

Vogle PEmails

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Subject: LAR 17-040 Clarification Questions for Public Meeting on March 8, 2018
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Please see the attached Clarification Questions for Vogle Units 3 and 4 LAR 17-040, "Consistency and Clarification Changes to Annex Building, Auxiliary Building, and Basemat ITAAC," for discussion at the March 8, 2018, public meeting.

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Vogle Units 3 and 4

LAR-17-040, "Consistency and Clarification Changes to Annex Building, Auxiliary Building, and Basemat ITAAC"

Clarification Questions

February 28, 2018

NI Basemat

1. What basemat concrete thickness (5'- 10 3/8" or 6') is used in the model? Why change to the basemat is inconsistency not a design change?
2. What is basis of calculating the affected area where concrete is less than 6'?
3. What is the maximum stress in the basemat at the affected location, and corresponding controlling design loads and load combination?
4. Quantify the effect of additional 1-5/8" thick concrete on the mass and stiffness, and stresses in the basemat.

Auxiliary Building

5. What is the design basis of the 2'-9" thick section of the wall above 109'-3" as well as the 3'-0" thick section below 109'-3"? Provide controlling loads and load combinations for the wall. Are wall connections changed?

Annex Building Floor – No Questions

Annex Building: CSA (Control Support Area) Floor

6. Clarify the statement on page 12 of 21 (Enclosure 1) "the lumped mass stick model used to generate safe shutdown earthquake seismic acceleration profiles for the Annex Building was generated using thicknesses consistent with the configuration described in this activity". Is the seismic model based on 6" floor thickness? Is this model used to obtain seismic forces for the 6" floor design?
7. Provide the design basis load and load combinations considered for the design of 6" concrete floor in the kitchen and restroom areas on the 117'-6" elevation of the Annex Building including area of the reinforcement required and provided.
8. Provide the quantifiable technical basis to show that the reduction in floor thickness would not affect the ability to maintain personnel dose within the limit prescribed in GDC 19 during a design basis event.

Radiation Safety:

9. As part of the LAR, SNC proposes to add several footnotes to Tier 1, Table 3.3-1. One of those footnotes is Note 13. Note 13 indicates that, "The concrete in the kitchen and restroom areas is 2 inches thinner." The only place in Table 3.3-1 in which note 13 is being applied is for the floor in the Annex Building between Column Lines 4 to 4.1 and E to H at the 135'-3" elevation. However, in viewing the UFSAR figures there are no kitchens or restrooms in that area. That area encompasses room 40551, "Containment air filtration exhaust Room A" and a portion of 40550, "Staging and Storage area." So it appears to be an error to apply footnote 13 to this area.

Furthermore, the body of the LAR discusses the kitchen and restrooms in which the concrete thicknesses are changing as being Rooms 40401 (restroom), 40404 (restroom), and 40405 (kitchen). These are on the 117'-6" elevation of the Annex Building, between approximately column lines 11 and 13 and G and I.1.

Did SNC apply the footnote to the incorrect floor in Tier 1, Table 3.3-1?