



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

November 30, 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 - REQUEST FOR ADDITIONAL INFORMATION RELATED TO LOW TEMPERATURE OVERPRESSURE PROTECTION (TAC NOS. ME4194, ME4195, ME4196, AND ME4197)

Dear Mr. Pacilio:

By letter to the Nuclear Regulatory Commission (NRC) dated June 29, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML101810069), as supplemented by letter dated August 24, 2010 (ADAMS Accession No. ML102360663), Exelon Generation Company, LLC (EGC, the licensee) submitted a license amendment request for technical specification (TS) changes related to low temperature overpressure protection and loss of decay heat removal. The proposed amendments would revise TS Section 3.4.12, "Low Temperature Overpressure Protection (LTOP) System," to correct an inconsistency between the TS, and implementation of procedures and administrative controls for Safety Injection required to mitigate a postulated loss of decay heat removal during mid-loop operation as discussed in NRC Generic Letter 88-17, "Loss of Decay Heat Removal."

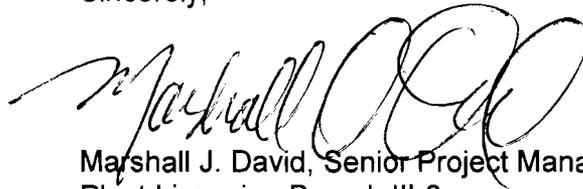
The NRC staff is reviewing your submittal, and has determined that additional information is required to complete its review. The specific information requested is addressed in the enclosed Request for Additional Information (RAI). The RAI was discussed with your staff on November 29, 2010, and they agreed to respond within 45 days after the date of this letter.

M. Pacilio

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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 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:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

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

By letter to the Nuclear Regulatory Commission (NRC) dated June 29, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML101810069), as supplemented by letter dated August 24, 2010 (ADAMS Accession No. ML102360663), Exelon Generation Company, LLC (EGC, the licensee) submitted a license amendment request for technical specification (TS) changes related to low temperature overpressure protection and loss of decay heat removal (DHR). The proposed amendments would revise TS Section 3.4.12, "Low Temperature Overpressure Protection (LTOP) System," to correct an inconsistency between the TS, and implementation of procedures and administrative controls for Safety Injection (SI) required to mitigate a postulated loss of decay heat removal during mid-loop operation as discussed in NRC Generic Letter 88-17, "Loss of Decay Heat Removal."

The NRC staff is reviewing the license amendment request and has determined that the following additional information is required to complete its review.

1. Confirm that the current actions for responding to a loss of DHR using SI are substantially the same as those implemented in response to NRC staff approval of a 1990 amendment per letter from S. P. Sands (U.S. NRC) to T. J. Kovach (Commonwealth Edison Company), "Issuance of Amendments (TAC Nos. 76715, 76716, 76717 and 76718)," dated August 31, 1990 (ADAMS Accession No. ML020860179).
2. Provide assurance that current operators are capable of performing the actions required to initiate SI in response to a loss of DHR during mid-loop operation within the time available to prevent core uncover.
3. Are there any other actions added to or modifications impacting the loss of DHR scenario over the last 20 years (since the 1990 amendment)? For example, have there have been modifications to the control room or to procedures that have incrementally added workload, reduced time available, or added concurrent/overlapping tasks, which could add to the workload of operators and distract them from timely initiation of SI?

ENCLOSURE

M. Pacilio

- 2 -

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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

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ADAMS Accession No.: ML103200614

*Date of e-mails

NRR-088

OFFICE	LPL3-2/PM	LPL3-2/LA	IHPB/BC	LPL3-2/BC	LPL3-2/PM
NAME	MDavid	THarris	UShoop*	RCarlson	MDavid
DATE	11/29/10	11/17/10	11/01/10 and 11/08/10	11 /30/10	11/30/10

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