



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

August 5, 2010

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BRAIDWOOD STATION, UNITS 1 AND 2, AND BYRON STATION, UNIT NOS. 1 AND 2 - SUPPLEMENTAL INFORMATION NEEDED FOR ACCEPTANCE OF REQUESTED LICENSING ACTION RE: LOW TEMPERATURE OVERPRESSURE PROTECTION (TAC NOS. ME4194, ME4195, ME4196, AND ME4197)

Dear Mr. Pacilio:

By letter dated June 29, 2010 (Agencywide Documents Access and Management System Accession No. ML101810069), Exelon Generation Company, LLC (EGC, the licensee) submitted a license amendment request for technical specification changes related to low temperature overpressure protection and loss of decay heat removal. The purpose of this letter is to provide the results of the Nuclear Regulatory Commission (NRC) staff's acceptance review of this amendment request. The acceptance review was performed to determine if there is sufficient technical information in scope and depth to allow the NRC staff to complete its detailed technical review. The acceptance review is also intended to identify whether the application has any readily apparent information insufficiencies in its characterization of the regulatory requirements or the licensing basis of the plant.

Consistent with Section 50.90 of Title 10 of the *Code of Federal Regulations* (10 CFR), an amendment to the license (including the technical specifications) must fully describe the changes requested, and following as far as applicable, the form prescribed for original applications. Section 50.34 of 10 CFR addresses the content of technical information required. This section stipulates that the submittal address the design and operating characteristics, unusual or novel design features, and principal safety considerations.

The NRC staff has reviewed your application and concluded that the information delineated in the enclosure to this letter is necessary to enable the staff to make an independent assessment regarding the acceptability of the proposed amendment request in terms of regulatory requirements and the protection of public health and safety and the environment.

In order to make the application complete, the NRC staff requests that EGC supplement the application to provide the information identified in the enclosure by August 24, 2010. This will enable the NRC staff to begin its detailed technical review. If the information responsive to the NRC staff's request is not received by the above date, the application will not be accepted for review pursuant to 10 CFR 2.101, and the NRC will cease its review activities associated with the application. If the application is subsequently accepted for review, you will be advised of

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any further information needed to support the staff's detailed technical review by separate correspondence.

The information requested and associated time frame in this letter was discussed with your staff on August 5, 2010.

If you have any questions, please contact me at (301) 415-1547.

Sincerely,

A handwritten signature in black ink, appearing to read "Marshall J. David". The signature is fluid and cursive, with the first name "Marshall" written in a larger, more prominent script than the last name "David".

Marshall J. David, Senior Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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

Enclosure:
Supplemental Information Needed

cc w/encl: Distribution via Listserv

SUPPLEMENTAL INFORMATION NEEDED
LICENSE AMENDMENT REQUEST REGARDING
LOW TEMPERATURE OVERPRESSURE PROTECTION
BRAIDWOOD STATION, UNITS 1 AND 2
AND BYRON STATION, UNIT NOS. 1 AND 2
DOCKET NOS. STN 50-456, STN 50-457
STN 50-454, AND STN 50-455

The Nuclear Regulatory Commission (NRC) staff is reviewing Exelon Generation Company, LLC's (the licensee's) license amendment request dated June 29, 2010 (Agencywide Documents Access and Management System Accession No. ML101810069), which requested NRC review and approval of technical specification changes related to low temperature overpressure protection and loss of decay heat removal. The NRC staff has concluded that the information delineated below is necessary to enable the staff to make an independent assessment regarding the acceptability of the proposed license amendment in terms of regulatory requirements and the protection of public health and safety and the environment.

1. Please identify all operator manual actions that will be added, deleted, or changed to support the proposed license amendment.
2. What cues are provided to personnel that manual action(s) is/are required?
3. What cues are provided to personnel that the proposed action(s) is/are no longer required?
4. What administrative controls exist to assure that, when the action(s) is/are no longer required, the plant configuration is put in the correct configuration for the plant status?
5. Please describe any changes to procedures needed to support the proposed license amendment.
6. Please describe any changes to controls or displays (including the Safety Parameter Display System) needed to support the proposed license amendment.
7. Please describe any changes to training needs to support the proposed license amendment.
8. Please describe any changes to staffing or qualification needed to support the proposed license amendment.

ENCLOSURE

9. What has been or will be done to assure that any new or changed human actions can be done in the environment that will be present, and within the time limits of the relevant scenario(s)?
10. If applicable precedents exist, has an operating experience review been done?
11. Please describe any increase in work load that will occur with the proposed licensed amendment.
12. Please describe any new scheduling constraints or new surveillance requirements due to the proposed license amendment.
13. Please provide all procedures related to the proposed license amendment.

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any further information needed to support the staff's detailed technical review by separate correspondence.

The information requested and associated time frame in this letter was discussed with your staff on August 5, 2010.

If you have any questions, please contact me at (301) 415-1547.

Sincerely,

/RA/

Marshall J. David, Senior Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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

Enclosure:
Supplemental Information Needed

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ADAMS Accession No.: ML102140128

*Date of e-mail

NRR-106

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