



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

September 8, 1994

LTR: BYRON 94-0360
FILE: 2.7.200

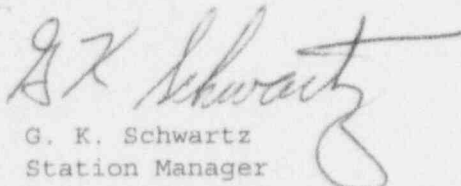
Director, Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the Monthly Performance Report
covering Byron Nuclear Power Station for the period August 1
through August 31, 1994.

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
G.F. Dick, Jr. - USNRC
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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 1994

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 B1R06 Coastdown.

B. OPERATING DATA REPORT

DOCKET NO.: 050-454
UNIT: Byron One
DATE: 09/08/94
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: August, 1994. Gross Hours: 744
2. Currently Authorized Power Level: 341¹ (MWt)
Design Electrical Rating: 1175 (MWe-net)
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 | 78,528 |
| 6. Rx Critical Hours | 744 | 5,831 | 66,641.5 |
| 7. Rx Reserve Shutdown Hours | 0 | 0 | 38 |
| 8. Hours Generator on Line | 744 | 5,831 | 65,963.1 |
| 9. Unit Reserve Shutdown Hours | 0 | 0 | 0 |
| *10. Gross Thermal Energy (MWH) | 1,431,846 | 17,981,963 | 201,043,062 |
| 11. Gross Elec. Energy (MWH) | 481,165 | 6,161,973 | 67,980,518 |
| 12. Net Elec. Energy (MWH) | 447,835 | 5,874,214 | 64,437,549 |
| 13. Reactor Service Factor | 100 | 100 | 84.86 |
| 14. Reactor Availability Factor | 100 | 100 | 84.91 |
| 15. Unit Service Factor | 100 | 100 | 84.00 |
| 16. Unit Availability Factor | 100 | 100 | 84.00 |
| 17. Unit Capacity Factor (MDC net) | 54.47 | 91.17 | 74.26 |
| 18. Unit Capacity Factor (DER net) | 53.74 | 89.95 | 73.26 |
| 19. Unit Forced Outage Hrs. | 0 | 0 | 1,498.2 |
| 20. Unit Forced Outage Rate | 0 | 0 | 2.22 |
| 21. Shutdowns Scheduled Over Next 6 Months: 1 (B1R06) | | | |
| 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: 09/08/94
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

MONTH: August, 1994

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

| | |
|----------------|-----------------|
| 1. 724 MW | 16. 606 MW |
| 2. 725 MW | 17. 597 MW |
| 3. 711 MW | 18. 588 MW |
| 4. 701 MW | 19. 572 MW |
| 5. 707 MW | 20. 578 MW |
| 6. 697 MW | 21. 571 MW |
| 7. 685 MW | 22. 561 MW |
| 8. 659 MW | 23. 549 MW |
| 9. 664 MW | 24. 520 MW |
| 10. 660 MW | 25. 490 MW |
| 11. 645 MW | 26. 494 MW |
| 12. 635 MW | 27. 490 MW |
| 13. 623 MW | 28. 497 MW |
| 14. 627 MW | 29. 490 MW |
| 15. 612 MW | 30. 488 MW |
| | 31. 480 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, 1994

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 1)

* BYRON

| No. | Date | Type | Hours | Reason | Method | LER Number | System | Component Cause & Corrective Action to Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|--------|---|
| 4 | 08/01/94 | S | 744 | H | 9 | | | Unit One Continued It's Coastdown to B1R06 Thru the Month of August |

* Summary *

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

E. UNIQUE REPORTING REQUIREMENTS (UNIT 1) for the month of August, 1994

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

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3. Indications of failed fuel.

No. Fuel Reliability Indicator: FRI = $4.2 \text{ E-5 } \mu\text{Ci/CC}$

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, 1994 through August 31, 1994. 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> |
|-------------------------------------|----------------------------|--|
| 454: 94-007 | 07/25/94 | 1B WR Hot Leg RTD Indication spiked low. |
| 454: 94-008 | 08/03/94 | 1/2 CS007A & B Valves Not Stroke Time Tested. |

II. Monthly Report for Byron UNIT 2 for the month of August 1994

A. Summary of Operating Experience for Unit 2

The Unit began this reporting period in Mode 1 (Power Operations).

