

## NRR-PMDAPEm Resource

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**From:** Singal, Balwant  
**Sent:** Friday, March 20, 2015 12:57 PM  
**To:** 'CLARK, ROBERT W'  
**Cc:** Watford, Margaret; Rosenberg, Stacey; Poehler, Jeffrey; Markley, Michael; Wilson, George; George, Andrea  
**Subject:** Arkansas Nuclear One, Unit No. 1, Request for Additional Information (Second Round) - License Amendment Request (TAC MF5292)

Bob;

By application dated November 21, 2014, as supplemented by letters dated February 6 and March 10, 2015 (Agencywide Documents Access and Management System (ADAMS Accession Nos. ML14330A246, ML15041A065, and ML15071A054, respectively), Entergy Operations, Inc. (the licensee), requested changes to the Technical Specifications (TSs) for Arkansas Nuclear One, Unit No. 1 (ANO 1).

The proposed changes revise TS 3.4.3, "Reactor Coolant System (RCS) Pressure and Temperature (P/T) Limits, TS 3.4.9, "Pressurizer," TS 3.4.10, "Pressurizer Safety Valves," and TS 3.4.11, "Low Temperature Overpressure Protection." to update the reactor coolant system (RCS) pressure and temperature (P/T) and low temperature overpressure protection (LTOP) system limits to 54 effective full power years (EFPYs), the end of the current period of extended operation.

Based on the U.S. Nuclear Regulatory Commission (NRC) staff review of the information provided, the NRC staff has the following additional question:

The proposed revised electromatic relief valve (ERV) setpoint is 553.8 psig [pounds per square inch gauge]. The American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME Code), Section XI, Appendix G, Paragraph G-2215 states that low temperature overpressure protection (LTOP) systems shall limit the maximum pressure of the vessel to 100% of the pressure determined to satisfy Equation 1 (e.g., the pressure for normal operation heatup or cooldown transients). The minimum allowable pressure for ANO-1 is 508 psig for the 90 deg/hour heatup transient (Table 7-1 of ANP-3300) and 513 psig for the cooldown transient (Table 7-3 of ANP-3300). Please explain how the ERV setpoint meets the ASME Code, Section XI requirements, since the setpoint is greater than the minimum allowable pressure.

The Draft request for additional information (RAI) was discussed between the NRC and licensee staff on March 19, 2015 and the licensee agreed to provide the response latest by March 27, 2015.

Please note that less than normal 30 day response time is specified based on request by the licensee to expedite the processing of the license amendment request and voluntarily agreed upon by the licensee.

Please treat this e-mail as formal transmittal of the RAI.

Thanks.

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