

PMSTPCOL PEmails

From: George Wunder
Sent: Wednesday, May 07, 2008 4:52 PM
To: Gibson, Gregory T; Mookhoek, William
Subject: REQUESTS FOR ADDITIONAL INFORMATION
Attachments: ML081280579.pdf; ML081280533.pdf; ML081280497.pdf; ML081280516.pdf;
ML081280460.pdf

Hearing Identifier: SouthTexas34Public_EX
Email Number: 15

Mail Envelope Properties (George.Wunder@nrc.gov20080507165200)

Subject: REQUESTS FOR ADDITIONAL INFORMATION
Sent Date: 5/7/2008 4:52:12 PM
Received Date: 5/7/2008 4:52:00 PM
From: George Wunder

Created By: George.Wunder@nrc.gov

Recipients:

"Gibson, Gregory T" <gtgibson@STPEGS.COM>
Tracking Status: None
"Mookhoek, William" <wemookhoek@STPEGS.COM>
Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	3	5/7/2008 4:52:00 PM
ML081280579.pdf	90626	
ML081280533.pdf	79075	
ML081280497.pdf	79128	
ML081280516.pdf	79131	
ML081280460.pdf	90107	

Options

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

May 6, 2008

Mr. Gregory Gibson, Manager
Regulatory Affairs
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 26 RELATED TO
THE SRP SECTION 09.03.03 FOR THE SOUTH TEXAS COMBINED LICENSE
APPLICATION

Dear Mr. Gibson:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 103

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 103

Enclosure:
Request for Additional Information

cc: William Mookhoek

Distribution:
PUBLIC
NGE 1/2 R/F
RidsNroDnrlNge1
RidsNroDnrlNge2
GWunder, NRO
JHernandez, NRO
SBrock, OGC
RidsNroDsraSbpa
RidsNroDnrlNge2

ADAMS Accession No. ML081280579

NRO-002

OFFICE	SBPA/TR	SBPA/BC	OGC	NGE1/L-PM
NAME	JHernandez	PWilson	SBrock	GWunder
DATE	04/02/08	04/03/08	04/16/08	05/06/08

***Approval captured electronically in the electronic RAI system.
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Request for Additional Information
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket Nos: 52-012 and 52-013
SRP Section: 09.03.03 - Equipment and Floor Drainage System
Application Section: 9.3.8

QUESTIONS

09.03.03-1

ABWR DCD Tier 2 Section 9.3.8.1.1, "Safety Design Bases", states that the radioactive drain transfer collection piping shall be non-nuclear safety class and Quality Group D with the exception of the containment penetrations and piping in the drywell, which should be Seismic Category 1 and Quality Group B. Please clarify if MOV 006 and MOV 007 in Sheet 1 of COLA FSAR Revision 1, Figure 9.3 11, are containment isolation valves. Also, given the low quality/resolution of the drawings, the staff was unable to verify the designations of the Seismic Category 1 and Quality Group B portions of the system described above. In addition, the staff noted that there are inconsistencies between COLA FSAR Figure 9.3-11 and ABWR DCD Tier 2 Figure 1.7-1. For example, the piping identification format does not follow the convention described in Note 10 of Figure 1.7-1. Also, in Sheets 13, 15, and 17 of Figure 9.3-11 the symbols for some check valves are inconsistent with Note 6 of Figure 1.7-1. Please provide P&IDs with higher resolution and symbols that are legible and consistent with Figure 1.7 1.

09.03.03-2

ABWR DCD Section 9.3.8.1.1, "Safety Design Bases" Item 5(a) states that backflow check valves should be included in the ECCS equipment room sumps. Item 5(b) states that floor drain piping in each divisional area of the ECCS pump rooms and the Control Building shall be arranged so that flooding or backflow in one quadrant will not adversely affect other quadrants. The staff could not locate in the P&IDs the check valves and sumps for each ECCS equipment room. Please include these components (or add a reference to) in COLA FSAR Figure 9.3-11.

