

PMLevyCOLPEm Resource

From: Habib, Donald
Sent: Thursday, May 14, 2015 10:56 AM
To: PMLevyCOLPEm Resource
Subject: Duke Energy Florida - Slide Presentation for 5/14/15 Public Meeting (Levy Condensate Return)
Attachments: 2015-05-14 NPD-NRC-2015-018 Public Slides.pdf

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Condensate Return)
Sent Date: 5/14/2015 10:56:07 AM
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From: Habib, Donald

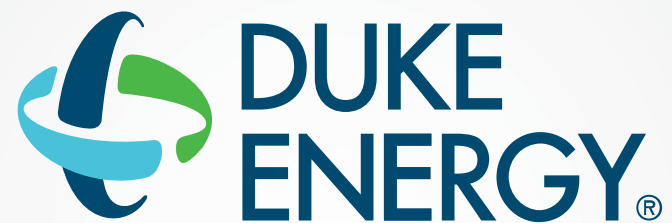
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Options
Priority: Standard
Return Notification: No
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- *Condensate Return*

LEVY
Condensate Return Submittal
05-14-15

Agenda

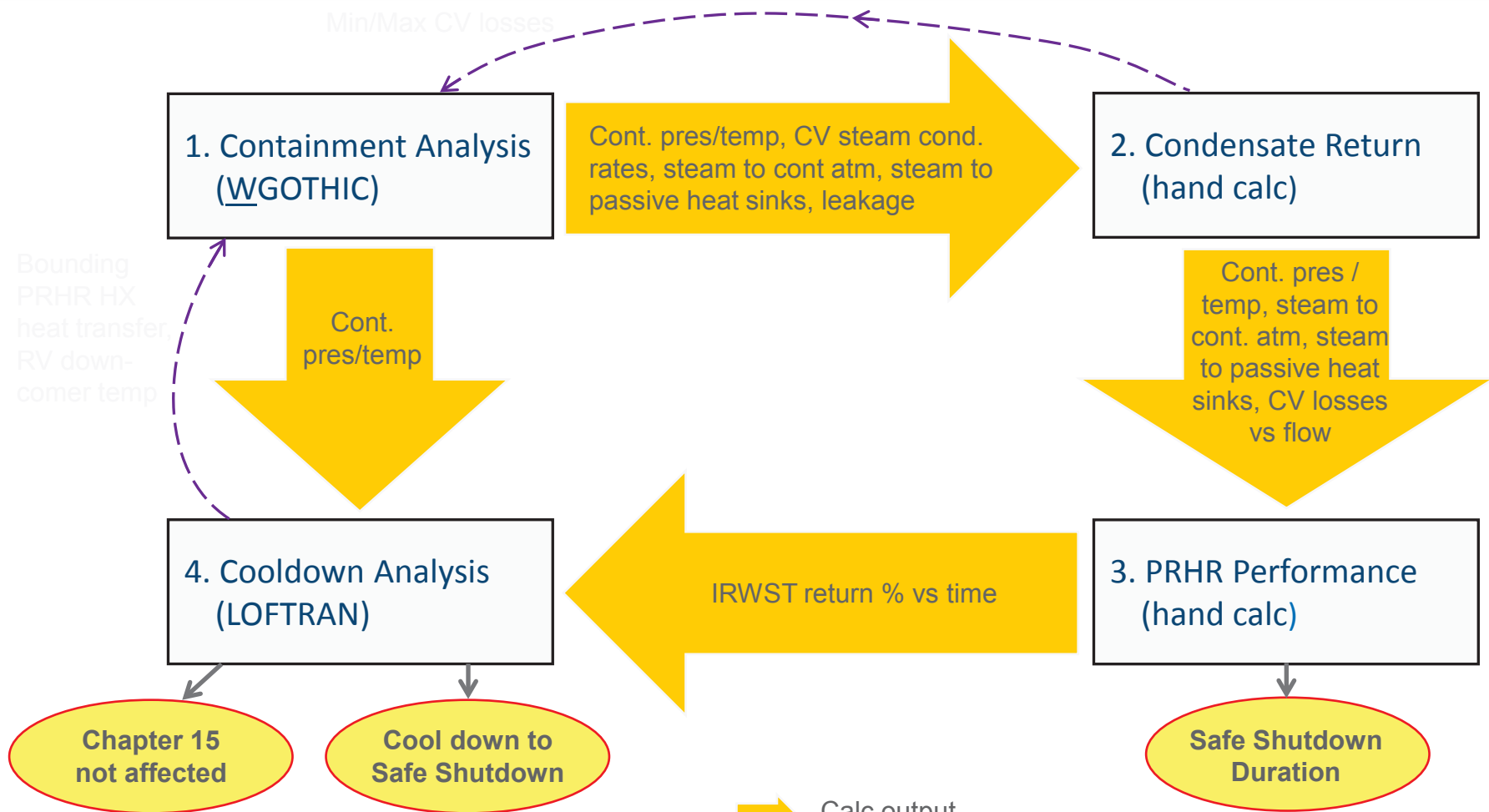
Open Meeting

- Summary of Major Changes
- Licensing Basis Changes
- Long Term Analysis Finalization Plan