B. OPERATING DATA REPORT

DOCKET NO.: 050-455
UNIT: Byron Two
DATE: 09/08/94
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

OPERATING STATUS

1. Reporting Period: August, 1994. 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 | 61,632 |
| 6. Rx Critical Hours | 744 | 5,831 | 53,636.9 |
| 7. Rx Reserve Shutdown Hours | 0 | 0 | 0 |
| 8. Hours Generator on Line | 744 | 5,831 | 53,036.6 |
| 9. Unit Reserve Shutdown Hours | 0 | 0 | 0 |
| 10. Gross Thermal Energy (MWH) | 2,440,724 | 19,428,866 | 155,500,793 |
| 11. Gross Elec. Energy (MWH) | 837,239 | 6,681,856 | 52,865,130 |
| 12. Net Elec. Energy (MWH) | 795,396 | 6,383,507 | 50,166,734 |
| 13. Reactor Service Factor | 100 | 100 | 87.03 |
| 14. Reactor Availability Factor | 100 | 100 | 87.03 |
| 15. Unit Service Factor | 100 | 100 | 86.05 |
| 16. Unit Availability Factor | 100 | 100 | 86.05 |
| 17. Unit Capacity Factor (MDC net) | 96.75 | 99.07 | 73.66 |
| 18. Unit Capacity Factor (DER net) | 95.45 | 97.75 | 72.68 |
| 19. Unit Forced Outage Hrs. | 0 | 0 | 1,343.4 |
| 20. Unit Forced Outage Rate | 0 | 0 | 2.47 |
| 21. Shutdowns Scheduled Over Next 6 Months: 1 (B2R05) | | | |
| 22. If Shutdown at End of Report Period, 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: 09/08/94
COMPILED BY: R. Colglazier
TELEPHONE: (815)234-5441
x2282

MONTH: August, 1994

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|-------------|-------------|
| 1. 1095 MW | 16. 1096 MW |
| 2. 1099 MW | 17. 1098 MW |
| 3. 1093 MW | 18. 1094 MW |
| 4. 1098 MW | 19. 1094 MW |
| 5. 1102 MW | 20. 1102 MW |
| 6. 1054 MW | 21. 818 MW |
| 7. 1002 MW | 22. 1054 MW |
| 8. 1067 MW | 23. 1100 MW |
| 9. 1109 MW | 24. 1091 MW |
| 10. 1110 MW | 25. 1087 MW |
| 11. 1109 MW | 26. 1093 MW |
| 12. 1106 MW | 27. 1088 MW |
| 13. 1099 MW | 28. 1098 MW |
| 14. 1036 MW | 29. 916 MW |
| 15. 1102 MW | 30. 921 MW |
| | 31. 1104 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, 1994

UNIT SHUTDOWNS/REDUCTIONS
(UNIT 2)

* BYRON *

| No. | Date | Type | Hours | Reason | Method | LER Number | System Component | Cause & Corrective Action To Prevent Recurrence |
|-----|----------|------|-------|--------|--------|------------|------------------|---|
| 4 | 08/21/94 | | | H | 5 | | | Reduced Load Per Bulk Power Operations |

* 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 2) for the month of August 1994

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.

No. Fuel Reliability Indicator: FRI = $3.4 \text{ E-5 } \mu\text{Ci/CC}$

F. LICENSEE EVENT REPORTS (UNIT 2)

The following is a tabular summary of all Licensee Event Reports for Byron Nuclear Power Station, Unit Two, occurring during the reporting period, August 1, 1994 through August 31, 1994. This information is provided pursuant to the reportable occurrence reporting requirements set forth in 10CFR 50.73.

| <u>Licensee Event Report Number</u> | <u>Occurrence Date</u> | <u>Title of Occurrence</u> |
|-------------------------------------|----------------------------|----------------------------|
| None | | |