

**Donoghue, Joseph**

From: shan lu (b)(6)  
Sent: Wednesday, May 19, 2010 12:55 PM  
To: Donoghue, Joseph  
Subject: ICONE-18 Day 3 - Report

Day Three Report

A chief engineer from AREVA presented his evaluation on AREVA fuel performance code in response to NRC's Information Notice 2009-23 regarding thermal conductivity degradation due to burn-up. The presented evaluation results demonstrated that IN 2009-23 has identified the right problem and is effective to push fuel vendors to take proper actions. AREVA concluded that the issue has an impact on LBLOCA results and proper modifications will be conducted address IN.

Day Two Report

1. Follow-up the AP-1000 pump issue:

(b)(4)

Recommendation:

(b)(5)

2. Additional Information

China has 23 reactors under construction now. 30 more have been approved to be built. Before 2005, their plan is to have more than 50 reactors in operation. In 2010, they plan to have more than 100 reactors in operation. They are short of educated nuclear engineers. With such a rapid growth, one may expect many "what-if" questions unresolved before plants are in operation.... ?

Day One Report

AP-1000

Ex 4

(b)(4)

CFD and Its Applications to New Reactors

CFD's application to predict CHF is on its way to NRC with in a couple of years. It will be a significant challenge for us to review CFD code.

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