

NRR-PMDAPem Resource

From: Pickett, Douglas
Sent: Friday, March 24, 2017 1:52 PM
To: Mirzai, Mahvash (mmirzai@entergy.com)
Cc: Lukes, Robert; Wood, Kent; Danna, James; Guzman, Richard; Haagensen, Brian; Setzer, Thomas; Helton, Shana; Benner, Eric
Subject: Acceptance Review for the Indian Point Inter-Unit Fuel Transfer Amendment Application

Mahvash –

The NRR staff has completed its acceptance review of Entergy's license amendment request (LAR) of December 14, 2016, that would relax restrictions related to the inter-unit transfer of spent fuel assemblies between Indian Point Unit 3 and Unit 2 spent fuel pools. In accordance with NRR Office Instruction LIC-109, "Acceptance Review Procedures," the staff has found the application to be unacceptable with the opportunity to supplement. This is primarily due to unresolved non-conservatisms related to the Unit 2 spent fuel pool technical specifications. In order to proceed with the staff's review, the following deficiencies will need to be addressed:

- The shielded transfer canister (STC) LAR provides inadequate justification for loading spent nuclear fuel from IP3 into the STC because it does not consider the effect of fuel assembly grid spacer expansion as a physical change to the fuel during irradiation.
- The STC LAR provides no justification for loading fresh unpoisoned fuel with a maximum 5.0 w/% enrichment of U²³⁵ into the IP2 SFP Region 1-2 as it does not address the current IP2 TS 3.7.13 limitation on loading fresh unirradiated fuel into IP2 SFP Region 1-2 nor does it consider the effect on the interface with IP2 SFP Regions 1-1, 2-1, and 2-2.
- The STC LAR provides no justification that misloading one or more fresh unpoisoned fuel assemblies with a maximum 5.0 w/% enrichment of U²³⁵ into the IP2 SFP Regions 1-1, 2-1, and 2-2 would meet Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.68 regulatory requirements for sub-criticality margin.

LIC-109 recommends that a phone call be scheduled within 5 working days between your staff and the NRR staff to discuss how you plan to respond to the above deficiencies. In addition, LIC-109 recommends that you supplement your application with the information needed to address the above deficiencies within 13 working days following the phone call. That said, I also understand that Indian Point Unit 3 is currently in a refueling outage and that the necessary personnel may not be readily available to address the recommendations of the LIC. Nonetheless, please let me know when you are able to schedule a phone call with the NRR staff to discuss our concerns and inform us how you plan to proceed.

Doug

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