

General Information or Other (PAR)

Event # 44836

<b>Rep Org:</b> FISHER CONTROLS INTERNATIONAL	<b>Notification Date / Time:</b> 02/06/2009 15:54 (EST)
<b>Supplier:</b> FISHER CONTROLS INTERNATIONAL	<b>Event Date / Time:</b> 02/06/2009 (CST)
	<b>Last Modification:</b> 02/06/2009
<b>Region:</b> 3	<b>Docket #:</b>
<b>City:</b> MARSHALLTOWN	<b>Agreement State:</b> Yes
<b>County:</b>	<b>License #:</b>
<b>State:</b> IA	
<b>NRC Notified by:</b> MATTHEW FARRELL	<b>Notifications:</b> MARK RING R3
<b>HQ Ops Officer:</b> VINCE KLCO	HAROLD GRAY R1
<b>Emergency Class:</b> NON EMERGENCY	STEVEN RUDISAIL R2
<b>10 CFR Section:</b>	JEFF CLARK R4
21.21 UNSPECIFIED PARAGRAPH	OMID TABATABAI-EMAIL NRO
	TOM HERRITY-EMAIL NRR

## PART 21 REPORT - DEFECTIVE ASME SA-193, GRADE 6 CAP SCREW MATERIAL

The following information was obtained from Fisher Controls International via facsimile:

Fisher Information Notice (FIN 2009-01, dated February 2, 2009) was issued to notify customers of an issue reported to Fisher by Duke Energy.

"[Fisher has] informed [their] customers of record of this circumstance in accordance with 21.21 (b) of 10CFR21 because Fisher Controls International LLC, is not aware of each and every application or system design and cannot determine whether an anomaly could cause a defect or "failure to comply," relating to a substantial safety hazard. In particular, this Information Notice deals with customer orders that used improperly heat treated cap screws provided by Texas Bolt Company (Texas Bolt Order 204653, Certified by Texas Bolt Company, April 20, 1987). Receipt of this notice does not necessarily mean that the recipient has been shipped any of the subject equipment. It is expected that the recipients of this notice will review the information for applicability to their facilities, and if required, take the appropriate action as described in the section at the end of this notice.

"This notice applies only to customer orders processed by Posi-Seal International that used the 100 quantity lot of hex head cap screws identified by Texas Bolt Company Material Certification Report Number 001.87-1758, certified by Texas Bolt Company, April 20, 1987.

"Fisher was informed by Duke Energy that there have been failures of ASME SA-193 Grade B6 hex head cap screws at the Catawba Nuclear Station. These bolts are used on various size Posi-Seal butterfly valves to maintain a pressure seal on the outboard side of the valve body. Failure of these bolts will impair the pressure

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retaining capability of the valve body.

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"Based on the experiences at Duke Energy, it is possible that a defective batch of cap screws were used by Posi-Seal around 1987. Fisher Controls International has attempted to determine a complete list of valve serial numbers that may have used bolts from this particular lot. Unfortunately, Fisher Controls International's review of available Posi-Seal records cannot provide validation of its completeness.

"It is recommended that customers verify if the QA documentation package, provided with the valve, contains a copy of the cap screw material certification attached to this information notice. If so, Fisher Controls International recommends that the subject cap screws be replaced.

"Fisher Controls requests that the recipient of this notice review it and take appropriate action in accordance with 10CFR21.

"If there are any technical questions or concerns, contact:

Michael Wedemeyer  
Manager, Quality  
Fisher Controls International LLC  
205 South Center Street  
Marshalltown, IA 50158  
Fax: (641) 754-2854  
Phone: (641) 754-2066  
Michael.Wedemeyer@.Emerson.com"

Possible domestic constructions with defective cap screw material (Posi-Seal part number 131550, drawing number 5200-001) include McGuire, Catawba and Indian Point.

\*\*\*\*\*



## Facsimile

301 South First Avet  
Marshalltown, IA 50158

T 641-754-2688  
F 641-754-2645

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To: NRC Operations Center

Fax: 301-816-5151

Dave A. Suk

From: Director, Quality Valves Worldwide

Date: January 27, 2009

Pages: 5  
(Incl cover)

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Attached is a copy of the Nuclear FIN Notice - FIN 2009-01 issued February 2, 2009 and released to customers on February 6, 2009 from Emerson Process Management - Fisher Controls International LLC.

