



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

September 27, 2012

Mr. Michael J. Pacilio
Senior Vice President
Exelon Generation Company, LLC
President and Chief Nuclear Officer (CNO)
Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BYRON STATION, UNIT NOS. 1 AND 2, AND BRAIDWOOD STATION,
UNITS 1 AND 2 - REQUEST FOR ADDITIONAL INFORMATION
RELATED TO MEASUREMENT UNCERTAINTY UPRATE
(TAC NOS. ME658, ME6588, ME6589, and ME6590)

Dear Mr. Pacilio:

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated June 23, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML111790026), Exelon Generation Company, LLC submitted a request for a license amendment for the Braidwood Station, Units 1 and 2, and Byron Station, Unit Nos. 1 and 2. The proposed amendment would revise the maximum power level specified in each unit's operating license and the technical specifications definition of rated thermal power.

The NRC staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on September 20, 2012, it was agreed that you would provide a response within 30 days from the date of this letter.

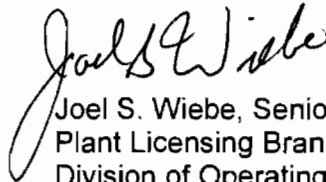
The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources

M. Pacilio

- 2 -

If circumstances result in the need to revise the requested response date, please contact me at (301) 415-6606.

Sincerely,

A handwritten signature in black ink that reads "Joel S. Wiebe". The signature is written in a cursive style with a large, looping initial "J".

Joel S. Wiebe, Senior Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-456, STN 50-457,
STN 50-454 and STN 50-455

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

BYRON STATION, UNIT NOS. 1 AND 2,

AND BRAIDWOOD STATION, UNITS 1 AND 2

DOCKET NOS. STN 50-454, STN 50-455,

STN 50-456 AND STN 50-457

In reviewing the Exelon Generation Company's (Exelon's) submittal, related to measurement uncertainty recapture for the Braidwood Station, Units 1 and 2, and Byron Station, Unit Nos. 1 and 2, the U.S. Nuclear Regulatory Commission staff has determined that the following information is needed in order to complete its review:

1. During a May 31, 2012, phone conference, Exelon identified a divergent trend between the Leading Edge Flow Meter (LEFM) and plant secondary systems parameters.
 - a. Provide a summary of the Byron Station, Unit 1, determination of cause of the LEFM versus secondary plant parameter drift that occurred from June to September 2011.
 - b. Provide the Cameron report on Byron Station, Unit 1, LEFM calibration that came out of the determination of the cause of the LEFM versus secondary plant parameter drift that occurred from June to September 2011.
 - c. Provide information to verify that this adverse trend did not result in operation above the licensed power level.

Enclosure

M. Pacilio

- 2 -

If circumstances result in the need to revise the requested response date, please contact me at (301) 415-6606.

Sincerely,

/ RA /

Joel S. Wiebe, Senior Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-456, STN 50-457,
STN 50-454 and STN 50-455

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RidsAcrcsAcnw_MailCTR Resource
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ADAMS Accession No.: ML12216A000

OFFICE	LPL3-2/PM	LPL3-2/LA	SRXB/BC	LPL3-2/BC	LPL3-2/PM
NAME	JWiebe	SRohrer	CJackson	MDudek	JWiebe
DATE	08 /23/12	09 /24/12	09/14 /12	09/25/12	09/27/12

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