



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

August 27, 2012

Mr. Michael J. Pacilio  
President and Chief Nuclear Officer  
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  
RE: MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE  
REQUEST (TAC NOS. ME6587, ME6588, ME6589, AND ME6590)


Dear Mr. Pacilio:

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated June 23, 2011, Exelon Generation Company, LLC submitted a request associated with a measurement uncertainty recapture power uprate for the Braidwood Station, Units 1 and 2, and Byron Station, Unit Nos. 1 and 2.

The NRC staff has reviewed 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 August 15, 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. If circumstances result in the need to revise the requested response date, please contact Mr. Joel Wiebe at (301) 415-6606.

Sincerely,



Michael Mahoney, 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 (RAI)

BYRON STATION, UNIT NOS. 1 AND 2, AND BRAIDWOOD STATION, UNITS 1 AND 2

REGARDING MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE

LICENSE AMENDMENT REQUEST

DOCKET NOS. STN 50-454, STN 50-455, STN 50-456 AND STN 50-457

TAC NOS. ME6587, ME6588, ME6589, ME6590

In reviewing the Exelon Generation Company, LLC (EGC) submittal dated June 23, 2011, related to a measurement uncertainty recapture (MUR) power uprate, for the Braidwood Station (Braidwood), Units 1 and 2, and Byron Station (Byron), Unit Nos. 1 and 2, the U.S. Nuclear Regulatory Commission (NRC) staff has determined that the following information is needed in order to complete its review:

EGC's supplemental submittal dated May 16, 2012, states:

The SFP [spent fuel pool] liner and racks were evaluated in the existing analyses of record for a design temperature of 200 °F [degrees Fahrenheit], which bounds the peak MUR SFP temperature of 166.6 °F.

Page 9.1-29 of the Byron and Braidwood updated final safety analysis report (UFSAR) states:

The liner plate and anchorage system have been designed for the forces resulting from long-term shrinkage of concrete, and a temperature rise to 158 °F from the 70 °F ambient temperature with nominal cooling.

The design temperature for the liner (158 °F) in the UFSAR, and the temperature noted in the response to RAI-13 in your May 16, 2012 submittal (200 °F), do not appear to be consistent. Please clarify the statement in EGC's May 16, 2012, submittal.

Enclosure

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/ RA /

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