PMLevyCOLPEm Resource

From: Habib, Donald
Sent: Wednesday, June 10, 2015 4:31 PM
To: PMLevyCOLPEm Resource
Subject: Audit Plan for Levy COL Application, Main Control Room Heatup Issue, June 2015
Attachments: Audit Plan for Levy MRC Heatup Rev0.docx

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Subject: Audit Plan for Levy COL Application, Main Control Room Heatup Issue, June 2015
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Recipients:
"PMLevyCOLPEm Resource" <PMLevyCOLPEm.Resource@nrc.gov>
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MESSAGE	3	6/10/2015 4:31:29 PM
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Audit Plan
Levy Nuclear Plant Units 1 and 2 Combined License Application
Main Control Room Temperature

Purpose and Scope

The purpose of this audit is to review Westinghouse (WEC) documents pertaining to an emerging issue generic to the AP1000 design that are being addressed on combined license (COL) application for the Levy Nuclear Plant (LNP) Units 1 and 2. The issue involves heatup of the main control room (MCR) experienced during incidents when the AP1000 emergency ventilation system is activated.

Duke Energy Florida (DEF) will make documents available at the WEC office in Rockville, Maryland. NRC staff may make several scheduled visits to complete the audit and may request documents in addition to those identified below.

Audit Agenda

The audit will be conducted at the WEC offices in Rockville, MD. The date of the audithas been coordinated with Westinghouse and DEF, and will begin on February 27, 2015. Additional document review times will be scheduled with Westinghouse staff at their Rockville facility.

Background

By letter dated March 26, 2015, DEF, the applicant for a COL for the LNP Units 1 and 2, responded to Request for Additional Information LetterNo. 122, dated October 10, 2014 (see ADAMS Accession No. ML15089A193). This response included a departure and exemption request from the AP1000 certified design with respect to the analysis of the main control room (MCR) habitability, including design changes that designated safety-related valves for providing post-72-hour breathing air and automatically de-energized MCR display monitors in order to reduce heatup of the main control room. The exemption request included changes to AP1000 certified design Tier 1 information and technical specifications.

The NRC staff will perform an audit of the Westinghouse calculation packages used by DEF to formulate its RAI response.

Audit Team

The audit team will include the following NRC staff members:

- Nan Chien, NRO/DSRA/SCVB (technical reviewer)
- Paul Pieringer, NRO/DCIP/COLB (technical reviewer)
- Don Habib, NRO/DNRL/LB4 (project manager for logistics coordination)

Location

Westinghouse Electric Company, LLC
11333 Woodglen Drive, Suite 203
Rockville, MD 20852
Telephone: 301-881-7040

Bases for Audit

- 10 CFR Part 50, Appendix A, Criterion 19, “Control room.”

Required Documentation

The staff will require access to Westinghouse calculation packages and supporting documents, including those identified below.

- APP-APP-GW-GLR-610 Revision 0, “Licensing Position on Operator Actions to control Main Control Room Heat Up”
- APP-VES-M8-001 Revision 0, “Main Control Room Emergency Habitability System (VES) - Main Control Room (12401) Sensible Heat Load Interface Control Document”
- APP-VES-M3C-001 Revision 1, “Emergency Habitability System (VES) Thermal Analysis using the GOTHIC Thermal Hydraulic Code”

Audit Products

Within 90 days of completing the audit, the NRC staff will generate an audit summary documenting findings from its review of the Westinghouse calculations, including any new or remaining questions or areas requiring clarification for the LOCA and MSLB dose analyses and calculation of radiation monitor setpoints.