For questions please contact – Matthew Farrell  
QA Manager  
Codes & Standards  
641-754-2381



Fisher Controls International LLC  
205 South Center Street  
P.O. Box 190  
Marshalltown, Iowa 50158-0190  
USA  
T (641) 754-3011  
F (641) 754-2830

**Fisher Information Notice: FIN 2009-01**

**February 2, 2009**

**Subject: Defective ASME SA-193, Grade 6 Cap Screw Material (Posi-Seal Part No. 131550, Drawing Number 5200-001)**

**From:**

Bill Fitzgerald  
Nuclear Business Unit Vice President  
Fisher Controls International LLC  
205 South Center Street  
Marshalltown, IA 50158  
Fax: (641) 754-2854

**Equipment Affected By This Information Notice:**

*ORDERS PROCESSED BY POSI-SEAL INTERNATIONAL THAT USED GASKET RETAINER HEX HEAD CAP SCREWS PROVIDED BY TEXAS BOLT COMPANY ORDER 204653 (POSI-SEAL PART NUMBER 131550, DRAWING NUMBER 5200-001)*

**Purpose:**

The purpose of this Fisher Information Notice (FIN) is to notify customers of an issue reported to us by Duke Energy.

We have informed our customers of record of this circumstance in accordance with 21.21 (b) of 10CFR21 because Fisher Controls International LLC, is not aware of each and every application or system design and cannot determine whether an anomaly could cause a defect or "failure to comply," relating to a substantial safety hazard. In particular, this Information Notice deals with customer orders that used improperly heat treated cap screws provided by Texas Bolt Company (Texas Bolt Order 204653, Certified by Texas Bolt Company, April 20, 1987).

Receipt of this notice does not necessarily mean that the recipient has been shipped any of the subject equipment. It is expected that the recipients of this notice will review the information for applicability to their facilities, and if required, take the appropriate action as described in the section at the end of this notice.

**Applicability:**

This notice applies only to customer orders processed by Posi-Seal International that used the 100 quantity lot of hex head cap screws identified by Texas Bolt Company Material Certification Report Number 001.87-1758, Certified by Texas Bolt Company, April 20, 1987 (copy attached).



## **Fisher Information Notice: FIN 2009-01**

### **Description of Possible Concern:**

Fisher was informed by Duke Energy that there have been failures of ASME SA-193 Grade B6 hex head cap screws at the Catawba Nuclear Station. These bolts are used on various size Posi-Seal butterfly valves to maintain a pressure seal on the outboard side of the valve body. Failure of these bolts will impair the pressure retaining capability of the valve body.

### **Discussion:**

Based on the experiences at Duke Energy, it is possible that a defective batch of cap screws were used by Posi-Seal around 1987. Fisher Controls International has attempted to determine a complete list of valve serial numbers that may have used bolts from this particular lot; and there is an attached list of valve serial numbers that might have used this material. Unfortunately, Fisher Controls International's review of available Posi-Seal records cannot provide validation of its completeness.

### **Action Required:**

- It is recommended that customers use the attached list of serial numbers and verify if the QA documentation package, provided with the valve, contains a copy of the cap screw material certification attached to this information notice. If so, Fisher Controls International recommends that the subject cap screws be replaced.

### **10CFR21 Implications:**

Fisher Controls requests that the recipient of this notice review it and take appropriate action in accordance with 10CFR21.

If there are any technical questions or concerns, please contact:

Michael Wedemeyer  
Manager, Quality  
Fisher Controls International LLC  
205 South Center Street  
Marshalltown, IA 50158  
Fax: (641) 754-2854  
Phone: (641) 754-2066  
[Michael.Wedemeyer@Emerson.com](mailto:Michael.Wedemeyer@Emerson.com)



**Fisher Information Notice: FIN 2009-01****Possible Constructions with POSI-SEAL PART NUMBER 131550, DRAWING NUMBER 5200-001**

Posi-Seal Dwg/Ref Number	Customer Order Number	Utility	Plant	Serial Number	Tag Number
40599-01	C-39951	Duke Energy	McGuire	40599-1A	02B-589
40599-01	C-39951	Duke Energy	McGuire	40599-1B	02B-569
40599-01	C-39951	Duke Energy	McGuire	40599-1C	02B-569
40599-01	C-39951	Duke Energy	McGuire	40599-1D	02B-569
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-1A	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3A	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3B	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3C	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3D	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3E	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3F	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3G	2B-570
40846-01	C-39951-13-22	Duke Energy	Catawba	40846-3H	2B-570
40846-08	C-39951-13-23	Duke Energy	Catawba	40846-8A	2B-572
40846-08	C-39951-13-23	Duke Energy	Catawba	40846-8B	2B-572
40846-08	C-39951-13-23	Duke Energy	Catawba	40846-8C	2B-572
42663-01	N61420-13	Duke Energy	Catawba	42663-1A	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1B	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1C	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1D	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1E	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1F	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1G	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1H	2B-573
42663-01	N61420-13	Duke Energy	Catawba	42663-1I	2B-573
42663-02	N61420-13	Duke Energy	Catawba	42663-2A	2B-574
42663-02	N61420-13	Duke Energy	Catawba	42663-2B	2B-574
42663-02	N61420-13	Duke Energy	Catawba	42663-2C	2B-574
42663-02	N61420-13	Duke Energy	Catawba	42663-2D	2B-574
42663-02	N61420-13	Duke Energy	Catawba	42663-2E	2B-574
41313-01	87-GF2-1308	Taiwan Power	Maanshan	41313-1	87-GF2-1308 PO Item No. 4
41313-04	87-GF2-1308	Taiwan Power	Maanshan	41313-4	87-GF2-1308 PO Item No. 8
41313-06	87-GF2-1308	Taiwan Power	Maanshan	41313-6	87-GF2-1308 PO Item No. 11
41313-13	87-GF2-1308	Taiwan Power	Maanshan	41313-13	87-GF2-1308 PO Item No. 22
44039-01	8693178	Entergy Nuclear Northeast	Indian Point	44039-1	8693178, 80043300, 186-3018

