

January 7, 2014

Mr. Scott Head, Manager
Regulatory Affairs
Nuclear Innovation North America, LLC
122 West Way, Suite 405
Lake Jackson, TX 77566

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 441 RELATED TO
SPENT FUEL POOL RACK TECHNICAL REPORT (HI-2135462) FOR THE
NUCLEAR INNOVATION NORTH AMERICA'S SOUTH TEXAS PROJECT
UNITS 3 AND 4 COMBINED LICENSE APPLICATION

Dear Mr. Head

By letter dated September 20, 2007, South Texas Project (STP) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within **30** days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

S. Head

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If you have any questions or comments concerning this matter, I can be reached at 301-415-5207 or by e-mail at Jessica.Umana@nrc.gov or you may contact Tom Tai at 301-415-8484 or Tom.Tai@nrc.gov.

Sincerely,

/RA/

Jessica M. Umana, Project Manager
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 7374

Enclosure:
Request for Additional Information

cc: Richard Bense
William Mookhoek

S. Head

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-5207 or by e-mail at Jessica.Umana@nrc.gov or you may contact Tom Tai at 301-415-8484 or Tom.Tai@nrc.gov.

Sincerely,

/RA/

Jessica M. Umana, Project Manager
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 7274

Enclosure:
Request for Additional Information

cc: Richard Bense
William Mookhoek

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NRO-002

OFFICE	MCB:TR	MCB:BC	LB3:PM	LB3:LPM	LB3:BC
NAME	ESastre*	DTerao*	JUmana*	TTai*	RJenkins, CPatel* for
DATE	12/23/2013	12/24/2013	12/24/2013	01/07/2014	12/31/2013

***Approval captured electronically in the electronic RAI system.**

OFFICIAL RECORD COPY

Request for Additional Information 441

Issue Date: 01/17/2014

Application Title: South Texas Project Units 3 and 4 - Dockets 52-012 and 52-013

Operating Company: South Texas Project Nuclear Operating Co

Docket No. 52-012 and 52-013

Review Section: 09.01.02 - New and Spent Fuel Storage

Application Section: FSAR Section 9.1.2

QUESTIONS

09.01.02-67

Holtec Report HI-2135462, Section 3.5, "In-Service Surveillance of Neutron Absorber," contains Table 3.5.1, which describes the recommended coupon withdrawal schedule for the Metamic surveillance program. In this table after Coupon 8 is withdrawn, the applicant recommends that the next coupon be withdrawn for testing 12 years later. Metamic has been previously approved by the Commission for use on operating reactors' spent fuel pool. However, the staff has not approved a surveillance program with more than 10 years between coupon testing. Therefore, the staff requests that the applicant provide an explanation on the reasoning behind their recommended coupon measurement schedule.

09.01.02-68

Holtec Report No. HI-2135462, Section 3.4, "Compatibility with Environment," mentions that the spent fuel pool environment will not corrode the neutron absorbing material, Metamic, and for this reason, will not release aluminum debris to the pool. However, the spent fuel pool needs to be monitored for aluminum and other chemical substances that could be damaging to the fuel. Therefore, the staff requests that the applicant provide additional information on the monitoring of the spent fuel pool water.