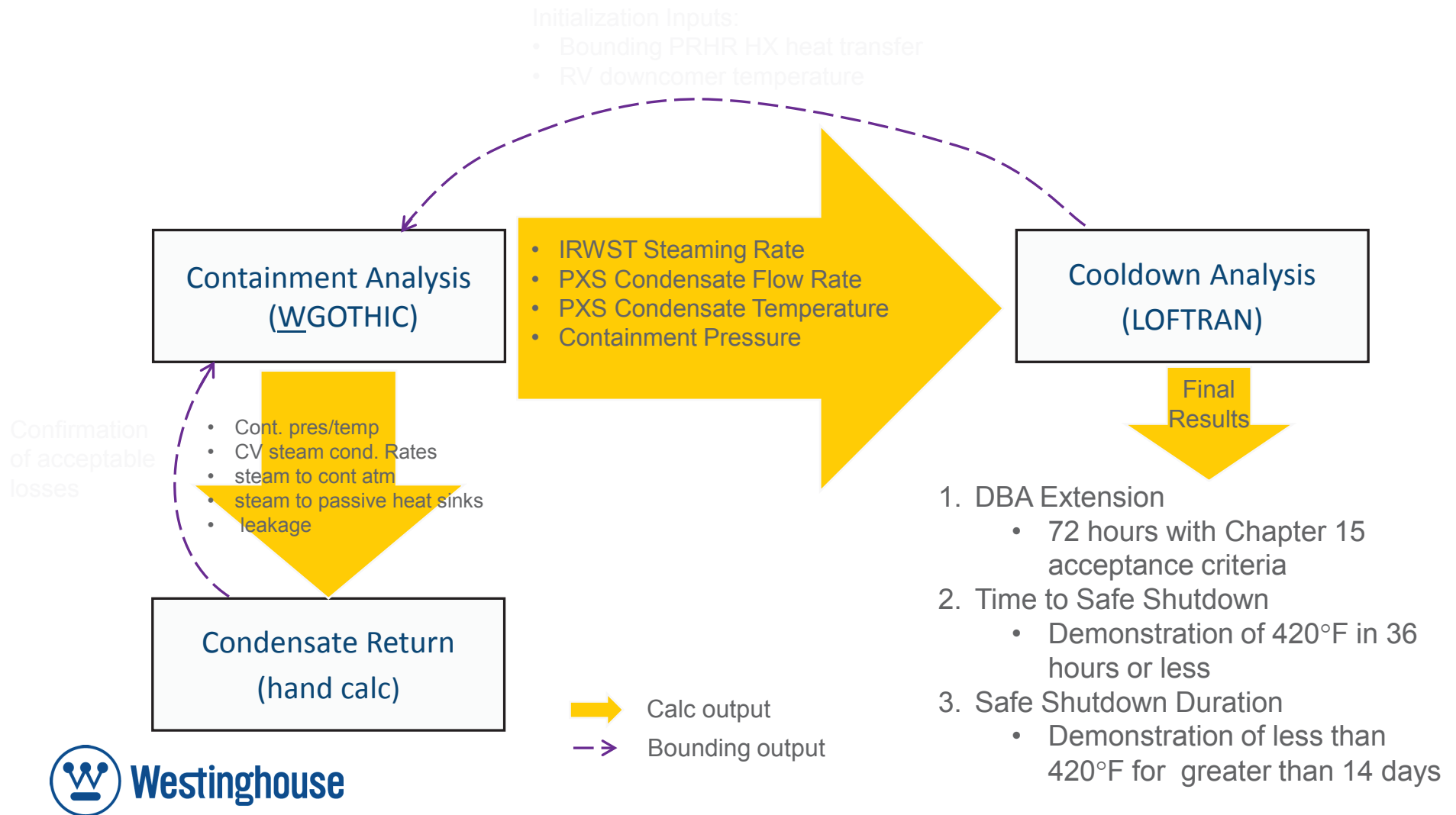
Closed Meeting

- Calculation Process
- Analysis Results
- Long Term Analysis
 - Preliminary Results

Prior Analysis Approach



Streamlined Analysis Approach



Streamlined Analysis Approach – Benefits



- Reduction in exchanges between calculations
 - Limits error likely handoffs
 - Avoids the need for additional iterations
 - Limits the addition of unnecessary conservatism to bound each input
- Utilizes two analysis methodologies previously reviewed and approved by the staff
 - Benchmarked to integral system and separate effects testing
- Should improve ease of review for staff

