

January 25, 1985

MEMORANDUM FOR: J. M. Taylor, Director
Office of Inspection and Enforcement

FROM: C. J. Heltemes, Jr., Director
Office for Analysis and Evaluation
of Operational Data

SUBJECT: FAILURE OF RHR SUPPRESSION POOL COOLING VALVE TO OPERATE

Enclosed is an Engineering Evaluation Report on the above subject recently completed by this office. Our review indicates that failure of an anti-rotation device is not unique to the valves manufactured by Anchor Darling because valves of other manufacturers also have experienced similar failures. Since the generic implication of the problem and the corrective actions for anti-rotation devices addressed in IE Information Notice 83-70 appear specific to valves manufactured by Anchor Darling, there is the potential that licensees may restrict review of anti-rotation devices to only those valves. We, therefore, suggest that issuance of a supplement to the IE Notice should be considered to include valves other than Anchor Darling.

Original Signed by
C. J. Heltemes, Jr.

C. J. Heltemes, Jr., Director
Office for Analysis and Evaluation
of Operational Data

Enclosure:
As Stated

bcc: PDR ✓
AEOD CF
ROAB CF
CHsu
MChiramal
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RD-8-3, ECCS

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DATE	1/11/85	1/15/85	1/15/85	1/16/85	1/14/85		

January 25, 1985

MEMORANDUM FOR: Karl V. Seyfrit, Chief
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

AEOD/E502

THRU: Matthew Chiramal, Chief
Engineering Section
Reactor Operations Analysis Branch

FROM: Chuck Hsu, Engineer
Engineering Section
Reactor Operations Analysis Branch

SUBJECT: FAILURE OF RHR SUPPRESSION POOL COOLING VALVE TO OPERATE

The enclosed Engineering Evaluation Report is forwarded for your information and further consideration. This review indicates that the failure of the subject valve was due to a loosened setscrew on the anti-rotation device of the valve. The cause of setscrew loosening could be attributed to inadequate design consideration of system vibration. The generic implication of the setscrew loosening and the corrective actions addressed in an IE Information Notice, a 10 CFR 21 report and industry reports appeared to be just for Anchor Darling valves. However, this review has identified valves of other manufacturers which also have experienced similar problems. This indicates that the failures of the anti-rotation device were not unique to the valves manufactured by Anchor Darling. The problem may be generic to industry and we suggest that the concern is worthy of IE consideration for updating the Information Notice to include valves of other suppliers.

/s/

Chuck Hsu, Engineer
Engineering Section
Reactor Operations Analysis Branch

Enclosure:
As Stated

cc: P. Farron, IE

bcc: PDR ✓
AEOD CF
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