

# Anchor/Darling

Valve Company

701 FIRST STREET  
P.O. BOX 3428  
WILLIAMSPORT, PA 17701-0428  
(717) 327-4800  
TELEX: 759953

January 26, 1990

Director - Office of Inspection & Enforcement  
US Nuclear Regulatory Commission  
Washington, DC 20555

Subject: 10 CFR 21 Reportable Incident

Gentlemen:

A problem relating to Feedwater Isolation Valve actuators that we furnished to Kansas Gas and Electric, Wolf Creek has been identified by Wolf Creek personnel.

Backup rings furnished in spare parts seal kits and possibly in the 25 GPM four-way valves which are part of the actuators are of incorrect material. The backup rings should be Viton and have been identified by Wolf Creek as Buna N.

All customers that have actuators with Teledyne - Republic four-way valves will be notified of this problem. The following plant sites have equipment that may have wrong backup ring material furnished.

Commonwealth Edison  
Byron Units 1 and 2  
Braidwood Units 1 and 2

Union Electric  
Calloway

Kansas Gas and Electric  
Wolf Creek

Washington Public Power Supply  
Unit 1  
Unit 3

South Carolina Electric and Gas  
VC Summer

Louisiana Power and Light  
Waterford 3

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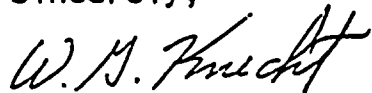


January 26, 1990  
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Arizona Public Services  
Palo Verde Units 1,2, and 3

Should you require additional information, please contact Mr. F. A. Bensinger or the writer.

Sincerely,



W. G. Knecht

WGK/jf

cc: A. E. Caron  
F. A. Bensinger  
J. J. Chappell  
R. W. Dommers  
G. W. Knieser  
H. R. Patterson  
F. Velez

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January 30, 1990

FLORIDA POWER & LIGHT COMPANY  
P.O. Box 1200  
Jensen Beach, FL 34958

Attention: Ed Priest

Subject: MSIV/FWIV Actuator Hydraulic  
4-Way Valves/Rebuild Kits

Reference: P.O. No. NY-422702  
St. Lucie Nuclear Plant - Unit 2  
A/DV S.O. E-9328

Gentlemen:

The Wolf Creek site has determined that some of the subject rebuild kits supplied by Anchor/Darling Valve Company contain backup rings of incorrect material, Buna N not Viton. Subsequent checks at A/DV have also found some of the subject rebuild kits at A/DV to contain backup rings of incorrect material. Use of the incorrect material in the hydraulic system could cause operational problems with the actuators and that could adversely affect the safety related function of the MSIV's/FWIV's.

This problem has been reported to the NRC by A/DV.

Because of the finding, the 4-Way valves and 4-Way valve rebuild kits supplied by A/DV may contain non-viton O-rings and backup rings. These O-ring and backup ring materials should be verified as Viton. If they are not Viton, they should be replaced with Viton.

We recommend that a specific gravity (S.G.) test be used for verification testing. Black Viton O-rings/Backup rings (S.G.  $1.85 \pm .03$ ) should sink in a 1.75 S.G. saline fluid but float in a 1.95 S.G. saline fluid. Brown Viton O-rings/Backup rings (S.G.  $2.14 \pm .03$ ) should sink in a 1.95 S.G. saline fluid but float in a 2.22 S.G. saline fluid. Buna N O-rings/Backup rings should float in 1.75 or higher S.G. saline fluid. At the conclusion of the specific gravity test, the saline solution should be rinsed from the seals and the seals dried.

Continued . . . .

A/DV has supplied 4-Way valves under the following identification numbers:

MSIV 4-Way Valves (75 gpm Valves)  
Teledyne-Republic Model #23304-7001-2853 / A/DV W19595

FWIV 4-Way Valves (25 gpm Valves)  
Teledyne-Republic Model #23104-7001-2853 / A/DV W19488

A/DV has supplied 4-Way valve rebuild kits under the following identification numbers:

MSIV 4-Way Valve (75 gpm Valves) Rebuild Kits - Teledyne Republic #02090-2330-2802  
A/DV Nos.: W30565  
W31357  
W31443  
W32411  
W33088

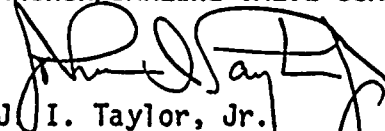
FWIV 4-Way Valve (25 gpm Valves) Rebuild Kits - Teledyne Republic #02090-2310-2802  
A/DV Nos.: W30572  
W30655  
W31184  
W31349  
W32413  
W32443  
W32560  
W32941

In response to EPRI NP-5652, A/DV has implemented a dedication program within the last year. A/DV's dedication program includes the above mentioned specific gravity test of Viton O-rings and backup rings. As a result, the possibility of A/DV supplying incorrect material for seals for safety related components is minimized. The rebuild kits containing the incorrect backup ring material were not previously processed through A/DV's dedication program.

Should you require additional information on the above, please contact F. A. Bensinger at (717) 327-4866 or W. G. Knecht at (717) 327-4811.

Sincerely,

ANCHOR/DARLING VALVE COMPANY

  
J. I. Taylor, Jr.  
Contract Administrator

/eu

cc: F. A. Bensinger      G. R. Parks  
W. G. Knecht          F. Velez  
H. L. Patterson      S.O. No. E-9328

# Anchor/Darling

Valve Company

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TELEX: 759953

January 31, 1990

GEORGIA POWER COMPANY  
Plant Alvin W. Vogtle  
P.O. Box 282  
Waynesboro, GA 30830

Attention: Randy Chitwood

Subject: MSIV/FWIV Actuator Hydraulic  
4-Way Valves/Rebuild Kits

Reference: P.O. No. PAV2-84  
Plant Alvin W. Vogtle  
A/DV S.O. E-9000

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GEORGIA POWER COMPANY  
Attention: Randy Chitwood

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Sincerely,

ANCHOR/DARLING VALVE COMPANY



Roberta L. Bergman  
Contract Administrator

/eu

cc: F. A. Bensinger      G. R. Parks  
W. G. Knecht            F. Velez  
H. L. Patterson        S.O. No. E-9000

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January 30, 1990

NORTHEAST UTILITIES NUCLEAR ENERGY COMPANY  
Purchasing Department  
P.O. Box 1928  
Hartford, CT 06144-1928

Attention: Manager of Purchasing

Subject: MSIV/FWIV Actuator Hydraulic  
4-Way Valves/Rebuild Kits

Reference: P.O. No. 2362.850-476-13  
Millstone Nuclear Power Station, Unit 3  
A/DV S.O. E-9450

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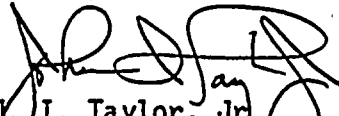
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J. I. Taylor, Jr.  
Contract Administrator

/eu

cc: F. A. Bensinger      F. R. Carraro  
W. G. Knecht          F. Velez  
H. L. Patterson      S.O. E-9450

