PMSTPCOL PEmails

From: Eudy, Michael
Sent: Friday, September 09, 2011 12:36 PM
To: Chappell, Coley
Cc: Wunder, George; STPCOL
Subject: New Draft RAI (6010) for NINA Chp 12
Attachments: RAI 6010.doc

Importance: High

Coley,

Here is the RAI we discussed yesterday, please let me know if you need a call with technical staff to discuss, or if you are ready for us to send the letter. Thanks.

Michael A. Eudy - Project Manager
U.S. Nuclear Regulatory Commission
NRO/DNRL/NGE1&2
301-415-3104

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Subject: New Draft RAI (6010) for NINA Chp 12
Sent Date: 9/9/2011 12:36:16 PM
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From: Eudy, Michael

Created By: Michael.Eudy@nrc.gov

Recipients:
"Wunder, George" <George.Wunder@nrc.gov>
Tracking Status: None
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"Chappell, Coley" <ccchappell@STPEGS.COM>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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MESSAGE	308	9/9/2011 12:36:21 PM
RAI 6010.doc	32762	

Options
Priority: High
Return Notification: No
Reply Requested: No
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Request for Additional Information No. 6010 Revision 5

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 12.02 - Radiation Sources
Application Section: Section 12.02 - Radiation Sources

QUESTIONS for Health Physics Branch (CHPB)

12.02-22

Tier 1 Subsection 2.5.6, Fuel Storage Facility, along with several Tier 2 sections of the STP 3 & 4 FSAR, states that the spent fuel racks have a minimum storage capacity of 270% of the reactor core (2354 bundles). In a letter dated July 19, 2011 (ML11202A26), the applicant identified STP DEP T1 2.5-1 as a new Tier 1 departure. In this departure, the applicant eliminated the need for a new fuel storage area, and instead will place new fuel directly into the spent fuel pool following receipt inspection. Regulatory Guide 1.206, Section C.I.12.2.1 “Contained Sources”, states that the applicant is to provide the models, parameters, and bases for all values used to calculate source magnitudes, for normal and accident conditions. In the STP 3 & 4 COLA, the applicant’s FSAR Chapter 12.2 spent fuel pool dose rate calculations are currently based on a spent fuel pool storage capacity of 270% of the reactor core load.

Please provide information that demonstrates to the staff that the departure has not changed the results of the staff's review of these sections as follows:

a.) Since new fuel will be stored in the spent fuel pool, please specify how this will affect the source term for the STP 3 & 4 spent fuel pool.

b.) Please specify if the inclusion of new fuel into the spent fuel pool will cause spent fuel to be relocated closer to the walls of the spent fuel pool, thereby increasing the occupational dose rates or radiation zones to areas surrounding the spent fuel pool, as described in NUREG-1503 “Final Safety Analysis Report Related to the Certification of the Advance Boiling Water Reactor Design”.

c.) Please revise the STP 3 & 4 COLA FSAR to reflect any updates that fully describe the impact on the STP site specific design accordingly.