

**Industrial Valve Operation**

Dresser Industries, Inc.

P.O. Box 1430 • Alexandria, Louisiana 71309-1430

QUALITY SYSTEMS DEPARTMENT

PHONE: 318/640-6112

FAX: 318/640-6325

May 8, 1990

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

Attention: Bob Pettis

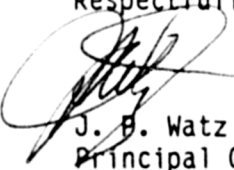
Subject: 10CFR Part 21 Notification  
Dresser's 3700 MSSV Adjusting Ring Positions

Dear Mr. Pettis:

Enclosed is a list of utilities and the notification sent to those utilities that use Dresser's 3700 Main Steam Safety Valves.

If you need further information, call me at 318-640-6112.

Respectfully,

  
J. B. Watz  
Principal Quality Assurance Engineer

JPW:mm

Attachments

cc: B. G. Brunson, Quality Systems Manager  
Y. S. Lai, Director of Engineering  
10CFR Part 21 File 89-03JE19  
11

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QUALITY SYSTEMS DEPARTMENT

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The below subject letter was mailed on May 08, 1991 to the attached list of names and addresses.

Subject: 10CFR Part 21 Notification  
Dresser Model 3700 Main Steam Safety Valve  
Adjusting Ring Positions

Gentlemen:

This notification is to inform you of the concern that Arizona Public Service brought to Dresser's attention in 1990, relative to the positions of the adjusting rings in the Dresser Model 3700 Main Steam Safety Valves on their Palo Verde Generating Station. Dresser is providing this notification to you with a recommendation to review your procedures and invoke independent verification of adjusting ring positions to ensure ring positions are correct.

Adjusting ring positions are critical to enable the safety valve to perform its safety function. That is, the safety valve must open to full lift during an over pressure transient. Improper ring positions may result in the safety valve not obtaining full lift. Thus, the safety valve may not flow its rated capacity and the over pressure may be compromised. Because of field problems experienced during 1990, including the Arizona Public Service concerns, Dresser's concerns and recommendations are listed on the following pages.

-Continued-

- 1) Independent verification of ring positions is not being performed.

Example:

Person #1 makes an adjustment. The adjustment is not verified.

Events that occurred in 1990 indicate that:

- (1) Adjusting rings have been turned in the wrong direction and/or
- (2) The adjustment was miscounted relative to the number of notches required for adjustment.

Dresser recommends that the user review procedures and invoke independent verification of ring positions to ensure ring positions are correct.

- 2) "As found" ring positions are being used for repositioning rings.

The practice of returning adjusting rings to "as found" positions during safety valve refurbishment is not recommended because of the cumulative error. Adjusting rings should be re-positioned to recommended or required positions after each refurbishment.

- 3) Ring positions for proper blowdown are not being used.

Instructions regarding ring position adjustments found in all previously published editions and revisions to Dresser's 3700 Installation and Maintenance Manual are hereby superceded and the end user should contact Dresser regarding ring positions.

Dresser has developed gauges for positioning the adjusting ring after the valve is assembled. Previously, instructions required the adjusting rings to be positioned during assembly. See sketch attached.

Recommended ring positions for 3-9% blowdown are provided in the table shown on page 3 of this letter. If 5% blowdown or less is required, the adjusting rings must be adjusted during full flow tests.

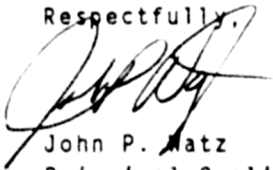
-Continued-

<u>Valve Model</u>	<u>Lower Adjusting Ring Position</u>	<u>Upper Adjusting Ring Position</u>	<u>Spacing Between Adjusting Rings</u>
3717	-2	+44	46
3737	-3	+82	85
3747	-4	+94	98
3740	-4	+94	98
3767	-5	+112	117
3777Q	-8	+160	168
3787	-8	+160	168
3707R	-8	+160	168
3707T	-8	+160	168

The table is in notches above (toward top end of valve) or below the seating surface of the nozzle (toward the valve inlet face). Above the seat is positive and below the seat is negative. Gauges use the bottom of the disc holder to set the spacing between rings per the above chart. For example, the gauge for the 3707R safety valves set the spacing at 168 notches. The gauge method provides the same nominal position to the nozzle seat. The gauge method has been confirmed by tests.

If you should need additional information, contact Dressers' Field Service Department, Terry Barnes, Nuclear Product Field Specialist (318-640-6057); or Mike Rydosz, Manager Field Service and Repair (318-640-6046).

