

November 7, 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: ACCEPTANCE REVIEW RESULTS FOR THE SOUTH TEXAS
PROJECT COMBINED LICENSE APPLICATION

The Component Integrity, Performance and Testing Branch, 1 and 2 (CIB 1&2) has completed the acceptance review of the South Texas Project (STP) Combined License application (COLA) submitted by NRG Energy. This review covered the following COLA FSAR Sections for which CIB 1&2 has primary review responsibilities and, in addition, applicable interface documentation referenced in the FSAR:

- COLA Part 9
- FSAR Section 3.5.1.3
- FSAR Section 3.6.3
- FSAR Section 3.9.6
- FSAR Section 3.11
- FSAR Section 3.13S
- FSAR Section 4.5.1
- FSAR Section 4.5.2
- FSAR Section 5.2.1
- FSAR Section 5.2.3
- FSAR Section 5.2.4
- FSAR Section 5.3
- FSAR Section 5.4.8
- FSAR Section 6.1.1
- FSAR Section 6.1.2
- FSAR Section 6.5.2
- FSAR Section 6.5.5
- FSAR Section 6.5.4
- FSAR Section 6.6
- FSAR Section 9.1.2
- FSAR Section 9.1.3
- FSAR Section 9.3.2
- FSAR Section 10.2.3
- FSAR Section 10.3.6
- FSAR Section 10.4.6

Completeness and Sufficiency

Based on this review, I conclude that, in general, the application contains the information required by regulations, and that the submitted information is technically sufficient for CIB 1&2 to commence the STP COLA detailed technical review, except in the area discussed below. The results of the acceptance review for CIB 1&2's review of the above FSAR Sections and COLA Part 9 are documented in Enclosure 1.

The following information is needed for the completeness of the COLA:

- (1) 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"

B/12

COL Information Item 5.5 in ABWR DCD Section 5.3.4.2 "Materials and Surveillance Capsule," states that the following will be identified in the COLA: (1) the specific materials in each surveillance capsule; (2) the capsule lead factors; (3) the withdrawal schedule for each surveillance capsule; (4) the neutron fluence to be received by each capsule at the time of its withdrawal; and (5) the vessel end-of-life peak neutron fluence. The COL application references topical report NEDO-33315P, titled "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel (RPV) Material Surveillance Program," dated April 30, 2007. This report is referenced in both STD DEP 5.3-1 and in Section 5.3.4.2 of the FSAR, which addresses COL Information Item 5.5. However, in a letter dated September 4, 2007, General Electric-Hitachi requested return of the document. Therefore, there is no information for the staff to review in the COLA for the reactor vessel materials surveillance program at this time.

In addition, CIB 1&2 concludes that FSAR Sections 3.9.6 and 3.11 in the STP COLA contain some of the information required by regulations and RG 1.206. There are significant gaps in the submittal that could adversely affect the conduct of an effective and efficient technical review in the areas related to inservice testing, motor-operated valves and environmental qualification and the operating plant issues associated with potential adverse flow effects.

Schedule

The estimated level of effort for the detailed technical review of the STP COLA sections by CIB 1&2 is generally consistent with the current pre-baseline EPM model. Therefore, the resource plan that currently exists in EPM may be retained, except for those sections noted below.

The estimated effort for the detailed technical review of the following STP COLA FSAR/SRP Sections by CIB 1&2 varies materially from the pre-baseline model in EPM. For each section, I have provided an updated resource plan for these tasks in Enclosure 2. The resource plan includes the new estimated level of effort, the resources assigned, and the expected start date. Table cells that contain no information designate scheduling information that does not need to be changed. Revisions to the resource plans have been submitted for the following FSAR/SRP Section reviews:

- FSAR Section 3.6.3 (SRP 3.6.3)
- FSAR Sections 3.9.6 (SRP 3.9.6)
- FSAR Section 5.2.1 (SRP 5.2.1.1 and 5.2.1.2)
- FSAR Section 5.4.8 (SRP 5.4.8)
- FSAR Section 6.1.1 (SRP 6.1.1)
- FSAR Section 6.1.2 (SRP 6.1.2)
- SRP Section 6.2.7
- FSAR Section 6.5.5 (SRP 6.5.5)
- FSAR Section 9.1.2 (SRP 9.1.2)
- FSAR Section 9.1.3 (SRP 9.1.3)
- FSAR Section 9.3.2 (SRP 9.3.2)
- FSAR Section 10.3.6 (SRP 10.3.6)
- FSAR Section 10.4.6 (SRP 10.4.6)
- COLA Part 9 (SRP 14.3.3)

