

Burkhardt, Janet

From: Kalyanam, Kaly
Sent: Wednesday, June 12, 2013 5:13 PM
To: BICE, DAVID B (ANO)
Cc: Burkhardt, Janet
Subject: RAI on LAR to revise TS related to revised FHA and Adoption of TSTFs 51, 272, 286, AND 471 (TAC No. ME8348)

(SUNSI Info at the bottom)

To: D. Bice
From: N. Kalyanam

By letter dated April 4, 2102, as supplemented July 9, 2012, Entergy submitted a License Amendment Request regarding Technical Specification (TS) Change Related to Revised Fuel Assembly Drop Analysis and Adoption of TSTF-51, TSTF-272, TSTF-286, and TSTF-471 for Arkansas Nuclear One, Unit 2 (ANO-2).

During the final review phase, the NRC identified changes, as listed below, needed to complete the Safety Evaluation. These have been discussed with your staff and it was agreed that Entergy would resubmit Attachment 1, with the clarifications and/or responses as requested by this Request for Additional Information and all the TS pages again for completeness. Your staff also agreed to an as fast a response as possible. We also request that the "clean" TS pages be sent soon.

REQUEST FOR ADDITIONAL INFORMATION

ARKANSAS NUCLEAR ONE, UNIT 2

LICENSE AMENDMENT REQUEST TO REVISE TECHNICAL SPECIFICATION

RELATED TO REVISED FHA AND ADOPTION OF TSTFs 51, 272, 286, AND 471

DOCKET NO. 50-368

During the final review phase, the NRC identified changes, as listed below, needed to complete the review process. These have been discussed with your staff and it was agreed that Entergy would resubmit Attachment 1, with the clarifications and/or responses as requested by this Request for Additional Information and all the TS pages again for completeness.

1. The Limiting Condition for Operation (LCO) and Applicability of standard TS 3.9.1, *Boron Concentration*, can apply to both the refueling canal and refueling cavity while operating in Mode 6; however, the licensee's submittal lists only the refueling canal. The licensee should add reference to the refueling cavity or provide justification for this difference.

2. ANO TS 3.9.2, associated with required source range neutron flux monitors while operating in Mode 6, continues to include the term “core alterations” in Surveillance Requirement (SR) 4.9.2.c. TSTF-51 and TSTF-471 remove the definition of “core alterations” and the use of this term throughout the TSs. The licensee should remove this term for SR 4.9.2.
3. The phrase “in the reactor vessel / refueling canal” is added at the end of the Action associated with ANO TS 3.8.2.2, AC Distribution – Shutdown; however, TSTF-286 does not add this phrase. Please provide justification for this additional phrase or delete the phrase in its entirety.
4. ANO TS Applicability statements in TSs 3.8.1.2, 3.8.2.2, and 3.8.2.4, do not contain reference to the movement of irradiated fuel, but refer only to Modes 5 and 6. However, the Actions associated with these ANO TSs require cessation of fuel movement. Attachment 1, Page 12, of the Reference 3 supplemental letter provides information related to this difference, but is unclear. Please provide further explanation for this difference or add the appropriate reference to fuel movement in the respective TS Applicability statements.
5. ANO-2 TS 3.9.1 states, in part, that the boron concentration of the “reactor coolant” and refueling canal be maintained (emphasis added). For consistency, consider revising “reactor coolant” to “reactor coolant system.”
6. On page 24 of 41, Attachment 1, of the July 9, 2012, letter, the second sentence of the “summary” paragraph refers to TSTF-286. However, this section of the letter appears to be associated with TSTF-471. Please state whether the reference to TSTF-286 is correct, and if so, provide an explanation regarding TSTF-286 application to this section of the letter.
7. Difference Item 2 on Page 17, Attachment 1, of the July 9, 2012, letter states that the TS Bases inserts for TSTF-272 would not be adopted. The inserts should be adopted or further explanation provided, justifying the omission of these inserts.
8. The TS Table 3.3-6 excerpt markup on Page 14, Attachment 1, of the July 9, 2012, letter does not illustrate replacing the word “and” with the word “the” as is the case in the associated TS markup and clean pages contained in Attachments 2 and 3 of the subject letter. Please correct the excerpt markup accordingly.
9. On page 5 of 41, Attachment 1, of the July 9, 2012, letter, a parenthetical statement in the center of the pages states the “and” in Note 5 of Table 4.3-3 is changed to “or” to be consistent with the related CREVS TS 3.7.6.1 Applicability. However, the TS excerpt markup on this page, nor the TS markup and clean pages provided in Attachments 2 and 3 of the submittal contain this word replacement. Please correct this discrepancy.
10. The Application as well as the Supplement, starting on Page 4 of 14, lists the ANO-2 TS that get changed by the FHA. However, TS 3.8.1.2 not listed. Please correct this discrepancy.

Plant: Arkansas Nuclear One, Unit 2
Docket No.: 50/368
To: D. Bice
From: N. Kalyanam

Subject: RAI for the ANO-2 LAR Re. FHA and Adoption of 4 TSTFs

TAC No.: ME8348

SUNSI Review Done: Yes.

Publicly Available, Normal Release, Non-sensitive,