

Vogle PEmails

From: Habib, Donald
Sent: Friday, December 01, 2017 11:12 AM
To: ptapscot@southernco.com; Chamberlain, Amy Christine
Cc: neil.haggerty@excelservices.com; Patel, Chandu; Vogle PEmails; Otto, Ngola; Ray, Sheila; Martinez Navedo, Tania; Dixon-Herrity, Jennifer
Subject: Correction: RAI Transmittal for Vogle 3 & 4 LAR 17-018 (RAI LAR 17-018-1)
Attachments: RAI LAR 17-018-1 RAI_9244 As Issued-Corrected 12-1-17.docx

To All –

The second question in this RAI has been corrected. Please use the corrected version, attached.

Thanks

Don Habib
Project Manager
NRO/DNRL, Licensing Branch 4
O-8D13
301-415-1035

From: Habib, Donald
Sent: Friday, December 01, 2017 8:22 AM
To: 'ptapscot@southernco.com' <ptapscot@southernco.com>; 'Chamberlain, Amy Christine' <ACCHAMBE@southernco.com>
Cc: 'neil.haggerty@excelservices.com' <neil.haggerty@excelservices.com>; Patel, Chandu <Chandu.Patel@nrc.gov>; Vogle PEmails <Vogle.PEmails@nrc.gov>; Otto, Ngola <Ngola.Otto@nrc.gov>; Ray, Sheila <Sheila.Ray@nrc.gov>; Martinez Navedo, Tania <Tania.MartinezNavedo@nrc.gov>
Subject: RAI Transmittal for Vogle 3 & 4 LAR 17-018 (RAI LAR 17-018-1)

To All:

By letter dated August 30, 2017, Southern Nuclear Company submitted License Amendment Request No. 17-018 to the U. S. Nuclear Regulatory Commission (NRC) for Vogle Electric Generating Plant Units 3 and 4, Combined License Nos. NPF-91 and NPF-92 (ADAMS Accession No. ML17242A279). The NRC staff is reviewing the request to enable the staff to reach a conclusion on the safety of the proposed changes.

The NRC staff has identified that additional information is needed to continue the review. The staff's request for additional information (RAI) is contained in the attachment to this email.

To support the review schedule, you are requested to respond within 30 days of the date of this email. 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 301-415-1035.

Sincerely,

Donald Habib, Project Manager
Licensing Branch 4
Division of New Reactor Licensing
Office of New Reactors
301-415-1035

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Subject: Correction: RAI Transmittal for Vogtle 3 & 4 LAR 17-018 (RAI LAR 17-018-1)
Sent Date: 12/1/2017 11:11:37 AM
Received Date: 12/1/2017 11:11:38 AM
From: Habib, Donald

Created By: Donald.Habib@nrc.gov

Recipients:

"neil.haggerty@excelservices.com" <neil.haggerty@excelservices.com>
Tracking Status: None
"Patel, Chandu" <Chandu.Patel@nrc.gov>
Tracking Status: None
"Vogtle PEmails" <Vogtle.PEmails@nrc.gov>
Tracking Status: None
"Otto, Ngola" <Ngola.Otto@nrc.gov>
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"Ray, Sheila" <Sheila.Ray@nrc.gov>
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"Martinez Navedo, Tania" <Tania.MartinezNavedo@nrc.gov>
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"Dixon-Herrity, Jennifer" <Jennifer.Dixon-Herrity@nrc.gov>
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Tracking Status: None
"Chamberlain, Amy Christine" <ACCHAMBE@southernco.com>
Tracking Status: None

Post Office: SN4PR0901MB2173.namprd09.prod.outlook.com

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MESSAGE	2005	12/1/2017 11:11:38 AM	
RAI LAR 17-018-1 RAI_9244 As Issued-Corrected 12-1-17.docx			25914

Options

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

Request for Additional Information RAI LAR 17-018-1

Issue Date: 12/01/2017

Application Title: Vogtle Nuclear Site, Units 3 and 4, Dockets 52-0025 and 52-0026

Operating Company: Southern Nuclear Operating Co.

Review Section: 08.03.02 - DC Power Systems (Onsite)

Application Section: 8.2 - LAR 17-018

CORRECTED

QUESTIONS

08.03.02-2

10 CFR Part 50, Appendix A, General Design Criterion (GDC) 17, "Electric Power Systems," requires, in part, that an onsite electric power system and an offsite electric power system be provided to permit functioning of structures, systems, and components important to safety. The onsite electric power distribution system, shall have sufficient capacity, capability, independence, and redundancy to perform their safety functions assuming a single failure.

In the Vogtle Electric Generating Plant (VEGP) Units 3 and 4 License Amendment Request (LAR) 17-018, the licensee proposed to add analyses to the Inspections, Tests, and Analysis (ITA) portion of Updated Final Safety Analysis Report (UFSAR) Tier 1, Table 2.6.3-3, "Inspections, Tests, Analysis, and Acceptance Criteria," (ITAAC) No. 4.i. However, in the LAR, the licensee has not provided the analyses required to demonstrate that the Class 1E direct-current (dc) and uninterruptible power supply system (IDS) batteries at 210 Vdc have adequate capacity and capability to provide the required voltages at the Class 1E motor-operated valves (MOVs).

Therefore, the staff requests that the licensee provide a summary of the analyses (e.g. voltage drop), including assumptions and methodology referenced in UFSAR Tier 1, Table 2.6.3-3, ITAAC No. 4.i, which verifies that the Class 1E IDS at 210 Vdc, has adequate capacity and capability to provide the required voltages at the Class 1E MOVs for operation.

08.03.02-3

10 CFR Part 50, Appendix A, GDC 17, "Electric Power Systems," requires, in part, that an onsite electric power system and an offsite electric power system be provided to permit functioning of structures, systems, and components important to safety. The onsite electric power distribution system, shall have sufficient capacity, capability, independence, and redundancy to perform their safety functions assuming a single failure.

The proposed VEGP Units 3 and 4, UFSAR Tier 1, Table 2.6.3-3, "Inspections, Tests, Analysis, and Acceptance Criteria," ITAAC No. 4.i, requires testing of the onsite Class 1E IDS batteries to assure that the IDS has sufficient capacity and capability to supply the required voltages at the MOVs for operation.

The proposed ITA portion of UFSAR Tier 1, Table 2.6.3-3, ITAAC No. 4.i, states in part that testing will be performed by measuring the voltages at both the IDS battery and the MOV motor terminal while each specified MOV is stroked. Please confirm whether all MOVs are stroked during the above mentioned testing, since the ITA seems to imply that only a subset of the

MOVs will be tested. Update UFSAR Tier 1, Table 2.6.3-3, ITAAC No. 4.i accordingly, to address any changes needed.