

From: Peter Tam
To: Joe Waters; Michael Scarpello; Sue Simpson
Date: 09/04/2007 11:56:22 AM
Subject: D.C. Cook - Draft RAI on Proposed Amendment re. Containment Sump (TAC MD5901, 2)

Joe:

Several branches in the Office of NRR are reviewing your 6/27/07 application for amendment. Previously we had transmitted draft questions to you from our Technical Specifications Branch, and we held a conference call to discuss those draft questions on 8/10/07. I have now received draft questions from the remaining 3 review branches as follows:

Containment and Ventilation Branch (Rich Lobel)

Your 90-day response to Generic letter 2004-02 (Attachment 1 Response to RAI 2(b) Item 4) states that debris interceptors will be installed on the approach area to the strainer section in the annulus and the area of the inlet nozzles for the containment wide range level instruments in addition to the drain paths from the CEQ fan rooms and the existing flow holes from the loop compartment to the annulus. Why is it not necessary to include the approach area to the strainer section in the annulus and the area of the inlet nozzles for the containment wide range level instruments in the technical specifications to ensure that the strainers are unobstructed and in good condition?

Safety Issues Resolution Branch (Ralph Architzel)

Section 3.1 of your application discusses addition of new post-accident monitoring instrumentation to the Technical Specification Table 3.3.3-1 to add a new function "Containment Recirculation Sump Water Level." Section 4.1 of the application notes the need for such instrumentation derives from Regulatory Guide 1.97 when there is a need for operators to take specified manual actions for which no automatic control is provided and that are required for the safety system to accomplish its safety function. Section 4.1 further notes that the level setting provides advance warning of potential air entrainment due to vortexing; which is more limiting for the Cook ECCS and CTS pumps than the loss of net positive suction head.

(a) Describe the limiting level which these instruments protect against vortexing, including margins in level related to time for the operator to take actions.

(b) Describe the "specified manual actions" that the operator will take upon actuation of this level alarm provided by the instruments, including how these actions maintain the safety functions of the CNP ECCS and CTS pumps.

Instrumentation and Controls Branch (Pong Chung, Barry Marcus)

(1) Specify if the two new recirculation sump level instruments (NLI-300 and NLI-301) are replacements or additions to the containment recirculation sump water level instrumentation included in your commitment to Regulatory Guide (RG) 1.97 dated October 15, 1988. If they are replacements, then specify the differences between the new and the old instruments.

(2) Provide the range of the new instrumentation and confirm that each Type A criteria of RG 1.97 is met.

This e-mail aims solely to prepare you and others for a proposed conference call. This e-mail does not formally convey an NRC staff position, and does not formally request for additional information. During the conference call, we will discuss the options of dispositioning of these draft questions.

Peter S. Tam, Senior Project Manager

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CC: Barry Marcus; Matthew Hamm; Pong Chung; Ralph Architzel; Richard Lobel

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(TAC MD5901, 2)

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