PMTurkeyCOLPEm Resource

From: Sent: To:	Comar, Manny Thursday, June 27, 2013 5:08 PM orthen, Richard; Raymond Burski; Steve Franzone; STEVEN.HAMRICK; TurkeyCOL
Cat	Resource; William Maher
Cc:	Comar, Manny
Subject:	Draft RAI 7112 related to SRP Section 11.03 - Gaseous Waste Management Systems Important to Safety for the Turkey Point Units 6 and 7 combined license application.
Attachments:	draft RAI 7112_TPN.doc

To All,

Attached is the draft of RAI No:7112, regarding section11.03 Gaseous Waste Management Systems 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 Hearing Identifier:TurkeyPoint_COL_PublicEmail Number:813

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Subject:Draft RAI 7112 related to SRP Section 11.03 - Gaseous Waste ManagementSystems Important to Safety for the Turkey Point Units 6 and 7 combined license application.Sent Date:6/27/2013 5:07:35 PMReceived Date:6/27/2013 5:07:36 PMFrom:Comar, Manny

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Request for Additional Information

Issue Date: Application Title: Turkey Point Units 6 and 7 Operating Company: Florida P and L Docket No. 52-040 and 52-041 Review Section: 11.03 - Gaseous Waste Management System Application Section: 11.3

QUESTIONS

FPL, Turkey Point Units 6&7, FSAR Tier 2, Rev. 4, Section 11.3.3 and PTN COL 11.3-1 and 11.5-3 present site-specific information and analyses in demonstrating compliance with gaseous effluent releases and dose limits to members of the public under 10 CFR 20.1301, 20.1302 and 20.1301(e) and Part 50, Appendix I design objectives and ALARA provisions. Based on a review of the information and conduct of confirmatory analyses, the staff identified inconsistencies and a need to clarify assumptions used in the analyses and results presented by the applicant. Specifically, the applicant is requested to address the following observations in updating FSAR Section 11.3.3:

- In FSAR Tier 2, Rev. 4, Table 11.3-201, the applicant should add a reference to Footnote (a) in documenting the basis that there are no milk animals (cows and goats) within 5 miles of the proposed location of Units 6&7. Similarly, in FSAR Tier 2, Rev. 4, Table 11.3-204, the applicant should add a footnote stating that there are no milk animals (cows and goats) within 5 miles of the proposed location of Units 6&7 in qualifying dose results to the maximally exposed individual.
- 2. In FSAR Tier 2, Rev. 4, Table 11.3-202, the applicant should review the population data entry for the SW Sector at the 40-50 mile radius. The population entry at that sector location would appear to be 12 instead of zero, given the information of FSAR Tier 2, Rev. 4, Figure 2.1-225.
- In FSAR Tier 2, Rev. 4, Table 11.3-203, the applicant should add a unit conversion to Footnote

 (a) for the purpose of converting a commodity trading unit (cwt) to a mass (100 lbs) for the stated vegetable production rates (kg) since this information is used in the collective population dose analysis.
- 4. In FSAR Tier 2, Rev. 4, 11.3, the applicant should add a new subsection (e.g., FSAR 11.3.6, References) in listing all references cited in FSAR Section 11.3, including those noted in FSAR Tier 2, Rev. 4, Table 11.3-203 and additional ones as requested under this RAI.
- 5. In FSAR Tier 2, Rev. 4, Table 11.3-206, the applicant should expand the details in Footnote (b) in documenting and identify the specific Units 3 & 4 annual effluent reports on which the applicant relies upon for this conclusion. Provide specific references.
- 6. In confirming that gaseous effluent concentrations are in compliance with Part 20, App. B, Table 2, Column 1 limits and the unity rule for radionuclide mixtures, the applicant did not compare the EAB atmospheric dispersion parameter of AP1000 DCD, FSAR Tier 2, Rev. 19, Section 11.3.3.2 and Table 11.3-4 (sheet 2) with the corresponding site-specific EAB atmospheric dispersion parameter presented in FSAR Tier 2, Rev. 4, Section 2.3.5. The applicant is requested to address and acknowledge this comparison in COL FSAR 11.3.3 in demonstrating compliance with Part 20, App. B, Table 2, Column 1 limits and the unity rule since the result of this analysis and regulatory compliance are dependent on site-specific meteorological data.
- In confirming that gaseous effluent concentrations are in compliance with the guidance of NUREG-0800, SRP Section 11.3 and BTP 11-5 (Postulated Radioactive Releases Due to a Waste Gas System Leak or Failure), the applicant did not compare the results of AP1000 DCD

FSAR Tier 2, Rev. 19, Section 11.3.3.4 (2nd paragraph) and the EAB atmospheric dispersion parameter of AP1000 DCD, FSAR Tier 2, Rev. 19, Section 2.1, Table 2-1 (sheet 3) with the corresponding site-specific EAB atmospheric dispersion parameter (0-2 hour X/Q) presented in COL FSAR Tier 2, Rev. 4, Section 2.3.4. The applicant is requested to address and acknowledge this comparison in COL FSAR 11.3.3 in demonstrating compliance with AP1000 DCD FSAR Tier 2, Rev. 19, Section 11.3.3.4 and SRP Section 11.3 and BTP 11-5 since the dose result of this analysis and regulatory compliance are dependent on site-specific meteorological data.

- 8. For the results presented in FSAR Tier 2, Rev. 4, Tables 11.3-204 and 11.3-205, the staff noted the following inconsistencies in attempting to confirm doses to members of the public at the stated locations of exposures and EAB. The applicant is requested to review and revise the information in the COL FSAR sections as identified below.
- i. In FSAR Tier 2, Rev. 4, Table 11.3-203, the applicant should state whether the 50-mile 2090 meat production rate used in its analysis is based on the sum of the beef cattle and broilers yearly production rates as a conservative assumption.
- The assumed EAB distances described in FSAR Tier 2, Rev. 4, Section 11.3.3.4 (top of p.11.3-2) appear inconsistent with that presented in FSAR Tier 2, Rev. 4, Table 2.3.5-207. Similarly, the listing and locations of EAB dispersion and deposition parameters appear to be inconsistently presented between FSAR Tier 2, Rev. 4, Tables 2.3.5-207 and 2.3.5-202. FSAR Tier 2, Rev. 4, Table 2.3.5-202 appears to provide an inconsistent listing of EAB sectors of interest when compared to that of Table 2.3.5-207.
- iii. Based on a review of FSAR Tier 2, Rev. 4, Table 11.3-205, it is not clear as to why doses to nearest resident and that due to the consumption of meat and vegetables are reported as beta and gamma air dose. Under Part 50, Appendix I, Section II.B.1 and RG 1.109, these numerical guides do not apply to these exposure pathways and should be reported only on a per reactor unit basis. The applicant should confirm whether the beta and gamma air dose results were multiplied by two in Table 11.3-205.
- iv. Given the information supporting the results presented in FSAR Tier 2, Rev. 4, Table 11.3-204, the staff could not reproduce the dose estimates for the stated locations of the garden and meat animals. The applicant is requested to confirm that the provided information is complete and consistent with dose results, as described in FSAR Tier 2, Section 11.3 text and tables.