July 7, 2010

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: AUGUST 2, 2010, AUDIT OF SOUTH TEXAS NUCLEAR OPERATING COMPANY COMBINED LICENSE APPLICATION OPERATIONAL PROGRAMS AND EQUIPMENT QUALIFICATION PROGRAM

By letter dated September 24, 2008, South Texas Nuclear Operating Company (STPNOC, applicant) submitted Revision 2 of the South Texas Project (STP) Units 3 and 4 Combined License Application (COLA). The staff has identified a need to audit the operational programs and equipment qualification program that supports STP Units 3 and 4 COLA. The audit will take place at the Westinghouse facilities in Rockville, Maryland on August 2, 2010. A copy of the audit plan is enclosed.

Docket Nos.: 52-012
52-013

Enclosure:
As stated

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

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ADAMS Accession No: **NRO-002**

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DATE	7/7/10	7/7/10	7/7/10	7/7/10	7/7/10-

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AUDIT PLAN TO REVIEW OPERATIONAL PROGRAM AND REQUEST FOR ADDITIONAL INFORMATION RESPONSES - SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY UNITS 3 AND 4 COMBINED LICENSE APPLICATION

APPLICANT:	South Texas Project Nuclear Operating Company
APPLICANT CONTACT:	Scott Head Bill Mookhoek, et. al.
TIME:	August 2, 2010 9:00 a.m. to 5:00 p.m.
LOCATION:	South Texas Project Nuclear Operating Company Westinghouse Offices, Rockville, Maryland
REVIEWERS:	Thomas Scarbrough (NRO/DE/CIB2) Jim Strnisha, (NRO/DE/CIB2) Amar Pal (NRO/DE/EEB) Peter Kang (NRO/DE/EEB) Tom Tai (NRO/DNRL/BWR)

BACKGROUND

On September 20, 2007, South Texas Project 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.

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. The Component Integrity, Performance, and Testing Branch 2 (CIB2) conducted an audit on November 10 and 11, 2009 in support of this review. The audit identified several open items requiring actions by STP. CIB2, coordinated with Electrical Engineering Branch (EEB), will perform a follow-up audit in the STPNOC/Westinghouse office in Rockville, Maryland on August 2, 2010. The CIB2 and EEB staff will follow the guidance in the 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 information related to operational programs, inservice test program, procurement specifications, and the STP Units 3 and 4 equipment qualification program.

AUDIT ACTIVITIES AND SCHEDULE

The NRC staff will conduct the audit on August 2, 2010. 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 August 2, 2010 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 in Enclosure 1. Enclosure 2 is a summary of the topics of interest. 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
Operational Program Audit
South Texas Project Nuclear Operating Company

Monday, August 2, 2010 – Proprietary Audit

9:00 a.m. - 9:15 a.m.	Entrance / Introduction	NRC/STPNOC
9:15 a.m. - 12:00 p.m.	EQ Program and Procurement Spec Review	NRC
12:00 p.m. - 1:00 p.m.	Lunch	
1:00 p.m. – 3:00 p.m.	Continue with EQP and Procurement Spec Review	NRC
3:00 p.m. - 3:15 p.m.	NRC Caucus	NRC
3:15 p.m. - 4:15 p.m.	Break	
4:15 p.m. – 5:00 p.m.	Comments	NRC/STPNOC

Enclosure 1

Audit Scope

1. South Texas Project (STP) Operational Programs for Inservice Testing (IST), Motor Operated Valve (MOV) Testing, and Environmental Qualification.

   During the audit, the Component, Integrity, Performance and Testing Branch staff will evaluate the description of the IST, MOV Testing, and EQ operational programs using the guidance in Commission Paper SECY-05-0197 and Regulatory Guide 1.206. During the November 10-11, 2009 audit, the staff had reviewed the implementation of the Advanced Boiling Water Reactor provisions for the IST, MOV Testing, and EQ operational programs, including a review of selected design and procurement specifications (see below). The staff will continue with the review of these specifications. The audit will also include the review of documents associated with environmental qualification listed below.

   The specifications reviewed during the November 2009 audit are:

   1. U7-SITE-M-SPEC-ASME-VLV-7342 (Revision C, October 22, 2009), "Safety Related Large Bore Valves ASME Section III, Div. 1 Class 2 & 3 Design Specification"
   2. U7-SITE-M-SPEC-VLV-7342 (Revision C, October 26, 2009), "Large Bore Valves Safety Related Specification"
   3. U7-SITE-J-SPEC-DESN-7566 (Revision 0, October 28, 2009), "Safety-Related Motor Operated Valve Actuator – General Specification"
   4. U7-SITE-J-SPEC-DESN-7567 (DRAFT Revision E1, October 23, 2009), "Air Operated Valve Actuators – General Specification"
   5. U7-HPCF-M-SPEC-ASME-PUMP-7388 (Revision D, October 28, 2009), "High Pressure Core Flooder Pumps ASME Section III Div. 1 Class 2 Design Specification"
   6. U7-HPCF-M-SPEC-PUMP-7388 (Revision D, October 28, 2009), "High Pressure Core Flooder Pumps – Safety-Related Specification"
   7. U7-SITE-C-SPEC-DESN-7560 (Revision 0, August 31, 2009), "Seismic Performance Requirements for Components and Equipment - Generic Specification"
   8. U7-SITE-K-SPEC-DESN-7561 (Revision 0, October 28, 2009), "Environmental Qualification Requirements for Components and Equipment – Generic Specification"

Documents associated with equipment qualification:

1. List of Environmentally Qualified equipment for STP 3 and 4.
2. Overview of how STP equipment qualification complies with NEDE-24326-1-P.
3. Description of Operational program for electrical/I&C equipment.
4. Electrical equipment qualification data package for the following:
   a. Containment electrical penetrations
   b. Cables and splices (medium voltage)
   c. Safety-related solenoid valves
   d. Temperature detectors
   e. Safety-related motors
   f. Radiation and neutron monitors
   g. Electronic transmitters.
   h. Battery