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OCAN071701

July 26, 2017

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

**SUBJECT:** Annual 10 CFR 50.46 Report for Calendar Year 2016  
Emergency Core Cooling System Evaluation Changes  
Arkansas Nuclear One – Units 1 and 2  
Docket Nos. 50-313 and 50-368  
License Nos. DPR-51 and NPF-6

**REFERENCE** Entergy submittal to the NRC, “Annual 10 CFR 50.46 Report for Calendar Year 2015 Emergency Core Cooling System Evaluation Changes,” dated June 22, 2016 (ML16175A383)

Dear Sir or Madam:

10 CFR 50.46(a)(3)(ii) requires licensees to report annually each change to or error discovered in an acceptable evaluation model or in the application of such model for the emergency core cooling system (ECCS) that affects the peak cladding temperature (PCT). Entergy Operations, Inc. (Entergy), has reviewed the small and large break loss-of-coolant accident (LOCA) PCT evaluations for both Arkansas Nuclear One, Units 1 and 2 (ANO-1 and ANO-2).

No issues were identified for ANO-1 or ANO-2 in 2016 that impacted the results reported for the calendar year 2015 referenced above.

A summary / overview of the information required to be submitted each year is attached to this submittal.

This submittal fulfills the reporting requirements referenced above.

This letter contains no new regulatory commitments.

If you have any questions or require additional information, please contact me.

Sincerely,

**ORIGINAL SIGNED BY STEPHENIE L. PYLE**

SLP/rwc

Attachment: Summary / Overview of Information for Arkansas Nuclear One, Units 1 and 2  
10 CFR 50.46 Annual Report for 2016

cc: Mr. Kriss Kennedy  
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. Thomas Wengert  
MS O-08B1A  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

**ATTACHMENT TO**

**0CAN071701**

**Summary / Overview of Information for  
Arkansas Nuclear One, Units 1 and 2  
10 CFR 50.46 Annual Report for 2016**

**Summary / Overview of Information for Arkansas Nuclear One, Units 1 and 2 10 CFR 50.46 Annual Report for 2016**

	<b>Analysis of Record (AOR) Peak Clad Temperature (PCT), (°F) Evaluation Model (EM) Used AOR Date</b>	<b>Adjustment as of End-of-Year (EOY 2015), (°F)</b>	<b>Net PCT at the EOY 2015, (°F)</b>	<b>New Adjustments for Calendar Year 2016, (°F)</b>	<b>Net PCT at the EOY 2016, (°F)</b>
<b>ANO-1</b>					
<b>Small-Break Loss-of-Coolant Accident (SBLOCA)</b>	1459 RELAP5 / MOD2-B&W February 2011	None	1459 (estimated)	None (Note)	1459 (estimated)
<b>Large-Break Loss-of-Coolant Accident (LBLOCA)</b>	2008.1 RELAP5 / MOD2-B&W July 2005	None	2008.1 (estimated)	None (Note)	2008.1 (estimated)
<b>ANO-2</b>					
<b>SBLOCA</b>	2111 S2M October 2007	None	2111 (analyzed)	None	2111 (analyzed)
<b>LBLOCA</b>	2144 1999 EM January 2008	None	2144 (analyzed)	None	2144 (analyzed)