May 6, 2008

Mr. Gregory Gibson, Manager
Regulatory Affairs
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 25 RELATED TO
THE SRP SECTION 09.01.03 FOR THE SOUTH TEXAS COMBINED LICENSE
APPLICATION

Dear Mr. Gibson:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 130

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 130

Enclosure:
Request for Additional Information

cc: William Mookhoek

Distribution:
PUBLIC
NGE 1/2 R/F
RidsNroDnrlNge1
RidsNroDnrlNge2
GWunder, NRO
RHernandez, NRO
SBrock, OGC
RidsNroDsraSbpa
RidsOgcMailCenter

ADAMS Accession No. ML081280533

NRO-002

OFFICE	SBPA/TR	SBPA/BC	OGC	NGE1/L-PM
NAME	RHernandez	JSegala	SBrock	GWunder
DATE	04/10/08	04/10/08	04/14/08	05/06/08

*Approval captured electronically in the electronic RAI system.

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Request for Additional Information
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 09.01.03 - Spent Fuel Pool Cooling and Cleanup System
Application Section: 9.1.6.10

QUESTION

09.01.03-1

COL Information Item 9.1.6.10 states that the applicant shall assure that the RHR system connections are adequately protected from the effects of pipe whip, internal flooding, internally generated missiles, and the effects of a moderate energy pipe rupture in the vicinity. The applicant stated in FSAR Section 9.1.6.10 that a description of this analysis will be provided in an FSAR amendment in accordance with 10 CFR 50.71(e) prior to fuel load (Commitment 9.1-6). The staff requests the applicant to justify why this COL information item can not be completed within the COL review period or be addressed by a new ITAAC.

May 6, 2008

Mr. Gregory Gibson, Manager
Regulatory Affairs
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 07 RELATED TO
THE SRP SECTION 10.04.07 FOR THE SOUTH TEXAS COMBINED LICENSE
APPLICATION

Dear Mr. Gibson:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 139

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 139

Enclosure:
Request for Additional Information

cc: William Mookhoek

Distribution:
PUBLIC
NGE 1/2 R/F
RidsNroDnrlNge1
RidsNroDnrlNge2
GWunder, NRO
ASubbs, NRO
SBrock, OGC
RidsOgcMailCenter
RidsNroDsraSbpa

ADAMS Accession No. ML081280497

NRO-002

OFFICE	SBPA/TR	SBPA/BC	OGC	NGE1/L-PM
NAME	ASubbs	JSegala	SBrock	GWunder
DATE	04/09/08	04/09/08	04/11/08	05/06/08

*Approval captured electronically in the electronic RAI system.

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Request for Additional Information
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 10.04.07 - Condensate and Feedwater System
Application Section: 10.4.7

QUESTION

10.04.07-1

FSAR Section 10.4.7 describes the STP condensate and feedwater system (CFS) which incorporates by reference the information from Section 10.4.7 of the ABWR DCD with departure STP DEP 10.4-5. The departure redesigns the system by adding condensate booster pumps and increasing the number of reactor feed, and heater drain pumps in the CFS, thus modifying the functional arrangement of the system. Tier 1, Section 2.10 of the STP COLA incorporates by reference Tier 1, Section 2.10 of the ABWR DCD, which contains a design description of the CFS and the applicable system design certification ITAAC in Table 2.10.2a, and Figure 2.10.2a. Since the departure taken in FSAR Section 10.4.7 results in a change to the functional arrangement of the system, and the proposed system in the FSAR is no longer consistent with the one in the ABWR DCD, please provide justification for why a departure to ITAAC Table 2.10.2a and Figure 2.10.2a is not being made to be consistent with the STP CFS system described in FSAR section 10.4.7.

