

Docket No. 50-313

MAR 31 1977

Arkansas Power & Light Company
ATTN: Mr. J. D. Phillips
Senior Vice President
Production, Transmission and
Engineering
Sixth and Pine Streets
Pine Bluff, Arkansas 71601

Gentlemen:

The Commission has issued the enclosed Amendment No. 21 to Facility Operating License No. DPR-51 for Arkansas Nuclear One - Unit No. 1. This amendment revised the provisions of the Technical Specifications in response to your requests dated July 9, 1975, and December 1, 1976, as supplemented by letters dated August 8 and 22, 1975, October 15, 1975, and December 31, 1975, January 13, 1977, February 7, 17, 22 and 24, 1977, and March 1, 9 and 17, 1977.

This amendment: (1) incorporates revised core protection limits in response to the plant specific analysis for Reload 1; (2) incorporates revised fuel rod bow analyses and Technical Specification changes pertinent thereto; (3) incorporates revised and NRC-approved Babcock & Wilcox Company model for nucleate boiling heat transfer correlation during blowdown; (4) incorporates new technical specification limiting conditions for operation and surveillance requirements regarding core internal vent valves; and (5) incorporates modified operating limits in the Technical Specifications based upon an evaluation of emergency core cooling (ECCS) performance calculated in accordance with an acceptable ECCS evaluation model that conforms with the requirements of Appendix K of 10 CFR Part 50 and as required by the Commission's Order for License Modification dated December 27, 1974, with the following exception. The Commission's analysis of electrical single failure criterion is still under consideration and will be the subject of a separate review.

The incorporation of modified operating limits for ECCS (item 5 above) supersedes the restrictions imposed by the Commission's Order for License Modification dated December 27, 1974.

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The portion of your January 13, 1977 letter related to examination of primary nozzle-to-vessel welds has been previously evaluated and resulted in issuance of Amendment No. 20, dated March 15, 1977.

This amendment constitutes approval for operation of Arkansas Nuclear One - Unit No. 1 for fuel cycle 2.

Copies of our related Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by

Don K. Davis

Don K. Davis, Acting Chief
Operating Reactors Branch #2
Division of Operation Reactors

Enclosures:

1. Amendment No. 21 to License No. DPR-51
2. Safety Evaluation
3. Notice

cc w/enclosures:
See next page

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- TBAbernathy
- JRBuchanan

Notified AP&L (Don Luster) that this package was signed. 3/31/77 1700 [Signature]

DOR:AD/OR
KRGoller
3/31/77

OFFICE →	DOR:ORB #2	DOR:ORB #2	DOR:RSB/OT	DOR:PSB/OT	OELD	DOR:ORB #2
SURNAME →	RMDiggs	RPSnaider:ro	RBaer	WButler	Don Davis	DKDavis
DATE →	3/30/77	3/30/77	3/31/77	3/31/77	3/31/77	3/31/77

For further details with respect to this action, see (1) the applications for amendment dated July 9, 1975, and December 1, 1976, as supplemented by letters dated August 8 and 22, 1975, October 15, 1975, December 31, 1975, January 13, 1977, February 7, 17, 22, and 24, 1977, and March 1, 9, and 17, 1977, (2) Amendment No. to Facility Operating License No. DPR-51 and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Arkansas Polytechnic College, Russellville, Arkansas 72801. A single copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this

FOR THE NUCLEAR REGULATORY COMMISSION

Don K. Davis, Acting Chief
Operating Reactors Branch #2
Division of Operating Reactors

OFFICE ▶					
SURNAME ▶					
DATE ▶					

MAR 31 1977

cc w/enclosures:

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U. S. Environmental Protection
Agency
Region VI Office
ATTN: EIS COORDINATOR
1201 Elm Street
First International Building
Dallas, Texas 75270

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

cc w/enclosures and copy of
AP&L filings referenced in
first paragraph of this
letter, except for proprietary
information:
Director, Bureau of Environmental
Health Services
4815 West Markham Street
Little Rock, Arkansas 72201