

General Information or Other (PAR)

Event # 36263

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| Rep Org: SWAGELOK COMPANY Supplier: SWAGELOK COMPANY | Notification Date / Time: 10/06/1999 09:48 (EDT) Event Date / Time: 10/04/1999 (EDT) Last Modification: 06/23/2000 |
| Region: 3 City: Solon County: State: OH | Docket #: Agreement State: No License #: |
| NRC Notified by: BRUCE FLUSCHE (Fax) HQ Ops Officer: LEIGH TROCINE Emergency Class: NON EMERGENCY 10 CFR Section: 21.21 UNSPECIFIED PARAGRAPH | Notifications: JOHN KINNEMAN R1 BRIAN BONSER R2 JOHN JACOBSON R3 KRISS KENNEDY R4 VERN HODGE NRR |

POSSIBLE 10-CFR-PART-21 REPORT REGARDING A POSSIBLE DEFECT IN A SWAGELOK TUBE FITTING

The following text is a portion of a facsimile submitted by Swagelok Company:

"This is a preliminary notification of a possible defect in a Swagelok tube fitting, part number SS-400-3-4TTM, male branch tee. A drawing of the part is included with this notification. We are also notifying each of the involved utilities."

"We became aware of this on October 4, 1999."

"The defect is a crack in the seat of the fitting. We are continuing our analysis of the part and will provide further details in accordance with NRC timetables."

"[The] following are the six utilities to whom we have sold these parts:

Georgia Power [Company], Plant Vogtle, ... , 10 pcs. ... [;]
Duke Power Company, Oconee Nuclear Station, ... , 100 pcs. ... [;]
Arizona Public Service Co., Palo Verde Nuclear Generating Station, ... , 15 pcs. ... [;]
North Atlantic Energy Service Co., ... , Seabrook Station, ... , 10 pcs. ... [;]
Virginia Power, Surry Power Station, ... , 3 pcs. ... [; and]
Omaha Public Power District, Ft. Calhoun Nuclear Station, ... , 10 Pcs."

(Call the NRC operations officer for Swagelok contact information.)

*** UPDATE AT 1553 EST ON 11/04/99 FROM BRUCE FLUSCHE TO S. SANDIN ***

The following information was received via fax:

"We are writing further to our preliminary notification on October 6, 1999, about a possible defect in a Swagelok tube fitting, part number SS-400-3-4TTM, male branch tee.

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Event # 36263

"The utilities to whom we have sold this are repeated in the appendix to this letter.

"As we reported earlier, the defect is a crack in the seat of the fitting. This crank resulted from overheating during the resistive type heated forging process; it was not a defect in the raw material. The estimated per cent of forgings that have this condition is less than 0.03%.

"This forging was processed in December of 1996. Since the middle of 1998 we have required liquid penetrant testing on all resistive type heated forgings.

"If there are any questions, please do not hesitate to contact us."

The NRC operations officer notified the R1DO (Mohamed Shanbaky), R2DO (Pierce Skinner), R3DO (James Creed), and R4DO (Claude Johnson). This report was also faxed to NRR Part 21 (Vern Hodge).

***** UPDATE AT 0934 ON 12/17/99 FROM BRUCE FLUSCHE TO TROCINE *****

The following text is a portion of a facsimile submitted by Swagelok Company:

"Further to our notice of November 18, 1999, on Swagelok part number SS-400-3-4TTM, we are providing further information. As earlier reported the licensee below was not notified:

Florida Power and Light
PO. #00029212
5 pcs. SS-400-3-4TTM
Product ID. R17KLO509B"

"The reason for the lack of notification was that the certification had not been entered into our database. The associate responsible for entering the certifications is no longer with Swagelok, and we have scheduled an audit of our database for the time period from June 1997 through July 1999, as we believe this is the time period that most needs to be scrutinized."

"Whether further review of the database is necessary will be determined on the findings of this audit."

The NRC operations officer notified the R1DO (Ruland), R2DO (Boland), R3DO (Gardner), and R4DO (Harrell). This report was also faxed to NRR Part 21 (Vern Hodge).

*** UPDATE AT 1100 ON 06/23/00 BY JAMES HANSON TO JOLLIFFE ***

Swagelok company personnel have determined that five additional certifications have been found where it cannot be verified that the corresponding licensees have been contacted. This includes licensees for the following plants: Susquehanna, North Anna, Duane Arnold, and San Onofre.

The NRC Operations Officer notified the R1DO Bob Summers, R2DO Rudy Bernhard, R3DO Mike Jordan, R4DO Joe Tapia and NRR Vern Hodge (by fax).

