



Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038

Nuclear Department

November 17, 1983

Dr. Thomas Murley
Regional Administrator
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Dr. Murley:

IE BULLETIN 83-06
NONCONFORMING MATERIALS SUPPLIED BY
TUBE-LINE CORPORATION
NO. 1 AND 2 UNITS
SALEM GENERATING STATION
DOCKET NOS. 50-272 AND 50-311

PSE&G has performed the following actions in response to the referenced Bulletin.

Item 1

Review the list of purchasing and receiving companies given in Attachments 2 and 3 and determine if any Tube-Line (T-L) supplied materials have been furnished for your facility.

Response:

We have reviewed the list of purchasing and receiving companies given in Attachments 2 and 3 to the Bulletin. Additionally, we physically checked the mill test reports of vendors of pipe fittings and components to determine the vendor's source. We have found that the following principal suppliers have provided material furnished by Tube-Line Corporation: Louis P. Canuso, Inc., Capitol Pipe and Steel Company, and Empire Valve and Fitting Company.

Item 2A

Provide a list of the T-L supplied materials and identify the systems in which these materials are/will be installed.

Response:

A listing of the materials furnished by the above suppliers and the systems in which they are installed is provided in Attachment 1.

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Item 2B

Implement a program which provides assurance that received materials comply with ASME Code Section III and applicable procurement specification requirements, or which demonstrates that such materials are suitable for intended service. This program should include specific verification that received austenitic stainless steels are in a non-sensitized condition.

Response:

The materials received through Capitol Pipe and Steel Co. and Louis P. Canuso Inc. (see Attachment 1) were readily rejected and returned to the vendor for nonconformance.

An engineering evaluation was conducted to verify the integrity and suitability of those fittings that are installed in safety-related systems. (See Attachment 2)

To assure that austenitic stainless steel is procured in the non-sensitized condition, we are currently revising our piping specification to include ASTM 262, Practice A - Oxalic Acid Etch Test. This test is for detecting susceptibility to intergranular attack in stainless steel.

Item 2C

Replace fittings and flanges with materials which have been manufactured in full compliance with ASME Code Section III and the applicable procurement specification requirements.

Response:

The PSE&G Engineering Evaluation (Attachment 2) concluded that the material integrity of the subject fittings is well assured. The certified material test report showed chemical and physical properties within ASTM specification. Additionally, 100% Radiography (RT) and 100% Magnetic Particle Testing (MT) combined with the tensile testing met Nuclear Class 1 material testing requirements.

Item 3

For ASME Code materials furnished by T-L which are installed in safety-related systems in operating plants, the following actions are requested: a, b, c.

Response:

This action is addressed in 2a, 2b, 2c and Attachment 1 and 2.

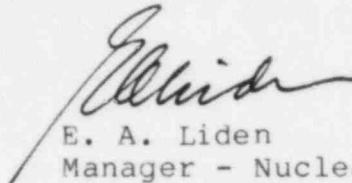
Dr. Thomas Murley, Regional Administrator
U.S. Nuclear Regulatory Commission

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Should you have any questions, please do not hesitate to
contact us.

Sincerely,



E. A. Liden
Manager - Nuclear
Licensing and Regulation

Attachment

CC: Mr. Donald C. Fischer
Licensing Project Manager

Mr. James Linville
Senior Resident Inspector

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

ATTACHMENT 1

SUPPLIER	ITEM DESCRIPTION	PURCHASE ORDER NO.	SYSTEM IS SAFETY RELATED	INSTALLED	LOCATION OF INSTALLATION	DISPOSITION	REMARKS
Capitol Pipe & Steel Co. Tube-Line	2-8" TEE, SCH. 40, ASTM A234 WPB	P2-009018	NA	NO	NA	DR # R1-02-83-155 (10/3/8 TO BE RETURNED TO THE VENDOR DISPOSITIONED 10/6/83)	** SE not required since this was installed on Non-Safety related system.
	7-6" TEE SCH 40	P2-009018	NA	NO	NA		
	1-6" TEE, SCH. 40, (Heat # EYPH)	P2-009018	NO	YES**	NON SR SYSTEM		
(Louis P. Canuso Inc.) Tube-Line	1- 8" X 90° Elbow ASTM A403 TP316L	217979	NA	NO	NA	SEE DR# QA-82-091 SCRAPPED	Rejected and returned to vendor
	2- 10" X 45° Elbow ASTM A403 TP316L	217979	NA	NO	NA		
(Capitol Pipe & Steel Co.) Tube-Line	12- 3/4" Flanges	P2-002704	NA	NO	NA	RETURNED TO VENDOR FOR NONCONFORMANCE	SE Not REQUIRED
	12- 1" Flanges	P2-003077	NA	NO	NA		
	12- 1 1/2" Flanges	P2-002798	NA	NO	NA		
(Louis P. Canuso Inc.) Tube-Line	4- 4" Caps, Sch. 40, ASTM A403 WP 304	883865	NO	YES	NON SR SYSTEM	NO ACTION	SE not required Non-Safety related system
(Empire Valve & Fitting Co.) Tube-Line	1- 3" X 90° Elbow ASME SA420 WPLG, Heat Code EOQ	219668	NO	***YES	NON SR SYSTEM	NO ACTION	*** SE not required. Installed on NSR System
	1- 3" X 90° Elbow ASME SA420 WPLG Heat Code EOQ	219668	YES	† YES	CHILLED WATER	MATERIAL ADEQUACY EXAMINED AND VERIFIED. NO FURTHER ACTION REQUIRED	† See Attached Safety Evaluations
(Louis P. Canuso Inc.) Tube-Line	2-4" X 3" Reducing TECH. SCH. 40 B.W. ASTM A234 WPB	891743	YES	YES	CHILLED WATER		See Attached Safety Evaluation.
	4-3" X 90° Elbow SCH 40 B.W. ASTM A234WPB	891743	YES	YES	CHILLED WATER		
	1-3" X 45° Elbow, SCH 40 B.W. ASTM A234 WP	891743	YES	YES	CHILLED WATER		
	2-3" X 2 1/2" COAC. Red. B.W. ASTM A234 WPB	891743	YES	YES	CHILLED WATER		
	1-3" X 90° Elbow, Sch. 40 B.W. ASTM A234 WPB	891743	NA	NO	CHILLED WATER		
						USED FOR DESTRUCTIVE TESTING	



