

PMLevyCOLPEm Resource

From: Habib, Donald
Sent: Wednesday, August 19, 2015 5:55 AM
To: PMLevyCOLPEm Resource
Subject: Audit Plan for Levy MRC Dose Calculations
Attachments: Audit Plan for Levy MRC Dose Calculations.docx

From: Habib, Donald
Sent: Tuesday, February 24, 2015 8:47 AM
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Audit Plan

Levy Nuclear Plant, Units 1 and 2

Partial Response to RAI 06.04-2

Purpose and Scope

The purpose of this audit is to review Westinghouse documents pertaining to revised design basis accident control room dose analyses and radiation monitor setpoints. Duke Energy Florida (DEF) will make documents available at the Westinghouse office in Rockville, Maryland. NRC staff may make several scheduled visits to complete the audit.

Audit Agenda

The audit will be conducted at the Westinghouse offices in Rockville, MD. The date of the audit has been coordinated with Westinghouse and DEF, and will begin on February 24, 2015. Additional document review times will be scheduled with Westinghouse staff at their Rockville Twinbrook facility.

Background

By letter dated February 6, 2015, DEF, the applicant for a combined operating license (COL) for the Levy Nuclear Plant (LNP), Units 1 and 2, provided a partial response to a Request for Additional Information letter (see ADAMS Accession No. ML15040A470). This partial response included a departure and exemption request from the AP1000 certified design with respect to the analysis of the main control room (MCR) dose and radiation monitor setpoints, specifically for the loss-of-coolant accident (LOCA) and main steam line break (MSLB) design basis accidents, to incorporate shielding of the control room emergency ventilation system filters and other changes. These changes to the COL application are based on revised dose analyses for the LOCA and MSLB performed by Westinghouse. The NRC staff will perform an audit of the Westinghouse calculation packages used by DEF to formulate its partial RAI response.

Audit Team

The audit team will include the following NRC staff members:

- Michelle Hart, NRO/DSEA/RPAC (technical reviewer)
- Ron LaVera, NRO/DSEA/RPAC (technical reviewer)
- Nan Chien, NRO/DSRA/SCVB (technical reviewer)
- Don Habib, NRO/DNRL/LB4 (project manager for logistics coordination)

Location

Westinghouse Electric Company, LLC
Washington Operations
12300 Twinbrook Parkway
Rockville, MD 20852
Telephone: 301-881-7040

Bases for Audit

10 CFR 52.79, 10 CFR 52.63, 10 CFR 50.12, GDC-19

DEF Letter NPD-NRC-2015-001, February 6, 2015, "Partial Response to Request for Additional Information Letter No. 121 Related to SRP Sections 6.2.5 and 6.4 for the Levy Nuclear Plant Units 1 and 2 Combined License Application"

Required Documentation

The staff will require access to Westinghouse calculation packages for the LOCA and MSLB control room dose analyses, including the direct dose contributions, (e.g., from the VES filter, skyshine and plant sources), and calculation packages related to radiation monitor setpoint changes. These are expected to include the following:

- APP-RMS-J7C-005 Revision 1, "AP1000 Main Control Room Related Activity Concentrations to Support Radiation Monitoring System Setpoint Development"
- APP-SSAR-GSC-116 Revision 1, "AP1000 Post-Accident Doses in the Main Control Room from VES and VBS Filters (Part 1)"
- APP-SSAR-GSC-127 Revision 2, "AP1000 – Radiation Zoning in the Auxiliary Building in Post-Accident Conditions"
- APP-SSAR-GSC-176 Revision 2, "AP1000 Loss of Coolant Accident Doses"
- APP-SSAR-GSC-178 Revision 3, "AP1000 Main Steamline Break Doses"
- APP-SSAR-GSC-182 Revision 1, "AP1000 Spent Fuel Pool Boiling Radiological Doses"
- APP-SSAR-GSC-722 Revision 1, "AP1000 – Containment Penetration and Direct Dose Evaluation Outside Containment in Post-Accident Conditions"
- APP-SSAR-GSC-723 Revision 1, "AP1000 Dose Evaluations for Vital Area Outside Containment in Post Accident Conditions"
- APP-VES-M3C-001 Revision 2, "Main Control Room Leakage Rate Calculation"
- APP-VES-M3C-004 Revision 2, "VES System Flow Requirements"
- APP-VES-M3C-009 Revision 1, "Time Delay for the Activation of Main Control Room (MCR) Habitability System (VES) Pressure Relief Isolation Valves"
- APP-VES-M3C-067 Revision 0, "Main Control Room (MCR) Pressure Boundary Volume"

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.