

PMLevyCOLPEm Resource

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Subject: 2015-09-23 Open Meeting Slides - Levy Condensate Return
Attachments: 2015-09-23 Open Meeting Slides.pptx

Hearing Identifier: Levy_County_COL_Public
Email Number: 1298

Mail Envelope Properties (acc57e8eb4754b849949843c1f2feb3)

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Sent Date: 9/21/2015 12:38:03 PM
Received Date: 9/21/2015 12:38:08 PM
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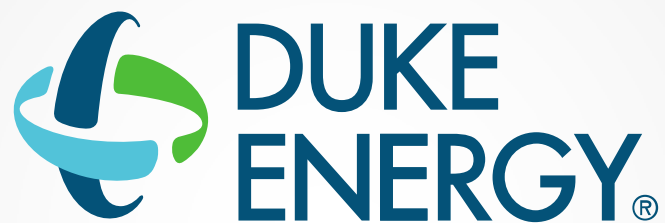
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2015-09-23 Open Meeting Slides.pptx		1197172

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- *Condensate Return*

LEVY
Condensate Return Update
09-23-15

Agenda

Open Meeting

- SSD license basis
- Sensitivity Study Information
- Levy Submittal Plan

Closed Meeting

- Preliminary Results using RELAP model
- Testing to Support Long Term PRHR Operation
- Technical Conclusions
- Next Steps

Safe Shutdown Duration Analysis

- Current Levy submittal proposes the following licensing changes/additions in support of resolution of condensate return:

- **DCD / UFSAR 6.3.1.2.1 Non-safety Design Basis - Long Term Core Decay Heat Removal**

The passive residual heat removal heat exchanger, in conjunction with the in-containment refueling water storage tank, the condensate return features and the passive containment cooling system, has the capability to maintain the reactor coolant system in the specified, long term safe shutdown condition of 420°F for at least 14 days in a closed loop mode of operation.

- **DCD / UFSAR 7.4 Systems Require for Safe Shutdown**

These safe shutdown conditions can be maintained by the PRHR HX for greater than 14 days based on a non-bounding, conservative analysis that only credits using safety-related equipment.

- Analysis that supports this performance requirement currently only considers adiabatic conditions. Westinghouse sensitivity evolutions have challenged the appropriateness of adiabatic assumption.

Levy Submittal Plan

- Work is underway on engineering evaluation
- Targeted Dates
 - APOG review planned for mid-October 2015
 - Availability for NRC review planned following APOG Review (targeted to be available in early November)
- Evaluation will support non-safety licensing basis performance requirements from DCD/UFSAR Sections 6.3.1.2.1 and 7.4