From: Kalyanam, Kaly
Sent: Thursday, August 19, 2010 1:00 PM
To: BICE, DAVID B
Cc: CLARK, ROBERT W; mgiles@entergy.com
Subject: Request for Additionl Information - AST RAI

Dave,

By letter dated March 31, 2010, Entergy Operations, Inc. (the licensee), submitted a request for license amendment to implement an alternative source term (AST) for Arkansas Nuclear One, Unit 2 (ANO-2).

The NRC staff has reviewed and evaluated the information provided by Entergy, in its application. Based on this review, it was determined that additional information is required to complete the staff's evaluation for the license amendment request. In order for the staff to meet the established due date, the licensee needs to respond to the request for additional information (RAI) within 30 days of the receipt of the RAI.

Thanks

Kaly (N) Kalyanam
PM, ANO-1 and 2 and Waterford 3

REQUEST FOR ADDITIONAL INFORMATION
REGARDING TECHNICAL SPECIFICATION CHANGES AND ANALYSES
RELATING TO USE OF ALTERNATIVE SOURCE TERM
ARKANSAS NUCLEAR ONE, UNIT 2
(TAC NO. ME3678)

1. Assumption 4 on page 12 of Attachment 3 to the March 31, 2010, license amendment request (Agency Documents and Management System (ADAMS) Accession No. ML100910241) states that the stability index for the 1995 through 1999 meteorological data file was calculated using the methods discussed in Regulatory Guide (RG) 1.23, "Onsite Meteorological Programs." RG 1.23 presents two methods, one based on the standard deviation of horizontal wind direction fluctuation (σ_θ) and the other based on temperature change with height (Δ-T). Please discuss the time periods and criteria used to determine when each method was used.

2. Attachment 3 provides a series of figures showing the position of each postulated release location with respect to key plant structures and the control room intakes. The figures are very informative, but they do not appear to be drawn to scale. Please provide one scaled aerial-view drawing from which distance and direction inputs can be reasonably approximated. Indicate true north and provide the scale of the figure. Highlight all postulated sources and receptors and outline the location of the control room envelope.

3. It appears that the containment release height value given in Table 1.8.1-2 of Attachment 3 is with respect to the auxiliary building, whereas, heights for the other release points are with respect to plant grade. Please revise Table 1.8.1-2 to use plant grade as the single reference elevation when calculating the heights of release for all postulated release points.

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From: Kalyanam, Kaly

Created By: Kaly.Kalyanam@nrc.gov

Recipients:
DBICE@entergy.com (BICE, DAVID B)
Tracking Status: None
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MESSAGE	10570	8/19/2010

Options
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