PMSTPCOL PEmails

From: Elton, Loree [leelton@STPEGS.COM]
Sent: Wednesday, May 05, 2010 2:50 PM
To: Muniz, Adrian; Dyer, Linda; Wunder, George; Tonacci, Mark; Eudy, Michael; Kallan, Paul; Plisco, Loren; Anand, Raj; Foster, Rocky; Joseph, Stacy; Govan, Tekia; Tai, Tom
Subject: RE: Transmittal of Letter U7-C-STP-NRC-100104
Attachments: U7-C-STP-NRC-100104.pdf

Let's try that again with the attachment.

From: Elton, Loree
Sent: Wednesday, May 05, 2010 1:48 PM
To: 'Adrian Muniz'; Dyer, Linda; 'George Wunder (gfw@nrc.gov)'; 'Mark Tonacci'; 'Michael Eudy'; 'Paul Kallan'; 'Plisco, Loren'; 'Raj Anand'; 'Rocky Foster'; 'Stacy Joseph'; 'Tekia Govan'; 'Tom Tai'
Subject: Transmittal of Letter U7-C-STP-NRC-100104

Please find attached a courtesy copy of letter number U7-C-STP-NRC-100104, which provides responses to NRC staff questions included in Request for Additional Information (RAI) letter numbers 332 and 405 related to Combined License Application (COLA) Part 2, Tier 2 Chapter 7, Instrumentation and Controls.

The official version of this correspondence will be placed in today's mail. Please call James Cook at 409-504-0337 if you have any questions concerning this letter.

Thank you,

Loree Elton
Licensing, STP 3 & 4
leelton@stpegs.com
361-972-4644

Hearing Identifier: SouthTexas34Public_EX
Email Number: 2194

Mail Envelope Properties (C7F098E3C31A0141A02043F0B8E656EE26928B4455)

Subject: RE: Transmittal of Letter U7-C-STP-NRC-100104
Sent Date: 5/5/2010 2:49:37 PM
Received Date: 5/5/2010 2:49:42 PM
From: Elton, Loree

Created By: leelton@STPEGS.COM

Recipients:
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Tracking Status: None
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MESSAGE	998	5/5/2010 2:49:42 PM
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Options
Priority: Standard
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Recipients Received:

Nuclear Operating Company
South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

May 5, 2010
U7-C-STP-NRC-100104

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

South Texas Project
Units 3 and 4
Docket Nos. 52-012 and 52-013
Response to Request for Additional Information

Attached are responses to NRC staff questions included in Request for Additional Information (RAI) letter numbers 332 and 405 related to Combined License Application (COLA) Part 2, Tier 2 Chapter 7, Instrumentation and Controls.

The attachments provide responses to the RAI questions listed below:

07.06-2
07.06-3

The COLA changes provided in this response will be incorporated in the next routine revision of the COLA following NRC acceptance of the RAI response.

There are no commitments in this letter.

If you have any questions regarding this response, please contact Scott Head at (361) 972-7136, or Bill Mookhoek at (361) 972-7274.

STI 32671993

I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 5, 2010

Mark McBurnett
Vice President, Oversight & Regulatory Affairs
South Texas Project Units 3 & 4

jwc

Attachments:

1. Response to RAI 07.06-2
2. Response to RAI 07.06-3

cc: w/o attachment except*
(paper copy)

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CPS Energy

RAI 07.06-2

QUESTION:

For the FSAR Section 7.6.3 COL License Information Item 7.2, the applicant has proposed to provide the required information as an amendment to the FSAR at least one year prior to fuel load (COM 4.4-3). The method proposed by the applicant is not an acceptable resolution. For this COL Information Item 7.2, the applicant is asked to provide a method of resolution that will allow the NRC staff to reach a safety conclusion.

RESPONSE:

As stated in STP 3&4 COLA and DCD Subsection 7.6.3, the COL applicant will implement the Average Power Range Monitor (APRM) oscillation monitoring logic function in accordance with the BWR Owner's Group as described in Subsection 7.6.1.1.2.2. STP 3&4 COLA Rev. 3, FSAR Subsection 7.6.1.1.2.2 discusses the Oscillation Power Range Monitor design. This design reflects that of the BWR Owners' Group Option III, which the NRC has evaluated and accepted in NUREG-1503, and is discussed in COLA Rev. 3, Part 7, Section 3.0, STD DEP 7.6-1.

As a result of this RAI, the STP 3&4 COLA FSAR will be revised as shown below in a future revision. Gray shading shows the changes.

7.6.3.1 APRM Oscillation Monitoring Logic

The following standard supplement addresses COL License Information Item 7.2.

There are no departures from the fuel design licensing basis that are described in the reference ABWR DCD, including the core thermal hydraulic design described in Section 4.4. The APRM oscillation logic is ~~implemented based on the information described in Subsection 4.4~~ designed in accordance with the BWR Owners Group Stability Option III and described in Subsection 7.6.1.1.2.2.

RAI 07.06-3

QUESTION:

Section 7.6 of the STP 3 & 4 Tier 2 COL application states that Table 7.6-5 and Figure 7.6-2 are impacted by Tier 1 departure STD DEP T1 2.2-1. According to the Departure Report in Part 7 of the application, this departure is associated with testing of the uninterruptible power supplies for redundant RCIS controller equipment, and only impacts Tier 1 Section 2.2, and Tier 2 Section 7.7. The staff is unable to determine any correlation between this departure STD DEP T1 2.2-1 and the stated parts of Tier 2 Section 7.6. The applicant is asked to resolve this discrepancy and provide the departure(s) that impact Table 7.6-5 and Figure 7.6-2.