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Date Oct. 19, 1983

Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038

Nuclear Department

**TITLE: SAFETY EVALUATION OF NONCONFORMING MATERIALS SUPPLIED BY TUBE-LINE
SALEM GENERATING STATION UNIT NO. 2**

1.0 PURPOSE

The purpose of this Safety Evaluation is to document the review of NRC IE Bulletin No. 83-06 on nonconforming materials supplied by Tube-Line and confirm the adequacy of affected components for intended service.

2.0 SCOPE

This Safety Evaluation applies to pipe fittings supplied by Tube-Line which are installed in the Chilled Water Piping System, SGS Unit No. 2.

3.0 REFERENCES

- a) NRC IE Bulletin No. 83-06 (attached)
- b) Nondestructive Examination Reports (attached)
- c) Radiographic Examination Reports (attached)
- d) Certified Material Test Report HN-894 (attached)
- e) Certified Material Test Report 34414 P-1 (attached)
- f) PSE&G Research Corporation RTL R NO. 67585 (attached)

4.0 DISCUSSION

Responding to NRC IE Bulletin No. 83-06 (Ref. 3.a), our investigation revealed that the following fittings were supplied by Tube-Line.

- a) 2 each 4"x3" Reducing Tee, Sch.40, B.W., ASTM A234 WPB
- b) 5 each 3"x90° L.R. Elbow, Sch.40, B.W., ASTM A234 WPB
- c) 1 each 3"x45° Elbow, Sch.40, B.W., ASTM A234 WPB
- d) 2 each 3"x2-1/2" Concentric Reducer, B.W., ASTM A234 WPB
- e) 1 each 3"x90° L.R. Elbow, Sch.40, B.W., ASTM A420 WPL6

All the above fittings, except one (1) 3"x90° elbow (Item 4.b above), were installed on safety-related piping components of the Chilled Water System.

To verify the material integrity and suitability of these fittings for the intended service, 100% Radiography (RT) and 100% Magnetic Particle Testing (MT) were performed on three 3" x 90° elbow (Item 4.b), two 3" x 2-1/2" concentric reducer (Item 4.d) and one 3" x 90° elbow (Item 4.e).

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Both RT and MT found these fittings acceptable with no inherent defects(Ref's. 3.b and 3.c). The Certified Material Test Reports (Ref's. 3.d and 3.e) showed chemical and physical properties acceptable to ASTM specification. Additionally, one 3"x90° elbow that has not been installed was sent to PSE&G Energy Lab for testing (Ref. 3.f) and the tensile requirements were found to exceed those in the material specification, ASME/ASTM A234 WPB.

5.0 CONCLUSION AND RECOMMENDATION

Based on the above discussion and written report of tests performed, the material integrity of the subject fittings is well assured. The total of seven fittings examined are considered good representatives of the eleven (11) fittings supplied by Tube-Line. The installed ten (10) fittings will not, in any way, degrade the Chilled Water piping system, which is a Nuclear Class 3 system. The non-destructive examinations performed (RT and MT) combined with the tensile testing at the Energy Lab, in fact, exceed Nuclear Class 1 requirements. We recommend that all ten fittings remain in the system.

DCN:cbp

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AC Nimitz
Originator

Tom Sullivan
Piping, Materials & Stress Group Head

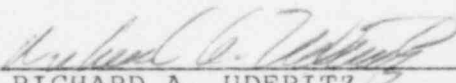
S E. Klossel 10.20.83
Verifier

RhGuma
Manager - Plant Engineering

STATE OF NEW JERSEY)
)
COUNTY OF SALEM) SS.

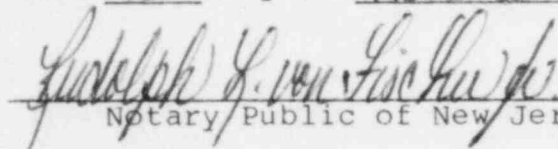
RICHARD A. UDERITZ, being duly sworn according to law deposes
and says:

I am a Vice President of Public Service Electric and Gas
Company, and as such, I find the matters set forth in our
response dated November 17, 1983, to IE BULLETIN 83-06
"Nonconforming Materials Supplied by Tube-Line Corporation"
are true to the best of my knowledge, information and belief.



RICHARD A. UDERITZ

Subscribed and sworn to before me
this 18TH day of NOVEMBER, 1983



Notary Public of New Jersey

My Commission expires on _____
RUDOLPH L. von FISCHER JR.
Notary Public of New Jersey
My Commission Expires Sept. 10, 1986