

PMSummerColpEM Resource

From: Ravindra Joshi
Sent: Friday, January 23, 2009 11:39 AM
To: A. Paglia; Amy M. Monroe; April R. Rice; Donna S. Griffin; Jerry P. Harrison; Johnnie Waller (johnnie.waller@scana.com); Julie M. Giles; Kenneth J. Browne; Tria Kibler
Cc: SummerCOL Resource
Subject: RAI letter number 25 related to SRP section 12.03-12.04 for Summer Units 2 and 3
Attachments: SUM-RAI-LTR-025l.pdf

To All,

Attached is RAI letter No.025 related to SRP Section 12.03-12.04 for the Summer Units 2 and 3. The ADAMS Accession number is ML090230363.

Ravi Joshi
Project Manager
NRO/DNRL/NWE1
US NRC
301-415-6191

Hearing Identifier: VCSummer_COL_Public
Email Number: 159

Mail Envelope Properties (CEEA97CC21430049B821E684512F6E5EB654ACA9F5)

Subject: RAI letter number 25 related to SRP section 12.03-12.04 for Summer Units 2 and 3
Sent Date: 1/23/2009 11:38:34 AM
Received Date: 1/23/2009 11:38:35 AM
From: Ravindra Joshi
Created By: Ravindra.Joshi@nrc.gov

Recipients:

"SummerCOL Resource" <SummerCOL.Resource@nrc.gov>
Tracking Status: None
"A. Paglia" <apaglia@scana.com>
Tracking Status: None
"Amy M. Monroe" <amonroe@scana.com>
Tracking Status: None
"April R. Rice" <arice@scana.com>
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"Donna S. Griffin" <dgriffin@scana.com>
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"Jerry P. Harrison" <jharrison2@scana.com>
Tracking Status: None
"Johnnie Waller (johnnie.waller@scana.com)" <johnnie.waller@scana.com>
Tracking Status: None
"Julie M. Giles" <jmgiles@scana.com>
Tracking Status: None
"Kenneth J. Browne" <kjbrowne@santeecooper.com>
Tracking Status: None
"Tria Kibler" <tkkibler@scana.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	256	1/23/2009 11:38:35 AM
SUM-RAI-LTR-025l.pdf	142941	

Options

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

SummerRAIsPEm Resource

From: Ravindra Joshi
Sent: Friday, January 23, 2009 10:58 AM
To: SummerRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 025 RELATED TO SRP SECTION 12.03-12.04 FOR THE VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 COMBINED LICENSE APPLICATION
Attachments: SUM-RAI-LTR-025.doc

Hearing Identifier: Summer_COL_eRAIs
Email Number: 27

Mail Envelope Properties (CEEA97CC21430049B821E684512F6E5EB654ACA930)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 025 RELATED TO SRP SECTION 12.03-12.04 FOR THE VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 COMBINED LICENSE APPLICATION

Sent Date: 1/23/2009 10:58:05 AM

Received Date: 1/23/2009 10:58:06 AM

From: Ravindra Joshi

Created By: Ravindra.Joshi@nrc.gov

Recipients:

"SummerRAIsPEm Resource" <SummerRAIsPEm.Resource@nrc.gov>

Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	3	1/23/2009 10:58:06 AM
SUM-RAI-LTR-025.doc	52730	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

January 23, 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. 025 RELATED TO
SRP SECTION 12.03-12.04 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 301-415-6191 or Ravindra.Joshi@nrc.gov.

Sincerely,

/RA/

Ravindra G. Joshi, Lead 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 301-415-6191 or Ravindra.Joshi@nrc.gov.

Sincerely,

/RA/

Ravindra G. Joshi, Lead Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-027
52-028

eRAI Tracking No. 1782, 1791

Enclosure:
Request for Additional Information

Distribution:

Public	BHughes	TFrye	SGoetz
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NRO-002

OFFICE	CHPB/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	TFrye*	RJoshi*	MSpencer*	RJoshi*
DATE	12/12/08	12/12/08	1/15/09	1/15/09

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information
Virgil C. Summer Nuclear Station Units 2 and 3
South Carolina Electric & Gas Company
Docket No. 52-027 and 52-028
SRP Section: 12.03-12.04- Radiation Protection Design Features

Application Section: FSAR Section 12.4

QUESTION from Health Physics Branch (CHPB)

12.03-12.04-1

VC Summer COL FSAR section 12.4.1.9 provides a description of the potential sources of exposure to construction workers. The dose limits to the workers are reviewed by the staff against the standards of 10 CFR 20.1301.

10 CFR 20.1301(a)(1) states "The total effective dose equivalent to individual members of the public from the licensed operation does not exceed 0.1 rem (1 mSv) in a year".

The Staff will review related VC Summer SCOL documents to support an independent assessment of compliance with the regulations. The staff, however, needs additional information to make a determination of reasonable assurance.

The V. C. Summer COL Environmental Report subsection 4.5.3.1.2 states that an Independent Spent Fuel Storage Installation (ISFSI) could be in operation to receive Unit 1 spent nuclear fuel while Unit 3 is still under construction.

VC Summer COL FSAR Subsection 12.4.1.9.2 does not describe whether the ISFSI was considered as a source of direct exposure to construction workers on Units 2 & 3.

Please revise FSAR subsection 12.4.1.9.2 to describe this and any other potential sources of exposure, the potential contribution to construction worker exposure, and provide sufficient information to demonstrate that standards of 10 CFR 20.1301 are met.

12.03-12.04-2

V C Summer COL FSAR section 12.4.1.9 provides a description of the potential sources of exposure to construction workers. The dose limits to the workers are reviewed by the staff against the standards of 10 CFR 20.1301.

10 CFR 20.1301 (a)(1) states "The total effective dose equivalent to individual members of the public from the licensed operation does not exceed 0.1 rem (1 mSv) in a year".

The Staff will review related V C Summer SCOL documents to support an independent assessment of compliance with the regulations, but the staff needs additional information to make a determination of reasonable assurance.

The V C Summer COL FSAR subsection 12.4.1.9.3 discusses sources of exposure from effluents to site construction workers, but the FSAR does not include potential exposure to liquid effluents from Unit 2 while workers are performing liquid waste effluent discharge piping connections.

Please revise FSAR subsection 12.4.1.9.3 to describe this potential source of exposure, the potential contribution to construction worker exposure, and provide sufficient information to demonstrate that the standards of 10 CFR 20.1301 concerning the estimated dose to construction workers due to the liquid waste effluent discharge piping connection between Units 2 and 3 are met.