

February 15, 2005

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United States Nuclear Regulatory Commission  
ATTN: 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 January 1, 2005, through January 31, 2005.

If you have any questions regarding this report, please contact Mr. William Grundmann, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,

*(signed by)*  
David M. Hoots  
Plant Manager  
Byron Nuclear Generating Station

DMH/tlf/rah

Attachment

cc: Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – Byron Station

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

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DOCKET NO. 50-454  
UNIT NAME Byron One  
DATE 2/15/05  
COMPLETED BY T. Fluck  
TELEPHONE (815) 406-2820

REPORTING PERIOD: January, 2005  
(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.	1,152	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.	744.00	744.00	147,043.94
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.	744.00	744.00	145,997.70
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.	888,862	888,862	154,395,453

# UNIT SHUTDOWNS

DOCKET NO. 50-454  
 UNIT NAME Byron One  
 DATE 2/15/05  
 COMPLETED BY T. Fluck  
 TELEPHONE (815) 406-2820

REPORTING PERIOD: January, 2005

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

SUMMARY: Unit One was online during the month of January.

- (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 January, 2005

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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. &amp; 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.

None

3. Indications of failed fuel.

Unit One isotopic analyses indicate three potential failures. Fuel Reliability Indicator =  $3.06\text{E-}03 \mu\text{Ci/cc}$ .

4. Licensee Events Reports

The following is a tabular summary of all Licensee Event Reports for Byron Station, Unit One, issued during the reporting period, January 1, 2005, through January 31, 2005. 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>Report Date</u>	<u>Title of Occurrence</u>
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None

OPERATING DATA REPORT  
UNIT TWO

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DOCKET NO. 50-455  
UNIT NAME Byron Two  
DATE 2/15/05  
COMPLETED BY T. Fluck  
TELEPHONE (815) 406-2820

REPORTING PERIOD: January, 2005  
(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.	1,125	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.	744.00	744.00	139,109.13
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.	744.00	744.00	138,294.08
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.	864,008	864,008	146,317,547

# UNIT SHUTDOWNS

DOCKET NO. 50-455  
 UNIT NAME Byron Two  
 DATE 2/15/05  
 COMPLETED BY T. Fluck  
 TELEPHONE (815) 406-2820

REPORTING PERIOD January, 2005

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

SUMMARY: Unit Two was online during the month of January.

- (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 January, 2005

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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. &amp; 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.

None

3. Indications of failed fuel.

None. Fuel Reliability Indicator =  $1.00\text{E-}06$   $\mu\text{Ci/cc}$ .

4. Licensee Events Reports

The following is a tabular summary of all Licensee Event Reports for Byron Station, Unit Two, issued during the reporting period, January 1, 2005, through January 31, 2005. 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>Report Date</u>	<u>Title of Occurrence</u>
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None