



Entergy Operations, Inc.
1448 S.R. 333
Russellville, AR 72802
Tel 479-858-4704

Stephenie L. Pyle
Manager, Licensing
Arkansas Nuclear One

1CAN041301

April 10, 2013

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Subject: Response to Request for Additional Information
Related to 10 CFR 50.46 30-Day Report
Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51

- References:
1. Entergy letter dated March 20, 2012, "10 CFR 50.46 Report – Significant Change in Peak Cladding Temperature" (1CAN031202) (ML12080A120)
 2. NRC email dated November 8, 2012, "RAI on the Review of 10 CFR 50.46 30-day Report" (ML12313A440)
 3. AREVA letter dated December 6, 2012, "Generic RAI Response to a 30-Day 10 CFR 50.46 Report of Significant PCT Change," (AREVA Letter NRC:12:062) (ML12342A381)
 4. Entergy letter dated December 17, 2012, "Response to Request for Additional Information Related to 10 CFR 50.46 30 Day Report" (1CAN121203) (ML12353A489)
 5. NRC email dated March 21, 2013, "Request for Additional Information – TAC No. ME9719" (ML13080A350)
 6. AREVA letter dated March 28, 2013, "Generic RAI Response to a 30-Day 10 CFR 50.46 Report of Significant PCT Change," (AREVA Letter NRC:13:014)

Dear Sir or Madam:

Entergy Operations, Inc. (Entergy) submitted a 30-day report to inform the NRC of two errors in the Arkansas Nuclear One, Unit 1 (ANO-1) Emergency Core Cooling System evaluation model (Reference 1). The errors resulted in no net changes to the Peak Clad Temperature calculated for the Large Break Loss-of-Coolant Accident. Each individual error as well as the sum of the absolute values of the two errors is greater than the requirement of 10 CFR 50.46.

On reviewing the submittal, the NRC staff requested additional information (RAI) to continue the review and issued Reference 2. References 3 and 4 provided the responses to the request.

Reference 5 provided the NRC's subsequent RAI. In response to this RAI, AREVA has prepared a generic response to address these questions. This response is provided by Reference 6.

This submittal contains no regulatory commitments.

Should you have any questions, please contact me.

Sincerely,

Original signed by Stephenie L. Pyle

SLP/rwc

cc: Mr. Arthur T. Howell
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
1600 East Lamar Boulevard
Arlington, TX 76011-4511

NRC Senior Resident Inspector
Arkansas Nuclear One
P. O. Box 310
London, AR 72847

U. S. Nuclear Regulatory Commission
Attn: Mr. Kaly Kalyanam
MS O-8 B1
One White Flint North
11555 Rockville Pike
Rockville, MD 20852