

August 16, 2001

Mr. Craig G. Anderson  
Vice President, Operations ANO  
Entergy Operations, Inc.  
1448 S. R. 333  
Russellville, Arkansas 72801

SUBJECT: ARKANSAS NUCLEAR ONE, UNITS 1 AND 2 - ISSUANCE OF AMENDMENTS  
RE: CONDENSATE STORAGE TANK VOLUME TECHNICAL  
SPECIFICATIONS (TAC NOS. MA8206 AND MA8207)

Dear Mr. Anderson:

The Commission has issued the enclosed Amendment No. 214 to Renewed Facility Operating License No. DPR-51 and Amendment No. 232 to Facility Operating License No. NPF-6 for Arkansas Nuclear One, Units 1 and 2 (ANO-1 and ANO-2), respectively. The amendments consist of changes to the Technical Specifications (TSs) in response to your application dated January 27, 2000, as supplemented by letters dated March 1, June 12, and July 26, 2001.

The amendments allow the qualified condensate storage tank to be used for both units and defines new minimum volume requirements for the tank depending on whether ANO-1, ANO-2, or both units are aligned to the tank. The total volume requirements, the allowable alternative alignment for ANO-2, and other aspects of the TSs are unaffected by the change.

A copy of our related Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's next biweekly *Federal Register* notice.

Sincerely,

*/RA/*

William Reckley, Project Manager, Section 1  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-313 and 50-368

Enclosures: 1. Amendment No. 214 to DPR-51  
2. Amendment No. 232 to NPF-6  
3. Safety Evaluation

cc w/encls: See next page

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\* See previous concurrence

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OFFICIAL RECORD

ENERGY OPERATIONS, INC.

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE, UNIT NO. 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 214  
Renewed License No. DPR-51

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Entergy Operations, Inc. (the licensee) dated January 27, 2000, as supplemented by letters dated March 1, June 12, and July 26, 2001, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and Paragraph 2.c.(2) of Renewed Facility Operating License No. DPR-51 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 214 , are hereby incorporated in the renewed license. EOI shall operate the facility in accordance with the Technical Specifications.

3. The license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA/*

Robert A. Gramm, Chief, Section 1  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical  
Specifications

Date of Issuance: August 16, 2001

ATTACHMENT TO LICENSE AMENDMENT NO. 214

RENEWED FACILITY OPERATING LICENSE NO. DPR-51

DOCKET NO. 50-313

Replace the following pages of the Appendix A Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove

40  
41a

Insert

40  
41a

ENERGY OPERATIONS, INC.

DOCKET NO. 50-368

ARKANSAS NUCLEAR ONE, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 232  
License No. NPF-6

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Entergy Operations, Inc. (the licensee) dated January 27, 2000, as supplemented by letters dated March 1, June 12, and July 26, 2001, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and Paragraph 2.C.(2) of Facility Operating License No. NPF-6 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 232 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA/*

Robert A. Gramm, Chief, Section 1  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical  
Specifications

Date of Issuance: August 16, 2001

ATTACHMENT TO LICENSE AMENDMENT NO. 232

FACILITY OPERATING LICENSE NO. NPF-6

DOCKET NO. 50-368

Replace the following pages of the Appendix A Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove

3/4 7-7  
B 3/4 7-2  
B 3/4 7-2a

Insert

3/4 7-7  
B 3/4 7-2  
B 3/4 7-2a

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NOS. 214 AND 232 TO  
FACILITY OPERATING LICENSE NOS. DPR-51 AND NPF-6  
ENERGY OPERATIONS, INC.  
ARKANSAS NUCLEAR ONE, UNITS 1 AND 2  
DOCKET NOS. 50-313 AND 50-368

1.0 INTRODUCTION

By letter dated January 27, 2001, as supplemented by letters dated March 1, June 12, and July 26, 2001, Entergy Operations, Inc. (the licensee) submitted a request for changes to the Arkansas Nuclear One (ANO), Units 1 and 2 (ANO-1 and ANO-2), Technical Specifications (TSs). The requested changes would allow the qualified condensate storage tank (QCST) to be used for both units and define new minimum volume requirements for the tank to reflect possible alignments of the tank to ANO-1, ANO-2, or both units. The total volume requirements, the allowable alternative alignment for ANO-2, and other aspects of the TSs are unaffected by the change.

The supplemental letters dated June 12 and July 26, 2001, provided clarifying information and revised TSs that were within the scope of the staff's initial proposed no significant hazards consideration determination, which addressed the original application and supplement dated March 1, 2001 (66 FR 29352, published May 30, 2001).

