

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Wednesday, September 14, 2011 4:36 PM
To: 'usepr@areva.com'
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Subject: Draft - U.S. EPR Design Certification Application RAI No. 514 (5998), FSAR Ch. 15
Attachments: Draft RAI_514_SRSB_5998.doc

Attached please find draft RAI No. 514 regarding your application for standard design certification of the U.S. EPR. If you have any question or need clarifications regarding this RAI, please let me know as soon as possible, I will have our technical Staff available to discuss them with you.

Please also review the RAI to ensure that we have not inadvertently included proprietary information. If there are any proprietary information, please let me know within the next ten days. If I do not hear from you within the next ten days, I will assume there are none and will make the draft RAI publicly available.

Thanks,
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Request for Additional Information No. 514 (5998), Revision 0

9/14/2011

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 15.06.05 - Loss of Coolant Accidents Resulting From Spectrum of Postulated Piping
Breaks Within the Reactor Coolant Pressure Boundary

Application Section: 15.06.05.04

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

15.06.05-114

The latest in-vessel downstream effect fuel assembly head loss tests indicate that the measured head loss variation can be small with only fiber and particulate introduced into the test loop. Once the chemical precipitant was added into the test loop, the stabilized head loss and flow rate varied significantly. Considering the large differences among test results observed so far, evaluate the large variation and the repeatability of test results with regard to initial flow rate, debris loading, testing procedures and other contributing factors. Demonstrate that the measured head loss and flow rate are limiting with respect to design basis flow conditions corresponding to two-train, three-train and four-train ECCS operation.