



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

July 17, 2017

LICENSEE: FirstEnergy Nuclear Operating Company
FACILITY: Perry Nuclear Power Plant, Unit 1
SUBJECT: SUMMARY OF JUNE 29, 2017, PUBLIC MEETING WITH FIRSTENERGY NUCLEAR OPERATING COMPANY REGARDING A PROPOSED LICENSE AMENDMENT REQUEST FOR PERRY NUCLEAR POWER PLANT, UNIT 1, TO REVISE THE FLOODING LICENSING BASIS (CAC NO. MF9777)

The U.S. Nuclear Regulatory Commission (NRC) conducted a Category 1 public meeting with representatives of FirstEnergy Nuclear Operating Company (FENOC, the licensee) on June 29, 2017. The purpose of the meeting was to discuss an upcoming license amendment request (LAR) to revise the flooding licensing basis for the Perry Nuclear Power Plant site.

The meeting notice can be found in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML17164A089. The meeting notice is also posted on the NRC public website. The attendance list for the meeting is enclosed. FENOC's presentation slides are available at ADAMS Accession No. ML17187A574.

During the meeting, FENOC stated that it is in the process of reconstituting the site design basis minor stream probable maximum flood (PMF) and local intense precipitation (LIP) analyses. As a result, it plans to submit an LAR request to add a technical specification section to use a time-based warning method. FENOC also plans to propose the incorporation of barriers, e.g., permanent ramps, door thresholds, and permanent or temporary flood panels. FENOC will use the FLO-2D computer program for LIP analysis reconstitution. The FLO-2D program uses an unsteady state modeling technique, which is a change in the analytical methodology. Therefore, an amendment request will be necessary. FENOC also mentioned the potential for requesting exemptions to permit the crediting of all building exteriors as flood boundaries and crediting of the nonsafety-related plant storm and roof drain systems for event mitigation.

The NRC staff asked clarifying questions about the PMF and LIP analyses. The NRC staff asked if FENOC is using site-specific probable maximum precipitation (PMP) for the analyses. FENOC stated that it is reconstituting the design basis using the design basis PMP, which is Hydrometeorological Report No. 33 (HMR 33) from the U.S. Army Corp of Engineers. The NRC staff inquired if the HEC-RAS [Hydrologic Engineering Center's River Analysis System] model was being applied in a 2D or 1D mode to analyze the streams. FENOC stated that it is applying HEC-RAS in 1D mode. The NRC staff asked if FENOC considered the effects of debris blockage of storm drains. FENOC responded by stating that there is not a lot of debris within the LIP boundary, and that the analysis conservatively assumes 50 percent blockage of all storm drains.

FENOC and NRC staff noted that the FLO-2D computer program has only been submitted to the NRC as part of beyond-design-basis external hazard calculations that do not follow Appendix B to Title 10 of the *Code of Federal Regulations* Part 50. Because this is the first Appendix B application of FLO-2D for a design basis event, the NRC staff suggested that

FENOC include a brief discussion of the software package and its Appendix B process. In response to NRC staff questions, FENOC stated that the Appendix B certification process was performed by a third-party vendor.

FENOC currently plans to submit the LAR and exemption requests in December 2017.

No regulatory decisions or commitments were made during the meeting. The public was invited to observe the meeting and was given an opportunity to communicate with the NRC during the public meeting before adjourning. The NRC staff received no public comments and no meeting feedback forms.

Please direct any inquiries to me at 301-415-1627, or Kimberly.Green@nrc.gov.



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

Docket No. 50-440

Enclosure:
List of Attendees

cc w/encl: Distribution via Listserv

LIST OF ATTENDEES

JUNE 29, 2017

PUBLIC MEETING WITH

FIRSTENERGY NUCLEAR OPERATING COMPANY

REGARDING PERRY NUCLEAR POWER PLANT, UNIT 1

LICENSE AMENDMENT REQUEST TO REVISE FLOODING LICENSING BASIS

<u>Name</u>	<u>Affiliation</u>
Kimberly Green	U.S Nuclear Regulatory Commission (NRC)
Christopher Cook	NRC
Warren Sharp	NRC
Hosung Ahn	NRC
Dan Hoang	NRC
Kevin Quinlan	NRC
Brad Harvey	NRC
Barbara Hayes	NRC
Gordon Curran	NRC
Brian Wittick	NRC
Juan Uribe	NRC
Jack Rutkowski	NRC, Region III
Tom Lentz	FirstEnergy Nuclear Operating Company (FENOC)
Mark Bensi	FENOC
Benjamin Huck	FENOC
Phil Lashley	FENOC
John Sabo	FENOC
Steve Osting	FENOC
Ted Hilston	FENOC
Dave Petro	FENOC
Kathy Nevins	FENOC

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DATED: JULY 17, 2017

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ADAMS Accession No. PKG ML17193A435 Meeting Notice ML17164A089
Meeting Summary ML17193A419 Slides ML17187A574

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