

Vogle PEmails

From: Habib, Donald
Sent: Tuesday, March 26, 2019 2:19 PM
To: Chamberlain, Amy Christine
Cc: Vogle PEmails; Stutzcage, Edward; Dudek, Michael; Dixon-Herrity, Jennifer; Patel, Chandu; Ray, Sheila
Subject: NRC Feedback from Today's Public Meeting (Vogle Planned LAR on AP1000 Radiation Reconciliation)

Amy –

Below is additional NRC feedback from today's public meeting discussion about the planned LAR for detailed AP10000 radiation reconciliation.

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NRC Takeaway #1 –

Design basis radiation sources over 100 millicuries, that are associated with a component which is part of the plant design and requires radiation shielding and/or radiation protection controls, are included in the application. Specifically, NRC SRP Section 12.2 states,

Descriptions should be provided for all radiation sources that require (1) shielding, (2) special ventilation systems, (3) special storage locations and conditions, (4) traffic or access control, (5) special plans or procedures, or (6) monitoring equipment. The source descriptions should include all pertinent information required for (1) input to shielding codes used in the design process, (2) establishment of related facility design features, (3) development of plans and procedures, (4) assessment of occupational exposure and (5) determination of radiation dose to electrical equipment important to safety as described in 10 CFR 50.49. Unless described within other sections of the SAR, source descriptions should include the methods, models and assumptions used as the bases for all values provided in SAR Section 12.2. A listing of isotope, quantity, form, and use of all required radiation sources containing byproduct, source, and special nuclear material exceeding 3.7 E+9 Bq (100 millicuries) that may warrant shielding design consideration, should be provided.

NRC Takeaway #2 –

The basis for requesting this information includes several regulations, including 10 CFR 52.47(a)(5) (for DCDs) and 10 CFR 52.79(a)(3) (for COLs), which requires that applications contain the kinds and quantities of radioactive materials expected to be produced in the operation and the means for controlling and limiting radioactive effluents and radiation exposure within the limits set forth in Part 20 of this chapter.

NRC Additional Suggestions –

In addition, the NRC staff identifies that the LAR should also discuss if there is a need for any inspections or work inside the tank; and any impacts on worker dose and worker dose estimates (depending how the worker

dose estimates in FSAR Section 12.4 were performed and the consideration of the radioactivity in the IRWST for how it may impact those numbers). This should also include whether there are any special radiation protection design features or controls associated with reducing the dose rate in and around the tank or reducing radiation exposure to workers in or around the tank.

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