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Sent: Friday, April 15, 2011 10:24 AM
To: Faraz, Yawar; Sircar, Madhumita; John Miller; thomasjh@comcast.net; Asadul Chowdhury; John Stamatakos; Simon Hsiung
Cc: Bartlett, Matthew
Subject: Seismic/Structural
Attachments: 03-28-11 Feedback on Seismic and Structures RAIs Responses (2).docx

Call Participants

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Call Summary for Integrated Safety Analysis, Seismic, and Structural

The integrated safety analysis (ISA) reviewer indicated that INIS needs to declare appropriate portions of their structures as items relied on for safety (IROFS). If failure of the building structure or portions of the building structure can result in high or intermediate consequence events, they must be designated as IROFS. The applicant should consider defining the IROFS boundary well enough to facilitate its change process under 10 CFR 70.72. If the applicant is concerned that the building could be considered a sole IROFS then the applicant should provide a basis for why the building does not have to be a sole IROFS.

After the ISA, the discussion turned to the seismic/structural review. The seismic/structural RAI responses should include additional basis that INIS will meet design assumptions in DOE Standard-1020-2002. In order to apply the risk reduction factor described in the Annex to Appendix D in NUREG-1520 Revision 1, the applicant must demonstrate adequate margin in their design due to the construction quality level, the quality assurance program, and management measures implicit in the DOE standard.

INIS is still developing the site soil characterization and assessing of the site soil bearing capacity. If the information is not available to support the RAI responses, bounding assumptions for the soil characterization may be used in the interim. However, the assumptions will need to be verified prior to implementation of the license, during the confirmatory inspections. The RAI responses should provide additional information on the procedures, guidance and standards that it will use to conduct the soil assessment.

INIS will submit additional information on the flood hazard assessment based on NRC Regulatory Guidance 1.59, "Design Basis Floods for Nuclear Power Plants." When responding to the RAI on snow hazards, INIS should extrapolate the existing data over a longer period of time.

The talking points provided in advance of this call are attached.