BellBendCOLPEm Resource

From: Bhatia, Bhupendra

Sent: Tuesday, March 16, 2010 12:13 PM

To: BellBendCOL Resource Cc: Johnson, Robert; Kang, Peter

Subject: FW: NUMARK Documents for the NRC Hearing File for TO #49, Bell Bend, Chapter #8-

NON PUBLIC

Attachments: Response to PQOG comments on 8.4 BB TO #49.doc

From: Hearing File [mailto:HearingFile@numarkassoc.com]

Sent: Monday, March 15, 2010 10:15 AM

To: Bhatia, Bhupendra

Subject: NUMARK Documents for the NRC Hearing File for TO #49, Bell Bend, Chapter #8.

The attached information is being provided to you from Numark Associates, Inc pursuant to 10 CFR 2.1203(b) for inclusion in the NRC Hearing File.

Please contact Ms Karen Hall if you have any questions.

Shaareem Wall, Administrative Assistant Numark Associates, Inc. 1220 19th St. NW, Suite 500 Washington, DC 20036

Tel: 202-466-2700 Fax: 202-466-3669

Web: www.numarkassoc.com

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-----Original Message-----**From:** George Morris

Sent: Monday, February 23, 2009 10:53 PM

To: Marty Bowling

Cc: Brian Grimes; Stan Kobylarz; Hearing File

Subject: Resolution og PQOG comments and revised files for 8.4 TO #49

Marty,

Attached is the revised file and PQOG Form 3 for Section 8.4 for BBNPP, To 49.

George Morris

Hearing Identifier: BellBend_COL_Public

Email Number: 509

Mail Envelope Properties (87B1F1BDFE5A554CA9DC5EAA75EB6D0D1C9364C98E)

Subject: FW: NUMARK Documents for the NRC Hearing File for TO #49, Bell Bend,

Chapter #8- NON PUBLIC

 Sent Date:
 3/16/2010 12:13:29 PM

 Received Date:
 3/16/2010 12:13:31 PM

 From:
 Bhatia, Bhupendra

Created By: bhfysp.bhfysp@nrc.gov

Recipients:

"Johnson, Robert" < Robert. Johnson@nrc.gov>

Tracking Status: None

"Kang, Peter" < Peter. Kang@nrc.gov>

Tracking Status: None

"BellBendCOL Resource" < BellBendCOL.Resource@nrc.gov>

Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files Size Date & Time

MESSAGE 1474 3/16/2010 12:13:31 PM Response to PQOG comments on 8.4 BB TO #49.doc 158274

Options

Priority:StandardReturn Notification:NoReply Requested:NoSensitivity:Normal

Expiration Date: Recipients Received:

NUMARK FORM-3 DOCUMENT TRANSMISSION RECORD FORM

DOCUMENT TITLE/NUMBER Draft TER for SCOL Section 8.4 – Introduction (Bell Bend)

NRC Task Order #	49
NRC Task #	4
NRC JCN #	Q-4159

DOCUMENT RECEIVED BY TM FROM AUTHOR	DATE
DOCUMENT SENT TO PQOG	1/26/09
DOCUMENT SENT TO TD	NA
DOCUMENT SENT TO TM FROM PQOG	2/9/09
DOCUMENT SENT TO TM FROM TD	NA
ALL COMMENTS RESOLVED BY TM	
FINAL DOCUMENT SENT TO NRC	
THAIL DOCUMENT SENT TO THE	

NUMARK FORM F-2 COMMENT AND DISPOSITION RECORD FORM

DOCUMENT TITLE/NUMBER Draft TER for SCOL Section 8.4 – Introduction (Bell Bend)

NRC Task Order # 49 NRC Task # 4

NRC JCN # Q-4159

PQOG COMMENTS/RESOLUTIONS

REVIEWER NAME / ORGANIZATION: Brian Grimes/PQOG

Steve Lewis: Regulatory Review; George Skinner: Technical Review; Brian Grimes: template subsections review

Regulatory Review Comments: See attached checklist.

Technical Review Comments: See attached checklist.

Template Subsections Comments: See three attached checklists.

