

Vogtle PEmails

From: Patel, Chandu
Sent: Thursday, December 21, 2017 2:15 PM
To: Chamberlain, Amy Christine; Vogtle PEmails
Cc: Gleaves, Bill; Dixon-Herrity, Jennifer; Kallan, Paul; Martinez Navedo, Tania; Ray, Sheila
Subject: Draft RAI for LAR 17-010 for Vogtle 3 and 4

Hi Amy,

Please see the draft RAI below for LAR 17-010. We will be happy to have a clarification call if you like to discuss any of the questions. Please let Billy Gleaves or I know if you need a call.

Draft Request for Information LAR 17-010

10 CFR 50, Appendix A, General Design Criteria (GDC) 17, "Electric Power Systems," discusses the onsite dc power system's: (1) capacity and capability to permit functioning of SSCs important to safety assuming no offsite power is available; (2) independence, redundancy, and testability to perform its safety function assuming a single failure; and (3) provisions to minimize the probability of losing electric power from any of the remaining supplies as a result of, or coincident with, the loss-of-power generated by the nuclear power unit or the loss-of-power from the transmission network. The Class 1E batteries, as part of the onsite power system, shall have sufficient capacity to perform their safety function.

In letter dated August 21, 2017 (ML17233A325), in response to Question 4, the licensee stated that new level instrumentation (floodup sensors WLS-400A and WLS-400B) are added and that there is a minor increase to the power requirements of the Class 1E batteries which is within the available battery capacity.

Staff requests the following information:

1. Describe the added load on the Class 1E batteries (i.e. are these momentary or continuous loads?; the added load compared to the total load)
2. Discuss which battery banks or inverters are powering the load.
3. Discuss any changes or confirm no changes to FSAR Tables 8.3.2-1 through 8.3.2-7.
4. Regarding the battery sizing calculation, what are the changes and discuss the impact of the changes.
5. Describe the changes to the Vogtle licensing basis, specifically in regards to design margin (i.e. aging factor, load growth, etc.) in battery sizing.

Chandu Patel, Senior Project Manager

U.S. NRC, Office of New Reactors

NRC/NRO/DNRL/LB4,

Washington, DC 20555-0001

301.415.3025

MS T6C20M

Hearing Identifier: Vogtle_COL_Docs_Public
Email Number: 193

Mail Envelope Properties (CY4SPR00MB253F9C8908F9FBDE8C28E22820D0)

Subject: Draft RAI for LAR 17-010 for Vogtle 3 and 4
Sent Date: 12/21/2017 2:14:38 PM
Received Date: 12/21/2017 2:14:41 PM
From: Patel, Chandu

Created By: Chandu.Patel@nrc.gov

Recipients:

"Gleaves, Bill" <Bill.Gleaves@nrc.gov>
Tracking Status: None
"Dixon-Herrity, Jennifer" <Jennifer.Dixon-Herrity@nrc.gov>
Tracking Status: None
"Kallan, Paul" <Paul.Kallan@nrc.gov>
Tracking Status: None
"Martinez Navedo, Tania" <Tania.MartinezNavedo@nrc.gov>
Tracking Status: None
"Ray, Sheila" <Sheila.Ray@nrc.gov>
Tracking Status: None
"Chamberlain, Amy Christine" <ACCHAMBE@southernco.com>
Tracking Status: None
"Vogtle PEmails" <Vogtle.PEmails@nrc.gov>
Tracking Status: None

Post Office: CY4SPR00MB253.namprd09.prod.outlook.com

Files	Size	Date & Time
MESSAGE	2103	12/21/2017 2:14:41 PM

Options

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