July 20, 2011

MEMORANDUM TO: Mark Tonacci, Chief
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: Tom Tai, Senior Project Manager ***/RA/***
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: JULY 27, 2011, AUDIT OF NUCLEAR INNOVATION NORTH AMERICA, LLC, COMBINED LICENSE APPLICATION SEISMIC ANALYSES

By letter dated September 20, 2007, STP Nuclear Operating Company submitted a Combined License Application (COLA) for two new units designated South Texas Project (STP) Units 3 and 4. On January 24, 2011, Nuclear Innovation North America became the primary applicant for the license for these two units. The staff has identified a need to audit the seismic analyses that support STP Units 3 and 4 COLA. The audit will take place at the Sargent and Lundy office in Chicago, Illinois on July 27, 2011. A copy of the audit plan is enclosed.

Docket Nos.: 52-012
52-013

Enclosure:
As stated

cc w/encl: See next page

CONTACT: Tom Tai, NRO/DNRL
301-415-8484

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ADAMS Accession No: ML112000177 NRO-002

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DATE	07/19/11	07/20/11	07/19/11	07/19/11	07/20/11

OFFICIAL RECORD COPY

AUDIT PLAN TO REVIEW SEISMIC ANALYSES
SOUTH TEXAS PROJECT UNITS 3 AND 4 COMBINED LICENSE APPLICATION

APPLICANT:	Nuclear Innovation North America, LLC
APPLICANT CONTACT:	Scott Head John Price Bill Mookhoek, et al.
DATE/TIME:	July 27, 2011 8:30 a.m. - 5:00 p.m.
LOCATION:	55 E. Monroe St. Chicago, IL 60603
REVIEWERS:	Brian Thomas (NRO/DE/SEB2) Manas Chakravorty (NRC/DE/SEB2) Mansour Tabatabaie (NRC Consultant)

BACKGROUND

On January 20, 2007, STP Nuclear Operating Company submitted to the U.S. Nuclear Regulatory Commission (NRC), a Combined License Application (COLA) Final Safety Analysis Report (FSAR) to construct and operate two additional units, South Texas Project (STP), Units 3 and 4 based on the U.S. Advanced Boiling Water Reactor (ABWR) Certified Design Control Documents at the South Texas Project Nuclear Power Plant site located in the County of Matagorda near Bay City, Texas. On January 24, 2011, Nuclear Innovation North America (NINA) became the primary applicant for the license for these two units.

The NRC staff is reviewing the STP Units 3 and 4 combined license (COL) application that incorporates by reference the design certification for the ABWR. Due to the technical issue of SASSI identified by the U.S. Department of Energy (DOE), supporting analysis has been prepared by NINA's staff to address this technical issue. The Structural Engineering Branch 2 proposes to conduct an audit of this analysis in support of the review of Chapters 3.7 and 3.8. The NRC staff will perform the audit at the Sargent & Lundy office in Chicago, Illinois. The NRC staff will follow the guidance in Office of New Reactors (NRO), Office Instruction NRO-REG-108, "Regulatory Audits," in performing this audit.

PURPOSE AND APPROACH

The purpose of this audit is to review analysis performed to address the technical issue of SASSI that was identified by DOE. This effort is to support the seismic design and analyses for the STP Units 3 and 4 COL application. Any significant findings during the audit will be documented in the audit report and requests for additional information may be issued for scheduled action.

AUDIT ACTIVITIES AND SCHEDULE

The NRC staff will conduct the audit on July 27, 2011. The NRC staff may request an ad-hoc extension of the audit if deemed necessary. Such an extension will be requested before the meeting is adjourned on July 27, 2011, by the NRC staff responsible for the audit.

Following the audit, the NRC staff responsible for the audit will assemble and prepare a final audit report. The final report will be made available to all contributors.

The audit agenda is provided as Enclosure 2.

Please contact Tom Tai at 301-415-8484 or at Tom.Tai@NRC.Gov if you have any questions related to the audit.

Proposed Agenda
U. S. Nuclear Regulatory Commission
South Texas Project Combined License Application
Seismic Analyses Audit
July 27, 2011

Wednesday, July 27, 2011

8:30 a.m. - 9:00 a.m.	Entrance/ Introduction	NRC/NINA
9:00 a.m. - 12:00 p.m.	Review the status of RAI 03.07.01-29 (DOE Letter)	NRC
	Review Results of DGFOSV	
	Review Results of UHS/RSWPH	
12:00 p.m. - 1:00 p.m.	Lunch	
1:00 p.m. - 3:00 p.m.	Review Results of SSSI Analysis for Lateral Soil pressure	NRC
3:00 p.m. – 4:30 p.m.	Review Modified Subtraction Method Vs Direct method Comparison	
4:30 p.m. - 5:00 p.m.	Adjoin	NRC/NINA

Enclosure 2

cc:

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