Fisher Information Notice: FIN 2009-01

TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

PHONE: 869-7111  
AREA CODE 713

3233 WEST 11th ST. • P.O. BOX 1211  
HOUSTON, TEXAS 77251-1211

CABLE: "TEXBOLT"

APRIL 20, 1987

POST-SEAL INTERNATIONAL, INC.  
ROUTES 49 & US 95  
NORTH STONINGTON, CT 06359

Gasket Retainer Bolts  
Mill Power Supply Co. PO# C39951-13-023  
Item 01

YOUR ORDER NO: 12208 (204653)

Item 7

Gentlemen:

We hereby certify that the Bolts, on your above order were produced, inspected, and/or tested in accordance with ASME SA193 GRADE B6, specifications. These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
"ALL MATERIAL IN ACCORDANCE WITH ASME SA614-83."  
"VISUAL INSPECTION PER SA614-83 PARA. RU." "ALL MATERIAL IN MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL, REV. 7, DATED 4-26-83." "MATERIAL IS IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDSND.""

QA APPROVED  
MATERIAL CONFORMS TO  
ASME SECT II & III DIV. 1  
1974 EDITION W74 ADD  
BY B. Huick DATE 2-20-87

Very truly yours,

*Blanca E. Benavides*  
Blanca E. Benavides  
Level III Inspector

EJC/es

State of Texas  
County of Harris

Subscribed and sworn to before me this 20TH day of  
APRIL 1987

ANI  
DATE 4/20/87

POST-SEAL  
Q.A. APPVD.  
BY BPW  
DATE 4-20-87

*Blanca E. Benavides*  
Blanca E. Benavides  
Notary public in and for Harris County, Texas.  
My commission expires May 31, 1989

ALL AGREEMENTS CONTINGENT UPON STRIKES, ACCIDENTS AND OTHER DELAYS UNAVOIDABLE OR BEYOND OUR CONTROL





FOR: POSI-SEAL INTERNATIONAL, INC.  
 CUSTOMER P.O. No. 12208  
 TEXAS BOLT ORDER No. 204653  
4/20/87 ES

# TEXAS BOLT COMPANY

P. O. BOX 1211  
 HOUSTON, TEXAS 77251-1211

REPORT No. 001-82-1758

SPECIFICATIONS: ASME SA193 GRADE B6

## REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	Description	Material	Quantity	No. Pcs. Tested	Step Block Tensile	Ultimate Tensile PSI	Yield Strength 2% Elong	Elong 2% Elong	RA, %	Hardness	Minimum Tempering Temperature
	FINISHED HEX HEAD BOLTS 001. 3/8" x 1-1/4 PER DNG. 5200-001 PART NO. 131550	410	100	3		134,000	118,000	22.3	62.4		1100°F.
	<p>"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."            "ALL MATERIAL IN ACCORDANCE WITH ASME SA614-83."            "VISUAL INSPECTION PER SA614-83 PARA. RU."            "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL, REV. 7, DATED 4-26-83." "MATERIAL IS IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA."</p>					<p><u>Gasket Retainer Bolts</u>            Mill Power Supply Co. 70# C39951-13-023 Item 01            item 7 :</p>					

Item No.	Visual Inspection			Heat Number	C	Mn	Si	S	P	Cu	Ni	Mo	V	Nb	Ti
	No. Tested	Accepted	Rejected												
001.	100	100	0	8640064	.130	.54	.24	.005	.019	12.00					

QA APPROVED  
 MATERIAL CONFORMS TO  
 ASME SECT II & III DIV. 1  
 1B 74 EDITION WITH ADD  
 BY B.M.W. DATE 7-18-87

ANI  
 DATE 10/6/87

INSPECTOR EVALUATION APPROVED BY:  
 EDWARD J. CHARANZA, LEVEL III INSPECTOR

STATE OF TEXAS  
 COUNTY OF HARRIS

Subscribed and sworn to before me this 20TH day of  
APRIL, 1987

Blanca E. Benavides  
 Notary Public in and for Harris County, Texas.  
 My commission expires Nov 31, 1991

POSI-SEAL  
 Q.A. APPVD.  
 BY B.P.W.  
 DATE 4-30-87

I certify the above results to be correct as contained in the records of the company.

Edward J. Charanza