



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

October 6, 2016

Mr. David Hamilton
Site Vice President
FirstEnergy Nuclear Operating Company
Mail Stop A-PY-A290
P.O. Box 97, 10 Center Road
Perry, OH 44081-0097

SUBJECT: PERRY NUCLEAR POWER PLANT, UNIT 1 – REQUEST FOR ADDITIONAL INFORMATION RELATED TO LICENSE AMENDMENT REQUEST FOR UPPER CONTAINMENT POOL GATE INSTALLATION DURING MODES 1, 2, AND 3 AND DRAIN DOWN OF UPPER CONTAINMENT POOL DURING MODE 3 (CAC NO. MF7476) (L-16-083)

Dear Mr. Hamilton:

By application dated March 15, 2016, FirstEnergy Nuclear Operating Company submitted a license amendment request for Perry Nuclear Power Plant, Unit 1 (PNPP). The proposed request would revise PNPP technical specifications to allow the installation of the upper containment pool gate during MODEs 1, 2, and 3, and the drain-down of the reactor well portion of the upper containment pool during MODE 3.

The U.S. Nuclear Regulatory Commission (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. A draft request for additional was transmitted on September 16, 2016. During a discussion with your staff on October 4, 2016, 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.

D. Hamilton

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If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1627.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly Green". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kimberly Green, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-440

License No. NPF-58

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

FIRSTENERGY NUCLEAR OPERATING COMPANY

PERRY NUCLEAR POWER PLANT, UNIT NO. 1

DOCKET NO. 50-440

By letter dated March 15, 2016, FirstEnergy Nuclear Operating Company submitted an amendment request for Perry Nuclear Power Plant, Unit 1 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16075A411). The proposed amendment would modify technical specifications to permit the installation of the upper containment pool gate in MODEs 1, 2, and 3, and the drain-down of the reactor well portion of the upper containment pool during MODE 3.

The additional information listed below is needed to support NRC staff's continued technical review of the license amendment request (LAR).

1. General Design Criteria (GDC) 16 requires that the reactor containment and associated systems shall be provided to establish an essentially leak-tight barrier against the uncontrolled release of radioactivity to the environment and to assure that the containment design conditions important to safety are not exceeded for as long as postulated accident conditions require. Describe the containment spray system (CSS) actuation timing and summary of inputs used in calculating CSS set point. Confirm that the GOTHIC analyses performed in support of this LAR do not impact the CSS set points described in Section 6 of the PNPP updated safety analysis report.
2. GDC 50 requires that the reactor containment structure, including access openings, penetrations, and the containment heat removal system shall be designed so that the containment structure and its internal compartments can accommodate, without exceeding the design leakage rate and with sufficient margin, the calculated pressure and temperature conditions resulting from any loss-of-coolant accident. Describe the conservatisms used in the assumptions and the benchmarking performed for the GOTHIC model for the steam line break with steam bypass of the suppression pool transient as referenced in the LAR.

Enclosure

D. Hamilton

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If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1627.

Sincerely,

/RA/

Kimberly Green, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-440

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Enclosure:
Request for Additional Information

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ADAMS Accession No. ML16279A043

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NAME	KGreen	SRohrer	EOesterle	DWrona	KGreen
DATE	10/5/16	10/5/16	09/14/16	10/6/16	10/6/16

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