

VoglecolRAIsPEm Resource

From: Jaffe, David
Sent: Friday, November 07, 2014 1:47 PM
To: VoglecolRAIsPEm Resource
Subject: RAI_7741.docx
Attachments: RAI_7741.docx

Hearing Identifier: Vogtle_COL_eRAIs
Email Number: 109

Mail Envelope Properties (BBC4D3C29CD0E64E9FD6CE1AF26D84D50195A5109733)

Subject: RAI_7741.docx
Sent Date: 11/7/2014 1:47:12 PM
Received Date: 11/7/2014 1:47:15 PM
From: Jaffe, David

Created By: David.Jaffe@nrc.gov

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

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	3	11/7/2014 1:47:15 PM
RAI_7741.docx	41503	

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

November 7, 2014

Mr. B. L. Ivey, Vice President
Regulatory Affairs
Southern Nuclear Operating Company, Inc.
40 Inverness Center Parkway, B022
Birmingham, AL 35242

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 04 RELATED TO
FUKUSHIMA NEAR-TERM TASK FORCE RECOMMENDATION 4.2, "MITIGATION
STRATEGIES FOR BEYOND-DESIGN-BASIS EXTERNAL EVENTS"
FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4
COMBINED LICENSES

Dear Mr. Ivey:

On March 12, 2012, the NRC staff issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." Southern Nuclear Operating Company (SNC) responded to Order EA-12-049 by letter dated August 22, 2013 (ADAMS Accession No. ML13235A228). As part of the response, the licensee submitted a non-proprietary Westinghouse report, APP-GW-GLR-171, "AP1000 FLEX Integrated Plan". A proprietary version of APP-GW-GLR-171 was also submitted as an attachment to the August 22, 2013 letter and designated as APP-GW-GLR-170 (ADAMS Accession No. ML13235A229.)

In the course of reviewing the August 22, 2013 response to Order EA-12-049 the NRC staff has identified the need for additional information. The request for additional information (RAI) is enclosed. Please respond to this RAI within 30 days of receipt of this letter.

If you have any questions or comments concerning this matter, you may contact me at 301-415-1439 or david.jaffe@nrc.gov.

Sincerely,

/RA/

David H. Jaffe, Senior Project Manager
Licensing Branch 4
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-025
52-026
eRAI Tracking No. 7741

Enclosure:
Request for Additional Information 04

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-1439 or david.jaffe@nrc.gov.

Sincerely,

/RA/

David H. Jaffe, Senior Project Manager
Licensing Branch 4
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-025
52-026
eRAI Tracking Nos. 7741

Enclosure:
Request for Additional Information 04

Distribution:

Public	JMartin	RReyes
RidsNroDnrILb4	LBurkhart	DMcGovern
RButler	TVClark	DJaffe
RidsOgcMailCenter	MBrown	RJoshi
RidsRgn2MailCenter	RidsAcrsAcnwMailCenter	TDrzewiecki
CAshley	JMcKirgan	

NRO-002

OFFICE	DSRA/SCVB	DSRA/SCVB:BC	DNRL/LB4PM
NAME	TDrzewiecki*	JMcKirgan*	DJaffe *
DATE			

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD

REQUEST FOR ADDITIONAL INFORMATION NO. 04

Vogtle Nuclear Site, Units 3 and 4

Operating Company: Southern Nuclear Operating Co.

Docket No. 52-0025 and 52-0026

Fukushima NTTF 4.2 - NRC ORDER EA-12-049

QUESTIONS

Commission Order EA-12-049 requires the licensee to address the requirement of maintaining or restoring core cooling in the final phase for mitigating beyond-design-basis external events. The response, provided in a letter dated August 22, 2013, appears to assume the automatic depressurization system (ADS) has actuated before entering the final phase. Section 6.3.7.7 of the FSAR states if the plant does not need actuation of ADS the operators are directed to de-energize all loads on the 24-hour batteries, blocking actuation of ADS and allowing for its actuation later should plant conditions degrade. This later time is undefined, which has caused staff to question whether the passive residual heat removal heat exchanger is credited for core decay heat removal entering the final phase, or if ADS has been actuated prior to entering the final phase. Additionally, Table 3.11-1 of the FSAR provides environmentally qualified electrical and mechanical equipment required operating times of 24 hours for ADS stages 1-3 and 72 hours for ADS stage 4, which has caused staff to question the availability of the ADS system to actuate beyond their specified operating times. NRC staff is requesting the following information:

- a) What method of core cooling is credited entering the final phase?
- b) Do the applicable Equipment Qualifications cover de-energizing, re-energizing, and firing of the ADS system? If not, how is the availability of ADS assured beyond the operating times specified in Table 3.11-1 of the FSAR?