Brian Grimes, Chair, PQOG

PQOG **Regulatory Review** of TERs for Bell Bend SCOL Section 8.4 Technical Evaluation, Conclusions, RAI

PQOG Reviewer: Steve Lewis Date: 02/04/09

Checklist Item	PQOG Review Comments	Disposition
Technical Evaluation		
Sections incorporated by reference (IBR) use the standard wording in the NUMARK COL Guidance Document. Outstanding DC RAI or Open Items for the corresponding DC section are	This item is satisfied.	
noted.		
For sections not entirely IBR, system/program description is provided for the scope of COL information being reviewed (synopsis)	This item is satisfied.	
For sections not entirely IBR, a general description of the review process is provided including any confirmatory analyses, site visits, or audits.	This item is satisfied.	
Material is not copied from the FSAR	This reviewer identified no material in the 8.4 Draft TER, as being copied from the FSAR	
NRC metrication policy is followed (metric units followed by English units in parentheses)	Callaway and Bell Bend: No. In the Draft TER, measurements of distances are provided in English units followed by metric units in parentheses. NMP: No numerical units were in the NMP3 section 8.4, so there is no issue regarding use of the NRC metrication policy.	Reversed units to 1.6 km (1 mi)
For sections that are not entirely		
IBR, the following subheadings		
are used in the Technical		
Evaluation section (<u>only</u> if applicable to this TER section):		
Tier 1 Departures	N/A	
Tier 2 Departures	N/A	
Interfaces Requirements (Plant	This item is satisfied.	

or Site Parameter)		
COL Table 1.8-1		
Combined License Information	This item is satisfied.	
Items		
The adequacy of the COL		
disposition of the U.S. EPR COL		
Information Items is addressed.		
Deferral of information or actions		
to the post-COL stage is		
determined appropriate and the		
need for any additional items is		
addressed. A positive statement		
confirming this is required.		
Site-specific information	This item is inapplicable, since no Conceptual Design Information	
replacing Conceptual Design	was used in the FSAR for the U.S. EPR regarding Station Blackout	
Information		
An assessment is made as to the		
adequacy of the information,		
(whether included or IBR) and the		
FSAR content. A positive		
statement confirming this is		
required. Statements are		
consistent with any review of this		
information in the U.S. EPR SER.		
Supplemental Information		
License Conditions	The FSARs do not contain any license conditions.	
Initial Test Program	The initial testing as to Station Blackout is identified as a post-COL	
Adequacy of applicable initial	item.	
testing requirements applicable to		
the COL scope of review is		
addressed. A positive statement		
confirming this is required.		
Technical Specifications	The Draft TERs identify where the reader should look for the	
Adequacy of Technical	applicable Technical Specifications.	
Specifications applicable to the	-	
COL scope of review is addressed.		
A positive statement confirming		
this is required.		
ITAAC	The Draft TERs identify where the reader should look for the	
Adequate additional COL ITAAC	applicable ITAACs.	
are proposed, if appropriate. A	••	
positive statement confirming this		
is required.		
<u> </u>	I .	

Cross-cutting requirements (TMI, USI/GSI, Op Experience)	None raised with respect to Station Blackout.	
Evaluation elements for each		
applicable review area:		
GDC/Regulations that apply to the	Yes.	
COL information being reviewed		
are stated		
What reviewer did to evaluate the	Yes.	
submittal is stated and related to		
the SRP section Review		
Procedures		
There are placeholders in bold	There were placeholders for related section reviews, however they	
type for any related section	were not printed in Bold format.	
reviews that need to be done		
before the conclusions stated in		
the TER are valid	77	
How the acceptance criterion is	Yes.	
met is stated (e.g., followed		
regulatory guidance) A conclusion is reached on each	V	
	Yes.	
GDC/regulation applicable to the COL information being reviewed.		
A positive statement confirming		
this is required.		
If TER is not comparable to	N/A	
another COL or ESP SER level of	14/11	
detail there is a reason (not to be		
stated in the TER). Note: only if		
such becomes available.		
If the COL FSAR incorporates by	N/A, in that the U.S. EPR FSAR for Station Blackout did not contain	
reference U.S. EPR conceptual	any Conceptual Design Information.	
design information rather than		
replacing it, the SER for the US		
EPR adequately evaluates the		
information.		
Conclusions		
Applicable standard wording in	This item is satisfied.	
the NUMARK COL Guidance		
Document is used. SRP section		
Evaluation Findings wording		
applicable to the COL scope of		

