

August 16, 2012

Mr. Mark McBurnett, Senior Vice President  
Oversight & Regulatory Affairs  
Nuclear Innovation North America, LLC  
4000 Avenue F  
Bay City, TX 77414

SUBJECT: REGULATORY AUDIT SUMMARY OF SOUTH TEXAS PROJECT, UNITS 3  
AND 4 COMBINED LICENSE APPLICATION – CHAPTER 9.1.2, SPENT FUEL  
RACK STRUCTURAL ANALYSES

Dear Mr. McBurnett:

By letter dated September 20, 2007, STP Nuclear Operating Company submitted to the U.S. Nuclear Regulatory Commission (NRC) a combined license (COL) application to construct and operate two reactor units (Units 3 and 4) based on the U.S. Advanced Boiling-Water Reactor (ABWR) Design Certification at the South Texas Project Nuclear Power Plant. On January 24, 2011, Nuclear Innovation North America (NINA) became the primary applicant for the license for these two units.

The NRC Office of New Reactors (NRO) is reviewing the South Texas Project (STP) Units 3 and 4 COL application that incorporates by reference the ABWR Design Control Document. As part of this review, the NRO Structural Engineering Branch 2 conducted an audit of the documentation supporting the spent fuel rack structural analysis of the STP COL application in Chapter 9.1.2. The audit was conducted at Westinghouse in Rockville, Maryland, from January 17 - 20, 2012. The NRC staff followed the guidance in NRO Office Instruction NRO-REG-108, "Regulatory Audits," in performing this audit. Enclosure 1 is the Spent Fuel Racks Summary Report, Enclosure 2 is the Spent Fuel Rack Audit Plan, Enclosure 3 are the Requests for Information (RAIs) to support the audit activities, Enclosure 4 is a list of the NRC staff and NINA team participating in the audit, Enclosure 5 is the Spent Fuel Rack NRC Audit Action Item List and Enclosure 6 is the Spent Fuel Rack BNL RAI Status Table.

Mr. McBurnett

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Please contact Rocky D. Foster at (301) 415-5787 or [Rocky.Foster@nrc.gov](mailto:Rocky.Foster@nrc.gov) if you have any questions related to the audit.

Sincerely,

**/RA/**

Ronaldo Jenkins, Chief  
Licensing Branch 3  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos.: 52-012  
52-013

Enclosures: As stated

cc w/encls: See next page

Mr. McBurnett

- 2 -

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(Revised 06/14/2012)

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