

## PMLevyCOLPEm Resource

**From:** Habib, Donald  
**Sent:** Tuesday, August 18, 2015 10:57 AM  
**To:** Kitchen, Robert (Robert.Kitchen@duke-energy.com)  
**Cc:** Segala, John; Pieringer, Paul; Junge, Michael  
**Subject:** MCR Heat-up Question

Bob –

Below is a table showing what the staff understands is in the departure and the DCD, but there are some gaps in the information. The staff would like you to fill in the missing information and correct/clarify any incorrect information. We would like to discuss in a future public teleconference, as appropriate.

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Time (days)	Certified Design		Levy Departure			
	Acceptance Criteria <sup>1</sup>	MCR Heat-up Analysis	Acceptance Criteria <sup>1</sup>		MCR Heat-up Analysis	
			MCRE	Adjacent Rooms	MCRE	Adjacent Rooms
0	75°F (60%RH)	Assume at 75°F	75°F (60%RH)	85°F (?%RH)	Assume at 75°F	Assume at 85°F
0 - 3	95°F (60%RH)	85.8°F (?%RH)	95°F (60%RH)	95°F (60%RH)	< 95°F (?%RH) <sup>2</sup>	< 95°F (?%RH) <sup>3</sup>
4 - 7	95°F (70%RH)	4.5°F above average outdoor air temp (?%RH)	115°F (35%RH)	115°F (35%RH)	108.5°F (?%RH) (7.5°F above the maximum normal air temp site parameter of 101°F)	< 115°F (?%RH) <sup>3</sup>

<sup>1</sup> It was not clear from reading Duke's submittals whether or not the acceptance criteria is the same for both human performance and equipment qualification.

<sup>2</sup> It was not clear from reading Duke's submittals what was the worst case calculated temperature and RH in the MCRE from the GOTHIC analysis. Duke's submittal implies it was below 95°F and the February 2015 meeting slides shows a temperature curve below 95°F, but no specific temperature and RH values were provided in Duke's submittal or proposed markups.

<sup>3</sup> It was not clear from reading Duke's submittals what was the worst case calculated temperature and RH in all of the adjacent rooms from the GOTHIC analysis. Duke's submittal implies it was below 95°F for the first 3 days and below 115°F at 7 days, but no specific temperature and RH values were provided in Duke's submittal or proposed markups.

**Hearing Identifier:** Levy\_County\_COL\_Public  
**Email Number:** 1290

**Mail Envelope Properties** (d33efe810de14ddca7ce401aa633cd6e)

**Subject:** MCR Heat-up Question  
**Sent Date:** 8/18/2015 10:57:11 AM  
**Received Date:** 8/18/2015 10:57:12 AM  
**From:** Habib, Donald

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

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Tracking Status: None

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Tracking Status: None

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Tracking Status: None

"Kitchen, Robert (Robert.Kitchen@duke-energy.com)" <Robert.Kitchen@duke-energy.com>

Tracking Status: None

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

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	2136	8/18/2015 10:57:12 AM

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**Expiration Date:**

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