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Byron Generating Station
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United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

Byron Station, Units 1 and 2
Facility Operating License Nos. NPF-37 and NPF-66
NRC Docket Nos. STN 50-454 and STN 50-455

Subject: Monthly Operating Report

In accordance with Technical Specification 5.6.4, "Monthly Operating Reports," we are submitting the Monthly Operating Report for Byron Station, Units 1 and 2. This report covers the period July 1, 2001, through July 31, 2001.

The June 2001 Monthly Net Electrical Energy (MWH) for Unit 1 and Unit 2 changed due to a reallocation of unit auxiliary power. This change was caused by a back-fit of unit de-ratings following the power uprate rating change that occurred in July 2001. Revised data is included for the Unit 1 and Unit 2 "Month", "Year to Date" and "Cumulative" Net Electrical Energy (MWH) for June 2001.

If you have any questions regarding this report, please contact P. Reister, Regulatory Assurance Manager, at (815) 234-5441, extension 2800.

Respectfully,

for 

Stephen E. Kuczynski
Plant Manager
Byron Nuclear Generating Station

SEK/DD/dpk

Attachment

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – Byron Station
NRC Project Manager – NRR – Byron Station
Office of Nuclear Facility Safety – Illinois Department of Nuclear Safety

IED4

ATTACHMENT

BYRON STATION, UNIT 1 AND UNIT 2
MONTHLY OPERATING REPORT

EXELON GENERATION COMPANY, LLC

FACILITY OPERATING LICENSE NOS. NPF-37 AND NPF-66
NRC DOCKET NOS. STN 50-454 AND STN 50-455

OPERATING DATA REPORT
UNIT ONE

DOCKET NO.	50-454
UNIT NAME	Byron One
DATE	08/15/01
COMPLETED BY	D. Drawbaugh
TELEPHONE	(815) 234-5441, X2402

REPORTING PERIOD: June, 2001
(Month/Year)

	<u>MONTH</u>	<u>YEAR TO DATE</u>	<u>CUMULATIVE</u>
1. Design Electrical Rating (MWe-Net). The nominal net electrical output of the unit specified by the utility and used for the purpose of plant design.	1,187	N/A	N/A
2. Maximum Dependable Capacity (MWe-Net). The gross electrical output as measured at the output terminals of the turbine-generator during the most restrictive seasonal conditions minus the normal station service loads.	1,163	N/A	N/A
3. Number of Hours the Reactor was Critical. The total number of hours during the gross hours of the reporting period that the reactor was critical.	720	4,343	116,538.57
4. Number of Hours the Generator was On Line (also called Service Hours). The total number of hours during the gross hours of the reporting period that the unit operated with breakers closed to the station bus. The sum of the hours the generator was on line plus the total outage hours should equal the gross hours in the reporting period	720	4,343	115,547.54
5. Unit Reserve Shutdown Hours. The total number of hours during the gross hours of the reporting period that the unit was removed from service for economic or similar reasons but was available for operation.	0	0	0
6. Net Electrical Energy (MWH). The gross electrical output of the unit measured at the output terminals of the turbine-generator minus the normal station service loads during the gross hours of the reporting period, expressed in megawatt hours. Negative quantities should not be used.	871,353	5,091,246	118,139,927

OPERATING DATA REPORT
UNIT ONE

DOCKET NO.	<u>50-454</u>
UNIT NAME	<u>Byron One</u>
DATE	<u>08/15/01</u>
COMPLETED BY	<u>D. Drawbaugh</u>
TELEPHONE	<u>(815) 234-5441, X2402</u>

REPORTING PERIOD: July, 2001
(Month/Year)

