

PMLevyCOLPEm Resource

From: Habib, Donald
Sent: Monday, September 28, 2015 12:54 PM
To: PMLevyCOLPEm Resource
Subject: Levy Combined License Units 1 and 2 10-19-2015 Audit Plan.docx
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Hearing Identifier: Levy_County_COL_Public
Email Number: 1300

Mail Envelope Properties (5601e1c6784f4efb9a2c62432b198401)

Subject: Levy Combined License Units 1 and 2 10-19-2015 Audit Plan.docx
Sent Date: 9/28/2015 12:53:33 PM
Received Date: 9/28/2015 12:53:34 PM
From: Habib, Donald

Created By: Donald.Habib@nrc.gov

Recipients:
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Tracking Status: None

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Files	Size	Date & Time	
MESSAGE	3	9/28/2015 12:53:34 PM	
Levy Combined License Units 1 and 2 10-19-2015 Audit Plan.docx			25968

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**Audit Plan for Levy Nuclear Plant Units 1 and 2 Combined License Application
Departure and Exemption Request to Address
Condensate Return Cooling Design Change
October – November 2015**

A. Background

This is a follow up audit to address emerging issues associated with the design change to address condensate return cooling for Levy Nuclear Plants 1 and 2. Additional background is available in the audit reports provided in References 1, 2, 3, and 4.

NRC staff was informed of additional analyses being performed by the applicant to investigate the impact of a loss of subcooling in the RCS resulting from ambient heat losses from the pressurizer (Reference 5). The purpose of the audit is to gain a better understanding of the analyses in order to assess the impact on the NRC staff's safety evaluation.

B. Regulatory Audit Bases

This regulatory audit is based on the following:

- AP1000 Design Certification Document, Rev. 19, Sections 6.3 and 19E, and Chapter 15

C. Regulatory Audit Scope or Methodology

The subject matter expert will present the analysis to the staff and answer staff questions about the analyses. The staff will audit calculation inputs and results and related documents. The staff will also audit an engineering report describing Duke/Westinghouse assessment of the analysis and test results.

D. Information and Other Material Necessary for Audit

The following material associated with the calculation:

- Inputs decks and associated reference documents
- Calculation restart files and software for post-processing the calculation (e.g. AptPlot)
- Engineering report assessing analysis and test results

E. Team Assignments

The audit team includes:

Timothy Drzewiecki, NRC Staff (Reactor Systems)
Boyce Travis, NRC Staff (Containment and Ventilation)
Donald Habib, NRC Project Manager

F. Logistics

Date: October 19, 2015, and later dates in November 2015 to be scheduled

Location: Westinghouse Electric Company, LLC
Washington Operations
11333 Woodglen Dr # 203
Rockville, MD 20852
Telephone: 301-881-7040/7042

G. Special Requests

NRC Staff requests that Westinghouse provide:

1. a subject matter expert be made available with access to the calculation inputs, restart files, and post-processing software

H. Deliverables

The audit team will issue an audit summary within 30 days of audit completion.

I. References

1. "Levy Combined License, Units 1 and 2, Summary of 2013 Audit", Sep. 16, 2014 (ADAMS Accession Number ML14219A169)
2. "Levy Combined License, Units 1 and 2, Summary of 2014 Audit", Sep. 16, 2014 (ADAMS Accession Number ML14219A200)
3. "Levy Combined License Units 1 and 2 12-16-2014 Audit Report", Jan. 6, 2015 (ADAMS Accession Number ML15005A054)
4. "Levy Combined License, Units 1 and 2, Summary of 2015 Audit for Condensate Return Design Change Departure", July 6, 2015 (ADAMS Accession Number ML15187A248)
5. "09/23/2015 Notice of Forthcoming Public Meeting to Discuss the AP1000 Design Center's Approach and Findings Regarding the Condensate Return Design Change, in Light of Recent Revelations from Conducting Sensitivity Analyses", Sep 14, 2015 (ADAMS Accession Number ML15257A245)