For those FSAR sections that essentially incorporate the related ABWR certification sections by reference (i.e., Sections 6.5.5 and 9.3.2), the staff identified Out of Scope or P1 (PSER/RAI) to allot time for NRO to develop the appropriate safety evaluation for those sections. Related to SRP Section 6.2.7, there was no corresponding information in the COL application, and there was no corresponding information in the DCD. However, there is no apparent safety significant issues associated with this section as we know it at this time. So, although we are documenting the information for this section as incomplete, we believe we can

address the technical aspects of this SRP section through the RAI process. This issue does not represent an acceptance review issue.

Review Dependencies

CIB 1&2's detailed technical review of the STP COL Section 5.3 is dependent on GE-H's submittal and the staff's review of NEDO-33315P, titled "Advanced Boiling Water Reactor (ABWR) Reactor Pressure Vessel (RPV) Material Surveillance Program." The review of SRP Section 3.9.6 for the STP COL is also dependent upon completion of the staff's ongoing review of GE-H topical reports: NEDE-33299, "Advanced Boiling Water Reactor (ABWR) With Alternate RCIC Turbine-Pump Design," and NEDO-33316, "Advanced Boiling Water Reactor (ABWR) Vibration Assessment Program in compliance with The United States Nuclear Regulatory Commission Regulatory Guide 1.20." Engineering Mechanics Branch 2 has the primary review responsibility for the vibration assessment program information in NEDO-33316.

The following staff contributed to this acceptance review:

M. Abid (Section 3.13S)

A. Black (Section 5.3.1)

R. Davis (Sections 4.5.1, 4.5.2, 5.2.3, and 10.3.6)

Y. Diaz-Castillo (Sections 5.4.8, 6.1.2, 6.5.4, 9.1.2, 9.1.3 and 10.4.6)

G. Georgiev (Section 3.6.3)

K. Hoffman (Section 5.2.4)

G. Makar (Sections 6.1.1, and 10.2.3)

N. Ray (Sections 5.3.2 and 5.3.3)

E. Sastre-Fuente (Sections 6.5.2, 6.5.5 and 9.3.2)

T. Scarbrough (Sections 3.11, 3.9.6 and 5.2.1)

T. Steingass (Sections 3.5.1.3, 6.6 and 10.2.2)

J. Strnisha (COL Part 9)

Enclosure: 1. Table 1's of the Safety Analysis Report Review Guide
2. Table 2 CIB 1&2 Resource Plan Revisions for NRG Energy STP COL

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

address the technical aspects of this SRP section through the RAI process. This issue does not represent an acceptance review issue.

Review Dependencies

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The following staff contributed to this acceptance review:

- M. Abid (Section 3.13S)
- A. Black (Section 5.3.1)
- R. Davis (Sections 4.5.1, 4.5.2, 5.2.3, and 10.3.6)
- Y. Diaz-Castillo (Sections 5.4.8, 6.1.2, 6.5.4, 9.1.2, 9.1.3 and 10.4.6)
- G. Georgiev (Section 3.6.3)
- K. Hoffman (Section 5.2.4)
- G. Makar (Sections 6.1.1, and 10.2.3)
- N. Ray (Sections 5.3.2 and 5.3.3)
- E. Sastre-Fuente (Sections 6.5.2, 6.5.5 and 9.3.2)
- T. Scarbrough (Sections 3.11, 3.9.6 and 5.2.1)
- T. Steingass (Sections 3.5.1.3, 6.6 and 10.2.2)
- J. Strnisha (COL Part 9)

- Enclosure:
1. Table 1's of the Safety Analysis Report Review Guide
 2. Table 2 CIB 1&2 Resource Plan Revisions for NRG Energy STP COL

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

DISTRIBUTION:

