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June 7, 2017

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

SUBJECT: Amendment 27 of the ANO Unit 1 SAR, TRM, TS Bases, 10 CFR 50.59
Report, and Commitment Change Summary Report
Arkansas Nuclear One, Unit 1
Docket No. 50-313
License No. DPR-51

Dear Sir or Madam:

In accordance with 10 CFR 50.71(e) and 10 CFR 50.4(b)(6), enclosed is an electronic copy of Amendment 27 to the Arkansas Nuclear One, Unit 1 (ANO-1) Safety Analysis Report (SAR). Included with this update is an electronic copy of the current ANO-1 Technical Requirements Manual (TRM) and the current ANO-1 Technical Specification (TS) Bases. The TS Bases file also includes the Table of Contents which outlines the contents of both the TSs and the TS Bases, since the Table of Contents is revised by the licensee in accordance with 10 CFR 50.59. Pursuant to 10 CFR 50.71(e)(4), these documents are being submitted within six months following the previous ANO-1 refueling outage (1R26) which ended December 14, 2016. Summaries of changes to the ANO-1 TRM and TS Bases are included in Attachments 1 and 2 of this letter, respectively. The SAR, TS Bases, and TRM changes enclosed are for the period beginning August 26, 2015, and ending June 7, 2017.

In accordance with NEI 98-03, Appendix A, Section A6, a list and short description of information removed from the SAR should be included with each SAR update submittal. For this reporting period, the following figure was removed from the ANO-1 SAR as being redundant to information controlled by the Quality Assurance Program Manual, containing information that is not required to describe the ANO-1 design basis, operation of plant equipment, or assumptions of the accident analyses:

Figure 12-6 Entergy Nuclear Site Leadership

In addition, the following figures were removed from the ANO-1 SAR as a result of reviews performed associated with Regulatory Issue Summary (RIS) 2015-17, "Review and Submission of Updates to Final Safety Analysis Reports, Emergency Preparedness Documents, and Fire Protection Documents":

Figure 9-33A Emergency Pond Spillway

Figure 9-34 Emergency Cooling Reservoir Pipe Intake and Discharge

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Figures 9-33A and 9-34 contained excessive details that might be useful to an adversary and are unnecessary for retention in the ANO-2 SAR. The ANO-2 SAR continues to contain sufficient detail, absent these figures, to permit an understanding of system designs and the associated relationship to safety evaluations, as required by NEI 98-03, "Guidelines for Updating Final Safety Analysis Reports."

The significant upgrade of the ANO-1 SAR was completed in the 2005 timeframe, associated in part with post 9/11/2001 response related to security sensitive information. In light of the previous upgrade and the removed figures listed above, Entergy has determined that the enclosed ANO-1 SAR does not contain information required to be withheld from public disclosure with respect to RIS 2015-17.

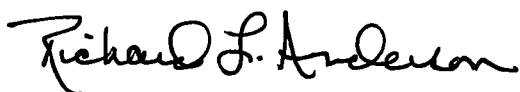
In accordance with 10 CFR 54.37(b), after a renewed license is issued, the SAR update required by 10 CFR 50.71(e) must include any systems, structures, and components (SSCs) newly identified that would have been subject to an aging management review or evaluation of time-limited aging analyses in accordance with 10 CFR 54.21. The SAR update must describe how the effects of aging will be managed such that the intended function(s) in 10 CFR 54.4(b) will be effectively maintained during the period of extended operation. No SAR changes were required with respect to 10 CFR 50.37(b) during this period.

A summary of ANO-1 10 CFR 50.59 evaluations and those evaluations common between ANO-1 and ANO Unit 2 (ANO-2) associated with changes to Licensing Basis Documents over the reporting period is provided in Attachment 3. Attachment 4 contains a copy of each evaluation. Attachment 5 contains a summary of changes to regulatory commitments which have occurred over the reporting period.

If you have any questions or require additional information, please contact Stephenie Pyle at 479-858-4704.

I hereby certify that to the best of my knowledge and belief, the information contained in the above Licensing Basis Documents accurately reflects changes made since the previous submittal. The changes to these documents reflect information and analyses submitted to the Commission, prepared pursuant to Commission requirements, or made under the provisions of 10 CFR 50.59. Executed on June 7, 2017.

Sincerely,



RLA/dbb

Attachments:

1. Summary of ANO-1 TRM Changes
2. Summary of ANO-1 TS Bases Changes
3. Summary of ANO-1 and ANO-Common 10 CFR 50.59 Evaluations
4. 10 CFR 50.59 Evaluations – August 26, 2015, through June 7, 2017
5. ANO-1 and ANO-2 Commitment Change Summary Report

Enclosures (compact disc):

1. ANO-1 SAR Amendment 27
2. ANO-1 TRM
3. ANO-1 TS Table of Contents and TS Bases

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