

BellBendCOLPEm Resource

From: BelCol Resource
Sent: Thursday, March 04, 2010 10:31 AM
To: BellBendCOL Resource
Subject: FW: NUMARK Documents for the NRC Hearing File for TO #49, Bell Bend, Chapter #8
Attachments: PQOG comments on SCOL section 8.1 Callaway NMP BB.doc

From: Bhatia, Bhupendra
Sent: Saturday, February 27, 2010 3:29 PM
To: BelCol Resource
Cc: Johnson, Robert
Subject: FW: NUMARK Documents for the NRC Hearing File for TO #49, Bell Bend, Chapter #8

From: Bhatia, Bhupendra
Sent: Thursday, December 31, 2009 1:41 PM
To: Steckel, James
Cc: Jenkins, Ronaldo; Kang, Peter
Subject: FW: NUMARK Documents for the NRC Hearing File for TO #49, Bell Bend, Chapter #8

Jim,

Attached please find information received from Numark Associates pertaining to TO #49, Bell Bend, Chapter 8 for inclusion in the NRC Hearing File.

Bhupendra

From: Shaareem Wall [<mailto:SWall@numarkassoc.com>]
Sent: Monday, December 28, 2009 12:37 PM
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
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distribution is strictly prohibited. If you have received this message in error, please notify the sender immediately and delete this message from your computer. Thank you.

From: Shaareem Wall
Sent: Tuesday, November 17, 2009 1:03 PM
To: 'swagata.som@nrc.gov'; 'james.steckel@nrc.gov'
Cc: 'sally.adams@nrc.gov'
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
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From: Loraine Wilson
Sent: Thursday, November 05, 2009 10:04 AM
To: Shaareem Wall
Subject: FW: NUMARK Documents for the NRC Hearing File for TO #47, Callaway, Chapter #8.

From: Loraine Wilson
Sent: Wednesday, September 09, 2009 4:58 PM
To: 'Swagata.som@nrc.gov'
Cc: 'James.Steckel@nrc.gov'; 'sally.adams@nrc.gov'
Subject: FW: NUMARK Documents for the NRC Hearing File for TO #47, Callaway, 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.

[Loraine Wilson](#)
[Personnel Specialist](#)
[Numark Associates, Inc.](#)

1220 19th St, NW Suite 500
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202 466-2700
lwilson@numarkassoc.com

-----Original Message-----

From: Brian Grimes
Sent: Friday, February 06, 2009 2:51 AM
To: George Morris
Cc: Hearing File; Marty Bowling
Subject: PQOG SCOL reviews of SCOL section 8.1 TO 47, 48, 49

George,

Attached are the compiled PQOG comments on Callaway, Bell Bend and Nine Mile Point TERs for section 8.1. (Task Orders 47-49)

You have already seen the Template and Regulatory checklist reviews, I think.

The PQOG technical review is now also complete and is included (a checklist for each plant).

Please fill out the third column with your disposition of the comments that need a response (e.g., "comment incorporated" or a rationale if it was not). Send the completed form with the revised TERs to Marty for technical editing and transmittal to the NRC. Also, please send an information copy to me.

Best regards,

Brian

Hearing Identifier: BellBend_COL_Public
Email Number: 498

Mail Envelope Properties (0AA17736E4C4154CA37233EEBFC8DEB227CAFA883E)

Subject: FW: NUMARK Documents for the NRC Hearing File for TO #49, Bell Bend, Chapter #8
Sent Date: 3/4/2010 10:31:01 AM
Received Date: 3/4/2010 10:31:04 AM
From: BelCol Resource

Created By: BelCol.Resource@nrc.gov

Recipients:
"BellBendCOL Resource" <BellBendCOL.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	4623	3/4/2010 10:31:04 AM
PQOG comments on SCOL section 8.1 Callaway NMP BB.doc		227322

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

**NUMARK FORM-3
DOCUMENT TRANSMISSION RECORD FORM**

**DOCUMENT TITLE/NUMBER
Draft TER for SCOL Section 8.1 – Introduction
(Callaway, NMP, Bell Bend)**

NRC Task Order #	47, 48, 49
NRC Task #	4
NRC JCN #	Q-4159

DOCUMENT RECEIVED BY TM FROM AUTHOR	DATE
DOCUMENT SENT TO PQOG	2/1/09
DOCUMENT SENT TO TD	NA
DOCUMENT SENT TO TM FROM PQOG	2/5/09
DOCUMENT SENT TO TM FROM TD	NA
ALL COMMENTS RESOLVED BY TM	
FINAL DRAFT SENT TO PM	
FINAL DOCUMENT SENT TO NRC	

