

SummerRAIsPEm Resource

From: Gleaves, Bill
Sent: Tuesday, November 01, 2016 1:41 PM
To: Nick Kellenberger (nicholas.r.kellenberger@scana.com)
Cc: Stutzcage, Edward; SummerRAIsPEm Resource; Patel, Chandu
Subject: FW: LAR 14-14 R3 Additional Draft Questions (11.01.2016)

Nick,

Here are some new draft questions on WEC90. Please review these draft questions and let me know if they are OK as-is, need edits, or if you may have questions on them.

I am sending these draft questions to you by email and will also have them added to the public ADAMS within 5 working days. Please ensure that your SoCo counterparts are informed of the existence of these draft questions.

1. In the LAR, the licensee proposes moving the penetrations for the removable ducts in the "VBS MCR/A&C Equipment Room" (which is located directly above the MCR). The removal of duct sections is a vital function. Additional travel time is required to reach the new location and the licensee indicates the additional travel time will result in a dose increase of less than 20 mrem, which the licensee claims is not significant because there was more than 1 rem of available margin in the original calculations. However, the location of the new penetrations are on the opposite side of the wall from the "Upper MSIV Compartment B Room" which is radiation zone VIII (between 100 Rem/hour and 500 Rad/hour) during accident conditions. Therefore, it would appear that the operator would receive a higher dose working on the ducting at this location than they would working at the original location. So while the LAR discusses the additional dose received for additional travel time, it does not discuss additional dose received due to the work now being performed at the potentially higher dose rate location. This dose and how the dose increase effects the total dose should be discussed in the LAR.
2. As discussed in item 1, the new penetrations are now closer to the high dose rate "Upper MSIV Compartment B Room." The licensee should evaluate and document the dose into the MCR envelope due to radiation streaming through the new penetration locations. This should be discussed in the LAR.
3. UFSAR Figure 3H.5-9 initially implied that those areas that had finned floors included ½ inch of steel at the bottom of the finned floors. However, in the LAR, the licensee adds Note 1 to Figure 3H.5-9. Note 1 indicates that the details shown in the figure are specific to the floor at elevation 135'-3" (main control room ceiling). In addition, in the LAR the licensee revised UFSAR Section 3H.5.4 which now specifies that Figure 3H.5-9 shows the finned floor above the main control room only, (instead of the figure applying to all of the finned floors). Therefore, it is no longer clear if the ceiling below the main control room will still include ½ inch of steel. The ½ inch of steel provides additional shielding for the main control room. In a departure in the Levy application, the staff relied on this steel thickness to reach their safety finding that the design met the requirements of GDC 19. Summer and Vogtle are expected to make a similar change in a future LAR. Please clarify that the thickness is still ½ inch or provide an evaluation for a change (If the new thickness is less than ½ inch, the licensee should evaluate the effects of this change on the dose inside the main control room). In addition, please clarify that the change to this Tier 2* information will remain Tier 2*, i.e., information in Figure 3H.5-9 specifying the steel thickness for the ceiling below the main control room remains Tier 2*.

Billy
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