

September 2, 2010

MEMORANDUM TO: Edwin M. Hackett, Executive Director
Advisory Committee on Reactor Safeguards

FROM: David B. Matthews, Director */RA – F. Akstulewicz for/*
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: ADVANCED FINAL SAFETY EVALUATION FOR CHAPTER 18
“HUMAN FACTORS ENGINEERING” REGARDING THE SOUTH
TEXAS PROJECT UNITS 3 AND 4 COMBINED LICENSE
APPLICATION REVIEW

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing an Advanced Final Safety Evaluation (FSE) for each chapter of the South Texas Project Combined License (COL) application submitted by STP Nuclear Operating Company (STPNOC) on September 20, 2007.

The staff has performed a detailed review of the Final Safety Analysis Report for Chapter 18 and has prepared Advanced FSE (available under the Agencywide Documents Access and Management System (ADAMS) Accession Number ML102380198). The Advanced FSE is being provided to support the upcoming meeting of the Advisory Committee on Reactor Safeguards (ACRS) Advanced Boiling Water Reactor (ABWR) Design-Centered Subcommittee, scheduled to be held on October 6, 2010. The ACRS Full Committee meeting will be held at a future date. The staff concludes that the Advanced FSE does not contain any information for which exemption from public disclosure has been sought or approved. However, the NRC will withhold the Advanced FSE from public disclosure for ten calendar days to allow STPNOC the opportunity to verify the staff's conclusion that the Advanced FSE contains no such exempt information or any factual errors. Therefore, the staff requests that the ACRS withhold the Advanced FSE from public disclosure until the information has been released publicly in ADAMS.

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For Chapter 18, the staff plans on focusing their presentation on the following specific categories of interest:

- STD DEP 7.5-1: Post-Accident Monitory (drywell pressure) – Changes made to Advanced FSE - Related to ACRS action item
- STD Departure 10.4.5 Feed and condensate system configuration – Changes made to Advanced FSE to address system configuration changes
- STP COL Item 18.6 Remote Shutdown Design Evaluation - Related to ACRS action item
- ACRS action items

The staff will inform the ACRS immediately if STPNOC requests that any of the information in the Advanced FSE be withheld from public disclosure.

Docket Nos.: 52-0012 and 52-0013

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Docket Nos.: 52-0012 and 52-0013

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