NRO/DE R/F

GWunder	DTerao	MTonacci	DHabib
MAbid	ABlack	RDavis	YDiaz-Castillo
GGeorgiev	KHoffman	GMakar	NRay
ESastre-Fuente	TScarbrough	TSteingass	JStrnisha

ADAMS Accession No.:ML073111130

OFFICE	NRO/DE/CIB1	NRO/DE/CIB2
NAME	Allison Black	Kimberly Gruss
DATE	11/07/07	11/07/07

OFFICIAL RECORD COPY

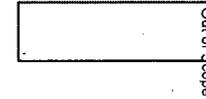
Table 1: Safety Analysis Report Acceptance Review Results for NRG Energy South Texas Project ABWR COL

Relevant COL Section: 3.5.1.1.1.3 Technical Branch: CIB2

Branch Chief: K Gruss

SRP Section: 3.5.1.3

Date: 10/21/07



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 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.
Turbine Orientation STD DEP 3.5-1	Y	N	Y	Turbine orientation is specified in departure as unfavorable. No justification provided.	Y	Y			Y	
Probability calculations of turbine missile generation	Y	N	Y	Applicant did not submit probability calculations	Y	Y			Y	
Turbine Maintenance Program	Y	N	Y	Need general description of turbine maintenance program and probability calculations	Y	Y			Y	

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

COL Section: 3.6.3

Technical Branch: CIB2

Branch Chief: K Gruss

SRP Section: 3.6.3

Date: 10/26/07

Out of Scope

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. Does the section address the applicable regulations (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.
Leak Before Break	LBB Methodology for pipe break postulation will not be used for STP ABWR plant design. All hours for Phase 1 and 2 should be deleted.									

Out of Scope

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

Relevant COL Sections: 3.9

Technical Branch: CIB2

Branch Chief: K. Gruss

SRP Section: 3.9.6.1 and 2 Date: 11/05/07

Out of Scope

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. Does section address applicable regulations (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.
Other Equip	Y	Y	N/A			Y			Y	
Pumps	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	N	COLA FSAR Section 3.9 NEDE-33299 Alternate RCIC Turbine-Pump
Valves	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
MOVs	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
POVs	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
Check Valves	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
PIV Leak Test	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	

CIV Leak Test	Y	Y	N/A	N/A		Y			Y	
SRVs	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
Manual Valves	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
Explosive Valve	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
Dynamic Restra	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
Code Relief	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
Potential Adverse Flow Effects	Y	N	Note 2	Site-specific issue	Y	N	RG 1.206 Info and NEDO-33316, SE needed	Note 3	N	COLA FSAR 3.9 NEDO-33316 (Vibration Assess.)
COL Info Item 3.29, IST Program	Y	N	Y	Not "fully described"	Y	N	RG 1.206 Info needed	Note 1	Y	
STP DEP T1 2.1-1, SRV Setpoints	Y	N	Y	Note 4						
STP DEP T1 2.4-3, RCIC Turbine/Pump	Y	N	Y	Note 4						
STP DEP 6.2-1, Containment Purge Valve	Y	N	Y	Note 4						
STP DEP 10.4-5, Cond and FW System	Y	N	Y	Note 4						
STP DEP 7.3-6, SRV Position	Y	N	Y	Note 4						
STP DEP 7.3-16, Testing SRV Solenoid Valve	Y	N	Y	Note 4						
STP DEP 9.5-2, Lower Drywell Flooder Plug Valve	Y	N	Y	Note 4						

[Redacted] Out of Scope

[Redacted] Out of Scope

[Redacted] Out of Scope

Note 2: Schedule risk exists that consideration of potential adverse flow effects might not be resolved through RAI process within the review schedule.

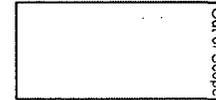
Note 3: Completion of SRP 3.9.6.1 and 3.9.6.2 with regard to potential adverse flow effects dependent on obtaining sufficient information per RG 1.206 and on preparation of safety evaluation on GE-H Topical Report NEDO-33316 to reach reasonable assurance finding in STP 3/4 COLA SER.

Note 4: Departures to be reviewed during Detailed Technical Review with possible RAIs.

