

December 20, 1984

DMB 016

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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The Commission has issued the enclosed Amendment No. 89 to Facility Operating License No. DPR-51 for Arkansas Nuclear One, Unit 1. This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated October 15, 1984.

The amendment reflects, in the Technical Specifications, the actual number of instrument channels for the detection of pressurizer level, which will be available following modifications to upgrade these instruments during the sixth refueling outage.

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

Sincerely,

"ORIGINAL SIGNED BY:"

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

Enclosures:

1. Amendment No. 89 to DPR-51
2. Safety Evaluation

cc w/enclosures:
See next page

ORB#4:DL
RIngram
12/11/84

ORB#4:DL
GVissing;cf
12/14/84

ORB#4:DL
JFStoltz
12/14/84

OELD Noted objection
McGinnis
12/12/84

AD:ORB:DL
GLainas
12/11/84

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PDR ADOCK 05000313
P PDR

Arkansas Power & Light Company

50-313, Arkansas Nuclear One, Unit 1

cc w/enclosure(s):

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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. 89
License No. DPR-51

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Arkansas Power and Light Company (the licensee) dated October 15, 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:

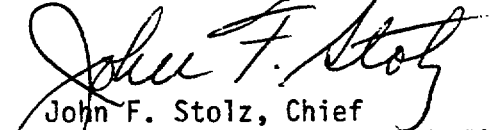
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Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 89, 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: December 20, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 89

FACILITY OPERATING LICENSE NO. DPR-51

DOCKET NO. 50-313

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change.

Remove

45b

Insert

45b

Table 3.5.1-1 (Cont'd)

OTHER SAFETY RELATED SYSTEMS

	1	2	3	4	5
<u>Functional Unit</u>	<u>No. of channels</u>	<u>No. of channels for system trip</u>	<u>Min. operable channels</u>	<u>Min. degree of redundancy</u>	<u>Operator Action if conditions of column 3 or 4 cannot be met</u>
2. Steam line break instrumentation control system (SLBIC) (a) SLBIC Control & Logic Channels	2	1	2	1	Notes 9, 5
3. Pressurizer level channels	2	N/A	2	1	Note 10
4. Emergency Feedwater flow channels	2/S.G.	N/A	1	0	Note 10
5. RCS subcooling margin monitors	2	N/A	1	0	Note 10
6. Electromatic relief valve flow monitor	2	N/A	1	0	Note 11
7. Electromatic relief block valve position indicator	1	N/A	1	0	Note 12
8. Pressurizer code safety valve flow monitors	2/valve	N/A	1/valve	0	Note 10
9. Degraded Voltage Monitoring (a) 4.16 KV Emergency Bus Undervoltage	2/Bus	1/Bus	2/Bus	0	Note 14
(b) 460 V Emergency Bus Undervoltage	*1/Bus	1/Bus	1/Bus	0	Notes 13, 14
10. Chlorine Detection Systems	2	1	2	0	Notes 17, 18

*Two undervoltage relays per bus are used with a coincident trip logic (2-out-of-2)



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 89 TO FACILITY OPERATING LICENSE NO. DPR-51

ARKANSAS POWER & LIGHT COMPANY

ARKANSAS NUCLEAR ONE, UNIT 1

DOCKET NO. 50-313

INTRODUCTION

By letter dated October 15, 1984, Arkansas Power and 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 1 (ANO-1). The proposed changes would reflect, in the Technical Specifications (TSs), the actual number of instrument channels for the detection of pressurizer level, which will be available following modifications to upgrade these instruments during the sixth refueling outage.

DISCUSSION

At present two pressurizer level indications are provided in the control room through the use of non-nuclear instrumentation power. The level indicators are temperature compensated through the use of a dual element RTD located in a single well in the pressurizer. Uncompensated level is provided by three-level transmitters (powered from non-nuclear instrumentation) whose inputs come from three separate taps in the pressurizer. One level indicator is capable of being fed level and temperature signals from any of the three level and the two temperature transmitters. The second level indicator is fed level and temperature signals only from one level and one temperature transmitter. Although the existing transmitters are not independent, TS Table 3.5.1-1 currently describes this as a three channel system.

The existing system will be replaced with two independent channels of temperature compensated level indication. The new pressure transmitters and RTDs are environmentally qualified and are powered from a Class 1E power source. The proposed TS change to Table 3.5.1-1 is necessary so that the table will accurately reflect the number of instrument channels to monitor the pressurizer level.

EVALUATION

The proposed change does not affect the minimum number of channels required to be operable or the minimum degree of redundancy required by the TSs. This is in compliance with the Babcock & Wilcox Standard Technical Specifications, reflects the recommendation for installed post-accident monitoring instrumentation outlined in R.G. 1.97 and is, therefore, acceptable.

ENVIRONMENTAL CONSIDERATION

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.

CONCLUSION

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: December 20, 1984

Principal Contributors: N. Trehan and G. Vissing