Mode 4 of refueling outage.

B. OPERATING DATA REPORT

DOCKET NO.: 050-154
UNIT: Byron One
DATE: 11/08/91
COMPILED BY: D. Ehle
TELEPHONE: (615)234-5441
x2263

OPERATING STATUS

1. Reporting Period: October, 1991. Gross Hours: 745
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. | 745 | 7,296 | 53,689 |
| 6. Rx Critical Hours | 0 | 5,952.9 | 43,637.1 |
| 7. Rx Reserve Shutdown Hours | 0 | 0 | 38 |
| 8. Hours Generator on Line | 0 | 5,951.1 | 43,106.7 |
| 9. Unit Reserve Shutdown Hours | 0 | 0 | 0 |
| *10. Gross Thermal Energy (MWH) | 0 | 16,514,034 | 129,386,638 |
| 11. Gross Elec. Energy (MWH) | 0 | 5,549,491 | 43,630,571 |
| 12. Net Elec. Energy (MWH) | -10,835 | 5,224,337 | 41,141,602 |
| 13. Reactor Service Factor | 0 | 81.59 | 81.28 |
| 14. Reactor Availability Factor | 0 | 81.59 | 81.35 |
| 15. Unit Service Factor | 0 | 81.57 | 80.29 |
| 16. Unit Availability Factor | 0 | 81.57 | 80.29 |
| 17. Unit Capacity Factor (MDC net) | -1.32 | 64.86 | 69.35 |
| 18. Unit Capacity Factor (DER net) | -1.30 | 63.99 | 68.42 |
| 19. Unit Forced Outage Hrs. | 0 | 0 | 1,266.4 |
| 20. Unit Forced Outage Rate | 0 | 0 | 2.85 |

21. Shutdowns Scheduled Over Next 6 Months: Unit 1 fourth refuel outage.
22. If Shutdown at End of Report Period, Estimated Date of Startup: 11/07/91
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: 11/08/91
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

MONTH: October, 1991

| DAY | | AVERAGE DAILY POWER LEVEL (MWe-Net) | |
|-----|-------|--|-------|
| 1. | _____ | -12 MW | _____ |
| 2. | _____ | -12 MW | _____ |
| 3. | _____ | -12 MW | _____ |
| 4. | _____ | -12 MW | _____ |
| 5. | _____ | -12 MW | _____ |
| 6. | _____ | -12 MW | _____ |
| 7. | _____ | -12 MW | _____ |
| 8. | _____ | -12 MW | _____ |
| 9. | _____ | -12 MW | _____ |
| 10. | _____ | -13 MW | _____ |
| 11. | _____ | -12 MW | _____ |
| 12. | _____ | -13 MW | _____ |
| 13. | _____ | -13 MW | _____ |
| 14. | _____ | -13 MW | _____ |
| 15. | _____ | -13 MW | _____ |
| 16. | _____ | -12 MW | _____ |
| 17. | _____ | -12 MW | _____ |
| 18. | _____ | -13 MW | _____ |
| 19. | _____ | -12 MW | _____ |
| 20. | _____ | -12 MW | _____ |
| 21. | _____ | -12 MW | _____ |
| 22. | _____ | -12 MW | _____ |
| 23. | _____ | -13 MW | _____ |
| 24. | _____ | -13 MW | _____ |
| 25. | _____ | -13 MW | _____ |
| 26. | _____ | -13 MW | _____ |
| 27. | _____ | -17 MW | _____ |
| 28. | _____ | -21 MW | _____ |
| 29. | _____ | -22 MW | _____ |
| 30. | _____ | -27 MW | _____ |
| 31. | _____ | -30 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 October, 1991

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|-----------|---|
| 3 | 10/01/91 | S | 745 | C | 1 | | | | Unit 1 refueling Outage B1R04. |

* 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 |
| | 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 1) for the month of October 1991

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.

None.

3. Indications of failed fuel.

No Fuel Reliability Indicator:

Unit shut down on 9/06/91.

