## PMSummerColpEM Resource

**From:** Tanya Simms
**Sent:** Thursday, April 02, 2009 5:23 PM
**To:** 'apaglia@scana.com'
**Cc:** Ravindra Joshi; PMSummerColpEM Resource; 'Amy M. Monroe'; 'April R. Rice'; 'Jerry P. Harrison'; 'Julie M. Giles'; 'kjbrowne@santeecooper.com'; 'jwaller@scana.com'; 'tkkibler@scana.com'; 'dgriffin@scana.com'
**Subject:** RAI Letter No. 042 Related SRP Section 9.2.4 for Summer Units 2 and 3
**Attachments:** SUM-RAI-LTR-042.pdf

To All,

Attached is RAI Letter No. 042 related to SRP Sections 9.2.4 for Summer Units 2 and 3. The ADAMS accession number is ML090921040.

Tanya Simms
Project Manager
New Reactor Licensing
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852-2738
301-415-1387
Tanya.Simms@nrc.gov

**Hearing Identifier:** VCSummer_COL_Public
**Email Number:** 228

**Mail Envelope Properties** (B4ECC0E252653F48B3F57C3B833465E80E5B6077D9)

**Subject:** RAI Letter No. 042 Related SRP Section 9.2.4 for Summer Units 2 and 3
**Sent Date:** 4/2/2009 5:22:47 PM
**Received Date:** 4/2/2009 5:22:47 PM
**From:** Tanya Simms

**Created By:** Tanya.Simms@nrc.gov

**Recipients:**
"Ravindra Joshi" <Ravindra.Joshi@nrc.gov>
Tracking Status: None
"PMSummerColpEM Resource" <PMSummerColpEM.Resource@nrc.gov>
Tracking Status: None
"'Amy M. Monroe'" <amonroe@scana.com>
Tracking Status: None
"'April R. Rice'" <arice@scana.com>
Tracking Status: None
"'Jerry P. Harrison'" <jharrison2@scana.com>
Tracking Status: None
"'Julie M. Giles'" <jmgiles@scana.com>
Tracking Status: None
"'kjbrowne@santeecooper.com'" <kjbrowne@santeecooper.com>
Tracking Status: None
"'jwaller@scana.com'" <jwaller@scana.com>
Tracking Status: None
"'tkkibler@scana.com'" <tkkibler@scana.com>
Tracking Status: None
"'dgriffin@scana.com'" <dgriffin@scana.com>
Tracking Status: None
"'apaglia@scana.com'" <apaglia@scana.com>
Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

| **Files** | **Size** | **Date & Time** |
|---|---|---|
| MESSAGE | 401 | 4/2/2009 5:22:47 PM |
| SUM-RAI-LTR-042.pdf | 127535 | |

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

## SummerRAIsPEm Resource

**From:** Tanya Simms
**Sent:** Thursday, April 02, 2009 4:18 PM
**To:** SummerRAIsPEm Resource
**Subject:** Request for Additional Information Letter No. 042 Related to SRP Section 09.02.04 for the Virgil C. Summer Nuclear Station Units 2 and 3 Combined License Application
**Attachments:** SUM-RAI-LTR-042.doc

**Hearing Identifier:** Summer_COL_eRAIs
**Email Number:** 45

**Mail Envelope Properties** (B4ECC0E252653F48B3F57C3B833465E80E5B6077D8)

**Subject:** Request for Additional Information Letter No. 042 Related to SRP Section 09.02.04 for the Virgil C. Summer Nuclear Station Units 2 and 3 Combined License Application
**Sent Date:** 4/2/2009 4:18:20 PM
**Received Date:** 4/2/2009 4:18:21 PM
**From:** Tanya Simms

**Created By:** Tanya.Simms@nrc.gov

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

**Post Office:** HQCLSTR02.nrc.gov

| **Files** | **Size** | **Date & Time** |
|---|---|---|
| MESSAGE | 3 | 4/2/2009 4:18:21 PM |
| SUM-RAI-LTR-042.doc | 50682 | |

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

April 2, 2009

Mr. Alfred M. Paglia
Manager, Nuclear Licensing
MC P40
South Carolina Electric & Gas Company
PO Box 88
Jenkinsville, SC 29065

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 042 RELATED TO SRP SECTION 09.02.04 FOR THE VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 COMBINED LICENSE APPLICATION

Dear Mr. Paglia:

By letter dated March 27, 2008, South Carolina Electric & Gas Company submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advance passive pressurized water reactors pursuant to 10 CFR Part 52. The 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 30 days of the date of this letter. If changes are needed to the final safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, you may contact me at 301-415-1387 or you may contact Ravindra Joshi the lead project manager for the Virgil C. Summer Nuclear Station combined license at 301-415-6191.

Sincerely,

/**RA**/

Tanya Simms, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-027
52-028

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-1387 or you may contact Ravindra Joshi the lead project manager for the Virgil C. Summer Nuclear Station combined license at 301-415-6191.

Sincerely,

/**RA**/

Tanya Simms, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-027
52-028
eRAI Tracking No. 2283

Enclosure:
Request for Additional Information

Distribution:

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| Public | LGoldin | BHughes |
| RidsNroDnrlNwe1 | MSpencer | MComar |
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NRO-002

| OFFICE | SBPB/BC | NWE1/PM | OGC | NWE1/L-PM |
|---|---|---|---|---|
| NAME | JSegala* | TSimms* | MSpencer * | RJoshi* |
| DATE | 03/04/09 | 03/05/09 | 03/12/09 | 04/02/09 |

*Approval captured electronically in the electronic RAI system.

**OFFICIAL RECORD COPY**

**Request for Additional Information No. 2283 Revision 0**
**Virgil C. Summer Nuclear Station, Units 2 and 3**
**South Carolina Electric and Gas Company**
**Docket No. 52-027 and 52-028**
**SRP Section: 09.02.04 - Potable and Sanitary Water Systems**
**Application Section: 9.2.5**

QUESTION for Balance of Plant Branch 2 (SBPB)

09.02.04-1

As applied to the potable water system, GDC 60 requires system design provisions to prevent liquid effluents containing radioactive materials from contaminating the potable water system. Section 9.2.5.3 of the FSAR states that no interconnections exist between the potable water system (including its supply from the water treatment facility) and any system using water for purposes other than domestic water service including any potentially radioactive system. FSAR Figure 9.2-201, “Raw Water System Flow Diagram,” appears to show that interconnections to other systems do exist. Provide additional information in the FSAR to address this inconsistency.