**NUMARK FORM F-2
COMMENT AND DISPOSITION RECORD FORM**

DOCUMENT TITLE/NUMBER

**Draft TER for SCOL Section 8.1 – Introduction
(Callaway, NMP, Bell Bend)**

NRC Task Order # 47, 48, 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 Callaway, NMP, and Bell Bend SCOL Section 8.1
Technical Evaluation, Conclusions, RAI**

PQOG Reviewer: Stephen Lewis____ Date: 01/29/09

Checklist Item	PQOG Review Comments	Disposition
Technical Evaluation	Note: Comments apply to all three SCOL TERs unless otherwise indicated.	
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 noted.	Yes.	
For sections not entirely IBR, system/program description is provided for the scope of COL information being reviewed (synopsis)	Yes.	
For sections not entirely IBR, a general description of the review process is provided including any confirmatory analyses, site visits, or audits.	Yes.	
Material is not copied from the FSAR	This reviewer did not identify any material in Section 8.1 of the FSAR as being copied from the FSAR.	
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	Done correctly	
Tier 2 Departures	Done correctly.	
Interfaces Requirements (Plant or Site Parameter) COL Table 1.8-1	Done correctly.	
Combined License Information Items The adequacy of the COL	Done correctly. There are no COL Information Items that are being left to the post-COL stage.	

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 replacing Conceptual Design 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.	N/A because there was no Conceptual Design Information provided in the U.S.EPR FSAR Section 8.1.	
Supplemental Information	This TER treats the supplemental information provided by the COL Applicant.	
License Conditions	No license conditions are proposed by the Applicant or considered by the NRC.	
Initial Test Program Adequacy of applicable initial testing requirements applicable to the COL scope of review is addressed. A positive statement confirming this is required.	There is no Initial Test Program for the Section 8.1 area of review.	
Technical Specifications Adequacy of Technical Specifications applicable to the COL scope of review is addressed. A positive statement confirming this is required.	This reviewer suggests inserting this Subtitle in the TER. Under this Subtitle it should be noted that relevant Technical Specifications are addressed in Part 10, section 3.8 of the Applications.	
ITAAC Adequate additional COL ITAAC are proposed, if appropriate. A positive statement confirming this is required.	This subtitle should be included in this Subsection. Under this subtitle the ITAAC identified in Tier 2, Table 14.3-3 of these applications. Further, Part 10, Tables 2.4-20, -21, and -22 of these applications should be noted under this subtitle.	
Cross-cutting requirements (TMI, USI/GSI, Op Experience)	N/A.	
Evaluation elements for each		

applicable review area:		
GDC/Regulations that apply to the COL information being reviewed are stated	Yes.	
What reviewer did to evaluate the submittal is stated and related to the SRP section Review Procedures	Yes.	
There are placeholders in bold type for any related section reviews that need to be done before the conclusions stated in the TER are valid	N/A.	
How the acceptance criterion is met is stated (e.g., followed regulatory guidance)	Yes.	
A conclusion is reached on each GDC/regulation applicable to the COL information being reviewed. A positive statement confirming this is required.	Yes.	
If TER is not comparable to another COL or ESP SER level of detail there is a reason (not to be stated in the TER). Note: only if such becomes available.	N/A.	
If the COL FSAR incorporates by reference U.S. EPR conceptual design information rather than replacing it, the SER for the US EPR adequately evaluates the information.	N/A, in that the equivalent section of the U.S. EPR does not include any conceptual design criteria.	
Conclusions		
Applicable standard wording in 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.	Yes.	

Brief statements are added on the bases for each conclusion that a GDC/regulation is met.	Yes.	
Conclusions are consistent with Technical Evaluation section and supported by a discussion in the technical evaluation section.	Yes.	
RAI		
Reason for RAI is briefly addressed in Technical Evaluation section of draft TER	It appears that only the bolded wording is meant to be the RAIs, but that wording does include all the required attributes for RAIs. The statement of why the additional information is needed is stated in non-bolded text. This reviewer seeks clarification of what constitutes the RAI and surrounding wording will not be listed as part of the RAI. It would be prudent to include all of the paragraphs, so that the reason for any particular RAI “rides with it.”	
RAI number is inserted in Technical Evaluation section text and bolded .	Yes.	
Additional post-COL Action Items proposed in the TER have an RAI to determine whether applicant will add to their list in the FSAR.	N/A.	
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.	This is generally done, but the regulatory basis for each RAI is not bolded, so that it is unclear as to whether it will accompany the RAI. See comment above.	
RAI is within the scope of the COL information reviewed in the section.	Yes.	
RAI is phrased as a question or questions.	No, but the RAIs are clear. In these RAIs, regulatory reviewer suggests that the wording be left as is.	
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.	N/A.	

