SUMMARY

Attendees:
DOE Naval Reactors: Michael Kuprenas
Contractors: Glenn Steiner and Dan Yu

NRC:
Norma García Santos, Project Manager
Daniel Forsyth, Criticality and Shielding Reviewer
Patrick Koch, Structural Reviewer
David Tarantino, Materials Reviewer

michael.kuprenas Reply
Steiner and Yu are actually DOE contractors. Not sure if that makes a difference.
04/02/2020 11:30 AM

In the application, the amount of residual liquid in the reactor vessel is 50 gallons. Condition No. 8 of the DOE Certificate No. USA/9788/B(U) (DOE-NR) states that "...no more than 1,200 gallons may remain in the S5G..." The staff asked the applicant to explain the differences related to the No. of gallons because of radiolysis, which may produce gas. The applicant e 50 gallons refers to the residual liquid in the reactor vessel, which is used for the radiolysis calculation and 1,200 g amount of residual liquid in the reactor compartment package, including pipes and other reactor components.

2. Comment No. 11 - Section 2.4.3 of the SER, puncture test - Bounding accelerations and deformati s

The applicant requested to revise the language of the draft SER that discussed varying accelerations and deformati applicant's view) the language in the SER did not accurately captured the applicant's assessment. The applicant als the puncture test resulted on an opening 6 inches long and would:
a. breach the containment boundary of the package, which includes the pipelines related the reactor,

michael.kuprenas Reply
This sentence can be read in two ways regarding how accelerations and deformation relate to the puncture test, i.e., does the SER say they do and the applicant wants it revised, or the applicant wants it revised to say that they do. Suggest revising to state something like the applicant requested revision to the draft SER language that discussed varying accelerations and deformations in the puncture analysis because...

The staff changed the term confinement to containment in the SER.

The applicant pointed out that the containment boundary has a combination of full and tial penetration welds ar states that the containment boundary only has full penetration welds. The staff will revise the SER, as needed, to a applicant's comment.

michael.kuprenas Reply
Should be "full", not "fuel"
04/15/2020 6:38 AM
Type your reply...