

PMSummerColpEM Resource

From: Sujata Goetz
Sent: Wednesday, January 14, 2009 4:01 PM
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Cc: Ravindra Joshi; SummerCOL Resource
Subject: Draft RAI 1851, SRP Section: 10.04.05 - Circulating Water System
Attachments: RAI 1851.doc

Attached is Draft RAI 1851 related to SRP Sections 10.04.05 for Virgil C. Summer Nuclear Station, Units 2 and 3. Please contact me if you would like a phone conference regarding these RAIs. If I don't hear from you by close of business Jan 21, 2009, I will issue the final RAI.

thank you,

sue

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Request for Additional Information No. 1851 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: 10.04.05 - Circulating Water System
Application Section: 10.4.5

QUESTIONS for Balance of Plant Branch 2 (ESBWR/ABWR) (SBPB)

10.04.05-***

In the Summer combined license (COL) application, Final Safety Analysis Report (FSAR) Section 10.4.5.2.3, "System Operation" the applicant provided conceptual design information regarding its circulating water system (CWS) major components, including its cooling towers. With respect to the location of the cooling tower, the applicant stated that the cooling towers are located to prevent adverse interactions with structures, systems, and components (SSCs) required for safe shutdown of the plant in case of collapse of the towers or failure of their basins and flumes. However, the staff could not find further details on how the cooling tower failure will have no effect on the nearby safety related, system, equipment and/or structure of the plant. As described in the Standard Review Plan (SRP), Section 10.4.5, "Circulating Water System," SRP Acceptance Criteria, the requirements of General Design Criteria 4 (GDC 4) are met when the CWS design includes provisions to accommodate the effects of discharging water that may result from a failure of a component or piping in the CWS. Therefore, in order to meet this GDC 4 criteria and for the NRC staff to complete its evaluation of the Summer CWS, the staff requests the applicant to provide additional information in the FSAR to ensure that failure of the tower will not affect the safety-related systems or equipment that are located in the proximity of the cooling tower.