36263 UPDATE

Swagelok®

Swagelok Company
29500 Solon Road, Solon, OH 44139
Phone: 440-248-4600
Fax: 440-519-7384
FACSIMILE COVER SHEET

Date: June 23, 2000
To: Document Control Desk
Office of Reactor Regulation
Nuclear Regulatory Commission
From: Bruce Flusche/ Swagelok

Total Pages: 8

Subject: Failure to Comply

Original to follow by Registered Mail

Please call me if there are any questions

JE19

Swagelok

SWAGELOK COMPANY
29500 Solon Road, Solon, Ohio 44139-3492 U.S.A.

June 23, 2000

Document Control Desk
Office of Reactor Regulation
Nuclear Regulatory Commission
Washington DC 20555

Re: Failure to Comply

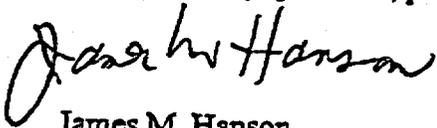
On December 17, 1999 we wrote on a failure to comply with a notification of a potential defect in a Swagelok tube fitting. (Item 1 enclosed).

As promised in that notice, a comprehensive audit covering over 2000 certifications has been conducted of our certification database. Five other certifications have been found where we cannot verify that the licensee has been contacted. The list follows on page 2. All of these pertain to a notification dated September 9, 1998 on a stainless steel Swagelok front ferrule, part number SS-1613-1. A copy of this notification is also enclosed. (Item 2 enclosed.)

We are notifying the licensees concurrently with this communication.

Now that our certifications database has been updated and verified, our corrective action to avoid this type of situation in the future will be to audit the database on a monthly basis to verify information is being entered accurately.

If there are any questions, please do not hesitate to contact us.



James M. Hanson
Vice President of Engineering & Technology

| CUSTOMER | PART NUMBER | QTY | PO NUMBER | BOX CODE |
|---|--------------|-----|-------------------|-----------|
| Pennsylvania Power & Light SUSQUEHANNA | SS-1610-6 | 2 | 6101709 8146883 | R18FM0012 |
| Virginia Power (Anna Station) NORTH ANNA | SS-1610-2-16 | 10 | CNT 563184 | R17IF0530 |
| IES Utilities, Inc. JUANE ANNOLO | SS-1613-1 | 4 | P107993 | R17IC0521 |
| Southern Cal. Edison SAN ONOFE | SS-1610-9 | 1 | 6C278902 Rel A002 | R18GP0051 |
| Southern Cal. Edison | SS-1610-9 | 1 | 6C278902 Rel A001 | R18GP0051 |

December 17, 1999

Document Control Desk
Office of Reactor Regulation
Nuclear Regulatory Commission
Washington, DC 20555

Further to our notice of November 18, 1999 on Swagelok part number SS-400-3-4TTM, we are providing further information. As earlier reported the licensee below was not notified:

Florida Power and Light
P.O. #00029212
5 pcs. SS-400-3-4TTM
Product I.D. R17KL0509B

The reason for the lack of notification was that the certification had not been entered into our database. The associate responsible for entering the certifications is no longer with Swagelok and we have scheduled an audit of our database for the time period from June 1997 through July 1999, as we believe this is the time period that most needs to be scrutinized.

Whether further review of the database is necessary will be determined on the findings of this audit.

Please contact us if you have any questions.

James M. Hanson
Vice President Engineering & Technology

September 9, 1998

Document Control Desk
Office of Reactor Regulation
Nuclear Regulatory Commission
Washington, DC 20555

Subject: Defects Potentially Reportable Under 10CFR21

We are writing to inform you about a possible machining defect in certain one inch stainless steel Swagelok front ferrules, part number SS-1613-1.

The front ferrule is shipped as a component in a Swagelok tube fitting, or sold separately as a replacement part.

A list containing the part numbers of assembled fittings and nuclear safety related certifications under which these ferrules have been sold is enclosed. All of these customers have already been notified by us about this possible problem. Only front ferrules with the heat codes ILA, JVA and JYL stamped on the part are affected; and only one inch ferrules are involved.

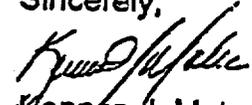
The possible defect is that the 45 degree chamfer on the trailing edge of the ferrule may not be correct. A drawing is enclosed that shows this dimension, along with a drawing that illustrates the front ferrules' position in the Swagelok tube fitting. When these ferrules were machined, an improper set-up allowed a few pieces to be manufactured with an inappropriate dimension. Our inspection of the lots involved shows that about 0.019 per cent of the ferrules manufactured in these lots were affected.

Laboratory testing of these parts with this incorrect dimension had the tubing slip out of the fitting at three times working pressure of the tubing.

Our corrective action includes doubling our sample size on these parts and implementing a long term project to 100 per cent inspect using automation.

If there are any questions, please do not hesitate to contact us.