	<u>MONTH</u>	<u>YEAR TO DATE</u>	<u>CUMULATIVE</u>
1. Design Electrical Rating (MWe-Net). The nominal net electrical output of the unit specified by the utility and used for the purpose of plant design.	1,187	N/A	N/A
2. Maximum Dependable Capacity (MWe-Net). The gross electrical output as measured at the output terminals of the turbine-generator during the most restrictive seasonal conditions minus the normal station service loads.	1,163	N/A	N/A
3. Number of Hours the Reactor was Critical. The total number of hours during the gross hours of the reporting period that the reactor was critical.	744	5,087	117,282.57
4. Number of Hours the Generator was On Line (also called Service Hours). The total number of hours during the gross hours of the reporting period that the unit operated with breakers closed to the station bus. The sum of the hours the generator was on line plus the total outage hours should equal the gross hours in the reporting period	744	5,087	116,291.54
5. Unit Reserve Shutdown Hours. The total number of hours during the gross hours of the reporting period that the unit was removed from service for economic or similar reasons but was available for operation.	0	0	0
6. Net Electrical Energy (MWH). The gross electrical output of the unit measured at the output terminals of the turbine-generator minus the normal station service loads during the gross hours of the reporting period, expressed in megawatt hours. Negative quantities should not be used.	896,686	5,987,932	119,036,613

UNIT SHUTDOWNS

DOCKET NO. 50-454
 UNIT NAME Byron One
 DATE 08/15/01
 COMPLETED BY D. Drawbaugh
 TELEPHONE (815) 234-5441, X2402

REPORTING PERIOD: July, 2001

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS COMMENTS

SUMMARY: Unit One On-Line During the Month of July.

- (1) Reason
- A – Equipment Failure (Explain)
 - B – Maintenance Test
 - C – Refueling
 - D – Regulatory Restriction
 - E – Operator Training/License Examination
 - F – Administrative
 - G – Operational Error (Explain)
 - H – Other (Explain)

- (2) Method
- 1 – Manual
 - 2 – Manual Trip/Scram
 - 3 – Automatic Trip/Scram
 - 4 – Continuation
 - 5 – Other (Explain)

UNIQUE REPORTING REQUIREMENTS (UNIT ONE)
for the month of July, 2001

1. Safety/Relief valve operations for Unit One. This information is provided pursuant to the reporting requirements contained in Technical Specification 5.6.4, "Monthly Operating Report."

<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 Offsite Dose Calculation Manual.

Revisions were made to Chapter 12, Radioactive Effluent Technical Standards, Section 12.1, Definitions. The definitions for "Dose Equivalent I-131" and "Rated Thermal Power(RTP)" were changed to align with the latest revision of Technical Specifications. The definition for Dose Equivalent I-131 (DEI) was expanded to allow more current regulatory guidance references to be used to calculate DEI, in addition to the original methodology. The value for rated thermal power was increased to 3586.6 MWt, to align with the power uprate allowed increase in reactor power. Neither of these changes effect the Radioactive Effluent Technical Standards, the Radiological Environmental Monitoring Program, or how dose calculations are performed.

3. Indications of failed fuel.

None. Fuel Reliability Indicator: (FRI) = 1.00 E-06 μ Ci/cc.

4. Licensee Events Reports

The following is a tabular summary of all Licensee Event Reports for Byron Station, Unit One, occurring during the reporting period, July 1, 2001, through July 31, 2001. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFR 50.73, "Licensee Event Report System."

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

OPERATING DATA REPORT
UNIT TWO

DOCKET NO.	<u>50-455</u>
UNIT NAME	<u>Byron Two</u>
DATE	<u>08/15/01</u>
COMPLETED BY	<u>D. Drawbaugh</u>
TELEPHONE	<u>(815) 234-5441, X2402</u>

REPORTING PERIOD: June, 2001
(Month/Year)

	<u>MONTH</u>	<u>YEAR TO DATE</u>	<u>CUMULATIVE</u>
1. Design Electrical Rating (MWe-Net). The nominal net electrical output of the unit specified by the utility and used for the purpose of plant design.	1155	N/A	N/A
2. Maximum Dependable Capacity (MWe-Net). The gross electrical output as measured at the output terminals of the turbine-generator during the most restrictive seasonal conditions minus the normal station service loads.	1131	N/A	N/A
3. Number of Hours the Reactor was Critical. The total number of hours during the gross hours of the reporting period that the reactor was critical.	702.87	3,955.32	108,666.38
4. Number of Hours the Generator was On Line (also called Service Hours). The total number of hours during the gross hours of the reporting period that the unit operated with breakers closed to the station bus. The sum of the hours the generator was on line plus the total outage hours should equal the gross hours in the reporting period	692.83	3,937.23	107,892.28
5. Unit Reserve Shutdown Hours. The total number of hours during the gross hours of the reporting period that the unit was removed from service for economic or similar reasons but was available for operation.	0	0	0
6. Net Electrical Energy (MWH). The gross electrical output of the unit measured at the output terminals of the turbine-generator minus the normal station service loads during the gross hours of the reporting period, expressed in megawatt hours. Negative quantities should not be used.	821,089	4,520,837	110,688,101

