

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8812130032 DOC. DATE: 88/12/09 NOTARIZED: NO DOCKET #  
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315  
 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
 AUTH. NAME AUTHOR AFFILIATION  
 ALEXICH, M.P. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 RECIP. NAME RECIPIENT AFFILIATION  
 DAVIS, A.B. Document Control Branch (Document Control Desk)

SUBJECT: Provides plan of action for resolving concerns associated w/  
 Copes-Vulcan valves installed at plant.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4+3  
 TITLE: OR Submittal: General Distribution

### NOTES:

RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
PD3-1 LA	1 0	PD3-1 PD	2 2
SCOTT, W	1 1		
INTERNAL: ARM/DAF/LFMB	1 0	NRR/DEST/ADS 7E	1 1
NRR/DEST/CEB 8H	1 1	NRR/DEST/ESB 8D	1 1
NRR/DEST/MTB 9H	1 1	NRR/DEST/RSB 8E	1 1
NRR/DOEA/TSB 11	1 1	NRR/PMAS/ILRB12	1 1
NUDOGS-ABSTRACT	1 1	OGC/HDS1	1 0
<u>REG. FILE</u> 01	1 1	RES/DSIR/EIB	1 1
EXTERNAL: LPDR	1 1	NRC PDR	1 1
NSIC	1 1		

### NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,  
 ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION  
 LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTR 19 ENCL 16

*m/A-4*  
*[Signature]*

R  
I  
D  
S  
/  
A  
D  
D  
S  
  
R  
I  
D  
S  
/  
A  
D  
D  
S



AEP:NRC:1084

Donald C. Cook Nuclear Plant Units 1 and 2  
Docket Nos. 50-315 and 50-316  
License Nos. DPR-58 and DPR-74  
SCHEDULE AND PLAN OF ACTION FOR ADDRESSING  
COPESES-VULCAN VALVE CONCERNS

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Attn. A. B. Davis

December 9, 1988

Dear Mr. Davis:

As requested by your staff, this letter provides our plan of action for resolving concerns associated with Copes-Vulcan valves installed at the Donald C. Cook Nuclear Plant. The problem involves inaccurate or missing design input information, specifically, the weight and location of the center of gravity of the valve, for valves supplied by the Copes-Vulcan Company. Also included in this letter is a description of the actions that we have already taken.

Completed Actions

The following describes actions that have been completed in evaluating the Copes-Vulcan valve concerns:

1. We have identified air-operated Copes-Vulcan valves installed in safety-related systems at the Cook Nuclear Plant. Of the identified valves, preliminary estimates indicate that a total of sixty-six valves at the Cook Nuclear Plant fit the category of being 3/4-inch, 1-inch, or 2-inch valves with a pressure rating of 600 psi or 1500 psi.
2. We have contacted Mr. Tim Kunkle, the engineering manager of Copes-Vulcan, regarding the inaccurate design information. During our discussion with Mr. Kunkle, we were given the valve weights and centers of gravity for the 1-inch/600 psi, 1-inch/1500 psi, and 3/4-inch/1500 psi (nominal diameter/ANSI pressure rating) valves.

8812130032 881209  
PDR ADOCK 05000315  
PDC

*File*



3. We reviewed photographs of valves and determined that some of the valves have a U-bolt support at the interface between the valve body and the actuator that may compensate for or reduce the effect of the higher center of gravity.
4. We have requested verification of weights and centers of gravity for Copes-Vulcan valves of sizes and pressure classes other than those listed in Item 2, which are also installed in safety-related systems.

Ongoing or Planned Actions

The following describes our plan of action associated with the Copes-Vulcan valve concerns.

1. The licensing design basis (FSAR, response to IE Bulletin 79-14, etc.) for small-bore piping will be reviewed.
2. Field walkdowns of the accessible applicable valves are in progress.
3. Confirmation of design information for the applicable valves will be obtained from Copes-Vulcan.
4. We have developed an interim acceptance criteria for evaluating these valves. These interim acceptance criteria are included as an attachment to this letter. An evaluation of the as-built piping systems will be conducted and compared to the design basis as defined in the FSAR. Piping systems exceeding the FSAR allowables will be reviewed against the interim acceptance criteria.
5. If the stresses fall within the bounds of the interim acceptance criteria, corrective actions will be implemented during the next refueling outage for each unit, and immediate action will not be necessary. If the stresses fall outside the interim acceptance criteria, safety reviews will be conducted within the time frame dictated by the Technical Specifications. Once all corrective actions are completed, the piping systems will fall within the bounds of our design basis.

Schedule:

To address the Copes-Vulcan valve concerns, we have initiated a problem report that requires, by January 3, 1989, an investigation of the problem, a determination of root cause, the extent of the deficiencies, and preventive action to preclude recurrence. Corrective action schedules called for in our problem report investigation will be consistent with Item 5.



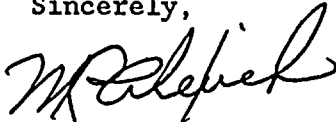
Mr. A. B. Davis

-3-

AEP:NRC:1084

This document has been prepared following Corporate procedures that incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Sincerely,



M. P. Alexich  
Vice President

MPA/eh

Attachment

cc: D. H. Williams, Jr.  
W. G. Smith, Jr. - Bridgman  
R. C. Callen  
G. Charnoff  
G. Bruchmann  
NRC Resident Inspector - Bridgman

ATTACHMENT TO AEP:NRC:1084

INTERIM ACCEPTANCE CRITERIA