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

Relevant COL Sections: 3.11 ME Technical Branch: CIB2 (Primary/Secondary)
 Branch Chief: K. Gruss SRP Section: 3.11

Date: 11/05/07



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 COL section technically sufficient for this review area/topic? (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.
Process	Y	N	Y	Not "fully described"	Y	Y			Y	
Mech Equip	Y	N	Y	Not "fully described"	Y	Y			Y	
Nonmetallics	Y	N	Y	Not "fully described"	Y	Y			Y	
Envir/Parameter	Y	N	Y	Not "fully described"	Y	Y			Y	
Nonmetal cap.	Y	N	Y	Not "fully described"	Y	Y			Y	
Environ Effects	Y	N	Y	Not "fully described"	Y	Y			Y	
COL Info Item 3.40, EQ Document	Y	N	Y	Not "fully described"	Y	Y			Y	

COL Info Item 3.41, EQ Records	Y	N	Y	Not "fully described"	Y	Y		Y	
COL Info Item 3.42, Surv and Experience Info	Y	N	Y	Not "fully described"	Y	Y		Y	
STP DEP 3I-1, EQ Cond (Cont Spray)	Y	N	Y	Note 1					
STP DEP 3I-2, EQ Radiation	Y	N	Y	Note 1					

Note 1: Departures to be reviewed during Detailed Technical Review with possible RAIs.

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

Relevant COL Section: 3.13S

Technical Branch: CIB1

Branch Chief: D. Terao

SRP Section: 3.13 Threaded Fasteners

Date: 10/15/07

Out of Scope

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.

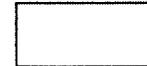
1. Review Area/Topic*	Completeness and Technical Sufficiency Which Form Basis for Acceptability for Docketing				Changes to Planning Assumptions to be Considered in Development of Baseline Review Schedule			Review Dependencies Among Concurrent Reviews		
	2. Is regulation (refer to RG 1.206, Section C.IV.1)? (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 Selection	Y	Y	N/A		Y	Y			Y	
Special Materials Fabrication Processes and Special Controls	Y	Y	N/A		Y	Y			Y	
Fracture Toughness Requirements	Y	Y	N/A		Y	Y			Y	

Note 1 – Threaded fasteners information is also reviewed per SRP Section 5.2.3.

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

Relevant COL Section: 4.5.1 & 4.5.2

Technical Branch: CIB2



Branch Chief: K Gruss

SRP Section: 4.5.1 & 4.5.2

Date: 10/10/07

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. Does section address applicable regulations (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.
STD DEP 4.5-1 adds AMS specs for Alloy X-750	Y	N	Y	Provide justification for using AMS Specification	N	Y			Y	
CRD Inspection Program 4.5.3	Y	N	Y	Provide discussion of CRD inspection Program in STP COL	Y	Y			Y	
STP DEP 4.5-1 adds types 304 and 316 stainless steels	Y	N	Y	Discuss use of 304 and 316 SS spec in lieu of 304L and 316L	N	Y			Y	

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

Relevant COL Sections: 5.2.1

Technical Branch: CIB2 (Primary)

Out of Scope

Branch Chief: SS

SRP Section: 5.2.1.1 and 2

Date: 11/05/07

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. 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.
5.2.1.1 50.55a Compliance	Y	Y	Y	Sufficient for acceptance review	N/A	N	P2 hours in baseline insufficient	Note 4	Y	
5.2.1.2 Code Cases	Y	Y	Y	Sufficient for acceptance review	N/A	N	P2 hours in baseline insufficient	Note 5	Y	

Out of Scope

Out of Scope

Out of Scope

hours. P1 schedule of 1/7/08 to 1/9/08 insufficient. P2 schedule of 2/7/08 to 2/11/08 insufficient.