RESPONSE:

STP 3&4 COLA Part 7, Section 2.1, STD DEP T1 2.2-1 had previously been changed to remove changes associated with: (1) the replacement of the RPS first stage turbine pressure input with the Average Power Range Monitor simulated thermal input signal, and (2) modification of the rod block withdrawal functions. In the process of implementing those changes, certain required COLA updates were overlooked. The only remaining STD DEP T1 2.2-1 change addresses the Rod Control Information System controller uninterruptible power supply ITAAC of DCD Tier 1, Table 2.2.1. This is shown in Tier 1, Section 2.2. Note that STD DEP T1 2.2-1 had been removed as associated with Part 2, Tier 2, Section 7.7.

The departures that impact Table 7.6-5 are STD DEP T1 3.4-1 and STD DEP 7.1-2. The departures that impact Figure 7.6-2 are STD DEP T1 3.4-1 and STD DEP 7.6-1. These are shown in COLA Part 2, Tier 2, Section 7.6.

As a result of this RAI, STP 3&4 COLA Part 2, Tier 1 and Tier 2 will be revised as shown below in a future revision. These changes also include the COLA updates which were inadvertently not made when the STD DEP T1 2.2-1 scope was changed in COLA Rev. 2. Gray shading shows the changes from COLA Rev. 3.

COLA Part 2, Tier 2, Section 7.6 is being revised as shown below.

7.6 All Other Instrumentation Systems Required for Safety

The information in this section of the reference ABWR DCD, including all subsections, tables, and figures, is incorporated by reference with the following departures and supplements.

~~STD DEP T1 2.2-1 (Table 7.6-5 and Figure 7.6-2)~~

STD DEP T1 2.3-1 (Figure 7.6-5)

STD DEP T1 2.14-1

STD DEP T1 3.4-1 (Table 7.6-5 and Figures 7.6-1, 7.6-2, 7.6-4a)

STP DEP 1.1-2

STD DEP 1.8-1

STD DEP 7.1-1

STD DEP 7.1-2 (Table 7.6-5)

STD DEP 7.6-1 (Table 7.6-2 and Figures 7.6-2, 7.6-14)

STD DEP 7.6-2 ~~(Table 7.6-5)~~

STD DEP 7.6-3 (Figures 7.6-9, 7.6-11)

STD DEP 7.6-4

STD DEP 11.5-1 (Figure 7.6-5)

STD DEP Admin ~~(Figure 7.6-4a)~~

Table 7.6-5 Reactor Operator Information for NMS

~~(1) The NMS provides for the activations of the following annunciations at the main control panel:~~
~~(j) APRM *neutron flux* **simulated thermal power** upscale rod block~~
(4) Certain NMS-related information, available on the main control panel, is implemented in software which is independent of the ~~*process computer*~~**plant computer functions**. This information is listed below.
(5) ~~*CRT*~~**VDU** displays, which are part of the performance monitoring and control system, provide certain NMS-related displays and controls on the main control panel which are listed below:
~~(iii)~~**(ii) SRNM ATWS permissive**
(qq) APRM ATWS permissive
~~(w) *Reference APRM downscale rod block status (for each MRBM main channel)***~~**MRBM subchannel auto-bypassed**
Acronyms ~~*CRT Cathode Ray Tube*~~ **VDU Video Display Unit**

COLA Rev. 3, Part 2, Tier 1, Section 2.2 is being changed as shown below.

2.2 Control and Instrument Systems

The information in this section of the reference ABWR DCD, including all subsections, tables, and figures, is incorporated by reference with the following departures.

STD DEP T1 2.2-1 (~~Figure 2.2.1,~~ Table 2.2.1)

STD DEP T1 2.14-1 (Figure 2.2.6)

STD DEP T1 3.4-1 (Figure 2.2.1, Figure 2.2.5, Figure 2.2.7b, Table 2.2.11)

STD DEP Admin

COLA Rev. 3, Part 2, Tier 1, Subsection 2.2.7 is being changed as shown below.

2.2.7 Reactor Protection System

~~STD DEP T1 2.2-1~~

STD DEP T1 3.4-1 (Figure 2.2.7b)

STD DEP Admin

Design Description

COLA Rev. 3, Part 2, Tier 2, Section 21.0, Table 21.0-1 is being changed as shown below.

Table 21.0-1 List of Chapter 21 Figures with Changes

Chapter	Figure	Sheet No.	Title	Departure No.
7	7.6-2	3a	Neutron Monitoring System IBD	~~STD DEP T1 2.2-1~~ STD DEP T1 3.4-1
7	7.6-2	9	Neutron Monitoring System IBD	~~STD DEP 7.2-1~~ ~~STD DEP T1 2.2-1~~ STD DEP 7.6-1
7	7.6-2	9a	Neutron Monitoring System IBD	~~STD DEP T1 2.2-1~~ ~~STD DEP 7.2-1~~ STD DEP 7.6-1
7	7.6-2	9b	Neutron Monitoring System IBD	~~STD DEP T1 2.2-1~~ ~~STD DEP 7.2-1~~ STD DEP 7.6-1