2.0 BACKGROUND

2.1 Existing Licensing Bases for ANO Condensate Storage Facilities

The condensate storage facilities routinely store and supply water to various plant systems and components. The primary safety function of the condensate storage facilities at ANO is to provide a source of water for the emergency feedwater (EFW) systems for both units. The EFW systems provide cooling water to the steam generators (SGs) which in turn cool the reactor coolant following certain plant transients. The staff has identified the regulatory requirements that are related to the proposed changes in the licensee's application. Each of these requirements will be discussed (in terms of the proposed change) in Section 3.0 of this safety evaluation. There are numerous other regulatory requirements that affect the subject structures, systems, and components (SSCs), but which do not relate directly to the changes proposed by the licensee. It should be noted that the general design criteria (GDC) included in Appendix A to 10 CFR Part 50 are not applicable to plants such as ANO-1 with construction permits issued prior to May 21, 1971. At the time of the promulgation of Appendix A, the Nuclear Regulatory Commission (NRC or the Commission) stressed that the GDC were not

new requirements and were promulgated to more clearly articulate the licensing requirements and practice in effect at that time. For convenience, the staff refers to the GDC instead of the ANO-1 specific licensing bases.

The staff has identified the following regulatory requirements that have a possible bearing on the licensee's proposed TS changes:

- 10 CFR Part 50, Appendix A, "General Design Criteria for Nuclear Power Plants"
  - GDC-2, "Design bases for protection against natural phenomena"
  - GDC-5, "Sharing of structures, systems, and components"
  - GDC-34, "Residual heat removal"
  - GDC-44, "Cooling water"
- NRC Regulations
  - 10 CFR 50.36, "Technical specifications"
  - 10 CFR 50.63, "Loss of all alternating current power"
  - 10 CFR 50.65, "Requirements for monitoring the effectiveness of maintenance at nuclear power plants"
- Technical Specifications
  - ANO-1 TS 3.4.1, "Steam and Power Conversion"
  - ANO-2 TS 3/4.7.1.3, "Condensate Storage Tank"
- Other Licensing Bases Documents
  - The condensate storage facilities at ANO are discussed in other licensing bases documents such as each unit's Updated Safety Analysis Report (USAR).
  - Requirements imposed by the staff following the accident at Three Mile Island Nuclear Station (TMI) and the implementation of 10 CFR 50.63 to address station blackout events resulted in significant changes to some systems at ANO. These changes resulted from various interactions between the licensee and NRC staff and included the imposition of plant-specific backfits for the ANO units. Although the USARs or other licensing bases documents captured some of this information, some background information is also provided by the source documents such as the correspondence from the licensee and the regulatory analyses prepared by the NRC.
- NRC guidance documents related to this amendment include:
  - Standard Review Plan Section 9.2.6, "Condensate Storage Facilities"
  - Standard Review Plan Section 10.4.9, "Auxiliary Feedwater System (PWR)"

The condensate storage facilities at ANO consist of four tanks. For ANO-1, tanks T41 and T41B perform this function. Tank T41B (the QCST) is usually aligned to the condenser and other auxiliary loads, as well as being aligned as the source of water for the EFW pumps.

Tank T41B was incorporated into the ANO-1 TSs by Amendment 101, dated May 21, 1986. In the existing TS, the requirement is written to reflect a configuration in which the tank is solely aligned to ANO- 1. The current volume requirement is 107,000 gallons and is based on providing a source of EFW for several hours. ANO-1 systems, including EFW, can be aligned to tank T41 which could provide a source of condensate water in addition to the QCST and the service water system (SWS). Tank T41 is not seismically qualified or protected from tornado missiles.

Tank T41B was constructed in the 1980s in response to NRC and industry efforts to improve the reliability of auxiliary (emergency) feedwater systems. As a result of interactions between the licensee and the staff, tornado protection was added to tank T41B. Following the modification that added a wall around the tank, a volume of water would remain available to supply EFW even if a tornado-generated missile punctured the tank. The height of the wall was determined to provide at least 30 minutes of water for the EFW system, during which time operators could transfer the suction to the assured source, the SWS. The staff concluded that the resultant tank design met the intent of GDC-2. The tank has the capability to be aligned to both units, which was the stated objective since its construction. Given its design to meet the criteria for seismic and tornado protection, the tank is referred to as the QCST.

Two condensate storage tanks (CSTs), 2T41A and 2T41B, which are not seismically qualified, are currently aligned to provide a source of water for ANO-2 only. The volumes for these tanks required by the current TSs support EFW operation for several hours. The ANO-2 TSs currently require that either 2T41A or 2T41B contain a volume of 160,000 gallons. This volume is generally described in the bases as providing the capability to maintain the Reactor Coolant System at Hot Standby conditions for one hour, with steam discharge to the atmosphere and a concurrent loss of offsite power. The ANO-2 USAR notes that the 160,000 gallons is adequate to bring the reactor to a Hot Shutdown condition at a cooldown rate of 75 °F per hour, with one hour at Hot Standby allowed. The current design of the ANO-2 Condensate Storage System includes instrumentation to automatically switch the EFW suction source alignment from the non-seismically qualified tanks to the SWS (a fully qualified safety-related system) on a signal indicating low EFW pump suction pressure.