**PQOG Template Subsections Review for Callaway, NMP, Bell Bend SCOL Section 8.1 - Introduction
Introduction, Summary of Application, Regulatory Basis, COL Information Items**

PQOG Reviewer: Brian Grimes Date: 28 January 2009

Checklist Item	PQOG Review Comments	Disposition
Title	Note: Comments apply to all three SCOL TERs unless otherwise indicated.	
The FSAR title, rather than the NUREG-0800 section title is used	OK	
For the first template in a chapter, the Chapter 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.	OK	
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 noted.	OK	
Where multiple sections in the same chapter are incorporated by reference, summarization at a higher level is acceptable.	N/A	
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, not FSAR wording. Can use SRP wording. Can use DC section Introduction if applicable.	OK	
Summary of Application		
Length: Up to one page. Roadmap provided to FSAR information for following subtitles.	Length OK. See individual comments below.	
Information not quoted from the FSAR.	Callaway: paragraph starting "Callaway Nuclear Power Plant" is literal from the FSAR (could be deleted). NPM: paragraph starting "The NMP3NPP switchyard"	

	is literal from the FSAR and could be deleted. Bell Bend: the sentences starting “The BBNPP transmission system” are literal from the FSAR and should be reworded.	
Roadmap references correct and complete.	See comments below.	
Uses the standard wording in the NUMARK COL Guidance Document for partial IBR. For no IBR, describes the system or program for the section that is proposed in the COL FSAR.	OK	
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 1.8.2.)	N/A	
FSAR Tier 2 Departures: (Departures from U.S. EPR Tier 2, from the COL FSAR section text.)	N/A	
Interface Requirements: This should include information related to plant and site parameter interfaces (COL FSAR Table 1.8-1)	N/A	
Combined License Information Items: (From COL FSAR Table 1.8-2. The wording of these may be different than in the US EPR FSAR.)	OK. Included in Summary of Application text.	
Replacement of Conceptual Design Information: (Or incorporation by reference of conceptual information in the U.S. EPR Tier 2 section.)	N/A	
Supplemental Information:	OK. Included in Summary of Application text.	
License Conditions:	N/A	
Initial Test Program:	No site-specific items proposed in the FSAR.	
Technical Specifications:	Suggest inserting this subtitle and noting the Part 10, section 3.8 Technical Specifications.	
ITAAC:	Tier 2 Table 14.3-3 provides a number of Chapter 8 ITAAC. These need to be noted under an ITAAC subheading in one of the Chapter 8 TER subsections.	

	Also Part 10 Tables 2.4-20, 21, and 22.	
Cross Cutting Requirements (TMI, USI/GSI, Operating Experience):	N/A	
Regulatory Basis		
Length: Up to one page.	OK	
The applicable standard introductory wording used from the NUMARK COL Guidance Document followed by list of requirements, followed by acceptance criteria wording, followed by brief paragraph summarizing acceptance criteria (e.g., listing R.G.)	Introductory wording is OK.	
Words from NUREG-0800 may be used without quotes	OK	
The 52.80(a) requirement should not be listed as it is the same for all sections (will be covered in COL SER Chapter 1)	OK	
GDC 5 should not be listed (will be covered in COL SER Chapter 1)	Delete this item.	
Requirements may be abbreviated from those listed in NUREG-0800, but all requirements relevant to the COL scope of review (and only those requirements) should be listed.	NUREG-0800, Section 8.1 mentions only GDC-17, not the list of other requirements and R.G. in this section of the TER. Recommend deleting these from TER section 8.1. (Only GDC-17 is (appropriately) addressed in the TER Technical Evaluation section.	
Requirements and Acceptance Criteria are those found in the relevant NUREG-0800 section.	No. See above comment.	
Post Combined License Activities		
Those U.S. EPR Combined License Information Items that will continue beyond granting the Combined License are correctly extracted and listed from COL FSAR Table 1.8-2. (These are the items with a "Y" in the COL Holder column of U.S. EPR FSAR Tier 2 Table 1.8-2.)	N/A	
Standard language from the NUMARK COL Guidance Document is Used	OK	

PQOG Technical Review for TER of NMP3NPP COL Section 8.1 -
Technical Evaluation, Conclusions, RAI