Sincerely,

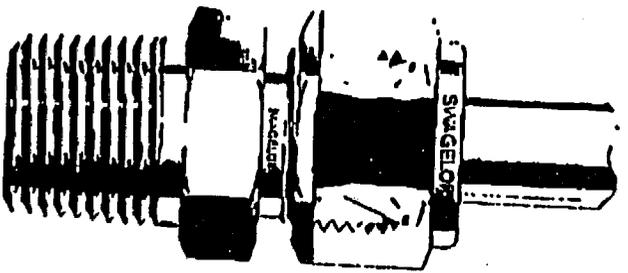

Kennan J. Malec
Vice President & General Manager

SWAGELOK COMPANY

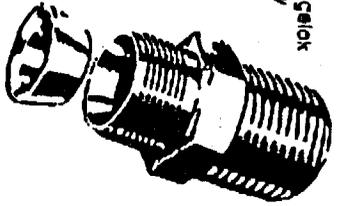
SS-1613-1

| Company | Purchase Order | Part Number | QTY | Product ID |
|--------------------------------------|------------------|--------------|-----|------------|
| Florida Power & Light (Turkey Point) | 00032839 | SS-1610-1-16 | 5 | R18G20183 |
| Public Service Electric & Gas | P2 0957644 1850 | SS-1610-1-16 | 10 | R18FJ0055B |
| Mechanical Engineering Workshop | SF/CRX/198/433 | SS-1613-1 | 50 | R17IC0521B |
| IES Utilities (Duane Arnold) | T30228 | SS-1613-1 | 4 | R17IC0521B |
| Duke Power (Oconee) | ON33500007310100 | SS-1610-1-16 | 24 | R17GX0505B |
| Westinghouse Savannah River | AC04139A #8 | SS-1610-1-16 | 1 | R17GX0505 |

Swagelok



Swagelok
Body



Swagelok
Front
Ferrule

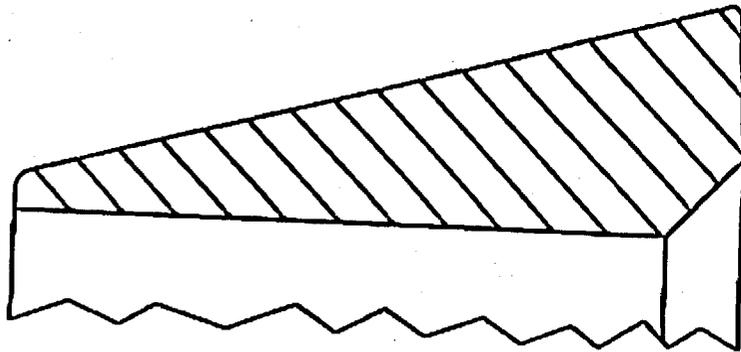
Swagelok
Back
Ferrule



Swagelok
Nut

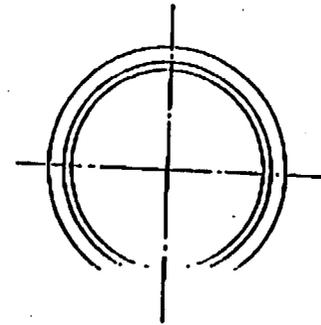
PART NO.

1613-1

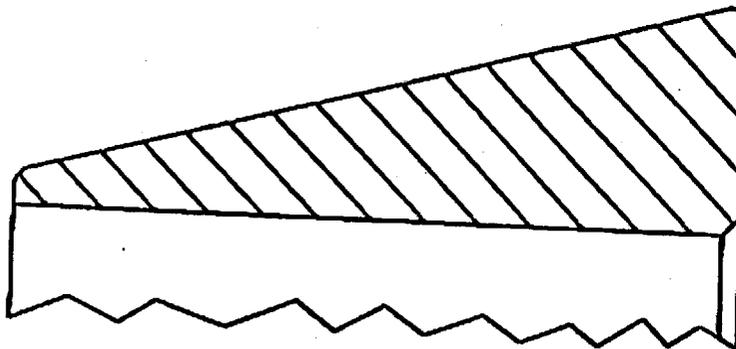


10x SIZE

ACCEPTABLE

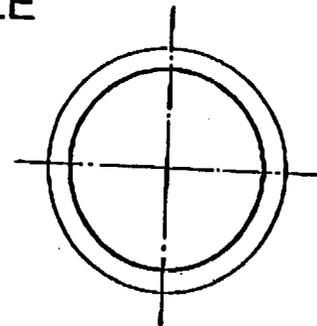


FULL SIZE



10x SIZE

NOT ACCEPTABLE



FULL SIZE

CUSTOMER DRAWING

Swagelok
SWAGELOK COMPANY

- DRAWING NOT TO SCALE.
- DIMENSIONS ARE INCHES OVER (MILLIMETERS).
- DRAWING IS SUBJECT TO CHANGE WITHOUT NOTICE.

DRAWN BY
JN

DATE

TITLE

APPROVED BY

DATE

PART NO.

1613-1