## 2.2 Description of Proposed Change

During 1997, ANO-1 was one of several facilities across the nation that received an NRC-sponsored architect-engineer (A/E) inspection (See inspection report 50-313/97-201). The inspection focused on several important safety systems, including the ANO-1 EFW system. The inspection team noted a discrepancy in the licensing bases for the EFW system and the QCST in that some documents described the required volume as that needed for several hours of operation and possibly cooldown of the unit, while other documents described the design basis as only requiring 30 minutes supply of water to support transfer of the EFW suction to the SWS. The licensee reported to the NRC that the Bases of the ANO-1 TS would be corrected to describe the 30 minute bases for the determined volume. This amendment request was intended to be the licensee's corrective action previously reported to the NRC. The staff expressed reservations about the TS changes proposed in the licensee's application dated January 27, 2000, in that they did not appear to address all postulated event scenarios and TMI Action Plan requirements. The licensee revised the proposed TS in their supplemental letter dated June 12, 2001, to basically maintain the current volume requirements while allowing both

units to be aligned to the QCST. The licensee's supplemental letter dated July 26, 2001, provided revised pages for the Bases Sections of the affected TSs.

The change proposed by the licensee includes the allowance to align both units to the QCST. A benefit of aligning ANO-2 to the QCST is that it allows the licensee to bypass the automatic transfer to the SWS, and thereby minimizes the possibility of an inadvertent addition of untreated service water to the ANO-2 SGs. The introduction of untreated water to the SGs is undesirable because it introduces long-term concerns about corrosion of the SG tubes.

For ANO-1, the licensee has proposed to revise TS 3.4.1.3 to specify a new minimum volume requirement for the QCST, based on providing a source of EFW for both units. The revised TS maintains the current available volume (107,000 gallons) if only ANO-1 is aligned to the QCST, and requires the sum of the current ANO-1 and ANO-2 requirements (267,000 gallons) if both units are aligned to the QCST. The proposed TS thereby maintains the ability of the current TS to provide a source of EFW for several hours for ANO-1, whether only ANO-1 or both units are aligned to the QCST. Consistent with the current requirements, operators would need to manually switch the EFW suction for ANO-1 over to the assured long-term source of cooling water, the SWS, if the volume of water in the QCST is exhausted. A level alarm exists to alert operators to a low water level condition in the QCST. The setpoint for the alarm is established to ensure that operators have sufficient time to perform the realignment of the suction source of the EFW pumps.

For ANO-2, the licensee has proposed to revise TS 3.7.1.3 to reflect the use of the QCST (T41B) as an alternative to the currently specified tanks. The existing CSTs, 2T41A and 2T41B, are not seismically qualified. The proposed wording specifies a minimum available volume requirement for the QCST based on providing a source of EFW for both units or only ANO-2. The revised TS maintains the current available volume (160,000 gallons) if only ANO-2 is aligned to the QCST, and requires the sum of the current ANO-1 and ANO-2 requirements (267,000 gallons) if both units are aligned to the QCST. The licensee has not proposed to change the requirement for the existing tanks when they are aligned to provide a source of EFW.

### 3.0 EVALUATION

GDC-2 states that SSCs important to safety should be designed to withstand the effects of natural phenomena such as earthquakes and tornadoes. For ANO-1, the proposed TS change does not significantly affect how the licensee meets the intent of GDC-2. For ANO-2, compliance with GDC-2 for the EFW supply of water is currently accomplished through an automatic transfer to the SWS on EFW low suction pressure if the EFW is aligned to the non-seismic CSTs. The proposed change maintains this design feature, but also allows ANO-2 to be aligned to the QCST. If aligned to the QCST, the logic for the transfer from a tank to the SWS changes from automatic to manual. The QCST provides the necessary confidence that enough water would stay in the tank if it were punctured by a tornado-generated missile to give operators at least 30 minutes to perform the manual transfer for both ANO units (see NRC Inspection Report 50-313/97-201 dated July 24, 1997). In terms of seismic qualifications, both the QCST and the SWS are designed to withstand the design basis earthquake. The staff finds that the proposed TS changes for ANO-1 and ANO-2 will maintain compliance with GDC-2.