review is generally followed:		
Length is typically one paragraph		
for a mostly IBR section.		
Brief statements are added on the	This item is met.	
bases for each conclusion that a		
GDC/regulation is met.		
Conclusions are consistent with	Yes.	
Technical Evaluation section and		
supported by a discussion in the		
technical evaluation section.		
Conclusions are generally	N/A. There are no RAIs with respect to Section 8.4.	Added RAI 8.4-1, Coping Procedures, and
positive, conditional on resolution		RAI 8.4-2, Coping Duration
of any RAI.		, 1 &
RAI	N/A. There are no RAIs with respect to Section 8.4	Added RAI 8.4-1 and RAI 8.4-2
Reason for RAI is briefly		
addressed in Technical Evaluation		
section of draft TER		
RAI number is inserted in		
Technical Evaluation section text		
and bolded .		
Additional post-COL Action		
Items proposed in the TER have		
an RAI to determine whether		
applicant will add to their list in		
the FSAR.		
The regulatory basis is provided at		
the beginning of each RAI (or		
RAI cluster). This includes the		
applicable GDC or reg. and may		
also refer to acceptance criteria.		
RAI is within the scope of the		
COL information reviewed in the		
section.		
RAI is phrased as a question or		
questions.		
RAIs noting inconsistencies are		
generated (but the regulatory basis		
is to "assure completeness and		
accuracy of the plant design and		
licensing basis."). These should		
be collected into one RAI if		
possible.		

PQOG **Template Subsections** Review for Bell Bend SCOL Section 8.4 – Station Blackout Introduction, Summary of Application, Regulatory Basis, COL Information Items

PQOG Reviewer: Brian Grimes Date: 5 February 2009

Checklist Item	PQOG Review Comments	Disposition
Title	Note: Comments apply to SCOL TERs unless	•
	otherwise indicated.	
The FSAR title, rather than the NUREG-0800	OK	
section title is used		
For the first template in a chapter, the Chapter	N/A	
title and a short summary paragraph are		
inserted. If there are additional sections without		
templates after the Chapter title (typically an		
X.1 section), the title for these should also be		
listed and a short summary paragraph inserted.		
Sections incorporated by reference (IBR) use	OK. Conclusion section has an adequate general	
the standard wording in the NUMARK COL	statement on the ongoing review.	
Guidance Document. Outstanding DC RAI or		
Open Items for the corresponding DC section		
are noted.		
Where multiple sections in the same chapter are	N/A	
incorporated by reference, summarization at a		
higher level is acceptable.		
Note: the following is for sections IBR with		
departures, additional information, or that		
are primarily COL-specific.		
Introduction		
Length: one or two paragraphs	OK	
Description: generic summary of section topic,	OK	
not FSAR wording. Can use SRP wording.		
Can use DC section Introduction if applicable.		
Summary of Application		
Length: Up to one page. Roadmap provided to	Length OK.	
FSAR information for following subtitles.	See individual comments below.	
Information not quoted from the FSAR.	Bell Bend: some FSAR words, but probably OK.	
Roadmap references correct and complete.	See comments below.	
Uses the standard wording in the NUMARK	OK	
COL Guidance Document for partial IBR. For	OK	
COL Guidance Document for partial IDR. Tol		

no IBR, describes the system or program for the section that is proposed in the COL FSAR. Note: list and provide a brief description only for the following headings that are applicable. FSAR Tier 1 Departures (Exemptions): (The small number of Calvert Cliffs COL departures from U.S. EPR Tier 1 with related exemption requests are listed in Part 7 of the application. Additional exemption requests are also listed. The departures are also listed in COL FSAR section 18.2.) FSAR Tier 2 Departures: (Departures from U.S. EPR Tier 2, from the COL FSAR Section 18.2.) FSAR Tier 2 Departures: (Departures from U.S. EPR Tier 2, from the COL FSAR Section 18.2.) Interface Requirements: This should include information related to plant and site parameter interfaces (COL FSAR Table 1.8-1) Interface Requirements: (From COL FSAR Table 1.8-2. The wording of these may be different than in the US EPR FSAR.) Replacement of Conceptual Design Information: (Or incorporation by reference of conceptual information in the U.S. EPR Tier 2 section.) Supplemental Information: (Or incorporation by reference of conceptual information in the U.S. EPR Tier 2 section.) Supplemental Information: (OK. ITAC: Consider whether Part 10 Table 2.4-20 should be referenced. OK. OK. Cross Cutting Requirements (TMI, USI/GSI, Operating Experience):		<u> </u>	
Note: list and provide a brief description only for the following headings that are applicable. FSAR Tier 1 Departures (Exemptions): FSAR Tier 1 Departures (Exemptions): FSAR Tier 1 Departures (Exemptions): N/A	no IBR, describes the system or program for the		
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N/A except NMP: Could insert this subheading above the paragraph starting "The applicant also indicated". Added to Technical Evaluation			
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referenced. Cross Cutting Requirements (TMI, USI/GSI, N/A			N/A Applies to 9.2 not 9.4
Cross Cutting Requirements (TMI, USI/GSI, N/A	HAAC:		N/A Applies to 8.2, not 8.4
	Cross Cutting Requirements (TML USI/CSI		
Operating Emperioners)		INAL	
	operating Experience).		
Regulatory Basis	Regulatory Basis		
Length: Up to one page. OK	Length: Up to one page.	OK	
The applicable standard introductory wording Introductory wording is OK.		Introductory wording is OK.	
used from the NUMARK COL Guidance			
Document followed by list of requirements,			
followed by acceptance criteria wording,	followed by acceptance criteria wording,		

