

June 30, 2010

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

FROM: Stacy Joseph, Project Manager */RA/*
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: JULY 12, 2010, AUDIT OF SOUTH TEXAS NUCLEAR OPERATING
COMPANY COMBINED LICENSE APPLICATION FUEL ASSEMBLY
PRESSURE DROP CALCULATIONS

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 fuel assembly pressure drop calculations used to support STP Units 3 and 4 COLA. The audit will take place at the Westinghouse facilities in Rockville, Maryland on July 12, 2010. A copy of the audit plan is enclosed.

Docket Nos.: 52-012
52-013

Enclosure:
As stated

CONTACT: Stacy Joseph, NRO/DNRL
301-415-2849

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ADAMS Accession No: ML101410423

NRO-002

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NAME	SJoseph	BAbeywickrama (w/edits)	JGilmer	JDonoghue	GWunder
DATE	06/29/2010	6/30/10	06/29/2010	06/29/2010	06/30/2010

OFFICIAL RECORD COPY

**SOUTH TEXAS PROJECT UNITS 3 AND 4 COMBINED LICENSE APPLICATION
FUEL ASSEMBLY PRESSURE DROP CALCULATION
AUDIT PLAN**

A. Background

To ensure that the Emergency Core Cooling Systems designed for the South Texas Project (STP) Units 3 and 4 plants meet the requirements of General Design Criterion 10 and Regulatory Guide (RG) 1.82 Revision 3, the applicant has agreed for a COL license condition to submit an evaluation as part of the license amendment confirming that the fuel for the initial fuel load satisfies the downstream effects of containment debris on the reactor fuel. The applicant has prepared a calculation for determining the acceptance criteria for the proposed license condition. In response to Request for Additional Information (RAI) 04.04-1, the applicant stated that the proposed acceptance criteria for the license condition will be that the pressure drop across the fuel assembly inlet is less than a value determined through analysis to provide adequate long term cooling. The applicant has made the subject analysis available for audit by the staff. The purpose of the audit is for the staff to review the supporting STP documentation for the fuel assembly pressure drop calculations in order to confirm that the downstream fuel effects license condition acceptance criteria is appropriate.

B. Regulatory Audit Bases

This regulatory audit is based on Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, Appendix A, General Design Criterion 10 and supported by Regulatory Guide 1.82 Revision 3.

C. Regulatory Audit Scope or Methodology

The area of focus for the audit is the STP Units 3 and 4 fuel assembly pressure drop calculations and supporting documentation.

D. Audit Team

The following are the audit team members:

James Gilmer, NRO Audit Team Lead
George, Thomas, NRO Reactor Systems
Stacy Joseph, NRO Licensing

F. Logistics

Date: July 12, 2010
Time: 1:00 p.m. – 4:00 p.m.
Location: Westinghouse
Washington Operations
12300 Twinbrook Parkway, Suite 330
Rockville, MD 20852
Tel. 301-881-7040/7042

G. Deliverables

The audit team will issue a regulatory audit summary within 90 days after completing the audit.

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cc:

(Revised 05/11/2010)

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