

July 25, 1985

Docket No. 50-313

Mr. John M. Griffin  
Senior Vice President  
of Energy Supply  
Arkansas Power and Light Company  
P. O. Box 551

Dear Mr. Griffin:

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SECY

The Commission has issued the enclosed Amendment No. 97 to Facility Operating License No. DPR-51 for Arkansas Nuclear One, Unit No. 1 (ANO-1). This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated March 1, 1985.

The amendment revises the ANO-1 TSs to reflect specific time intervals in terms of Effective Full Power Days for Axial Power Shaping Rod insertion limits.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's next Biweekly Notice.

Sincerely,



Guy S. Vissing, Project Manager  
Operating Reactors Branch #4  
Division of Licensing

Enclosures:

1. Amendment No. 97 to DPR-51
2. Safety Evaluation

cc w/enclosures:  
See next page

ORB#4:DL  
RIngram  
7/16/85

ORB#4:DL  
GVising; cr  
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ORB#4:DL  
JFStolz  
7/18/85

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7/24/85

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BGrimes  
7/24/85

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PDR ADCK 05000313  
P PDR

Mr. J. M. Griffin  
Arkansas Power & Light Company

Arkansas Nuclear One, Unit 1

cc:

Mr. J. Ted Enos, Manager  
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Mr. Robert B. Borsum  
Babcock & Wilcox  
Nuclear Power Generation Division  
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Bethesda, Maryland 20814

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Russellville, Arkansas 72801

Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
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for Operations  
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Mr. Frank Wilson, Director  
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Protection  
Department of Health  
Arkansas Department of Health  
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Little Rock, Arkansas 72201

Honorable Ermil Grant  
Acting County Judge of Pope County  
Pope County Courthouse  
Russellville, Arkansas 72801



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

ARKANSAS POWER & LIGHT COMPANY

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 37  
License No. DPR-51

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Arkansas Power & Light Company (the licensee) dated March 1, 1984, 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 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. DPR-51 is hereby amended to read as follows:

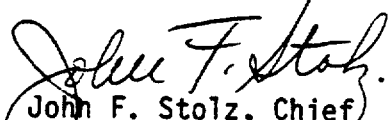
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Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 97, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: July 25, 1985