Respectfully,



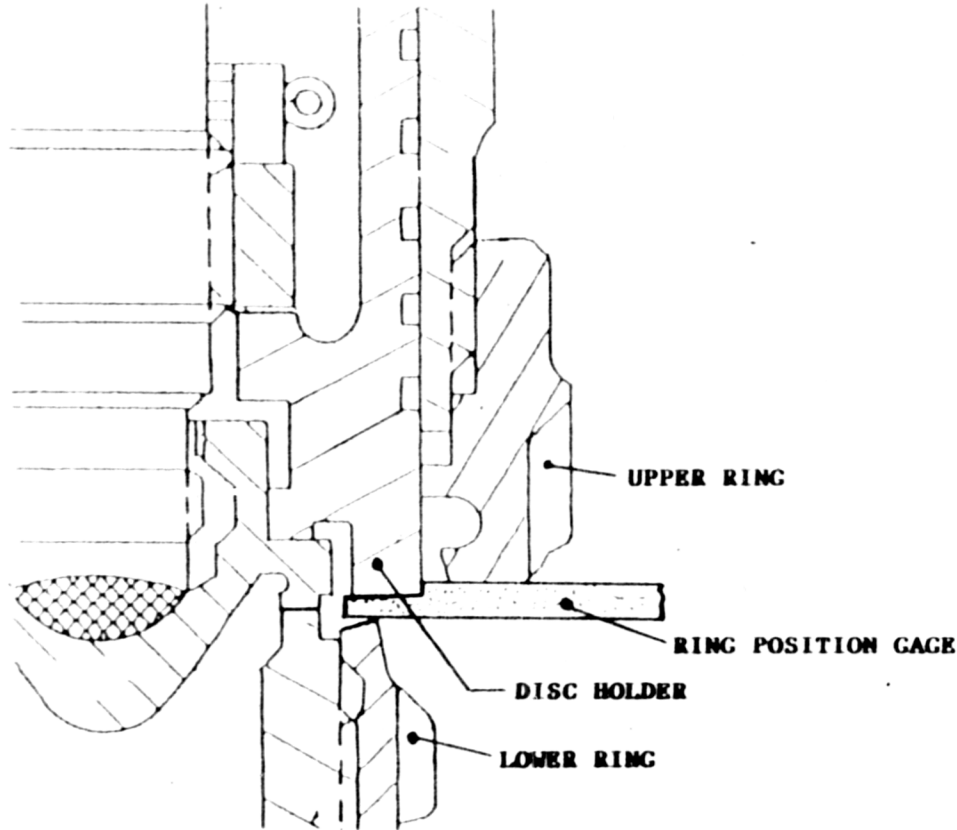
John P. Matz  
Principal Quality Assurance Engineer

JPW:mm

Attachment:

cc: Dresser 10CFR Part 21 File 89-03  
Nuclear Regulatory Commission  
M. N. Rydosz  
T. W. Barnes  
B. G. Brunson  
Y. S. Lai  
R. S. Huffman

OPER. NO.	OPERATION	INITIAL AND DATE		
		DRESSER FSE	ANI	UTILITY REP



1. LOOKING INTO THE VALVE OUTLET, PLACE THE GAGE UP AGAINST THE BOTTOM OF THE DISC HOLDER AS SHOWN. TURN RINGS TO PROVIDE CLEARANCE, IF NECESSARY.
2. WHILE HOLDING THE GAGE IN POSITION, TURN THE UPPER RING DOWNWARD UNTIL IT CONTACTS THE GAGE AND RAISE THE LOWER RING UNTIL IT CONTACTS THE GAGE. REMOVE THE GAGE.
3. RE-INSERT GAGE. THE GAGE SHOULD SLIP-IN EASILY. IF NECESSARY, REPEAT ADJUSTMENT.

75 WIRE AND SEAL RING PINS.

76 REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**ENGINEERING INSTRUCTIONS**

Industrial Valves

DRESSER

## Industrial Valve Operation

Dresser Industries, Inc.

P.O. Box 1430 • Alexandria, Louisiana 71309-1430

QUALITY SYSTEMS DEPARTMENT

PHONE: 318/640-6112

FAX: 318/640-6325

MAIL MERGE LIST OF  
UTILITY/NUCLEAR POWER PLANTS  
FOR 10 CFR PART 21 NOTIFICATIONS

October 12, 1990

Alabama Power Co.  
Joseph M. Farley 1 & 2  
600 N. 18th Street  
Box 2641 Birmingham, Alabama 35291  
Attn: Gen Mgr: D. N. Morey

Arizona Nuclear Power Project  
(Arizona Public Service Co.)  
Palo Verde 1, 2, & 3  
400 N. Fifth Street  
Phoenix, Arizona 85004  
Attn: Plant Mgr: J. G. Haynes

