PMSummerColpEM Resource

From: Brian Anderson
Sent: Wednesday, November 19, 2008 5:30 PM
To: arice@scana.com; amonroe@scana.com; jmgiles@scana.com; jharrison2@scana.com; SummerCOL Resource
Cc: Ravindra Joshi; Brian Anderson
Subject: DRAFT - RAI 1634 - SRP section 13.3 - VC Summer Units 2 and 3 Combined License Application
Attachments: VCS - Draft RAI 1634 - 13.3.doc

Importance: High

Attached is a draft RAI related to SRP section 13.3 for the VC Summer Units 2 and 3 Combined License Application. Please let me know if you would like to schedule a conference call to discuss this RAI.

Thank you,
Brian

Brian Anderson
301-415-9967
Project Manager, AP1000 Projects Branch 1
Office of New Reactors
U.S. Nuclear Regulatory Commission

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From: Brian Anderson

Created By: Brian.Anderson@nrc.gov

Recipients:
"Ravindra Joshi" <Ravindra.Joshi@nrc.gov>
Tracking Status: None
"Brian Anderson" <Brian.Anderson@nrc.gov>
Tracking Status: None
"arice@scana.com" <arice@scana.com>
Tracking Status: None
"amonroe@scana.com" <amonroe@scana.com>
Tracking Status: None
"jmgiles@scana.com" <jmgiles@scana.com>
Tracking Status: None
"jharrison2@scana.com" <jharrison2@scana.com>
Tracking Status: None
"SummerCOL Resource" <SummerCOL.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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Request for Additional Information No. 1634 Revision 0
Virgil C. Summer Nuclear Station, Units 2 and 3
South Carolina Electric and Gas Company
Docket No. 52-027 and 52-028
SRP Section: 13.03 - Emergency Planning
Application Section: 13.3

QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

13.03-***

1. Provide a description of the technical support center (TSC) habitability for Units 2 and 3.

The habitability and ventilation criteria for the TSC in Section 2.6 of NUREG-0696 is stated in the following two paragraphs:

Since the TSC is to provide direct management and technical support to the control room during an accident, it shall have the same radiological habitability as the control room under accident conditions. TSC personnel shall be protected from radiological hazards, including direct radiation and airborne radioactivity from inplant sources under accident conditions, to the same degree as control room personnel. Applicable criteria are specified in General Design Criterion 19; Standard Review Plan 6.4; and NUREG-0737, "Clarification of TMI Action Plan Requirements," Item II.B.2.

The TSC ventilation system shall function in a manner comparable to the control room ventilation system. The TSC ventilation system need not be seismic Category I qualified, redundant, instrumented in the control room, or automatically activated to fulfill its role. A TSC ventilation system that includes high-efficiency particulate air (HEPA) and charcoal filters is needed, as a minimum. Sufficient potassium iodide shall be provided for use by TSC and control room personnel. The capacity of the installed TSC ventilation filter system shall be independent of these thyroid-blocking provisions. If the TSC becomes uninhabitable, the TSC plant management function shall be transferred to the control room.

Although the originally designed Units 2 and 3's TSC is being relocated to Unit 1's TSC, it is expected that the same TSC habitability and ventilation, as stated above, will be met. However, Departure VCS DEP 18.8-1 does not provide this kind of confirmation.

The design basis for the TSC as described in DCD Sec. 9.4.1.1.2 is for the TSC located in the control support area. With the relocation of the TSC from the control support area to the protected areas, there now exists a lack of design information and justification as described above for the new TSC. The design information and justification needs to be provided.