

PMLevyCOLPEm Resource

From: Hoellman, Jordan
Sent: Wednesday, August 27, 2014 10:58 AM
To: PMLevyCOLPEm Resource
Subject: FW: Main Control Room Operator Dose 08272014.pptx
Attachments: Main Control Room Operator Dose 08272014.pptx

From: Habib, Donald
Sent: Wednesday, August 27, 2014 10:50 AM
To: Hoellman, Jordan
Subject: FW: Main Control Room Operator Dose 08272014.pptx

From: Kitchen, Robert [<mailto:Robert.Kitchen@duke-energy.com>]
Sent: Wednesday, August 27, 2014 8:25 AM
To: Habib, Donald
Cc: Sylena Smith (smithse@westinghouse.com); Thornton, James R; Waters, David; Wilkins, Tillie; Montague, Kelvin J
Subject: Main Control Room Operator Dose 08272014.pptx

Don – Attached are the slides that we will use to discuss the MCR operator dose issue on the Levy COLA public call at 2:00 on Thursday.

Hearing Identifier: Levy_County_COL_Public
Email Number: 1251

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Subject: FW: Main Control Room Operator Dose 08272014.pptx
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Main Control Room Operator Dose

- During design finalization, WEC discovered that direct dose from Main Control Room (MCR) emergency ventilation (VES) filter was not accounted for in DCD R19

	DCD R19 LB LOCA	CAP IR 13-350-M031
Airborne	4.25	4.25
Direct – adjacent structures	0.15	0.15
Sky-shine	0.01	0.01
Spent fuel pooling boiling	0.01	0.01
Direct - VES	0.0	↑
Total	4.41	ISG-11 Trip

- Direct dose from VES filter results in an increase in (MCR) total operator dose

Main Control Room Operator Dose

- Levy Nuclear Station Simplified Approach for addressing VES filter contribution calculating MCR operator dose
 - Use site specific MCR atmospheric dispersion factors to offset VES direct dose contribution
 - Defer other conservative proposed changes associated with WEC DCP 4741 for Post-COL implementation per ISG-11 process

	CAP IR 13-350-M031	Levy Site MCR atmospheric dispersion factor
Airborne	4.25	↓
Direct – adjacent structures	0.15	↑
Sky-shine	0.01	↑
Spent fuel pooling boiling	0.01	NC**
Direct - VES	↑	NC**
Total	ISG-11 trip	COLA Rev/Departure
**No Change		

Main Control Room Operator Dose

- Summary
 - A departure will be developed for the Levy Nuclear Station FSAR to depart from the MCR operator dose in DCD Subsection 15.6.5.3.8.2 to include the direct dose from the VES filter.
 - Basis for MCR operating dose using site-specific dispersion factors for the limiting design basis accident will be documented in an WEC analysis.
 - Levy Nuclear Station MCR atmospheric dispersion factors are bounded by AP1000 DCD Tier 1 values and result in significant reduction in airborne radiation component of MCR operator dose.
 - Duke Energy will defer WEC DCP 4741 for Post-COL implementation per ISG-11 process
- A similar approach would be used for Lee Nuclear Station and Turkey Point