

## SummerRAIsPEm Resource

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**From:** BOUKNIGHT, JUSTIN R <JUSTIN.BOUKNIGHT@scana.com>  
**Sent:** Monday, April 11, 2016 4:30 PM  
**To:** Gleaves, Bill  
**Cc:** RICE, APRIL R; TRAVERS, GREGORY JOHN; TIWARI, AJAY; DANIELS, CHARLES COVERT  
**Subject:** [External\_Sender] FW: Concurrence Requested by Noon 3/28/16 - Proposed License Amendment No 44 for Summer Units 2 and 3

Billy –

SCE&G reviewed Audit Report for the Methodology of Calculations Supporting the Design of the Main Generator Circuit Breaker of Vogtle Electrical Generating Plant Units 3 and 4 (TAC No. RP9498) dated September 8, 2015 [Accession Number ML15246A370] and consulted with our engineering SMEs in this area. The methods and calculations used for the Vogtle project prepared by Westinghouse and audited by the NRC (APP-ZAS-E0C-003, Revision 3, “Generator Circuit Breaker and Isolated Phase Bus (IPB) Duct Continuous and Short Circuit Current Ratings” and APP-ES03-Z0-001, Revision 1, “Design Specification” for the Main GCB) are identical to those used to support V.C. Summer Nuclear Station Units 2 and 3 LAR 14-15: VCSNS Units 2&3 Request for License Amendment and Exemption: Compressed and Instrument Air System High Pressure Air Subsystem Changes [Accession Numbers ML14303A635 and ML15194A314]. SCE&G also had representation that attended the audit and followed the NRC review. No differences between our projects in this area were noted.

Regards,  
Justin

**Justin Bouknight, PE**  
Licensing Supervisor, Units 2 & 3  
VC Summer Nuclear Station  
Office – 803.941.9828

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**From:** Gleaves, Bill [<mailto:Bill.Gleaves@nrc.gov>]  
**Sent:** Wednesday, April 6, 2016 1:12 PM  
**To:** BOUKNIGHT, JUSTIN R <JUSTIN.BOUKNIGHT@scana.com>  
**Cc:** Foli, Adakou <[Adakou.Foli@nrc.gov](mailto:Adakou.Foli@nrc.gov)>; Ray, Sheila <[Sheila.Ray@nrc.gov](mailto:Sheila.Ray@nrc.gov)>  
**Subject:** FW: Concurrence Requested by Noon 3/28/16 - Proposed License Amendment No 44 for Summer Units 2 and 3

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Justin,

On my voicemail today, this is the hiccup that we encountered in our review process...the audit plan was for Vogtle and we can't approve it as a reference in the SER and we can't say that it applies unless everything reviewed (the methodology and the calculations reviewed) we exactly the same for VC Summer as they were for Vogtle.

Please review the question below and the audit report (ML15246A370) and make a statement (by email) stating what the differences between your methodology and the calculations supporting your request, and the impact/significance of those differences. If there are sufficient differences, as judged by the staff, we will have to plan a quick audit of the differences.

Please responds as quickly as possible, preferably by email if this is a simple answer and by phone if this is a complicated answer (if the latter case, we'll plan a conference call to discuss).

In a different but related comment, I'd like to ensure that both Vogtle and Summer staff support audits of information related to a co-submitted LAR so that we can make conclusions for both sites based on 1 audit.

Billy

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**From:** Foli, Adakou  
**Sent:** Wednesday, April 06, 2016 12:46 PM  
**To:** Gleaves, Bill  
**Cc:** Ray, Sheila  
**Subject:** FW: Concurrence Requested by Noon 3/28/16 - Proposed License Amendment No 44 for Summer Units 2 and 3

Bill,

For Vogtle SE, we concluded that "the methodology for determining the GCB required current ratings and capabilities is in conformance with the guidance in IEEE Std. C37.013, and the design tests expected to be performed for the GCB are conformed to the guidelines in Section 8.2 of the SRP." In order for us to make the same conclusion for VC Summer, we need to review the following documents:

1. Document 1: Generator Circuit Breaker (GCB) Calculations including:

- Acceptance criteria and assumptions for sizing the GCB
- Methodology of the calculations for voltage and continuous current ratings, symmetrical and asymmetrical short circuit current capabilities, and close-latching capability for the generator source and system-plus auxiliary source
- Results of the calculations

2. Document 2: GCB Design Specifications including:

- Design requirements
- Functional requirements
- Testing/qualification

The specific documents we reviewed for Vogtle were: [APP-ZAS-EOC-003, Revision 3](#) for the calculations and [APP-ES03-Z0-001, Revision 1](#) for the design specifications.

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**From:** BOUKNIGHT, JUSTIN R

**Created By:** JUSTIN.BOUKNIGHT@scana.com

**Recipients:**

"RICE, APRIL R" <ARICE@scana.com>  
Tracking Status: None  
"TRAVERS, GREGORY JOHN" <GREGORY.TRAVERS@scana.com>  
Tracking Status: None  
"TIWARI, AJAY" <AJAY.TIWARI@scana.com>  
Tracking Status: None  
"DANIELS, CHARLES COVERT" <CHARLES.DANIELS@scana.com>  
Tracking Status: None  
"Gleaves, Bill" <Bill.Gleaves@nrc.gov>  
Tracking Status: None

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