

## Vogle PEmails

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**From:** Hughes, Brian  
**Sent:** Wednesday, November 01, 2017 3:09 PM  
**To:** ACCHAMBE@southern.com; Patel, Chandu; Henderson, Ryan Donald; Quarles, Adam  
Graham  
**Cc:** Vogtle PEmails; Hoellman, Jordan  
**Subject:** LAR 17-028 MISV Compartment Pressure Increase  
**Attachments:** RAI 9207 Question .docx

To All:

By letter dated August 18, 2017, Southern Nuclear Company submitted License Amendment Request (LAR) 17-028 **Increase in MSIV Compartment Pressure** to the U. S. Nuclear Regulatory Commission (NRC) for Vogtle Electric Generating Plant Units 3 and 4, Combined License Nos. NPF-91 and NPF-92 (ADAMS Accession No. ML17230A365). 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.

As a result of needing additional information, staff will not be able to complete the review until a minimum of 3 months after receipt of an acceptable supplement to the request. If the change is needed sooner than that date to support construction, please consider submitting a request for approval of a Preliminary Amendment Request (PAR).

If you have any questions or comments concerning this matter, you may contact me at 301-415-6582.

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NRO/DNRL/LB4  
US NRC  
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**Subject:** LAR 17-028 MISV Compartment Pressure Increase  
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**From:** Hughes, Brian

**Created By:** Brian.Hughes@nrc.gov

**Recipients:**

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**Post Office:** HQPWMSMRS01.nrc.gov

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MESSAGE	1528	11/1/2017 3:09:15 PM
RAI 9207 Question .docx	21527	

**Options**

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**Question 30887:** In License Amendment Request LAR-17-28 (dated August 18, 2017), the licensee of Vogtle Units 3 and 4 proposes increasing the design pressure of the main steam isolation valve (MSIV) compartments from 6.0 pounds per square inch (psi) to 6.5 psi, and other changes to the licensing basis regarding the descriptions of the MSIV compartments. In LAR-17-028, the licensee states that essential piping system valves remain qualified for the increase in design pressure. The licensee also states that the structures, systems, and components (SSCs) within the MSIV compartments and adjacent to these compartments are confirmed to be environmentally and structurally qualified for the increase in design pressure. The NRC regulations in 10 CFR Part 50, Appendix A, General Design Criterion (GDC) 4 requires that SSCs important to safety be designed to accommodate the effects of and be compatible with the environmental conditions associated with normal operation, maintenance, testing, and postulated accidents, including loss-of-coolant accidents. To verify compliance with GDC 4, the NRC staff requests that the licensee describe its actions to address the increased MSIV compartment pressure on the structural and environmental qualification of safety-related valves, and the planned setup of safety and relief valves for increased backpressure, for the applicable valves located in these compartments.

**Question 30888:** LAR-17-28 states that the pressure relief pathways for both MSIV compartments are the same, with the exception that MSIV Compartment A has an additional pressure relief pathway to the valve/piping penetration room (Room 12306). The NRC staff requests that the licensee describe this additional pressure relief pathway, and its potential impact on the structural and environmental qualification of any applicable safety-related equipment located in Room 12306. Specifically, the NRC staff would like to know if the pressure in this additional pressure relief pathway will increase to higher values than previously determined or used for the qualification for equipment located in this area.