

May 15, 2002

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

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT NO. 1 - ISSUANCE OF AMENDMENT
RE: REVISION TO CORE OPERATING LIMITS REPORT (TAC NO. MB3940)

Dear Mr. Anderson:

The Commission has issued the enclosed Amendment No. 216 to Renewed Facility Operating License No. DPR-51 for Arkansas Nuclear One, Unit No. 1. The amendment consists of changes to the Technical Specifications (TSs) in response to your application dated January 31, 2002.

The amendment revises TS 5.6.5, "Core Operating Limits Report (COLR)," to include an additional reference to Entergy Operations, Inc., Topical Report ENEAD-01-P, "Qualification of Reactor Physics Methods for Pressurized Water Reactors of the Entergy System."

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/

John L. Minns, Project Manager, Section 1
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-313

Enclosures: 1. Amendment No. 216 to DPR-51
2. Safety Evaluation

cc w/encls: See next page

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ENERGY OPERATIONS INC.

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE, UNIT NO. 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 216
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 31, 2002, 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. 216, are hereby incorporated in the renewed 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 implementation of Amendment No. 215.

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: May 15, 2002

ATTACHMENT TO LICENSE AMENDMENT NO. 216

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

5.0-28

Insert

5.0-28

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 216 TO

RENEWED FACILITY OPERATING LICENSE NO. DPR-51

ENTERGY OPERATIONS, INC.

ARKANSAS NUCLEAR ONE, UNIT NO. 1

DOCKET NO. 50-313

1.0 INTRODUCTION

By letter dated January 31, 2002, Entergy Operations, Inc. (Entergy or the licensee), submitted a request for changes to the Arkansas Nuclear One, Unit No. 1 (ANO-1), Technical Specifications (TSs) (Reference 1). The requested change revises TSs 5.6.5, "Core Operating Limits Report (COLR)," adding a reference to Entergy Topical Report ENEAD-01-P, "Qualification of Reactor Physics Methods for the Pressurized Water Reactors of the Entergy System."

2.0 BACKGROUND

By letter dated January 7, 1994, Entergy requested that the U.S. Nuclear Regulatory Commission (NRC) review and approve Topical Report ENEAD-01-P for use at ANO-1 and Arkansas Nuclear One, Unit 2 (ANO-2), and Waterford Steam Electric Station, Unit 3 (WAT-3). The Topical Report documents a NRC-approved methodology that can be utilized to determine core operating limits. The report has been reviewed and approved by the NRC in a Safety Evaluation dated September 29, 1995. (Reference 2).

3.0 EVALUATION

The licensee requested that TS 5.6.5.b, "Core Operating Limits Report (COLR)," be modified by the addition of Entergy Topical Report ENEAD-01-P. The request satisfies the requirement for such changes provided by Generic Letter (GL) 88-16 (Reference 3). GL 88-16 was issued to alleviate the unnecessary burden of listing cycle-specific limits in the TSs. GL 88-16 was constructed to satisfy the requirements of 10 CFR 50.36(c)(1), which requires the specification of "Safety limits...upon important process variables that are found to be necessary to reasonably protect the integrity of certain of the physical barriers...."

To satisfy 10 CFR 50.36(c)(1), GL 88-16 specifies that "...specific values of these limits may be modified by licensees, without affecting nuclear safety, provided that these changes are determined using an NRC-approved methodology and consistent with all applicable limits of the plant safety analysis...." Topical Report ENEAD-01-P has been reviewed and approved by the staff for application to ANO-1, ANO-2, and WAT-3 (Reference 2). The validation was based on

data from these plants, and Entergy intended to provide reload cycle-specific support for these three plants. Topical Report ENEAD-01-P is based on CASMO/SIMULATE, and is thus subject to their limitations (i.e., that CASMO be used for verified parameter ranges and that SIMULATE be used for steady-state physics analyses with the approved versions of CASMO-3 and TABLES-3 codes).

Topical Report ENEAD-01-P satisfies the GL 88-16 requirements, therefore, satisfies 10 CFR 50.36(c)(1), which renders it acceptable for referencing in the ANO-1 COLR. The staff concludes that the request to add Topical Report ENEAD-01-P to ANO-1 TS 5.6.5.b is acceptable.

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 comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendment relates to changes in recordkeeping, reporting, or administrative procedures or requirements. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (67 FR 7416, published February 19, 2002). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

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 amendment will not be inimical to the common defense and security or to the health and safety of the public.

7.0 REFERENCES

1. Letter from C.G. Anderson, Entergy Operations, Inc., to NRC, "Arkansas Nuclear One, Unit 1, Technical Specification Change Request Concerning an Addition to the Core Operating Limits Report References," dated January 31, 2002.
2. NRC Safety Evaluation of Topical Report ENEAD-01-P, Rev. 0, "Qualification of Reactor Physics Methods for Application to Pressurized Water Reactors of the Entergy System," dated September 29, 1995.
3. Letter from D. Crutchfield to All Power Reactor Licensees and Applicants, Generic Letter 88-16, "Removal of Cycle-Specific Parameter Limits from Technical Specifications," dated October 3, 1988.

Principal Contributor: Lambrois Lois

Date: May 15, 2002

Arkansas Nuclear One

cc:

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