

**From:** Kalyanam, Kaly  
**Sent:** Thursday, July 15, 2010 1:36 PM  
**To:** BICE, DAVID B  
**Cc:** CLARK, ROBERT W  
**Subject:** RAI on the ANO-2 LAR to implement AST (ME3678)

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 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 45 days of the receipt of the RAI.

Thanks

Kaly (N) Kalyanam1  
PM, ANO-1 and 2 and Waterford 3

REQUEST FOR ADDITIONAL INFORMATION ON  
THE LICENSE AMENDMENT REQUEST  
TECHNICAL SPECIFICATION CHANGES AND ANALYSES  
RELATING TO USE OF ALTERNATIVE SOURCE TERM  
FOR ENTERGY OPERATIONS, INC.  
ARKANSAS NUCLEAR ONE, UNIT 2  
DOCKET NUMBER: 50-368

1. Are any non-safety related systems and components credited in the alternate source term analyses?

If so,

- a) Please describe the independence (electrical and physical separation) of these systems from the safety-related systems. Also, please provide a detailed discussion on how a fault on the non-Class 1E electrical circuit will not propagate to the Class 1E electrical circuit.
- b) Please describe the redundancy of these systems and how these systems meet the single failure criterion.



insulation, and nitric acid, produced by irradiation of water and air in the containment.

2. How do the calculations for the proposed AST sump pH analysis differ from the previous calculation of sump pH?
3. Provide the time dependant sump pH profile for the full duration of the LOCA analysis.

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### E-mail Properties

#### Mail Envelope Properties ()

Subject: RAI on the ANO-2 LAR to implement AST (ME3678)  
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Received Date: 7/15/2010 1:35:00 PM  
From: Kalyanam, Kaly

Created By: Kaly.Kalyanam@nrc.gov

#### Recipients:

DBICE@entergy.com (BICE, DAVID B)  
Tracking Status: None  
RCLARK@entergy.com (CLARK, ROBERT W)  
Tracking Status: None

#### Post Office:

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