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MEMORANDUM FOR: Thomas M. Novak, Assistant Director for Operating Reactors  
Division of Licensing

FROM: Themis P. Speis, Assistant Director for Reactor Safety  
Division of Systems Integration

SUBJECT: ARKANSAS NUCLEAR ONE UNIT 2: ENGINEERED SAFETY FEATURES  
RESET CONTROLS, SUPPLEMENTAL SAFETY EVALUATION REPORT  
(SSER)

Plant Name: Arkansas Nuclear One, Unit 2  
Docket No.: 50-368  
Licensing Status: OR  
TAC No.: 48358  
Responsible Branch: ORB #3  
Project Manager: C. Trammell  
Review Branch: ICSB  
Review Status: Complete

In response to TAC No. 48358, we are providing a Supplementary Safety Evaluation Report (SSER) of the licensee's April 16, 1982 response to IE Bulletin 80-06 concerning their re-evaluation of the Engineered Safety Features (ESF) Reset Controls for Arkansas Nuclear One, Unit 2, Docket No. 50-368.

Our previous SER on this matter, dated June 3, 1981, concluded that the licensee complied with IEB 80-06. However subsequent I&E inspection found that certain licensee activities were not conducted in full compliance with NRC requirements and other activities appeared to deviate from written commitments to the Commission. Refer to Region IV letters to AP&L dated April 9 and April 16, 1982 for details.

With this SSER, we conclude that the ESF reset controls for ANO-2 complies with NRC criteria, subject to satisfactory completion of the licensee's commitments noted herein.

Original Signed By  
Themis P. Speis

Themis P. Speis, Assistant Director  
for Reactor Safety  
Division of Systems Integration

Safety Evaluation Report

cc: See attached list

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SUPPLEMENTAL SAFETY EVALUATION REPORT

ARKANSAS NUCLEAR ONE - UNIT 2

LICENSE RESPONSE TO I&E BULLETIN 80-06

ENGINEERED SAFETY FEATURES (ESF) RESET CONTROLS

DESIGNATED ORIGINAL

Certified By

*Cheryl Thompson*

BACKGROUND:

In the Safety Evaluation Report on this matter, dated June 3, 1981, we concluded that the licensee satisfied the concerns and requirements of I&E Bulletin 80-06 for ANO-2, subject to completion of modifications to control circuits of eighteen valves found to change position upon ESF actuation system (ESFAS) reset, and subsequent testing. This conclusion was based on information and documents provided by the licensee, and on our contractor's report (EGG 1183-4200), included with the SER.

Subsequent I&E inspection found that the licensee had not performed the verification test required by item 2 of IEB 80-06 and that modifications to the two containment sump isolation valves were not implemented as stated by the licensee in letters of June 18, 1980 and January 26, 1981 to the NRC. However, the NRC inspection confirmed that the other sixteen valve control circuits were satisfactorily modified and tested as noted in Region IV letters to AP&L dated April 9 and April 16, 1982.

EVALUATION:

The licensee by letter dated April 16, 1982 provided a re-evaluation of their response to IEB 80-06 for ANO-2.

We have reviewed this response and find that:

- 1) The licensee has provided satisfactory justification for not modifying various safety related components which they concluded would not reduce the margin of safety if these components change state on reset. This

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includes the containment sump isolation valves which are maintained in the open (ESFAS) position at all times with key locked switches, and verified open each shift.

- 2) The licensee committed to modify thirteen additional components which could potentially change state on reset.
- 3) The licensee has committed to perform verification tests of all safety related components, test planned modifications, and modify and test any additional components, if needed as a result of these previous tests, by the next refueling outage.

CONCLUSION:

The licensee has satisfied the requirements and concerns of I&E Bulletin 80-06, subject to completion of the licensee's commitments to perform the modifications and testing identified in their April 16, 1982 response.

Therefore, we find the ESF reset controls for ANO-2 in compliance with NRC criteria.