May 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 April 1, 2005, through April 30, 2005.

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

Respectfully,

(signed by Marsyne Snow for David M. Hoots)
David M. Hoots
Plant Manager
Byron Nuclear Generating Station

DMH/tlf/rh

Attachment

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 5/15/05
COMPLETED BY T. Fluck
TELEPHONE (815) 406-2820

REPORTING PERIOD: April, 2005
(Month/Year)

		MONTH	YEAR TO DATE	CUMULATIVE
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.	719.00	2,278.67	148,578.61
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.	719.00	2,254.37	147,508.07
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.	855,630	2,644,608	156,151,199

UNIT SHUTDOWNS

DOCKET NO. 50-454
UNIT NAME Byron One
DATE 5/15/05
COMPLETED BY T. Fluck
TELEPHONE (815) 406-2820

REPORTING PERIOD: April, 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 for the month of April

(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 April, 2005

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."

DATE	VALVES ACTUATED	NO. & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT
None				

2. Licensee generated changes to Offsite Dose Calculation Manual.

Revision 4 of the Offsite Dose Calculation Manual was implemented April 7, 2005.

3. Indications of failed fuel.

None. Fuel Reliability Indicator = 1.00E-06 μCi/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, April 1, 2005, through April 30, 2005. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFR 50.73, “Licensee event report system.”

Licensee Event Report Number	Report Date	Title of Occurrence
454-2005-002-00	4/15/05	One of two trains of hydrogen recombiner inoperable longer than allowed by Technical Specifications due to inadequate procedure.

OPERATING DATA REPORT
UNIT TWO

DOCKET NO. 50-455
UNIT NAME Byron Two
DATE 5/15/05
COMPLETED BY T. Fluck
TELEPHONE (815) 406-2820

REPORTING PERIOD: April, 2005
(Month/Year)

		MONTH	YEAR TO DATE	CUMULATIVE
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.	719.00	2,879.00	141,244.13
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.	719.00	2,879.00	140,429.08
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.	827,085	3,336,589	148,790,128

UNIT SHUTDOWNS

DOCKET NO. 50-455
UNIT NAME Byron Two
DATE 5/15/05
COMPLETED BY T. Fluck
TELEPHONE (815) 406-2820

REPORTING PERIOD April, 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 April.

(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 April, 2005

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."

DATE	VALVES ACTUATED	NO. & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT

None

2. Licensee generated changes to Offsite Dose Calculation Manual.

Revision 4 of the Offsite Dose Calculation Manual was implemented April 7, 2005.

3. Indications of failed fuel.

None. Fuel Reliability Indicator = 1.00E-06 μCi/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, April 1, 2005, through April 30, 2005. This information is provided pursuant to the reportable occurrence reporting requirements as set forth in 10 CFR 50.73, "Licensee event report system."

Licensee Event Report Number	Report Date	Title of Occurrence

None