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, October 1 through October 31, 1991. 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 October 1991

A. Summary of Operating Experience for Unit 2

The unit began this reporting period in Mode 1 (Power Operation). Packing leak on valve exceeded Tech Spec limit. Shut down unit October 27, 1991. Unit is in Mode 4.

B. OPERATING DATA REPORT

DOCFET NO.: 050-455
UNIT: Byron Two
DATE: 11/08/91
COMPILED BY: D. Ehle
TELEPHONE: (815)234-5441
x2263

OPERATING STATUS

1. Reporting Period: October, 1991. Gross Hours: 745
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. | 745 | 7,296 | 36,793 |
| 6. Rx Critical Hours | 634.6 | 7185.6 | 31,917.7 |
| 7. Rx Reserve Shutdown Hours | 0 | 0 | 0 |
| 8. Hours Generator on Line | 633.9 | 7,184.9 | 31,469.5 |
| 9. Unit Reserve Shutdown Hours | 0 | 0 | 0 |
| 10. Gross Thermal Energy (MWH) | 2,078,036 | 22,951,754 | 87,263,146 |
| 11. Gross Elec. Energy (MWH) | 703,031 | 7,775,635 | 29,513,730 |
| 12. Net Elec. Energy (MWH) | 676,231 | 7,403,320 | 27,807,649 |
| 13. Reactor Service Factor | 85.18 | 98.49 | 86.75 |
| 14. Reactor Availability Factor | 85.18 | 98.49 | 86.75 |
| 15. Unit Service Factor | 85.09 | 98.48 | 85.53 |
| 16. Unit Availability Factor | 85.09 | 98.48 | 85.53 |
| 17. Unit Capacity Factor (MDC net) | 82.14 | 91.83 | 68.40 |
| 18. Unit Capacity Factor (DER net) | 81.04 | 90.60 | 67.48 |
| 19. Unit Forced Outage Hrs. | 111.1 | 111.1 | 997.5 |
| 20. Unit Forced Outage Rate | 14.9 | 1.5 | 3.07 |
| 21. Shutdowns Scheduled Over Next 6 Months: Unit 2 third refuel outage. | | | |
| 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: 11/08/91
 COMPILED BY: D. Ehle
 TELEPHONE: (815)234-5441
 x2263

MONTH: October, 1991

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

| | | | |
|-----|---------|-----|---------|
| 1. | 1105 MW | 16. | 1074 MW |
| 2. | 1112 MW | 17. | 1070 MW |
| 3. | 1108 MW | 18. | 1068 MW |
| 4. | 1105 MW | 19. | 1072 MW |
| 5. | 1050 MW | 20. | 1075 MW |
| 6. | 1083 MW | 21. | 1098 MW |
| 7. | 1086 MW | 22. | 1082 MW |
| 8. | 1071 MW | 23. | 1065 MW |
| 9. | 1060 MW | 24. | 1067 MW |
| 10. | 1074 MW | 25. | 1044 MW |
| 11. | 1083 MW | 26. | 1072 MW |
| 12. | 1071 MW | 27. | 198 MW |
| 13. | 1071 MW | 28. | -20 MW |
| 14. | 1101 MW | 29. | -21 MW |
| 15. | 1089 MW | 30. | -26 MW |
| | | 31. | -29 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 October, 1991

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component | Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|--------|--------|--------|------------|--------|-----------|--|
| 4 | 10/27/91 | F | 111:01 | A | 1 | | RC | 2RC002GC | Packing leak on valve 2RC002GC exceeded Tech Spec. |

* 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 October 1991

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.

None.

3. Indications of failed fuel.

Yes Fuel Reliability Indicator: FRI = $6.9E-4$ $\mu\text{Ci/cc}$

F. LICENSEE EVENT REPORTS (UNIT 2)

The following is a tabular summary of all Licensee Event Reports for Byron Nuclear Power Station, Unit Two, submitted during the reporting period, October 1 through October 31, 1991. 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 | | |