



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

AUG 30 1982

MEMORANDUM FOR: Harold R. Denton, Director  
Office of Nuclear Reactor Regulation

FROM: Carlyle Michelson, Director  
Office for Analysis and Evaluation  
of Operational Data

SUBJECT: CASE STUDY OF THE ABNORMAL TRANSIENT OPERATING GUIDELINES  
(ATOG) AS APPLIED TO THE APRIL 1981 OVERFILL EVENT AT  
ARKANSAS NUCLEAR ONE, UNIT 1

On April 8, 1981, while operating at about 100% power, Arkansas Nuclear One, Unit 1 experienced a moderate steam generator overfill transient, but water did not enter the main steam line. Enclosed for your information and appropriate action is the AEOD case study of the event. The report contains a detailed description of what occurred along with our findings, conclusions, and recommendations.

The report recommendations concern:

- a) resolution of USI A-47 (Safety Implications of Control Systems), and
- b) control room human factors analysis given the short time margins for operator actions.

This office would like to be kept informed as to how the case study recommendations are being addressed and/or will be addressed by future actions.

Carlyle Michelson, Director  
Office for Analysis and Evaluation  
of Operational Data

Enclosure:  
As Stated

cc w/enclosure:

RCHaynes, RI	RMattson	SMiner	TMurley	WJohnson
JPO'Reilly, RII	JShea	ADeAgazio	JTaylor	HFaulkner
JGKeppler, RIII	EJordan	PWagner	WMills	WCottrell, NSIC
JTCollins, RIV	SHanauer	MPadovan	VThomas	RDeYoung
RHEngelken, RV	HThompson	RJacobs	RBernero	RMinogue
VStello	JClifford	Tippolito	ASukiewicz	IE Training Center
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