

## PMLevyCOLPEm Resource

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**From:** Habib, Donald  
**Sent:** Wednesday, January 20, 2016 1:42 PM  
**To:** Bob Kitchen (Robert.Kitchen@duke-energy.com)  
**Subject:** Take-Away for Levy Control Room Dose Audit

Bob –

Below is a summary of the key topics the staff expects to be included in a supplemental submittal, based on the staff's understanding from the MCR dose audit.

Please let me know if you have any questions.

Don Habib  
Levy COL Review, Lead Project Manager  
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- Information describing informal quantitative calculations or assessments, and results to determine how and whether certain penetrations contribute to the direct dose such that it is acceptable not to model them or count their dose in the Westinghouse modelling analysis:
  - Sanitary waste drains, floor drains, and their embedded drain lines
  - Penetrations on western side of the south wall near the vestibule
- Generalized treatment of penetrations with respect to radiation streaming, including identifying all penetrations into Zone VII or higher radiation fields and any penetrations not included in documentation already provided to the staff.
- Semi-quantitative discussion of simplifying modeling assumptions if able (e.g., comparison of dose with and without liner plates in dose model). If these quantitative assessments would result in a non-conservative change in dose rates, then provide a Qualitative discussion of conservatisms that would balance against not using the minimum concrete thickness in the dose analysis or other uncertainties or non-conservatisms.
- Discussion of conservatisms that would balance against non-conservatisms and uncertainties in the overall MCR dose analysis.

**Hearing Identifier:** Levy\_County\_COL\_Public  
**Email Number:** 1314

**Mail Envelope Properties** (c68e507c2f864fc5bf4d2e7d46cfdbf6)

**Subject:** Take-Away for Levy Control Room Dose Audit  
**Sent Date:** 1/20/2016 1:41:51 PM  
**Received Date:** 1/20/2016 1:41:51 PM  
**From:** Habib, Donald

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

**Recipients:**  
"Bob Kitchen (Robert.Kitchen@duke-energy.com)" <Robert.Kitchen@duke-energy.com>  
Tracking Status: None

**Post Office:** HQPWMSMRS06.nrc.gov

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MESSAGE	1628	1/20/2016 1:41:51 PM

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