

November 28, 2007

MEMORANDUM TO: Michael R. Gartman, Chief
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing

FROM: Kimberly A. Gruss, Chief /RA/
Component Integrity Performance and Testing Branch 2
Division of Engineering

SUBJECT: REVISED ACCEPTANCE REVIEW RESULTS FOR THE SOUTH
TEXAS PROJECT COMBINED LICENSE APPLICATION, FSAR
SECTION 5.3

The Component Integrity, Performance and Testing Branch, 1 and 2 (CIB 1&2) has revised the conclusion of its acceptance review for FSAR Section 5.3 of the South Texas Project (STP) Combined License application (COLA) submitted by NRG Energy.

By letter dated November 13, 2007, General Electric-Hitachi submitted NEDO-33315 "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel Material Surveillance Program," Revision 1 in support of COLA activities for STP. With the receipt of this information, FSAR Section 5.3.1.6.1 "Compliance with Reactor Vessel Material Surveillance Program Requirements" and FSAR Section 5.3.4.2 "Materials and Surveillance Capsule" of the STP COLA are no longer considered incomplete, and CIB 1&2 is ready to commence the STP COLA detailed technical review on those sections. A revised table showing the results of the acceptance review for these FSAR sections is included in Enclosure 1. Please note that CIB 1&2's detailed technical review of the STP COL Section 5.3 is dependent on the staff's review of NEDO-33315, titled "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel (RPV) Material Surveillance Program," Revision 1.

Enclosure: 1. Revised Table 1 of the Safety Analysis Report Review Guide

CONTACT: Kimberly Gruss, CIB2 Chief
301-415-0564

A/8

November 28, 2007

MEMORANDUM TO: Michael R. Gartman, Chief
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing

FROM: Kimberly A. Gruss, Chief */RA/*
Component Integrity Performance and Testing Branch 2
Division of Engineering

SUBJECT: REVISED ACCEPTANCE REVIEW RESULTS FOR THE SOUTH
TEXAS PROJECT COMBINED LICENSE APPLICATION, FSAR
SECTION 5.3

The Component Integrity, Performance and Testing Branch, 1 and 2 (CIB 1&2) has revised the conclusion of its acceptance review for FSAR Section 5.3 of the South Texas Project (STP) Combined License application (COLA) submitted by NRG Energy.

By letter dated November 13, 2007, General Electric-Hitachi submitted NEDO-33315 "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel Material Surveillance Program," Revision 1 in support of COLA activities for STP. With the receipt of this information, FSAR Section 5.3.1.6.1 "Compliance with Reactor Vessel Material Surveillance Program Requirements" and FSAR Section 5.3.4.2 "Materials and Surveillance Capsule" of the STP COLA are no longer considered incomplete, and CIB 1&2 is ready to commence the STP COLA detailed technical review on those sections. A revised table showing the results of the acceptance review for these FSAR sections is included in Enclosure 1. Please note that CIB 1&2's detailed technical review of the STP COL Section 5.3 is dependent on the staff's review of NEDO-33315, titled "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel (RPV) Material Surveillance Program," Revision 1.

Enclosure: 1. Revised Table 1 of the Safety Analysis Report Review Guide

CONTACT: Kimberly Gruss, CIB2 Chief
301-415-0564

DISTRIBUTION:
NRO/DE R/F
GWunder DTerao MTonacci ABlack

ADAMS Accession No.:

OFFICE	NRO/DE/CIB1	NRO/DE/CIB2
NAME	Allison Black	Kimberly Gruss
DATE	11/28/2007	11/28/2007

OFFICIAL RECORD COPY

Table 1: Revised Safety Analysis Report Acceptance Review Results for NRG Energy South Texas Project ABWR COL

Relevant COL Section: 5.3.1.6.1 and 5.3.4.2

Technical Branch: CIB1

Technical Reviewer: A. Black

Branch Chief: D. Terao

SRP Section: 5.3.1

Date: 11/16/07

Does the section address the applicable regulations: Yes/No

Are there any technical deficiencies, changes in planning assumptions, or dependencies on concurrent reviews? Yes/No, Identify specific review area/topic in table below.

1. Review Area/Topic*	Completeness and Technical Sufficiency Which Form Basis for Acceptability for Docketing			Changes to Planning Assumptions to be Considered in Development of Baseline Review Schedule			Review Dependencies Among Concurrent Reviews			
	2. Is the section technically sufficient for this review area/topic? (yes/no)** by regulation (refer to RG 1.206, Section C.IV.1)? (Yes/No)	3. Is COL section technically sufficient for this review area/topic? (yes/no)**	4. Can the technical deficiency be resolved through the RAI process? (yes/no)***	5. If no, for either completeness or technical sufficiency, identify deficiency(ies). This information will be needed for technical review.	6. Is the identified technical deficiency related to a risk-significant SSC)? (yes/no)****	7. Are the pre-baseline review schedule and estimated staff-hours appropriate? (yes/no)	8. For each no, identify the change (or basis for change).	9. Identify the total review time in staff-hours*****	10. Can the review of the area/topic be completed without the completion of a concurrent review? (yes/no)	11. For each no, identify which application (DCD or COLA) and section.
Materials Specifications	Y	Y	N/A		N/A	Y			Y	
Special Processes Used for Manufacturing and Fabrication	Y	Y	N/A		N/A	Y			Y	
Special Methods for NDE	Y	Y	N/A		N/A	Y			Y	

Special Controls for Ferritic and Austenitic Stainless Steels	Y	Y	N/A		N/A	Y		Y	
Fracture Toughness	Y	Y	N/A		N/A	Y		Y	
Material Surveillance, COL Info Item 5.5	Y	N	Y				Y	N	Review of NEDO-33315, Rev 1 must be completed first
Reactor Vessel Fasteners ¹	Y	Y	N/A		N/A	Y		Y	
STD DEP 5.3-1 Reactor Vessel Material Surveillance Program	Y	N	Y				Y	N	Review of NEDO-33315, Rev 1 must be completed first

1. Reactor Vessel Fasteners will be reviewed by Mohammed Abid.