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

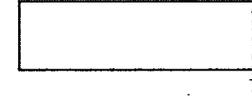
COL Section: 5.2.3

Technical Branch: CIB2

Branch Chief: K Gruss

SRP Section: 5.2.3

Date: 10/10/07



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 COL section technically sufficient for this review area/ topic? (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.
Compatibility of Reactor Coolant	Y	N	Y	Provide discussion of Chem controls of Reactor Coolant	Y	Y			Y	
Threaded Fasteners ¹	Y	Y	Y	Provide discussion of threaded fasteners	Y	Y			Y	
STP DEP 4.5-1 "Reactor Materials"	Y	N	Y	Provide discussion of departures to Table 5.2-4 not covered in STD DEP 4.5-1	N	Y			Y	

1. Will be reviewed by Mohammed Abid.

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

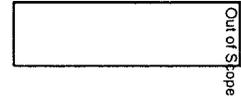
Relevant COL Section: 5.2.4

Technical Branch: CIB2

Branch Chief: K. Gruss

SRP Section: 5.2.4

Date: 10/22/07



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 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.
System Boundary	Y	Y	N/A		N/A	Y			Y	
Accessibility	Y	Y	N/A		N/A	Y			Y	
Exam Cat & Methods	Y	Y	N/A		N/A	Y			Y	
Insp Intervals	Y	Y	N/A		N/A	Y			Y	
Eval of Exam Results	Y	Y	N/A		N/A	Y			Y	
Pressure Tests	Y	Y	N/A		N/A	Y			Y	

Code Exemptions	Y	Y	N/A		N/A	Y	
Code Cases	Y	Y	N/A		N/A	Y	
Augmented ISI	Y	Y	N/A		N/A	Y	
Relief Requests	Y	Y	N/A		N/A	Y	
COL INFO Item 5.2.6.2 Plant Specific ISI/PSI	Y	N	Y	The following items are not addressed; how the PSI program meets NB-5280(it does discuss the Section XI requirements for PSI), RT to supplement UT or use of RT for PSI/ISI or PDI qualification of RT, Limitations of 10 CFR 50.55a(b)(2), Commitment/milestone for NDE procedures to be available, commitment to use consistent NDE methods during PSI & ISI, expansion of exams due to service failures, successive exams and evaluation of crack like indications found by RT. ISI Program code in effect one year prior to fuel loading not addressed(I believe this is a timing issue the application says it will use the code in effect one year prior to issuance of the operating license as the CFR did prior to implementation of the latest Part 52)	N	Y	

Y	
Y	
Y	
Y	
Y	

STD DEP 5.2-2 PSI/ISI NDE of Reactor Coolant Pressure Boundary	Y	N	Y	The DEP justification does not match the DEP.	N	Y	
STD DEP 5A- 1, Delete Appendix complying with RG 1.150	Y	Y	N/A		N/A	Y	

Y	
Y	

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

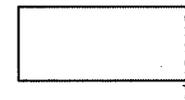
Relevant COL Section: 5.3.1.6.1 and 5.3.4.2

Technical Branch: CIB1

Branch Chief: D. Terao

SRP Section: 5.3.1

Date: 10/22/07



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			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*****	Review Dependencies Among Concurrent Reviews	
	2. Does the section address the applicable regulations 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)***						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	N	N	N	Section references NEDO-33315P, which does not exist		Y		N	Review of NEDO-33315P 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	N	N	N	Section references NEDO-33315P, which does not exist		Y		N	Review of NEDO-33315P must be completed first

Out of Scope

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

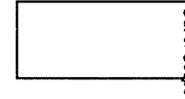
Relevant COL Section: 5.3

Technical Branch: CIB2

Branch Chief: K. Gruss

SRP Section: 5.3.2

Date: 10/16/07



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 COL section technically sufficient for this review area/ topic? (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.
P-T Limit Curves (COL Info Item 5.3.2-1)	Y	N	Y		N/A	Y			Y	

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

Relevant COL Section: 5.3
 Branch Chief: K. Gruss

Technical Branch: CIB2
 SRP Section: 5.3.3

Technical Reviewer:
 Date: 10/16/07

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		
	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.
Reactor Vessel Integrity (Design, USE, Materials, Fabrication, Inspection, Shipping and Installation, and Operating Conditions)	Y	Y	N/A		N/A	Y			Y	