GDC-5 states that sharing SSCs important to safety among nuclear power units should not significantly impair the SSCs ability to perform their safety functions. The original design of QCST, reviewed by the NRC staff in the early 1980's, included using the tank for the preferred source of water for EFW for both units. The licensee's supplemental letter dated March 1, 2001, reaffirmed that each unit has a separate suction connection to the QCST and that alignment of the QCST to both units will not impair either unit's EFW system in terms of its ability to perform its safety functions. The staff finds that the proposed TS changes for ANO-1 and ANO-2 will not affect compliance with GDC-5.

GDC-34 and GDC-44 establish the requirements to assure adequate capability to transfer heat from the reactor to a heat sink under normal and accident conditions. During the review of the licensee's proposal, the NRC staff raised a question regarding the effect of SWS on long-term effectiveness of SGs as a heat sink. As mentioned by the licensee, the CSTs have always been an intermediate source of cooling water since the available volumes of cooling water are defined by the size of the tanks. Current TSs do, however, ensure a sufficient amount of water to last for the first several hours of a transient and could support a cooldown of the units to a point where the decay heat removal systems could likely replace the SGs as the means of removing decay heat from the core. In response to the staff's concerns, the licensee, in its supplemental letter dated June 12, 2001, revised the proposed TS requirements to maintain the same volume requirements as those in the current TS for both units. The proposed changes therefore do not affect the cooling capability or the ability of either unit to remove decay heat without reliance on using the SWS as the suction source for EFW. Beyond the TS requirements, additional confidence that the SWS will be used as the EFW suction source of last resort is provided by the licensee's desire to maintain strict chemistry control to limit potential long term degradation of the SGs.

Pursuant to 10 CFR 50.36, TS limiting conditions for operation (LCOs) are to be defined for SSCs that are part of the primary success path for mitigating design basis accidents or transients that present a challenge to a fission product barrier. The licensee has proposed to maintain a TS for the CSTs and, as discussed above, the proposed change is consistent with existing TS requirements.

In response to staff concerns following the issuance of 10 CFR 50.63, the licensee installed an alternate source of AC power (AAC), which can be connected to either unit within 10 minutes of the identification of a station blackout event. The proposed TS for both units ensure that the EFW systems will have the same available volumes of condensate water as is provided by the current TS. In addition, the capabilities of the AAC diesel generator is such that the SWS could provide water if necessary. The staff finds that the proposed TS change would not create an issue in terms of the licensee's compliance with 10 CFR 50.63.

### 3.1 Technical Specifications

#### ANO-1 TS 3.4.1, "Steam and Power Conversion"

The existing ANO-1 TS require 11.1 feet (107, 000 gallons) of water to be available in Tank T41B (the QCST). An associated LCO states that the QCST shall not be removed from service for more than 24 consecutive hours. If the system is not restored within 24 hours, the ANO-1 reactor must be placed in the hot shutdown condition within 12 hours. If the volume of water in

the QCST is not restored within an additional 48 hours, the TS require the ANO-1 reactor to be placed in cold shutdown within 24 hours.

The licensee's proposal is to maintain the current requirements when only ANO-1 is aligned to the QCST, but to increase the volume requirements (by the amount currently required in the ANO-2 TS) when both units are aligned to the QCST. The technical requirements related to ANO-1 are basically unchanged by the proposed TS.

The staff finds that the proposed TS changes for ANO-1 are acceptable.

#### ANO-2 TS 3/4.7.1.3, "Condensate Storage Tank"

The existing ANO-2 TS require 160,000 gallons of water to be available in at least one CST (i.e., either Tank 2T41A or 2T41B). The associated Action states that, if the required CST is inoperable, the licensee must within four hours (1) restore at least one CST or be in hot shutdown within the next 12 hours, or (2) demonstrate the operability of the SWS as a backup supply to EFW and restore at least one CST to operable status within seven days or be in hot shutdown within the next 12 hours.

The licensee's proposal is to change the requirement to have either (1) a minimum usable volume of 160,000 gallons of water available in T41B (the QCST) when only ANO-2 is aligned to the tank or 267,000 gallons (the sum of ANO-1 and ANO-2 volumes) when both units are aligned to the QCST; or (2) 160,000 contained gallons in either 2T41A or 2T41B (i.e., the current TS requirement). The volume requirements for condensate-grade water for ANO-2 are the same as the current requirements and the change is only to define the QCST as an acceptable source. As previously discussed, the use of the QCST for ANO-2 satisfies the applicable regulatory requirements and adequately maintains the affected safety functions.

The staff finds that the proposed TS changes for ANO-1 and ANO-2 are consistent with the existing TS requirements

#### 4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Arkansas State official was notified of the proposed issuance of the amendment. The State official had no comment.

#### 5.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration and there has been no public comment on such finding (66 FR 29352 published May 30, 2001). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

## 6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: W. Reckley

Date: August 16, 2001