OPERATING DATA REPORT
UNIT TWO

DOCKET NO. 50-454
UNIT NAME Byron Two
DATE 08/15/01
COMPLETED BY D. Drawbaugh
TELEPHONE (815) 234-5441, X2402

REPORTING PERIOD: July, 2001
(Month/Year)

	<u>MONTH</u>	<u>YEAR TO DATE</u>	<u>CUMULATIVE</u>
1. Design Electrical Rating (MWe-Net). The nominal net electrical output of the unit specified by the utility and used for the purpose of plant design.	1,155	N/A	N/A
2. Maximum Dependable Capacity (MWe-Net). The gross electrical output as measured at the output terminals of the turbine-generator during the most restrictive seasonal conditions minus the normal station service loads.	1,131	N/A	N/A
3. Number of Hours the Reactor was Critical. The total number of hours during the gross hours of the reporting period that the reactor was critical.	744	4,699.32	109,410.38
4. Number of Hours the Generator was On Line (also called Service Hours). The total number of hours during the gross hours of the reporting period that the unit operated with breakers closed to the station bus. The sum of the hours the generator was on line plus the total outage hours should equal the gross hours in the reporting period	744	4,681.23	108,636.28
5. Unit Reserve Shutdown Hours. The total number of hours during the gross hours of the reporting period that the unit was removed from service for economic or similar reasons but was available for operation.	0	0	0
6. Net Electrical Energy (MWH). The gross electrical output of the unit measured at the output terminals of the turbine-generator minus the normal station service loads during the gross hours of the reporting period, expressed in megawatt hours. Negative quantities should not be used.	887,149	5,407,986	111,575,250

UNIT SHUTDOWNS

DOCKET NO. 50-455
 UNIT NAME Byron Two
 DATE 08/15/01
 COMPLETED BY D. Drawbaugh
 TELEPHONE (815) 234-5441, X2402

REPORTING PERIOD: July, 2001

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS COMMENTS

SUMMARY: Unit Two On-Line During the Month of July.

- (1) Reason
- A – Equipment Failure (Explain)
 - B – Maintenance Test
 - C – Refueling
 - D – Regulatory Restriction
 - E – Operator Training/License Examination
 - F – Administrative
 - G – Operational Error (Explain)
 - H – Other (Explain)

- (2) Method
- 1 – Manual
 - 2 – Manual Trip/Scram
 - 3 – Automatic Trip/Scram
 - 4 – Continuation
 - 5 – Other (Explain)

UNIQUE REPORTING REQUIREMENTS (UNIT TWO)
for the month of July, 2001

1. Safety/Relief valve operations for Unit Two. This information is provided pursuant to the reporting requirements contained in Technical Specification 5.6.4, "Monthly Operating Report."

<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 Offsite Dose Calculation Manual.

Revisions were made to Chapter 12, Radioactive Effluent Technical Standards, Section 12.1, Definitions. The definitions for "Dose Equivalent I-131" and "Rated Thermal Power (TRP)" were changed to align with the latest revision of Technical Specifications. The definition for Dose Equivalent I-131 (DEI) was expanded to allow more current regulatory guidance references to be used to calculate DEI, in addition to the original methodology. The value for rated thermal power was increased to 3586.6 MWt, to align with the power uprate allowed increase in reactor power. Neither of these changes effect the Radioactive Effluent Technical Standards, the Radiological Environmental Monitoring Program, or how dose calculations are performed.

3. Indications of failed fuel.

None. Fuel Reliability Indicator: (FRI) = 1.00 E-06 μ Ci/cc.

4. Licensee Events Reports

The following is a tabular summary of all Licensee Event Reports for Byron Station, Unit Two, occurring during the reporting period, July 1, 2001, through July 31, 2001. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFR 50.73, "Licensee Event Report System."

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