

## SummerRAIsPEm Resource

---

**From:** McGovern, Denise  
**Sent:** Friday, September 05, 2014 11:00 AM  
**To:** SummerRAIsPEm Resource  
**Subject:** SUMMER NUCLEAR STATION UNITS 2 AND 3: REQUEST FOR ADDITIONAL  
INFORMATION LETTER NO. 1 REGARDING LICENSE AMENDMENT REQUEST (LAR)  
14-03  
**Attachments:** RAI 7663 Letter.docx

*Denise L. McGovern*

Senior Project Manager  
U.S. Nuclear Regulatory Commission  
Office of New Reactors  
301.415.0681

**Hearing Identifier:** Summer\_COL\_eRAIs  
**Email Number:** 103

**Mail Envelope Properties** (A41C2340DAB39B44AD0B9623285CB333EA82A5E58D)

**Subject:** SUMMER NUCLEAR STATION UNITS 2 AND 3: REQUEST FOR ADDITIONAL  
INFORMATION LETTER NO. 1 REGARDING LICENSE AMENDMENT REQUEST (LAR) 14-03  
**Sent Date:** 9/5/2014 10:59:54 AM  
**Received Date:** 9/5/2014 10:59:56 AM  
**From:** McGovern, Denise

**Created By:** Denise.McGovern@nrc.gov

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

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

Files	Size	Date & Time
MESSAGE	131	9/5/2014 10:59:56 AM
RAI 7663 Letter.docx	43863	

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

September 5, 2014

Mr. Ronald A. Jones, Vice President  
New Nuclear Operations  
South Carolina Electric & Gas Company  
14368 State Highway 213  
Jenkinsville, SC 29065

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3: REQUEST FOR  
ADDITIONAL INFORMATION LETTER NO. 1 REGARDING LICENSE  
AMENDMENT REQUEST (LAR) 14-03: TIER 2\* EDITORIAL AND  
CONSISTENCY CHANGES

Dear Mr. Jones:

In accordance with the provisions of 10 CFR 50.90, by letter dated June 12, 2014 South Carolina Electric & Gas Company (SCE&G) submitted a request for a license amendment (LAR) for the Virgil C. Summer Nuclear Station, Units 2 and 3 Combined Licenses (Licenses No. NPF-93 and NPF-94, respectively). SCE&G supplemented this request on July 9, 2014.

The NRC staff is performing a detailed review of this LAR to enable the staff to reach a conclusion on the safety of the proposed LAR.

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 be made to the updated 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 301-415-0681 or [denise.mcgovern@nrc.gov](mailto:denise.mcgovern@nrc.gov).

Sincerely,

*/RA/*

Denise L. McGovern, Senior Project Manager  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-027  
52-028

eRAI Tracking No. 7663

Enclosure:  
Request for Additional Information

cc: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-0681 or [denise.mcgovern@nrc.gov](mailto:denise.mcgovern@nrc.gov).

Sincerely,

**/RA/**

Denise L. McGovern, Senior Project Manager  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-027  
52-028

eRAI Tracking No. 7663

Enclosure:  
Request for Additional Information

cc: see next page

**DISTRIBUTION:**

Public	JMartin	DJaffe
RidsNroDnrlLb4	LBurkhart	RJoshi
RidsOgcMailCenter	TFredette	RLukes
RidsRgn2MailCenter	RidsAcrcAcnwMailCenter	BBavol
AJohnson	RLukes	TChuang
MTonacci	EStutzcage	

\*concur via eRAI

OFFICE	DSEA/RPAC:BC	DNRL/LB4:PM
NAME	MMcCoppin*	DMcGovern*
DATE	9/4/14	9/5/14

**OFFICIAL RECORD COPY**

## **Request for Additional Information**

Virgil C. Summer Nuclear Station, Units 2 and 3  
South Carolina Electric and Gas Company  
Docket No. 52-027 and 52-028  
License Amendment Request 14-03

### **QUESTION:**

10 CFR 50, Appendix A, General Design Criterion (GDC) 61 requires in part that radioactive waste systems and systems which may contain radioactivity be designed with suitable shielding for radiation protection. In addition, 10 CFR 20.1101(b) requires that the licensee use, to the extent practical, engineering controls to achieve occupational doses as low as is reasonably achievable (ALARA).

In LAR 14-03, the licensee proposes to change the thickness of the E-W Shield Wall (Between Column Lines 1 and 2 Extending from Column Line N East), in UFSAR Figure 3.7.2-12 (Sheets 3 and 4) from 3'-0" to 2'-9". The licensee indicates that this change is being made to be consistent with Tier 1 Table 3.3-1, which lists this wall's thickness of 2'-9" and that the change has no impact on the Aircraft Impact Assessment documented in the UFSAR. However, the licensee does not provide any information regarding which wall thickness was used in determining the radiation zoning of the surrounding areas or any evaluation indicating if the change has any impact on the accessibility to nearby rooms or areas. This wall separates two very high radiation areas (the spent resin tank room and the resin transfer pump/valve room) on elevation 100'-0" and 107'-2" and the WSS valve/piping area (between 100 rad/hour and 500 rad/hour) and the new fuel storage pit (less than 2.5 mrem/hour) on the 117'-6" elevation.

Please demonstrate that the radiation zones provided in UFSAR Chapter 12 for the above mentioned areas and other surrounding areas are accurate with the E-W shield wall thickness of 2'-9" and that no additional access limitations are needed.