

## **PMLevyCOLPEm Resource**

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**From:** Habib, Donald  
**Sent:** Tuesday, January 26, 2016 11:57 AM  
**To:** PMLevyCOLPEm Resource  
**Subject:** Audit Plan for Levy Units 1 and 2 Combined License Condensate Return Design Change Ambient Heat Loss Considerations January 13 2016  
**Attachments:** Audit Plan for Levy Units 1 and 2 Combined License Condensate Return Design Change Ambient Heat Loss Considerations January 13 2016.docx

**Hearing Identifier:** Levy\_County\_COL\_Public  
**Email Number:** 1316

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**Subject:** Audit Plan for Levy Units 1 and 2 Combined License Condensate Return Design Change Ambient Heat Loss Considerations January 13 2016  
**Sent Date:** 1/26/2016 11:57:03 AM  
**Received Date:** 1/26/2016 11:57:04 AM  
**From:** Habib, Donald

**Created By:** Donald.Habib@nrc.gov

**Recipients:**  
"PMLevyCOLPEm Resource" <PMLevyCOLPEm.Resource@nrc.gov>  
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**Post Office:** HQPWMSMRS06.nrc.gov

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MESSAGE	3	1/26/2016 11:57:04 AM
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**Options**  
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**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
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**AUDIT PLAN FOR LEVY NUCLEAR PLANT UNITS 1 AND 2 COMBINED LICENSE  
APPLICATION EXEMPTION REQUEST AND DESIGN CHANGE TO ADDRESS  
CONDENSATE RETURN COOLING: AMBIENT HEAT LOSS CONSIDERATIONS  
JANUARY 2016**

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.

During a public meeting on September 23, 2015, NRC staff was informed of additional analyses being performed by the applicant to investigate the impact of a loss of subcooling in the reactor coolant system 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

C. Regulatory Audit Scope or Methodology

The audit team will review the engineering basis document and supporting calculations, and meet with a subject matter expert to clarify potential regulatory concerns.

D. Information and Other Material Necessary for Audit

The following documents are requested:

- Engineering Basis Document
- APP-SSAR-GSC-010 Revision 0, Condensate Return RELAP calculation

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: Beginning January 13, 2016 and lasting approximately 8 weeks

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

## G. Special Requests

NRC Staff requests that Westinghouse provide:

1. A conference room for the NRC staff to sue
2. As needed, subject matter experts be made available to answer questions related to the material subject to the audit.

## 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)