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

Relevant COL Section: 5.4.8.2

Technical Branch: CIB2

Branch Chief: Kimberly Gruss

SRP Section: 5.4.8

Date: 10/16/2007

Out of Scope

Does the section address the applicable regulations: Yes

Are there any technical deficiencies, changes in planning assumptions, or dependencies on concurrent reviews? 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. Does the section address the applicable regulations 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.
Compliance with latest water chemistry guidelines	Y	Y	N/A	N/A	N/A	N				
STD DEP 5.4-1 System Description	Y	Y	N/A	N/A	N/A	N	above.	hrs	Y	

Out of Scope

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

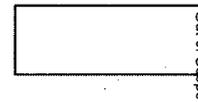
Relevant COL Section: 6.1.1.1.1

Technical Branch: CIB1

Branch Chief: D. Terao

SRP Section: 6.1.1

Date: 10/12/07



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. Does the section address the applicable regulations (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.
Material specifications and fabrication Compatibility	Y	N	Y	COM 6.1-1 does not include all items missing from DCD Table 6.1-1	N	N	Out of Scope	Out of Scope		

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

Relevant COL Section: 6.1.3

Technical Branch: CIB2

Branch Chief: Kimberly Gruss

SRP Section: 6.1.2

Date: 10/16/2007

Out of Scope

Does the section address the applicable regulations: Yes

Are there any technical deficiencies, changes in planning assumptions, or dependencies on concurrent reviews? 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 COL section technically sufficient for this review area/ topic? (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.
COL Info Item 6.1.3.1 Protective Coatings and Organic Materials	Y	Y	N/A		N/A	N		80 hrs	Y	

Out of Scope

Table 1: Safety Analysis Report Acceptance Review Results for STP ABWR COLA

Relevant COL Section: 6.2.7

Technical Branch: CIB2

Branch Chief: K. Gruss

SRP Section: 6.2.7

Fracture Prevention of Containment

Date: 10/16/07

Out of Scope

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)**	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.
Fracture Prevention of Containment	N	N	Yes	No information provided	N/A	Y	No information provided		Y	Information needed on 6.2.7 from COL applicant

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

Relevant COL Section: 6.5 Technical Branch: CIB2

Branch Chief: K. Gruss

SRP Section: 6.5.2

Date: 10/9/07

Out of Scope

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 COL section technically sufficient for this review area/ topic? (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.
Containment Spray	SRP section 6.5.2 does not apply to ABWR plants because the containment spray is not credited as a fission product removal system.									

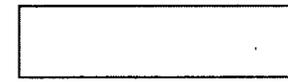
Out of Scope

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

Relevant COL Section: 6.5.4
 Branch Chief: Kimberly Gruss

Technical Branch: CIB2
 SRP Section: 6.5.4

Date: 10/16/2007



Does the section address the applicable regulations: N/A

Are there any technical deficiencies, changes in planning assumptions, or dependencies on concurrent reviews? N/A, Identify specific review area/topic in table below.

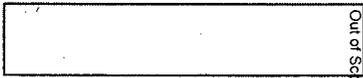
1. Review Area/Topic*	Completeness and Technical Sufficiency Which Form Basis for Acceptability for Docketing				Changes to Planning Assumptions to be Considered in Development of Baseline Review Schedule			Review Dependencies Among Concurrent Reviews		
	2. Is regulation (refer to RG 1.206, Section C.IV.1)? (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.
Ice Condenser	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N/A	N/A
SRP Section 6.5.4 does not apply because South Texas ABWR does not use any kind of an ice condenser feature as a fission product control system.										

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

Relevant COL Section: 6.5 Technical Branch: CIB2

Branch Chief: K. Gruss SRP Section: 6.5.5

Date: 10/9/07



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 COL section technically sufficient for this review area/topic? (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.
Pressure Suppression Pool	Y	Y	N/A	Info incorporated by reference						

Out of Scope

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

Relevant COL Section: 6.6

Technical Branch: CIB2

Branch Chief: K Gruss

SRP Section: 6.6

Date: 10/21/07



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)**	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.
System boundary	Y	Y	N/A		N/A	Y			Y	
Accessibility	Y	Y	N/A		N/A	Y			Y	
Exam Cat and methods	Y	Y	N/A		N/A	Y			Y	
Insp Intervals	Y	Y	N/A		N/A	Y			Y	
Eval of Exam Results	Y	Y	N/A		N/A	Y			Y	
Pressure Tests	Y	Y	N/A		N/A	Y			Y	
Code Exemptions	Y	Y	N/A		N/A	Y			Y	
Code Cases	Y	Y	N/A		N/A	Y			Y	

