

April 9, 2014

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

FROM: Jessica M. Umaña, Project Manager **/RA/**
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: AUDIT PLAN FOR NUCLEAR INNOVATION NORTH AMERICA, LLC,
COMBINED LICENSE APPLICATION CHAPTER 9, SECTIONS 9.1.1
AND 9.1.2, REGULATORY AUDIT OF SPENT FUEL RACK

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, LLC (NINA) became the primary applicant for the license for these two units.

The staff issued Request for Additional Information (RAI) Letter Nos. 439, 440, and 441 Related to Standard Review Plan Section 09.01.02, on November 26, and December 27, 2013, and, January 7, 2014, respectively, related to the spent fuel racks. The staff has identified a need to audit supporting documents for RAI responses. The audit will take place at NEI's NPOC and at the Westinghouse Twinbrook Offices in Rockville, Maryland, April 8 - 10, respectively. A copy of the audit plan is enclosed.

Docket Nos.: 52-012, 52-013

Enclosure: As stated

cc w/encl: See next page

CONTACT: Jessica M. Umaña, NRO/DNRL
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Docket Nos.: 52-01, 52-013

Enclosure: As stated

cc w/encl: See next page

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NRO-002

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**Audit Plan to Review the Spent Fuel Rack Design Analysis
South Texas Project Units 3 and 4 Combined License Application**

APPLICANT: Nuclear Innovation North America, LLC

APPLICANT CONTACT: Scott Head
Richard Bense

DATE: April 8 - 10, 2014

LOCATION: NEI NPOC Office
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Westinghouse Office
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PROJECT MANAGER: Jessica M. Umaña (NRO/DNRL/LB3)

AUDIT OBJECTIVE

The objective of the planned audit is to continue to review detailed reports and supporting charts, spreadsheets, calculations and analysis that will aid in resolving the technical issues concerning the spent fuel pool racks as outlined in Section 9.1.2, "Spent Fuel Storage," in Revision 10 of the Final Safety Analysis Report, and the proposed responses to NRC's Request for Additional Information (RAI) 09.01.02-33 through 09.01.02-68. The audit is a continuation of the audit that took place at Holtec in Marlton, NJ, March 3 – 7, 2014.

REQUESTED MATERIAL FOR AUDIT (Based on items from the audit in March 2014 and draft RAI responses)

Documentation including detailed reports and supporting charts, spreadsheets, calculations and analysis to support the applicant's position in the response to RAI 09.01.02-33 through 09.02.01-66 related to the following topics:

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The staff will look at the following during this audit:

1. Calculation for the deep drop analyses and the results using LSDYNA including calculation of incident velocity for deep drop over pedestal.
2. Review validation for the five lump mass fuel assembly model.
3. Review results of sensitivity runs for rack to rack top springs.
4. Calculation for the stresses in the cell walls due to fuel assembly impact.
5. Provide feedback and discuss the draft RAI responses received since the last audit.
6. Visit the action item list from last audit and verify closure of all items identified as requiring follow-up action including review of supporting calculations used for closing follow-up actions.
7. Review of the criticality calculations and related supporting documents to address the results of the deep drop accident.

cc:

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