**New approach has major benefits
without sacrificing quality or margin**

Status of Condensate Return Documentation

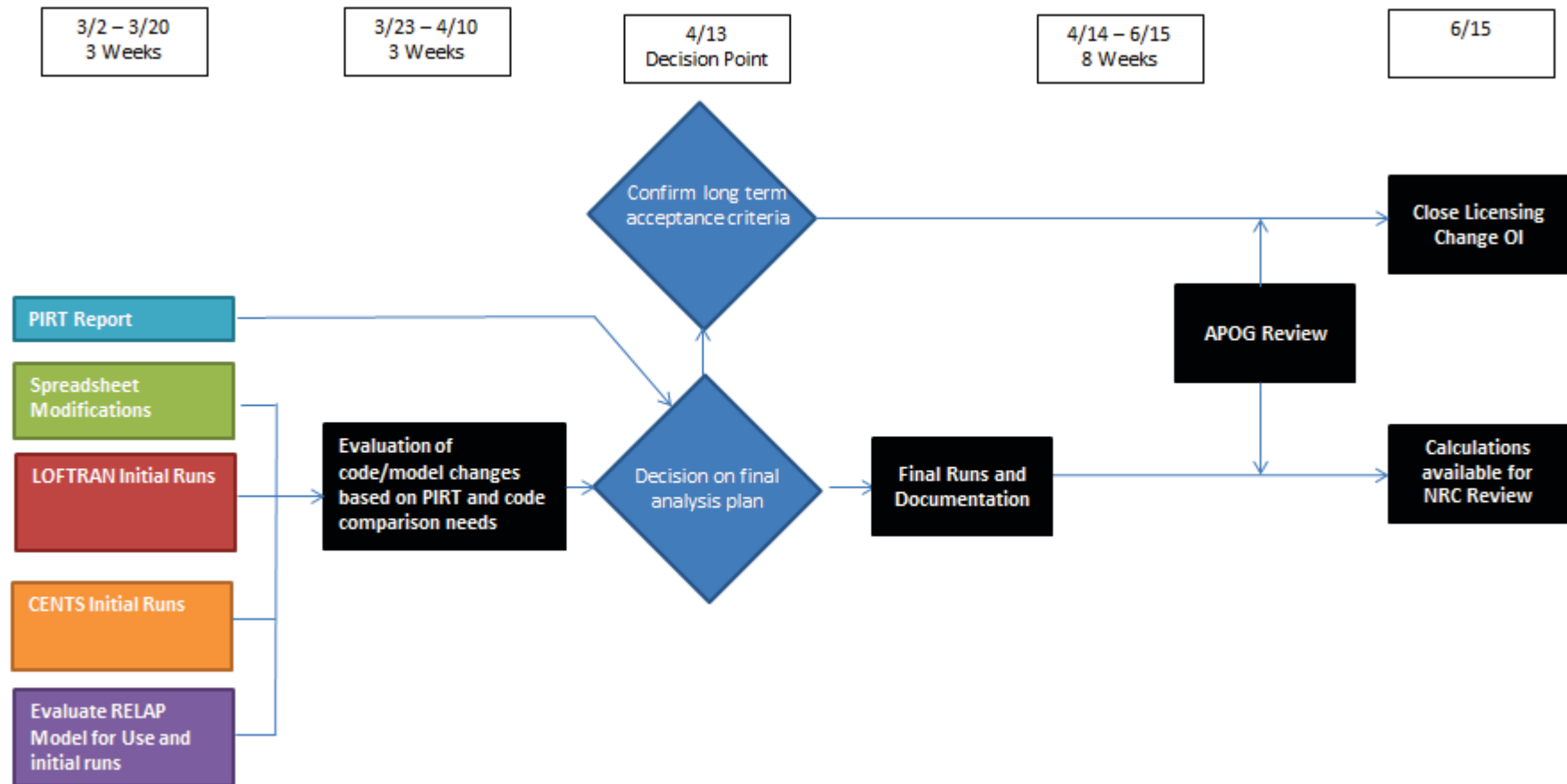


- Licensing documentation submitted
 - RAI 6.03-13 Response
 - Condensate Return Transient Return Rate Differences
 - Request for exemption
 - FSAR markups
- Calculations available for audit

Levy COLA Changes

- FSAR Chapter 1
 - Revised departure summary
- FSAR 7.4 “Systems Required for Safe Shutdown”
 - Clarified the definition of long-term safe shutdown
 - Achieve 420F within 36 hours as shown in Chapter 19E
 - Maintain for at least 14 days based on realistic analysis that only credits safety-related equipment
 - Can maintain indefinitely using ADS and passive injection/recirculation
- FSAR 19.E4 “Shutdown Temperature Evaluation”
 - Updated text and figures to reflect results of revised calculations
- COLA Part 7 “Departures and Exemption Requests”
 - Revised Departure 3.2-1
 - Revised Exemption Request 4

Long Term Analysis Plan



Finalization of analysis process and justification of LOFTRAN for long term use are still in progress

Submittal timeline

- Levy submittal to NRC – Complete
 - Open item for finalization of Safe Shutdown Duration
- Calculations for Demonstration of Safe Shutdown Duration complete – June 15th
- Levy submittal of open item closure – June 26th
 - Confirmation Activity: No changes expected to licensing change package
- NRC review of COLA change package in support of September 9 ACRS meeting