May 6, 2008

Mr. Gregory Gibson, Manager
Regulatory Affairs
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 24 RELATED TO
THE SRP SECTION 10.04.07 FOR THE SOUTH TEXAS COMBINED LICENSE
APPLICATION

Dear Mr. Gibson:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 152

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 152

Enclosure:
Request for Additional Information

cc: William Mookhoek

Distribution:
PUBLIC
NGE 1/2 R/F
RidsNroDnrlNge1
RidsNroDnrlNge2
GWunder, NRO
ASStubbs, NRO
SBrock, OGC
RidsNroDsraSbpa

ADAMS Accession No. ML081280516

NRO-002

OFFICE	SBPA/TR	SBPA/BC	OGC	NGE1/L-PM
NAME	ASStubbs	JSegala	MSmith	GWunder
DATE	04/10/08	04/15/08	04/16/08	05/06/08

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Request for Additional Information
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket No. 52-012 and 52-013
SRP Section: 10.04.07 - Condensate and Feedwater System
Application Section: 10.4.7

QUESTION

10.04.07-2

Regulatory Guide 1.206, Section C.I.10.4.7 states in part that the applicant should describe the condensate and feedwater system (CFS). A description of the CFS is included in Section 10.4.7.2 of the STP FSAR. Departure STP 10.4-5 modifies the CFS by adding components (condensate booster pumps) and changing the system configuration. FSAR Section 10.4.7.2.2, "Component Description," does not include a component description for the condensate booster pumps which was added to the CFS by departure STP 10.4-5. Since the condensate booster pumps are major component of the STP CFS system, please explain why the condensate booster pumps are not included in the component descriptions in Section 10.4.7.2.2 of the FSAR.

May 6, 2008

Mr. Gregory Gibson, Manager
Regulatory Affairs
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 27 RELATED TO
THE SRP SECTION 09.03.03 FOR THE SOUTH TEXAS COMBINED LICENSE
APPLICATION

Dear Mr. Gibson:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 102

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-012
52-013

eRAI Tracking No. 102

Enclosure:
Request for Additional Information

cc: William Mookhoek

Distribution:
PUBLIC
NGE 1/2 R/F
RidsNroDnrlNge1
RidsNroDnrlNge2
GWunder, NRO
JHernandez, NRO
SBrock, OGC
RidsNroDsraSbpa
RidsNroOgcMailCenter

ADAMS Accession No. ML081280460

NRO-002

OFFICE	SBPA/TR	SBPA/BC	OGC	NGE1/L-PM
NAME	JHernandez	PWilson	SBrock	GWunder
DATE	04/02/08	04/03/08	04/17/08	05/06/08

***Approval captured electronically in the electronic RAI system.
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Request for Additional Information
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 09.03.03 - Equipment and Floor Drainage System
Application Section: 9.3.3

QUESTIONS

09.03.03-3

ABWR DCD COL Item 9.15, "Radioactive Drain Transfer systems" states that the COL applicant will provide P&IDs for the radioactive drainage system. COLA FSAR Section 9.3.3.2, "Non Radioactive Drains (Interface Requirements)" indicates that this section addresses COL license Information Item 9.15. However, COL information Item 9.15 only refers to the radioactive drainage system and does not require (nor the staff found in the FSAR) additional P&IDs regarding the non-radioactive drainage system. Please revise the FSAR to remove the reference to COL Item 9.15 for the non-radioactive drainage system.

09.03.03-4

ABWR DCD Section 9.3.3.2.5, "Instrumentation (Interface Requirement)," states that provisions for obtaining water samples from the non-radioactive drain system and a sampling analysis program shall be provided to show that radioactive liquids are not being discharged from the non-radioactive drain system. A conceptual drawing of this system is provided in COLA FSAR Figure 9.3-12. However, the staff could only verify radiation monitoring. FSAR Section 9.3.3.2.3 states that means are provided to perform any required tests or analyses required by the discharge permit. However, the provisions for obtaining samples are not specifically discussed in the FSAR or shown in Figure 9.3-12. Please, address the instrumentation interface requirements by describing in more detail the sampling and analysis program and the sampling design provisions for the non-radioactive drainage system.