

PMTurkeyCOLPEm Resource

From: Comar, Manny
Sent: Wednesday, July 13, 2011 4:10 PM
To: orthen, Richard; Raymond Burski; Steve Franzone; STEVEN.HAMRICK; TurkeyCOL Resource; William Maher
Cc: Schroer, Suzanne
Subject: Draft RAI 5889 related to SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation for the Turkey Point Units 6 and 7 combined license application.
Attachments: draft RAI 5889_TPN.doc

To All,

Attached is the Draft RAI 5889 related to SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation for the Turkey Point Units 6 and 7 combined license application.

If you need a conference call to discuss the question(s) of the draft RAIs please contact me at 301-415-3863. Unless you request additional clarification we will normally issue the RAI as final within 3 to 5 days, from today.

Thanks

Manny Comar
Senior Project Manager
NRO/DNRL/NWE1
Nuclear Regulatory Commission
301-415-3863
<mailto:manny.comar@nrc.gov>

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From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:

"Schroer, Suzanne" <Suzanne.Schroer@nrc.gov>
Tracking Status: None
"orthen, Richard" <richard.orthen@fpl.com>
Tracking Status: None
"Raymond Burski" <raymond.burski@fpl.com>
Tracking Status: None
"Steve Franzone" <steve.Franzone@fpl.com>
Tracking Status: None
"STEVEN.HAMRICK" <steven.hamrick@fpl.com>
Tracking Status: None
"TurkeyCOL Resource" <TurkeyCOL.Resource@nrc.gov>
Tracking Status: None
"William Maher" <William.maher@fpl.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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Request for Additional Information No. 5889

Turkey Point Units 6 and 7
Florida P and L
Docket No. 52-040 and 52-041
SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: Chapter 19

QUESTIONS from PRA and Severe Accidents Branch (SPRA)

19-***

Part of AP1000 DCD COL Information Item 19.59.10-2 calls for the following action by COL applicants:

The Combined License applicant will confirm that the High Winds, Floods, and Other External Events analysis documented in Section 19.58 is applicable to the COL site. Further evaluation will be required if the COL site is shown to be outside of the bounds of the High Winds, Floods, and Other External Events analysis documented in Section 19.58.

To address the above, TPN COL 19.59.10-2 states:

It has been confirmed that the High Winds, Floods, and Other External Events analysis documented in Section 19.58 is applicable to the site...

Please provide supporting information or appropriate references that ensure that all of the key site-related assumptions, including, but not limited to external floods, and aviation, marine, pipeline, railroad, truck and nearby facility accidents, in the Section 19.58 External Events analyses are valid for the TPN site.

If external events have been screened from further evaluation, please (1) include a discussion of the external events screening approach used and the results of the approach, and (2) discuss why the expected core damage frequency and large release frequency of the screened events is insignificant compared to the quantitative results from other initiators. In addition, the following areas should be addressed:

- a. The criteria used to screen each event should be clearly identified. An example is the Westinghouse approach of screening at an initiating event frequency less than 1×10^{-7} per year or an associated core damage frequency (CDF) of less than 1×10^{-8} per year. These criteria should be consistent with the guidance in Standard Review Plan Section 19.0 to the effect that results of the PRA should indicate that the design represents a reduction in risk compared to operating plants.
- b. The screening should address a broad set of potential site-specific contributors, not only the events identified in APP-GW-GLR-101 (for an example, see non-mandatory Appendix 4-A of ASME RA-S). Additional events may include biological effects, temperature and drought effects on the ultimate heat sink, and turbine missiles. Any screening should be documented in the FSAR.
- c. The basis for the numerical values generated as part of the screening process should be discussed.

19-***

Table 19.58-201 provides the high winds and tornadoes PRA results. Please expand your risk results discussion for severe winds and tornadoes, including how the initiating event frequencies were calculated, related PRA assumptions, and the basis for concluding that a sufficient number of events have been observed over a large enough area to provide a representative sample.

19-***

In a letter dated August 23, 2010, regarding its requested AP1000 design certification, Westinghouse proposed a new COL information item related to site-specific features that may affect seismic margins. Please address this issue for the TPN site.