ATTACHMENT TO LICENSE AMENDMENT NO. 97

FACILITY OPERATING LICENSE NO. DPR-51

DOCKET NO. 50-313

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

Remove

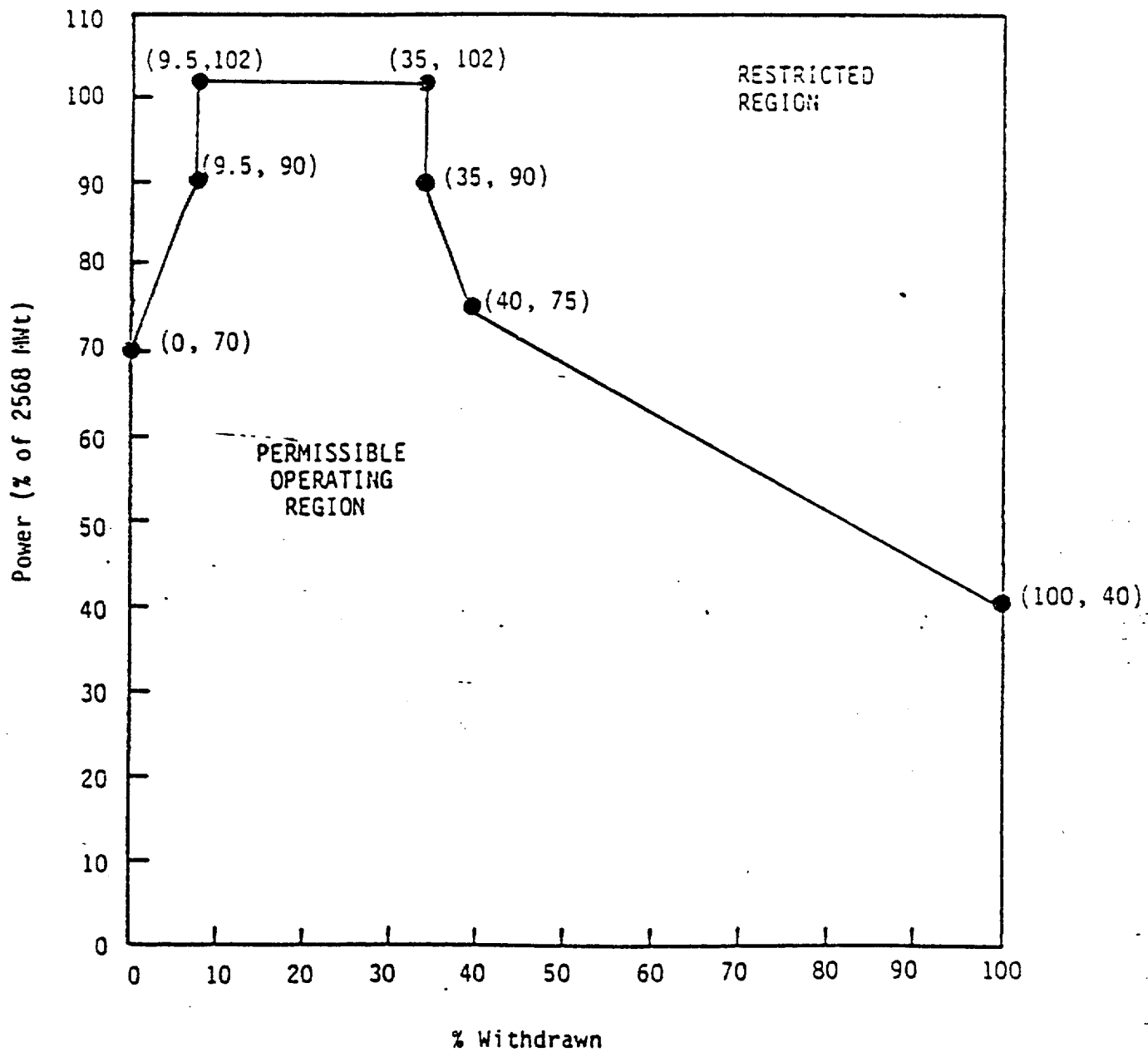
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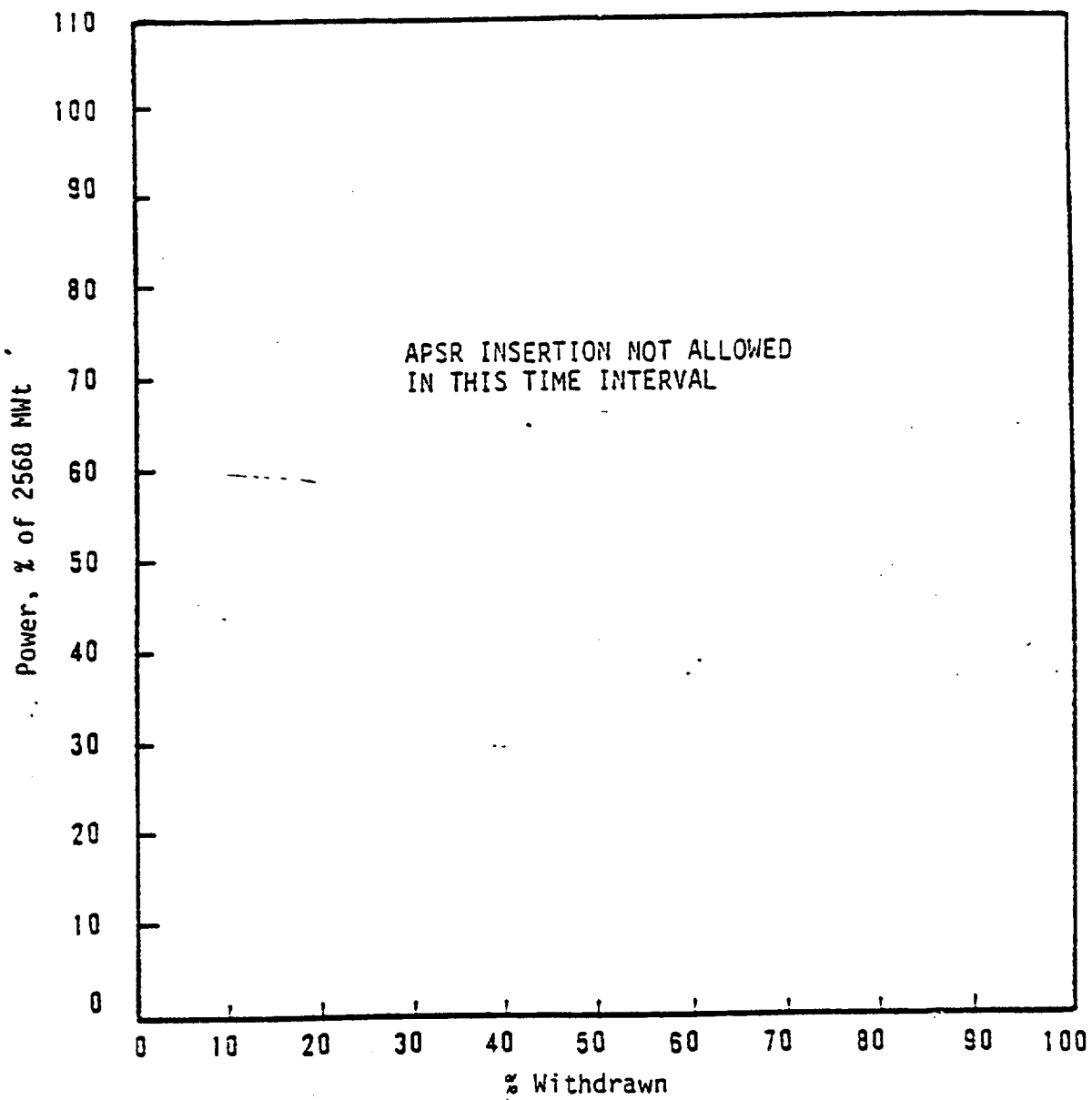
3.5.2-2E	DELETED	
3.5.2-2F	DELETED	
3.5.2-2G	DELETED	
3.5.2-2H	DELETED	
3.5.2-3	OPERATIONAL POWER IMBALANCE ENVELOPE FOR OPERATION FROM 0 EFPD TO EOC - ANO-1	48e
3.5.2-3B	DELETED	
3.5.2-3C	DELETED	
3.5.2-3D	DELETED	
3.5.2-4	LOCA LIMITED MAXIMUM ALLOWABLE LINEAR HEAT RATE	48f
3.5.2-4A	APSR POSITION LIMITS FOR OPERATION FROM 0 EFPD to 400±10 EFPD ANO-1	48g
3.5.2-4B	APSR POSITION LIMITS FOR OPERATION AFTER 400±10 EFPD ANO1	48h
3.5.2-4C	DELETED	
3.5.2-4D	DELETED	
3.5.4-1	INCORE INSTRUMENTATION SPECIFICATION AXIAL IMBALANCE INDICATION	53a
3.5.4-2	INCORE INSTRUMENTATION SPECIFICATION RADIAL FLUX TILT INDICATION	53b
3.5.4-3	INCORE INSTRUMENTATION SPECIFICATION	53c
3.24-1	HYDROGEN LIMITS FOR ANO-1 WASTE GAS SYSTEM	110bc
4.4.2-1	NORMALIZED LIFTOFF FORCE - HOOP TENDONS	85b
4.4.2-2	NORMALIZED LIFTOFF FORCE - DOME TENDONS	85c
4.4.2-3	NORMALIZED LIFTOFF FORCE - VERTICAL TENDONS	85d

