

From: Peter Tam
To: David Distel; David Helker
Date: 8/26/05 9:49AM
Subject: Draft RAI re. Proposed Amendment on Alternative Source Term (**TAC MC6519**)

Dave:

We are reviewing your application dated 3/28/05. Our reviewer, Carolyn Lauron, has the following question (paragraph below). We are requesting to hold a telephone discussion with you after 9/11/05.

The determination of the suppression pool pH at 30 days after a loss-of-coolant accident (LOCA) is described in Attachment 3, Page 12, of the application. This description states that the standby liquid control system (SLC) is credited as a means to buffer the suppression pool water and will prevent the pH from falling to a value less than 7 during the 30-day dose calculation period. In addition, the description states that suppression pool pH is a function of the time-dependent radiation level in the drywell and the time-dependent radiation level in the suppression pool, among other parameters. Please provide the time-dependent calculations to support the assertion that the pH will not decrease to a value less than 7 from the time of the LOCA to 30 days after the LOCA. These calculations should also address the change in pH at the time of the sodium pentaborate injection and the effects of acid formation (i.e., HCl production from the decomposition of cable insulation and HNO₃ production from the irradiation of water and air).

The sole purpose of this e-mail is to prepare you and others to participate in a telephone conference with us on this issue. **This e-mail does not formally convey a request for additional information, nor does it formally state an NRC staff position.**

Peter S. Tam, Senior Project Manager
Project Directorate I-1
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

e-mail: pst@nrc.gov Tel.: 301-415-1451

CC: Carolyn Lauron; John Boska; Nadiyah Morgan

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