Augmented ISI	Y	Y	N/A		N/A	Y			Y	
Relief Requests	Y	Y	N/A		N/A	Y			Y	
PSI and ISI of Class 2 and 3 Components and Piping (STD DEP 6.6-1)	Y	N	Y	The following items are not addressed; how the PSI program meets NB-5280(it does discuss the Section XI requirements for PSI), RT to supplement UT or use of RT for PSI/ISI or PDI qualification of RT, Limitations of 10 CFR 50.55a(b)(2), Commitment/milestone for NDE procedures to be available, commitment to use consistent NDE methods during PSI & ISI, expansion of exams due to service failures, successive exams and evaluation of crack like indications found by RT. ISI Program code in effect one year prior to fuel loading not addressed(I believe this is a timing issue the application says it will use the code in effect one year prior to issuance of the operating license as the CFR did prior to implementation of the latest Part 52)	N	Y			Y	

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

Relevant COL Section: 9.1.2
Castillo

Technical Branch: CIB2

Out of Scope

Branch Chief: Kimberly Gruss

SRP Section: 9.1.2

Date: 10/16/2007

Does the section address the applicable regulations: Yes

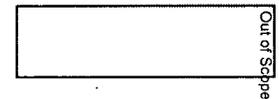
Are there any technical deficiencies, changes in planning assumptions, or dependencies on concurrent reviews? No, Identify specific review area/topic in table below.

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 COL section technically sufficient for this review area/topic? (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.
Neutron Absorber Material coupon program and material compatibility (RG 1.206)	Y	Y	N/A		N/A	N		Out of Scope		

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

Relevant COL Section: 9.1.3 Technical Branch: CIB2
 Branch Chief: Kimberly Gruss SRP Section: 9.1.3

Date: 10/16/2007



Does the section address the applicable regulations: Yes

Are there any technical deficiencies, changes in planning assumptions, or dependencies on concurrent reviews? 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 COL section technically sufficient for this review area/ topic? (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.
Changes and new information regarding water chemistry	Y	Y	N/A		N/A	N	Out of Scope			

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

Relevant COL Section: 9.3.2 Technical Branch: CIB2

Branch Chief: K. Gruss SRP Section: 9.3.2

Date: 10/9/07

Out of Scope

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 COL section technically sufficient for this review area/ topic? (yes/no)** (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.
Process and Post-Accident Sampling Systems	Y	Y	N/A	Info incorporated			Out of Scope			

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

Relevant COL Section: 10.2.3

Technical Branch: CIB1

Branch Chief: D. Terao

SRP Section: 10.2.3

Date: 10/12/07

Out of Scope

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 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.
Material Selection	Y	Y	N/A	N/A	N	Y	N/A		Y	
Fracture Toughness	Y	Y	N/A	N/A	N	Y	N/A		Y	

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

Relevant COL Sections: 10.2.3.4, 10.2.3.5, 10.2.3.6

Technical Branch: CIB2 (Primary/Secondary)

Technical Reviewer:

Branch Chief: K. Gruss

SRP Section: 10.2.3

Date: 10/21/07

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 COL section technically sufficient for this review area/topic? (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.
PSI/ISI Program STD DEP 10.2-1	Y	Y	N/A		N	Y			Y	
Drawings of design features	Y	N	Y	Submit drawings or provide ITAAC	N	Y			Y	
Design Analysis	Y	N	Y	Submit analysis or provide ITAAC	N	Y			Y	
General description of design to eliminate degradation mechanisms	Y	N	Y	Need to address corrosion mechanisms mitigation through design features	N	Y			Y	

Relevant COL Section: 10.3.6

Technical Branch: CIB2

Branch Chief: K Gruss

SRP Section: 10.3.6

Date: 10/11/07

Out of Scope

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 COL section technically sufficient for this review area/ topic? (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.
FAC	Y	N	Y	Design attributes of Class 2 and non-ASME Code Class systems that mitigate FAC and discussion of FAC Program	N	N				