Arkansas Power & Light Co.  
Arkansas Nuclear One (1)  
Rt. 3 Box 137 G.  
Russelville, AR 72801  
Attn: Exec Dir, ANO: J. Levine

Baltimore Gas & Electric  
Calvert Cliffs 1 & 2  
Maryland Route 2-4  
Lusby MD 20657  
Attn: Mgr. Nuclear Mnt: L. B. Russel

Boston Edison Co.  
Pilgrim 1  
600 Rocky Hill Road  
Plymouth, Ma 02360  
Attn: Plant Dir: K. L. Highfill

Carolina Power & Light Co.  
Brunswick 1 & 2  
P. O. Box 10429  
Southport, NC 28461-0429  
Attn: Mgr: R. B. Starkey

Commonwealth Edison  
Braidwood 1 & 2  
RR #1  
P. O. Box 84  
Bracefield, IL 60407  
Attn: Plant Mgr: R. E. Querio

-Continued-

MAIL MERGE LIST OF  
UTILITY/NUCLEAR POWER PLANTS  
FOR 10 CFR PART 21 NOTIFICATIONS

Commonwealth Edison  
Byron 1 & 2  
4450 Geerman Church  
Byron, IL 61010  
Attn: Plant Mgr: R. Pleniewicz

Commonwealth Edison  
Dresden 1, 2, & 3  
RR #1  
Morris, IL 60450  
Attn: Plant Mgr: E. D. Eenigenburg

Commonwealth Edison Co.  
Quad Cities 1 & 2  
22710 206 Ave N.  
P. O. Box 216  
Cordova, ILL 61242-9740  
Attn: Plant Mgr: R. L. Bax

Consumer Power Co.  
Pallsades  
27780 Blue Star Memorial Hwy  
Covert, MI 49043  
Attn: Plant Mgr: G. B. Slade

Detroit Edison  
Fermi 2  
6400 N. Dixie Hwy  
Newport, MI 48166  
Attn: Plant Mgr: D. R. Gipson

Duke Power Co.  
Catawba 1 & 2  
P. O. Box 256  
Clover, SC 29710  
Attn: Sta. Mgr: M. S. Tuckman

Duke Power Co.  
OConee 1, 2, & 3  
P. O. 1439  
Seneca, SC 29679  
Attn: Sta Mgr: M. S. Tuckman

Duquensne Light Co.  
Beaver Valley 1  
P. O. Box 4  
Shippensburg, PA 15077  
Attn: Gen Mgr. Plant Mgr: T. P. Noonan

MAIL MERGE LIST OF  
UTILITY/NUCLEAR POWER PLANTS  
FOR 10 CFR PART 21 NOTIFICATIONS

Florida Power Corp.  
Crystal River 3 ✓  
Drawer 1240  
Crystal River FL 32629  
Attn: Plant Dir: P. F. McKee Jr.

Florida Power & Light  
Turkey Point 3 & 4  
P. O. Box 4332  
Princeton, FL 33032-4332  
Attn: Plant Mgr: C. J. Baker

GPU Nuclear Corp.  
TMI Nuclear  
P. O. Box 480  
Route 441 South  
Middletown, PA 17057  
Attn: Ron Harbin

Georgia Power Co.  
Edwin Hatch 1 ✓  
Rt. 1 Box 439  
Baxley, GA 31513  
Attn: Gen Mgr: H. C. Nix

GPU Nuclear Corp.  
Oyster Creek 1  
(Jersey Central Power & Light)  
Madison Avenu @ Punch Bowl Road  
Morristown NJ 07960

Houston Lighting & Power  
South Texas Project 1 & 2  
P. O. Box 1700  
Houston, TX 77001  
Attn: Plant Mgr. W. Kinsey

Illinois Power Co.  
Clinton 1  
P. O. Box 228  
Clinton, IL 61727

Indiana & Michigan Light Co.  
Donald C. Cook 1 & 2 ✓  
1 Cook Pl.  
Bridgmen, Michigan 49106  
Attn: Plant Mgr: W. G. Smith, Jr.



MAIL MERGE LIST OF  
UTILITY/NUCLEAR POWER PLANTS  
FOR 10 CFR PART 21 NOTIFICATIONS

Iowa Electric Light & Pwr. Co.  
Duane Arnold Energy Center  
3277 DAEC Rd  
Palo, IA 52324  
Attn: Plant Superintendent. R. Hannen

Long Island Lighting Co.  
Shoreham Nuclear Station  
175 E. Old Country Rd.  
Hicksville, NY 11801  
Attn: Plant Mgr: W. E. Steiger

Louisiana Power & Light Co.  
Waterford 3  
SE Gen Sta  
P. O. Box B Hwy B  
Killona, La 70066  
Attn: Plant Mgr: J. R. McGaha

