

Vogtle PEmails

From: Reyes-Maldonado, Ruth
Sent: Monday, January 09, 2017 4:43 PM
To: Vogtle PEmails; Chamberlain, Amy Christine
Cc: Zhao, Jack; Patel, Chandu; 'syagee@southernco.com'
Subject: Request for Additional Information (DEIA/ICE) - SNC Vogtle Electric Generating Plant Units 3&4: Request for License Amendment and Exemption: ADS and IRWST Injection Block (LAR-16-018)

Ms. Chamberlain,

By letter dated October 14, 2016, Southern Nuclear Operating Company, LLC., (SNC, the licensee) requested an amendment to the combined licenses (COLs) for Vogtle Electric Generating Plant (VEGP) Units 3 and 4 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML16288A810). The requested amendment proposes changes to provide additional design details related to the automatic depressurization system (ADS) actuation blocking device, which is used to reduce the potential for spurious actuations of the ADS valves.

The requests for additional information (RAIs) are needed to support NRC staff's continued technical review of the proposed LAR.

If you have any questions, please contact me.

Ruth C. Reyes
Project Manager
AP1000, Licensing Projects Branch 4
Office of New Reactors
Nuclear Regulatory Commission
Work Phone: (301) 415-3249
Email: Ruth.Reyes@nrc.gov

REQUESTS FOR ADDITIONAL INFORMATION

REQUEST FOR LICENSE AMENDMENT AND EXEMPTION

ADS AND IRWST INJECTION BLOCK (LAR-16-018)

VOGTLE ELECTRIC GENERATING PLANT, UNITS 3 AND 4

LICENSE NOS NPF-91 AND NPF-92

In the License Amendment Request (LAR-16-018), the proposed new injection blocking device for both automatic depressurization system (ADS) and in-containment refueling water storage tank (IRWST) injection valves will send blocking functions to component interface modules (CIM) to prohibit the injection, which, however, is a critical safety function whenever there is a loss-of-coolant accident (LOCA). The NRC staff found that there is lack of information on how the new injection blocking device is designed, for example, how the input signals are processed and the output actuation commands are produced.

On Page 17 of Enclosure 4 of the LAR, it states that "the majority of failures will either cause the block to be removed...". What are the other failures which are not "fail safe"? In addition, the new blocking device is composed of commercial-off-the shelf (COTS) components which have been dedicated. Please provide

evidence and/or reference to the proper dedication of the commercial components used for the blocking devices.

10 CFR 52.47(a)(2), "Contents of applications; technical information", states, in part, with regard to systems, structures and components (SSCs) that the description shall be sufficient to permit understanding of the system designs. Please provide adequate design and dedication information for the new blocking device which can be used to support the safety findings with reasonable assurance.

Hearing Identifier: Vogtle_COL_Docs_Public
Email Number: 67

Mail Envelope Properties (a0604dd8fa404675ac79bc28c30d1cec)

Subject: Request for Additional Information (DEIA/ICE) - SNC Vogtle Electric Generating Plant Units 3&4: Request for License Amendment and Exemption: ADS and IRWST Injection Block (LAR-16-018)

Sent Date: 1/9/2017 4:42:47 PM
Received Date: 1/9/2017 4:42:50 PM
From: Reyes-Maldonado, Ruth

Created By: Ruth.Reyes@nrc.gov

Recipients:

"Zhao, Jack" <Jack.Zhao@nrc.gov>
Tracking Status: None
"Patel, Chandu" <Chandu.Patel@nrc.gov>
Tracking Status: None
"syagee@southernco.com" <syagee@southernco.com>
Tracking Status: None
"Vogtle PEmails" <Vogtle.PEmails@nrc.gov>
Tracking Status: None
"Chamberlain, Amy Christine" <ACCHAMBE@southernco.com>
Tracking Status: None

Post Office: HQPWMSMRS01.nrc.gov

Files	Size	Date & Time
MESSAGE	2670	1/9/2017 4:42:50 PM

Options

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