PQOG Reviewer: George Skinner Date: 2/5/09

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 8.1 Section I) and additional items from Review Procedures (from SRP 8.1 Section III) <i>Note: only those that are applicable to the COL scope of review for this section.</i>	See individual items	
Description of the offsite power system with regard to the interrelationships between the nuclear unit, the utility grid, and the interconnecting grid provided	Yes	
The descriptions state whether facilities are existing or planned; if planned, the respective completion dates should be provided.	The description of planned facilities does not include completion dates.	
General Design Criterion (GDC) 17 is met for connection of the nuclear unit to the utility grid.	OK - addressed	
General Design Criterion (GDC) 17 is met for capacity and capability of EDGs and Class 1E Batteries	OK – addressed	
Conclusion		
List and evaluate EVALUATION FINDINGS (from SRP 8.1 Section IV – also include any important Technical Rationale items in the SRP that bear on the	See individual items.	

conclusions). <i>Note: only those that are applicable to the COL scope of review for this section.</i>		
Section 8.1 provides a brief description of the offsite power system with regard to the interrelationships between the nuclear unit, the utility grid, and the interconnecting grid provided	OK	
Findings summarize staff's evaluation of requirements and restrictions (e.g. interface requirements and site parameters)	OK	
Findings summarize staff's evaluation of COL Action Items	N/A	
Findings summarize staff's evaluation of ITAAC	No – ITAAC Table 2.4-20, appears to address topics affecting COL Information Item 8.1-1. These should be addressed.	
RAI		
Technical adequacy of each RAI proposed (list RAIs)	See individual items	
Misc	The heading for the RAI attachment is “COL Action Items”. Table 1.8-2 does not show any COL Action Items for Section 8.1. Suggest deleting this heading.	
RAI 8.1-1	This RAI addresses the capacity and capability of the offsite power system. The area of review described in SRP 8.1 appears to be limited to a brief description of the interconnection of the nuclear unit with the grid. This topic would more appropriately be addressed under SRP 8.2 , Offsite Power System, which directly addresses the capacity and capability of the offsite power system.	
RAI 8.1-2	This RAI requests additional information on 10CFR50.65, Maintenance Rule, implementation relative to the availability of the offsite power supply. This item appears to be outside the scope of SRP 8.1. SRP 8.2, does address 10CFR50.65 but indicates that this should actually be addressed as part of the Chapter 17 review. I suggest considering this topic under the review of Section 8.2 and/or Chapter 17.	
Other RAI that should be considered, including additional COL holder Action Items	N/A	

PQOG Technical Review for TER of Bell Bend COL Section 8.1 -
Technical Evaluation, Conclusions, RAI

PQOG Reviewer: George Skinner Date: 2/5/09

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 8.1 Section I) and additional items from Review Procedures (from SRP 8.1 Section III) <i>Note: only those that are applicable to the COL scope of review for this section.</i>	See individual items	
Description of the offsite power system with regard to the interrelationships between the nuclear unit, the utility grid, and the interconnecting grid provided	Yes	
The descriptions state whether facilities are existing or planned; if planned, the respective completion dates should be provided.	The description of planned facilities does not include completion dates.	
General Design Criterion (GDC) 17 is met for connection of the nuclear unit to the utility grid.	OK - addressed	
General Design Criterion (GDC) 17 is met for capacity and capability of EDGs and Class 1E Batteries	OK – addressed	
Conclusion		
List and evaluate EVALUATION FINDINGS (from SRP 8.1 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.		
Section 8.1 provides a brief description of the offsite power system with regard to the interrelationships between the nuclear unit, the utility grid, and the interconnecting grid provided	OK	
Findings summarize staff's evaluation of requirements and restrictions (e.g. interface requirements and site parameters)	OK	
Findings summarize staff's evaluation of COL Action Items	N/A	
Findings summarize staff's evaluation of ITAAC	No – ITAAC Table 2.4-20, appears to address topics affecting COL Information Item 8.1-1. These should be addressed.	
RAI		
Technical adequacy of each RAI proposed (list RAIs)	See individual items	
Misc	The heading for the RAI attachment is "COL Action Items". Table 1.8-2 does not show any COL Action Items for Section 8.1. Suggest deleting this heading.	
Misc	The Draft TER included the following statement in the Combined License Information Items section: "The BBNPP design provides adequate information on the load differences with the U.S. EPR design for the Class 1E EDG and battery site-specific loading to address the capacity and capability of the onsite power system requirements of GDC 17." This statement appears to be conclusions that are contrary to the statement in the Conclusions section that indicates the need for additional information on this matter.	
RAI 8.1-1	This RAI addresses the capacity and capability of the offsite power system. The area of review described in SRP 8.1 appears to be limited to a brief description of the interconnection of the nuclear unit with the grid. This topic would more appropriately be addressed under SRP 8.2 , Offsite Power System, which directly addresses the capacity and capability of the offsite power system.	
RAI 8.1-2	This RAI requests additional information on 10CFR50.65, Maintenance Rule, implementation	

