

Vogle PEmails

From: Gleaves, Bill
Sent: Wednesday, September 5, 2018 8:26 AM
To: Chamberlain, Amy Christine; Eddie Grant - SoCo Contractor (x2edgran@southernco.com)
Cc: 'Sparkman, Wesley A.'; Vogtle PEmails; Travis, Boyce; Adam Quarles (AGQUARLE@southernco.com); Ray, Sheila; Jackson, Diane; Martinez Navedo, Tania; Wagage, Harry
Subject: Vogtle 3&4 - Final RAI No. 2 on LAR-17-043, "Containment Pressure Analysis"
Attachments: Vogtle LAR-17-043 Final RAI No2 Q1 EEB.pdf

Amy and Eddie,

On 7.17.18, the staff issued LAR 17-043 RAI No. 1 as "Final." It was discussed and SNC accepted it as a final RAI on the public meeting of 7.12.18. It is publically released and available for viewing in public ADAMS at ML18197A060.

Per our conversation and your request to send as a final RAI yesterday, the staff is issuing RAI No. 2 as "Final." It was sent as a draft to you on 8.20.18 (ML18232A173) and discussed at a non-public clarification call on 8.28.18.

The staff will not be able to complete the review approximately 1 month after receipt of an acceptable response or supplement. If the change is needed sooner than that date to support construction, please consider submitting a request for a PAR.

This is being sent to document NRCs issuance of the final RAIs and that SNC believes that it plans to respond to both RAI No. 1 and RAI No. 2 by letter to be dated September 28, 2018.

Billy
William (Billy) Gleaves
Senior Project Manager
Licensing Branch 4
OWFN 8H17
US NRC

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Subject: Vogtle 3&4 - Final RAI No. 2 on LAR-17-043, "Containment Pressure Analysis"
Sent Date: 9/5/2018 8:26:16 AM
Received Date: 9/5/2018 8:26:21 AM
From: Gleaves, Bill

Created By: Bill.Gleaves@nrc.gov

Recipients:

"Sparkman, Wesley A." <WASPARKM@southernco.com>
Tracking Status: None
"Vogtle PEmails" <Vogtle.PEmails@nrc.gov>
Tracking Status: None
"Travis, Boyce" <Boyce.Travis@nrc.gov>
Tracking Status: None
"Adam Quarles (AGQUARLE@southernco.com)" <AGQUARLE@southernco.com>
Tracking Status: None
"Ray, Sheila" <Sheila.Ray@nrc.gov>
Tracking Status: None
"Jackson, Diane" <Diane.Jackson@nrc.gov>
Tracking Status: None
"Martinez Navedo, Tania" <Tania.MartinezNavedo@nrc.gov>
Tracking Status: None
"Wagage, Harry" <Harry.Wagage@nrc.gov>
Tracking Status: None
"Chamberlain, Amy Christine" <ACCHAMBE@southernco.com>
Tracking Status: None
"Eddie Grant - SoCo Contractor (x2edgran@southernco.com)" <x2edgran@southernco.com>
Tracking Status: None

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Options

Priority: Standard
Return Notification: No
Reply Requested: No
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FINAL

Request for Additional Information No. 2

Issue Date: September 5, 2018

Application Title: VEGP Units 3 and 4 - LARs

Operating Company: Southern Nuclear Operating Co.

Docket No. 52-025 and 52-026

Review Section: 03.11 - Environmental Qualification of Mechanical and Electrical Equipment

Application Section: LAR-17-043 EENB RAI

QUESTION 1

10 CFR 50.49(e) states that the electric equipment qualification program must include and be based on temperature, pressure, humidity, chemical effects, radiation, aging, submergence, synergistic effects and margins.

VEGP 3&4 UFSAR Section 3.D.4.3, "Mild Versus Harsh Environments," states that the AP1000 equipment qualification program conforms to the requirements of 10 CFR 50.49 for the qualification of harsh environment equipment. Furthermore, UFSAR Section 3.11.1.2, "Environmental Conditions," states that in the event of potential flooding/wetting, one of the following criteria is applied for protection of equipment for service in such an environment: 1) equipment will be qualified for submergence due to flooding/wetting, 2) equipment will be protected from wetting due to spray and 3) equipment will be evaluated to show that failure of the equipment due to flooding/wetting is acceptable since its safety-related function is not required or has otherwise been accomplished.

Staff reviewed LAR-17-043, APP-SSAR-GSC-157, Revision 1, "AP1000 Long-Term LOCA Containment Integrity Analysis with WGOThIC," APP-SSAR-GSC-166, Revision 1, "AP1000 Steamline Break Containment Integrity Analysis," and APP-GW-VPR-008, Revision 0, "Evaluation of Environmental Conditions Envelope Exceedances."

The applicant in LAR-17-043, stated that mass and energy (M&E) releases for Loss of Coolant Accident (LOCA) and Main Steam Line Break (MSLB) events are also recalculated. Furthermore, the applicant stated in LAR 17-043, Section 3.1.4, "Updates to Containment Integrity (Containment Peak Pressure) Analyses," that the updated containment pressure and temperature does not result in a change to the limiting profiles assumed in the equipment qualification testing program. In addition, the applicant stated in the LAR that there are no radiation zone changes or radiological access control changes required due to the proposed changes.

Staff finds that the applicant has addressed the aspects of equipment qualification related to containment pressure and temperature as well as radiation but did not address equipment subject to submergence. Please discuss how the proposed changes affect equipment subject to submergence or please confirm that submerged equipment remains qualified as a result of the proposed changes. Please add a discussion in the LAR regarding the qualification of submerged equipment, as applicable.