

PMSTPCOL PEmails

From: Joseph, Stacy
Sent: Monday, June 20, 2011 8:10 AM
To: 'Price, John E'
Cc: STPCOL
Subject: RE: Section 3.7 & 3.8 Actions - Updated June 16, 2011
Attachments: Audit Plan.pdf

John,

See attached Audit Plan for Wednesday.

Stacy Joseph

From: Price, John E [<mailto:jeprice@STPEGS.COM>]
Sent: Saturday, June 18, 2011 9:03 AM
To: Tai, Tom
Cc: Hawkins, Kimberly; Chakravorty, Manas; Chakrabarti, Samir; Joseph, Stacy; Eudy, Michael; Wunder, George
Subject: Section 3.7 & 3.8 Actions - Updated June 16, 2011

Tom,

The attached document, *3.7 & 3.8 Punch List 061611*, provides scope and status for all known actions required for FSAR Sections 3.7 and 3.8. This document will be used on our weekly telephone conference.

The attachment contains the following:

- Sheets 1 through 12, dated June 16, 2011, show the status of actions for FSAR Sections 3.7 and 3.8.
- Sheets 13 and 19, dated May 31, 2011, address Clarification Items provided by NRC. No new Clarification Items have been identified since the May Audit.

During the weekly phone call on Wednesday, June 9, neither NRC nor NINA made changes to the Punch List. Subsequent to the phone call, the NINA actions for the following Punch List Items were closed:

- 68
- 71
- 74
- 75
- 77
- 78
- 98

Please do not hesitate to contact me with any questions or clarifications.

John E. Price

Licensing Engineer - STP Units 3 & 4

972.754.8221 (cell)

Hearing Identifier: SouthTexas34Public_EX
Email Number: 2901

Mail Envelope Properties (BBC4D3C29CD0E64E9FD6CE1AF26D84D588298E876E)

Subject: RE: Section 3.7 & 3.8 Actions - Updated June 16, 2011
Sent Date: 6/20/2011 8:09:56 AM
Received Date: 6/20/2011 8:10:06 AM
From: Joseph, Stacy

Created By: Stacy.Joseph@nrc.gov

Recipients:
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"Price, John E" <jeprice@STPEGS.COM>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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MESSAGE	1291	6/20/2011 8:10:06 AM
Audit Plan.pdf	139417	

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Reply Requested: No
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Expiration Date:
Recipients Received:

June 15, 2011

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

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

/RA/

SUBJECT: AUDIT PLAN OF NUCLEAR INNOVATION NORTH AMERICA, LLC,
COMBINED LICENSE APPLICATION CHAPTERS 3.9.1 AND 3.9.2 -
REGULATORY AUDIT OF COMPUTER PROGRAM ACSTIC-2

By letter dated January 26, 2011, Nuclear Innovation North America, LLC (NINA), submitted Revision 5 of the South Texas Project (STP) Units 3 and 4 Combined License Application (COLA). The staff has identified a need to audit the verification and validation (V&V) of computer program ACSTIC-2. The audit will take place at the Westinghouse facility in Rockville, Maryland, on June 22, 2011. A copy of the audit plan is enclosed.

Docket Nos.: 52-012
52-013

Enclosure:
As stated

cc w/encls: See next page

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

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

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

SUBJECT: AUDIT PLAN OF NUCLEAR INNOVATION NORTH AMERICA, LLC,
COMBINED LICENSE APPLICATION CHAPTERS 3.9.1 AND 3.9.2 -
REGULATORY AUDIT OF COMPUTER PROGRAM ACSTIC-2

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Docket Nos.: 52-012
52-013

Enclosures:
As stated

cc w/encls: See next page

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

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NRO-002

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NAME	TTai	BAbeywickrama	JWu	JDHerrity	GWunder
DATE	06/10/2011	06/13/2011	06/15/2011	06/15/2011	06/15/2011

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**AUDIT PLAN OF SOUTH TEXAS PROJECT
REGULATORY AUDIT OF COMPUTER PROGRAM ACSTIC-2**

APPLICANT: Nuclear Innovation North America, LLC

APPLICANT CONTACT: Scott Head
John Price
Bill Mookhoek, et. al.