	relative to the availability of the offsite power supply. This item appears to be outside the scope of SRP 8.1. SRP 8.2, does address 10CFR50.65 but indicates that this should actually be addressed as part of the Chapter 17 review. I suggest considering this topic under the review of Section 8.2 and/or Chapter 17.	
RAI 8.1-3	OK	
Other RAI that should be considered, including additional COL holder Action Items	N/A	

PQOG Technical Review for TER of Callaway COL Section 8.1 -
Technical Evaluation, Conclusions, RAI

PQOG Reviewer: George Skinner Date: 2/5/09

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 8.1 Section I) and additional items from Review Procedures (from SRP 8.1 Section III) <i>Note: only those that are applicable to the COL scope of review for this section.</i>	See individual items	
Description of the offsite power system with regard to the interrelationships between the nuclear unit, the utility grid, and the interconnecting grid provided	Yes	
The descriptions state whether facilities are existing or planned; if planned, the respective completion dates should be provided.	Yes	

General Design Criterion (GDC) 17 is met for connection of the nuclear unit to the utility grid.	OK - addressed	
General Design Criterion (GDC) 17 is met for capacity and capability of EDGs and Class 1E Batteries	OK – addressed	
Conclusion		
List and evaluate EVALUATION FINDINGS (from SRP 8.1 Section IV – also include any important Technical Rationale items in the SRP that bear on the conclusions). Note: only those that are applicable to the COL scope of review for this section.	See individual items.	
Section 8.1 provides a brief description of the offsite power system with regard to the interrelationships between the nuclear unit, the utility grid, and the interconnecting grid provided	OK	
Findings summarize staff’s evaluation of requirements and restrictions (e.g. interface requirements and site parameters)	OK	
Findings summarize staff’s evaluation of COL Action Items	N/A	
Findings summarize staff’s evaluation of ITAAC	No – ITAAC Table 2.4-20, appears to address topics affecting COL Information Item 8.1-1. These should be addressed.	
RAI		
Technical adequacy of each RAI proposed (list RAIs)	See individual items	
Misc	The heading for the RAI attachment is “COL Action Items”. Table 1.8-2 does not show any COL Action Items for Section 8.1. Suggest deleting this heading.	
Misc	The Draft TER included the following statements in the Combined License Information Items section: “The Callaway Unit 2 design provides adequate connection to the transmission system to address the capacity, capability, physical independence and availability of the offsite power system requirements of GDC 17”, and, “The Callaway Unit 2 design provides adequate information on the load differences with the U.S. EPR design for the Class 1E EDG and battery site-specific	

	loading to address the capacity and capability of the onsite power system requirements of GDC 17.” These statements appear to be conclusions that are contrary to the statements in the Conclusions section that indicate the need for additional information on these matters.	
RAI 8.1-1	This RAI addresses the capacity and capability of the offsite power system. The area of review described in SRP 8.1 appears to be limited to a brief description of the interconnection of the nuclear unit with the grid. This topic would more appropriately be addressed under SRP 8.2 , Offsite Power System, which directly addresses the capacity and capability of the offsite power system.	
RAI 8.1-2	This RAI requests additional information on 10CFR50.65, Maintenance Rule, implementation relative to the availability of the offsite power supply. This item appears to be outside the scope of SRP 8.1. SRP 8.2, does address 10CFR50.65 but indicates that this should actually be addressed as part of the Chapter 17 review. I suggest considering this topic under the review of Section 8.2 and/or Chapter 17.	
RAI 8.1-3	This item addresses the independence of circuits external to the plant. This topic does not appear to be within the scope of SRP 8.1, which calls for a “brief description” of the utility grid and its interconnections to other grids and the nuclear unit. COL FSAR Section 8.2.1.1 more fully describes the offsite power grid and the independence of the 345 kV lines connected to Callaway. I noted that Section 8.2.1.1 describes the two southbound lines as together comprising one of the two physically separated preferred power sources, so the separation of the southbound lines from each other may not be relevant. I suggest revisiting this topic under the review of Section 8.2.	
RAI 8.1-4	OK	
Other RAI that should be considered, including additional COL holder Action Items	N/A	