

*Roger,  
I see no reason to  
with hold this memo.  
Further - as far as I can  
tell all of the documents  
listed/discussed in this  
memo are public.  
2/19/08*

October 24, 2007

MEMORANDUM TO: Michael Gartman, Chief  
EBWR/ABWR Project Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

FROM: John A. Nakoski, Chief /RA/  
Quality & Vendor Branch B  
Division of Construction Inspection & Operational Programs  
Office of New Reactors

SUBJECT: THE QUALITY & VENDOR BRANCH B ACCEPTANCE REVIEW OF  
ADVANCE BOILING WATER REACTOR SOUTH TEXAS PROJECTS  
COMBINED LICENSE APPLICATION FINAL SAFETY ANALYSIS  
REPORT (TAC NO: MD6848)

The Quality & Vendor Branch B (CQVB) staff has completed its acceptance review for the Combined License (COL) application submitted by South Texas Projects (STP). This review covered the following COL application Final Safety Analysis Report (FSAR) Sections for which CQVB has review responsibilities and, in addition, applicable interface reference documents in the FSAR.

FSAR Sections:

- o Section 14.0S, "Verification Programs;"
- o Section 14.1S, "Specific Information to be Addressed For the Initial Plant Test Program;"
- o Section 14.2, "Specific Information to be Included in the Final Safety Analysis Report;"
- o Section 17.0, "Introduction;"
- o Section 17.1, "Quality Assurance During Design and Construction;"
- o Section 17.2, "Quality Assurance During the Operation Phase;"
- o Section 17.3, "Reliability Assurance Program During Design Phase;"
- o Section 17.4S, "Reliability Assurance Program;" and
- o Section 17.5S, "Quality Assurance Program Guidance."

Reference Sections:

- o Advance Boiling Water Reactor (ABWR) Design Certification Document (DCD) Section 14.2, "Initial Test Program"
- o ABWR Licensing Topical Report NEDO-33305, "Advance Boiling Water Reactor (ABWR) Startup Administrative Manual," Revision 0, dated February 2007

CONTACT: Aida Rivera-Varona, NRO/DCIP/CQVB  
301-415-4001

*All*

- o ABWR Licensing Topical Report (LTR) NEDO-33310 "Advanced Boiling Water Reactor (ABWR) Startup Test Specification," Revision 0, dated April 2007
- o "STP 3&4 Quality Assurance Program Description," Revision 1, dated September 9, 2007
- o ABWR DCD Section 17.1, "Quality Assurance During Design and Construction"
- o ABWR DCD Section 17.2, "Quality Assurance During Operation Phase"
- o ABWR DCD Section 17.3, "Reliability Assurance Program During Design Phase"

#### Completeness and Sufficiency

Based on the review, the CQVB staff has determined that the application contains the information required by regulations, RG 1.206, Sections C.I.14.2, C.I.17.4, C.I.17.5, C.II.4.3, RG 1.68, Rev 3, and that the submitted information is technically sufficient for CQVB to commence the STP COLA detailed technical review.

#### Schedule

The estimated effort for the detailed technical review of the STP COLA SRP Sections by CQVB is generally consistent with the current pre-baseline EPM model. The resource plan that currently exists in the EPM for these sections may be retained.

The SRP Sections being used for this portion of the STP COLA review are:

- SRP 14.2, "Initial Plant Test Program – Design Certification and New License Applicants"
- SRP 17.4, "Reliability Assurance Program"
- SRP 17.5, "Quality Assurance Program Description – Design Certification, Early Site Permit and New License Applicants"

#### Review Dependencies

CQVB detailed technical review of the STP COLA is dependent upon the completion of the branch's staff's ongoing review of the following topical report:

- ABWR Licensing Topical Report NEDO-33305, "Advance Boiling Water Reactor (ABWR) Startup Administrative Manual," Revision 0, dated February 2007
- ABWR Licensing Topical Report (LTR) NEDO-33310 "Advanced Boiling Water Reactor (ABWR) Startup Test Specification," Revision 0, dated April 2007

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

- o ABWR Licensing Topical Report (LTR) NEDO-33310 "Advanced Boiling Water Reactor (ABWR) Startup Test Specification," Revision 0, dated April 2007
- o "STP 3&4 Quality Assurance Program Description," Revision 1, dated September 9, 2007
- o ABWR DCD Section 17.1, "Quality Assurance During Design and Construction"
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DISTRIBUTION: CQVB r/f George Wunder Raj Anand Sabrina Cleavenger

ADAMS Accession # ML072920096

NRR-106

OFFICE	NRO/DCIP/CQVB	NRO/DCIP/CQVB	NRO/DCIP/CQVB	NRO/DCIP/CQVB: BC
NAME	ARivera:nxh2	FTalbot	RMclntyre	JNakoski
DATE	10/19/07	10/19/07	10/19/07	10/ 24 /07

**OFFICIAL RECORD COPY**

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

SER Sections: 14.2, 17.1, 17.2, 17.3,

Technical Branch: COVB (Primary/Secondary) Technical Reviewer: F. Talbot/S. Cleavenger/A. Riveria-Varona/R. McIntyre

Branch Chief: John A. Nakoski

SRP Sections: 14.2, 17.4, 17.5

Date: 10/24/2007

Do these sections address the applicable regulations: Yes

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 COL section address the items required 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.
RG 1.206, C.I.14.2, Initial Plant Test Program	Yes	Yes	Yes		Yes	Yes		No changes	Yes	
RG 1.68, Rev 3, Initial Test Program	Yes	Yes	Yes		Yes	Yes		No changes	Yes	
RG. 1206, C.I.17.4, Reliability Assurance Program Guidance	Yes	Yes	Yes		Yes	Yes		No changes	Yes	
RG 1.206,C.I.17.5, Quality Assurance Program Guidance	Yes	Yes	Yes		Yes	Yes		No changes	Yes	
RG 1.206, C.III.4, Combine License Action or Information Items	Yes	Yes	Yes		Yes	Yes		No changes	Yes	

\*Review Area/Topic: Item identified in RG 1.206 or the regulations; for a COLA referencing a DC, this includes COL information items and departures from the design certification.

\*\*Technical Sufficiency: The application is compared against the SRP acceptance criteria. Note: New safety features, alternate regulatory compliance approaches, and/or deviations from DCs, should not be treated as deficiencies and factored into the basis for rejecting the application, unless staff determines that there is insufficient technical information associated with the respective item. These items are factored into confirmation of planning assumptions.

\*\*\*Significant deficiencies are those review area/topic which impact the staff's ability to begin the detailed technical review or complete its review within a predictable timeframe.

\*\*\*\*DSRA will provide risk significance information at time of review, if available.

\*\*\*\*\*Identification of new review time is on a FSAR section basis and consistent with the review phases within the EPM. Changes from the pre-baseline review schedule and estimated hours should be on that basis.