Maine Yankee Atomic Power Co.  
Maine Yankee  
P. O. Box 408  
Wiscasset, ME 04578  
Attn: Plant Mgr: E. Thomas Boulette

Nebraska Public Power District  
Coopr Nuclear Station  
P. O. Box 98  
Brownville, NE 68321  
Attn: Div Mgr. Nuc Operator G. R. Horn

Niagara Mohawk Powr Corp.  
Nine Mile Point 1  
300 Erie Blvd. W.  
Syracuse, NY 13202  
Attn: Plant Super: K. Dahlberg

Niagara Mohawk Power Corp.  
Nine Mile Point 2  
300 Erie Blvd. W.  
Syracuse, NY 13202

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MAIL MERGE LIST OF  
UTILITY/NUCLEAR POWER PLANTS  
FOR 10 CFR PART 21 NOTIFICATIONS

Northeast Utilities M  
Millstone 1, 2, & 3  
P. O. Box 128  
Waterford, CT 06385  
Attn: Sta Super: S. E. Scace

Northern States Power Co.  
Monticello  
412 Nicollet Mall  
Minneapolis, MN 55401  
Attn: Plant Mgr: W. A. Shamia

Northern States Power Co.  
Prairie Island 1 & 2  
412 Nicollet Mall  
Minneapolis, MN 55401  
Attn: Plant Mgr: E. L. Watzl

Omaha Public Power District  
Fort Calhoun 1  
P. O. Box 399  
Fort Calhoun, NE 68023  
Attn: Plant Mgr: W. G. Gates

Pacific Gas & Electric Co.  
Diablo Canyon 1 & 2  
P. O. Box 56  
Avila Beach, CA 93424  
Attn: Plant Mgr. J. D. Townsend

PSE&G Nuclear Department  
Mail Code N-14  
P. O. Box 236  
Hancocks Bridge, NJ 08030  
Attn: QA Manager - David A. Perkins

Philadelphia Electric Co.  
Peach Bottom 2 & 3  
RD#1 Box 208  
Delta PA 17314  
Attn: Plant UP: D. M. Smith

Public Service Company of Colorado  
Fort St. Vrain  
16805 Weld County Road 19-1/2  
Platteville, CO 80651  
Attn: Sta Mgr: C. Fuller

MAIL MERGE LIST OF  
UTILITY/NUCLEAR POWER PLANTS  
FOR 10 CFR PART 21 NOTIFICATIONS

Sacramento Municipal  
Utility District (Smud) ✓  
Rancho Seco Nuclear  
6201 S. Street Box 15830  
Sacramento, CA 95813  
Attn: Chief Exec Officer: J. F. Firlit

South Carolina Electric & Gas Co.  
Virgil C. Summer 1  
1426 Main Street ✓  
Columbia SC 29218  
Attn: Plant Mgr: J. L. Skolds

Southern California Edison Co.  
San Onofre Nuclear Generating Station ✓  
P. O. Box 128  
San Clemente, CA 92674-0128  
Attn: Manager of Nuclear Oversight: Mr. Brian Katz

Tennessee Valley Authority  
Watts Bar 1 & 2 ✓  
400 W. Summit Hill Drive  
Knoxville, TN 37902  
Attn: Plant Sup: J. L. McJunkin

Toledo Edison Co.  
Davis Besse 1 ✓  
5501 N. State Rte 2  
Oak Harbor OH 43449  
Attn: Plant Mgr. L. F. Storz

Vermont Yankee Nuclear Power  
Vermont Yankee ✓  
Ferry RD RD5 Box 169  
Brattleboro, VT 05301  
Attn: Plant Mgr: J. P. Pelletier

Virginia Electric & Power  
Surry 1 & 2 ✓  
5000 Dominion Boulevard  
Glen Allen, Virginia 23060  
Attn: Mgr: R. F. Saunders(Nuclear Licensing & Programs)

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MAIL MERGE LIST OF  
UTILITY/NUCLEAR POWER PLANTS  
FOR 10 CFR PART 21 NOTIFICATIONS

Virginia Electric & Power  
North Anna 1 & 2  
5000 Dominion Boulevard  
Glen Allen, Virginia 23060  
Attn: Mgr: R. F. Saunders (Nuclear Licensing & Programs)

Washington Public Power Supply System (WPPSS)  
Nuclear Project 1 & 3  
3000 George Washington Way  
P. O. Box 968  
Richland, WA 99352

Wisconsin Public Service Co.  
Kewaunee  
Rt. 1 Box 48  
Dewaunee, WI 54216  
Attn: Mgr: C. R. Steinhardt

Yankee Atomic Electric Co.  
Yankee Atomic Plant  
P. O. Box 8000  
580 Main Street  
Bolton MA 01740-0000  
Attn: Plant Supt N. N. St. Laurent