DATE/TIME: June 22, 2011 - 9:00 a.m. to 4:30 p.m.

LOCATION: Westinghouse Office
12300 Twinbrook Parkway
Rockville, MD 20852

REVIEWERS: John Wu (NRO/DE/EMB2)

PROJECT MANAGER: Tom Tai (NRO/DNRL/BWR)

BACKGROUND

On September 20, 2007, STP Nuclear Operating Company (STPNOC) 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 (Units 3 and 4) based on the U.S. Advanced Boiling Water Reactor (ABWR) Certified Design Control Documents (DCD) at the South Texas Project Nuclear Power Plant (STPNPP) 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 South Texas Project (STP) Units 3 and 4 combined license (COL) application that incorporates by reference the design certification for the ABWR. In the review of Chapter 3.9.2, the staff discovered that ACSTIC-2 has been used to support the analyses to address flow-induced vibration of reactor internal components. This computer program is not referenced in the ABWR DCD. Standard Review Plan Section 3.9.1 "Special Topics for Mechanical Components" provides guidance that the staff may request the submission of the Code-required Design Documents (such as Design Transients, Computer Codes, and other related material or portion thereof), in order to establish that the design criteria, analytical methods, and functional capability satisfy the guidance provided by SRP Section 3.9.1. This includes verification of computer programs that the design information described in the DCD or FSAR was adequately translated into documentation for each of the components designed to ASME Code Section III, Class 1, 2, and 3 requirements.

The NRC staff will follow the guidance in Office of New Reactors (NRO) Office Instruction NRO-REG-108, "Regulatory Audits," in performing this audit.

Enclosure 1

PURPOSE AND APPROACH

The purpose of the audit is to confirm that the STP component design and qualification are being performed using NRC reviewed/approved computer programs consistent with the applicable SRP sections such that the NRC staff can reach a safety finding for the STP Units 3 and 4 COL application.

The staff will review the V&V packages developed for ACSTIC-2 to justify the use of this computer code to support the analytical effort in the project.

AUDIT ACTIVITIES AND SCHEDULE

The reviewers will focus the audit on the areas shown in the list below if available:

1. Review ACSTIC-2 method and theoretical formulations
2. Review program flow chart logic
3. Review ACSTIC-2 V&V benchmark package
4. Review user's manual input, output data and the program limitations
5. Review QA procedure for control and maintenance of ACSTIC-2

The staff will identify further information that is necessary for the applicant to submit for the staff to reach a safety determination for the STP Units 3 and 4 COL application. This might result in requests for additional information (RAIs).

The NRC staff will conduct the audit in the Westinghouse office in Rockville, MD on June 22, 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 June 22, 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 90 days after the completion of the audit. The final report will be made available to all contributors.

The audit agenda is provided in Enclosure A. 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
Nuclear Innovation North America, LLC
South Texas Project Combined License Application
ACSTIC-2 Verification and Validation Audit
June 22, 2011**

Wednesday, June 22, 2011: Audit – Proprietary

9:00 am - 9:15 am	Entrance / Introduction
9:15 am - 4:00 pm	ACSTIC-2 V&V Documentation
4:00 pm – 4:30 pm	Exit Meeting

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NRO COVER PAGE

DOCUMENT NAME: C:\MyFiles\Checkout\June 22 2011 EMB Audit Plan IOM for ACSTIC2.docx

ORIGINATOR: T. Tai

SUBJECT: AUDIT PLAN OF NUCLEAR INNOVATION NORTH AMERICA, LLC, COMBINED LICENSE APPLICATION CHAPTERS 3.9.1 AND 3.9.2 - REGULATORY AUDIT OF COMPUTER PROGRAM ACSTIC-2

SECRETARY: C. Nagel

DATE: June 17, 2011

●●● ROUTING LIST ●●●

	NAME	DATE
1.	T. Tai	/ /11
2.	B. Abeywickrama	/ /11
3.	J. Wu	/ /11
4.	J. D. Herrity	/ /11
5.	G. Wunder	/ /11
6.	Secretary	/ /11

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