Out of Scope

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

COL Section: 10.4.6.1.2, 10.4.6.2.1, 10.4.6.2.2, 10.4.6.2.3, 10.4.6.5

Technical Branch: CIB2 (Primary) Technical Reviewer:

Branch Chief: Kimberly Gruss SRP Section: 10.4.6

Date: 10/16/2007

Does the section address the applicable regulations: Yes

Are there any technical deficiencies, changes in planning assumptions, or dependencies on concurrent reviews? 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 COL section technically sufficient for this review area/topic? (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.
Material compatibility, demineralizer analysis and water purity requirements (RG 1.206)	Y	Y	N/A		N/A	N				
Changes and new information regarding general and component description, and system operation	Y	Y	N/A		N/A	N	Changes already identified above in 1 st row.			
STD DEP 10.4-4 Power generation design basis	Y	Y	N/A		N/A	N	Changes already identified above in 1 st row.			

Table 2: CIB 1&2 Resource Plan Revisions for NRG Energy South Texas Project ABWR COL

Task Changes					Resource Changes			
SER Section No.	SER Section Title	Task *	Concurrent Dependent Review Activity **	Revised Start Date	Revised Finish Date	Name of Resource	Change Type ***	Revised Hours
3.9.6.1	Functional Design, Qualification, and Inservice Testing Programs for Pumps, Valves, and Dynamic Restraints (IST Program)	SER Phase 1 SER Phase 2	GE-H NEDE-33299 (RCIC Turbine-Pump) GE-H NEDO-33316 (Vibration Assessment)			Out of Scope	Revised	Out of Scope
3.9.6.2	Functional Design, Qualification, and Inservice Testing Programs for Pumps, Valves, and Dynamic Restraints (Pump and Valve Design)	SER Phase 1 SER Phase 2	GE-H NEDE-33299 (RCIC Turbine-Pump) GE-H NEDO-33316 (Vibration Assessment)				Revised	
5.2.1.1	10 CFR 50.55a Compliance	SER Phase 1 SER Phase 2		Phase 2: 6-3-08 Note 2			Revised	
5.2.1.2	ASME Code Cases	SER Phase 1 SER Phase 2		Phase 2: 6-3-08 Note 2			Revised	

5.4.8	Reactor Water Cleanup/Shutdown Cooling System	SER Phase 1 SER Phase 2					Revised
6.1.1	Engineered Safety Feature Materials						
6.1.1	Engineered Safety Feature Materials						
6.1.2	Organic Materials (Protective Coatings)	SER Phase 1 SER Phase 2	06/02/2008 (P2)	07/31/2008 (P2)			P1 – Revised P2 – New
6.2.7	Fracture Prevention of Containment Pressure Boundary	SER Phase 1 SER Phase 2					
6.5.4	Ice Condenser Fission Product Cleanup	N/A					
6.5.5	Pressure Suppression Pool as a Fission Product Cleanup System	SER Phase 2	12/3/07	1/15/08			New
9.1.2	New and Spent Fuel Storage	SER Phase 2					P2 – Revised
9.1.3	Spent Fuel Pool Cooling and Cleanup	SER Phase 1 SER Phase 2	12/03/2007 05/05/2008	03/28/2008 06/27/2008			P1 – Revised P2 – Revised
9.3.2	Process and Post-Accident Sampling Systems	SER Phase 2	12/3/07	1/15/08			
10.3.6	Steam and Feedwater System Materials						
10.3.6	Steam and Feedwater System Materials						

Out of Scope

Out of Scope

10.4.6	Condensate Purification System	SER Phase 1 SER Phase 2		12/03/2007 05/05/2008	03/28/2008 06/27/2008			
14.3.3	Piping Systems and							
14.3.3	Piping Systems and							

Out of Scope

P1 – Revised
P2 – Revised

Out of Scope

Note 1: Finish date extended for SER Sections 3.9.6.1 and 3.9.6.2 to allow more review time because of the significant amount of omitted information in COLA consistent with other SER sections.

Note 2: Start and Finish dates changed for SER Sections 5.2.1.1 and 5.2.1.2 to be consistent with other applicable SER sections.