

Vogle PEmails

From: Patel, Chandu
Sent: Friday, January 12, 2018 11:39 AM
To: Chamberlain, Amy Christine; Thomas, Corey (SNC)
Cc: Vogle PEmails
Subject: Draft RAI for LAR 17-035
Attachments: RAI for NB 3200 Piping.docx

Hi,

Please see the attached draft request for information for LAR 17-035 for Vogle. Please let me know if you like to have a clarification call as soon as possible.

Thanks,

Chandu Patel, Senior Project Manager
U.S. NRC, Office of New Reactors
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From: Patel, Chandu

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Tracking Status: None

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DRAFT REQUEST FOR INFORMATION (LAR 17-035)
VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4
DOCKET NOS.: 52-025 AND 52-026

By letter dated September 22, 2017 (Agencywide Document Access and Management System Accession Number ML17265A787), Southern Nuclear Operating Company, Inc. (SNC, the licensee) requested that the U.S. Nuclear Regulatory Commission (NRC) amend the combined operating licenses (COLs) for Vogtle Electric Generating Plant (VEGP) Units 3 and 4, COL Numbers NPF-91 and NPF-92, respectively. The requested amendment proposes to depart from approved AP1000 Design Control Document (DCD) Tier 2 information (text) and involved Tier 2* information, as incorporated into the Updated Final Safety Analysis Report (UFSAR) as plant-specific DCD information. Specifically, it requests modifying the licensing requirements for the ASME Class 1 piping component analysis to permit the use of design by analysis evaluations, as described in ASME Section III, NB-3200.

The NRC staff evaluated the information provided by SNC, and has determined that the following information is needed in order to complete its review of the alternative request.

10 CFR 50.55a(b)(1)(iii) "Section III condition: Seismic design of piping" states that applicants or licensees may use Subarticles NB-3200, NB-3600, NC-3600, and ND-3600 for seismic design of piping, up to and including the 1993 Addenda, subject to the condition specified in paragraph (b)(1)(ii) of this section. Applicants or licensees may not use these subarticles for seismic design of piping in the 1994 Addenda through the 2005 Addenda incorporated by reference in paragraph (a)(1) of this section, except that Subarticle NB-3200 in the 2004 Edition through the 2008 Addenda may be used by applicants and licensees, subject to the condition in paragraph (b)(1)(iii)(A) of this section. Applicants or licensees may use Subarticles NB-3600, NC-3600, and ND-3600 for the seismic design of piping in the 2006 Addenda through the 2008 Addenda, subject to the conditions of this paragraph corresponding to those subarticles.

The AP1000 piping design and Design Certification use the ASME Section III 1998 Edition, 2000 Addenda. The staff notices that there is the restriction for the use of ASME Section III, Code Editions for the AP1000 seismic piping design, as stated in 10 CFR 50.55a, (iii). The staff requests the licensee to discuss whether the ASME Section III Subarticle NB-3200 in the 2004 Edition through the 2008 Addenda will be used, and that the condition 10CFR50.55a paragraph (b)(1)(iii)(A) of this section is applied.

10 CFR 50.55a paragraph (b)(1)(iii)(A) "*Seismic design of piping: First provision*" requires that when applying Note (1) of Figure NB-3222-1 for Level B service limits, the calculation of P_b stresses must include reversing dynamic loads (including inertia earthquake effects) if evaluation of these loads is required by NB-3223(b).