APSR Position Limits for Operation From  
0 EFPD to 400 + 10 EFPD --- ANO-1  
Figure 3.5.2-4A



Amendment No. ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ 97

APSR Position Limits for Operation After  
400 ± 10 EFPD --- ANO-1  
Figure 3.5.2-4B



Amendment No. ~~31~~, ~~41~~, ~~52~~, ~~71~~, ~~92~~, 97

48 h



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 97 TO FACILITY OPERATING LICENSE NO. DPR-51  
ARKANSAS POWER & LIGHT COMPANY  
ARKANSAS NUCLEAR ONE, UNIT 1  
DOCKET NO. 50-313

INTRODUCTION

By letter dated March 1, 1985, Arkansas Power & Light Company (AP&L or the licensee) requested amendment to the Technical Specifications (TSs) appended to Facility Operating License No. DPR-51 for Arkansas Nuclear One, Unit No. 1 (ANO-1). The proposed changes would change the TSs to reflect specific time intervals in terms of Effective Full Power Days (EFPD) for Axial Power Shaping Rod (APSR) insertion limits.

BACKGROUND

In our review of the AP&L application for amendment for the ANO-1 TSs for operation during Cycle 7 (Ref. 1), we noted that TS Figure 3.5.2-4A, "APSR Position Limits for Operation from 0 EFPD to APSR Withdrawal," did not provide a specific time during the cycle of operation when the APSRs would be fully withdrawn. This specific time interval has normally been provided in the TSs for previous cycles of operation. We, therefore, requested a revision to the ANO-1 TSs to reflect specific time intervals in terms of EFPD for APSR insertion limits (Ref. 2).

EVALUATION

In response to our request, AP&L submitted proposed revised titles to TS Figures 3.5.2-4A and 3.5.2-4B which would govern APSR position limits from 0 EFPD to  $400 \pm 10$  EFPD and after  $400 \pm 10$  EFPD respectively. The calculated stability index at 404 EFPD without APSRs was shown to be  $-0.52h^{-1}$  in the Cycle 7 reload submittal (Ref. 4). This demonstrates the axial stability of the core without APSRs beyond  $400 \pm 10$  EFPD and the revised TS figure titles mentioned above, which refer to APSR removal beyond  $400 \pm 10$  EFPD, are therefore acceptable.

ENVIRONMENTAL CONSIDERATIONS

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. We have determined that the amendment involves 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 this amendment involves no

significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets 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 this amendment.

#### CONCLUSIONS

We have 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: July 25, 1985

Principal Contributors: L. Kopp, G. S. Vissing

REFERENCES

1. Letter from J. M. Griffin (AP&L) to J. F. Stolz (NRC), Arkansas Nuclear One, Unit 1 Cycle 7 Reload Report and Proposed Technical Specification Change Request, September 26, 1984.
2. Letter from J. F. Stolz (NRC) to J. M. Griffin (AP&L), dated December 26, 1984.
3. Letter from T. G. Campbell (AP&L) to J. F. Stolz (NRC), Arkansas Nuclear One, Unit 1, Technical Specification Change - Revision of Figure Titles, March 1, 1985.
4. Arkansas Nuclear One, Unit 1 Cycle 7 Reload Report, BAW-1840, August 1984.