	Regulatory Review Checklist - COL	9
followed by brief paragraph summarizing		
acceptance criteria (e.g., listing R.G.)		
Words from NUREG-0800 may be used without	OK	
quotes		
The 52.80(a) requirement should not be listed as	OK	
it is the same for all sections (will be covered in		
COL SER Chapter 1)		
GDC 5 should not be listed (will be covered in	OK	
COL SER Chapter 1)		
Requirements may be abbreviated from those	NUREG-0800, Section 8.4 also lists GDC-17, GDC-	GDC 17, 18 and 50.65 are N/A for 8.4
listed in NUREG-0800, but all requirements	18, and 50.65(a) (4). If these are within the scope of	
relevant to the COL scope of review (and only	the COL review, they should be listed	
those requirements) should be listed.		
Requirements and Acceptance Criteria are those	The wording describing the applicability of 50.63 is	Reworded to agree with NUREG-0800
found in the relevant NUREG-0800 section.	different than NUREG-0800 Section 8.4.	
Post Combined License Activities		
Those U.S. EPR Combined License Information	The item given does not appear in COL FSAR Table	Added RAI to clarify timing of the procedure
Items that will continue beyond granting the	1.8-2. This item is similar to item 8.4-2 in FSAR Table	writing and training
Combined License are correctly extracted and	1.8-2. This item in the USEPR is not marked as a COL	
listed from COL FSAR Table 1.8-2. (These are	Holder responsibility. If the TER developer believes	
the items with a "Y" in the COL Holder column	that this item should be a COL holder responsibility,	
of U.S. EPR FSAR Tier 2 Table 1.8-2.)	then an RAI should be developed.	
	In the meantime, delete this item.	
Standard language from the NUMARK COL	OK	
Guidance Document is Used		

PQOG **Technical Review** for TER for Bell Bend SCOL Section 8.4 - Technical Evaluation, Conclusions, RAI

PQOG Reviewer: George Skinner Date: 2/6/2009

Checklist Item	PQOG Review Comments	Disposition
Technical Evaluation		•
Assumptions and logic of the FSAR safety evaluation are addressed and TER evaluation appears technically correct and is logically supported in each of the following areas. System information needed to reach a conclusion is included. Applicable Generic Letters and NRC Knowledge Transfer Guides are considered (if listed in the SRP (NUREG-0800)).	See individual items.	
List and evaluate specific Areas of Review (from SRP 8.4 Section I) and additional items from Review Procedures (from SRP 8.4 Section III) Note: only those that are applicable to the COL scope of review for this section.	See individual items	
Site specific information that identifies any additional local power sources and transmission paths that could be made available to resupply the power plant following an LOOP is reviewed.	OK	
Proposed coping durations less than eight hours based on site-specific coping durations reviewed.	N/A	
RG 1.155 position C.3.4 related to procedures and training to cope with SBO reviewed.	OK	
Misc.	If there isn't any site specific ITAAC relating to SBO in Part 10 of the application, it would be better to say this rather than referring to other Tars.	No Change made
Conclusion		
List and evaluate EVALUATION FINDINGS (from SRP 8.4 Section IV – also include any important Technical Rationale items in the SRP that bear on the	See individual items.	

conclusions). Note: only those that are applicable to the COL scope of review for this		
section.		
Conclusion statement provided verifying that the applicant has provided sufficient information and the review supports the	OK	
conclusions.		
RAI		
Technical adequacy of each RAI proposed (list Rays)	See individual items	
	N/A (No Rays)	
Other RAI that should be considered, including additional COL holder Action Items	N/A (None Identified)	