

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

November 22, 1983

83 NOV 25 P 1: 57
U.S. Nuclear Regulatory Commission
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

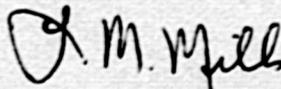
INSPECTION AND ENFORCEMENT BULLETIN 83-06 - NONCONFORMING MATERIALS
SUPPLIED BY THE TUBE-LINE CORPORATION FACILITIES AT LONG ISLAND CITY,
NEW YORK; HOUSTON, TEXAS; AND CAROL STREAM, ILLINOIS

We have reviewed the subject Bulletin dated July 22, 1983. We have found that the subject materials were only supplied to Watts Bar, Bellefonte, and Sequoyah Nuclear Plants. Enclosure 1 is our response to the subject Bulletin for Watts Bar and Bellefonte Nuclear Plants. Enclosure 2 is our response for Sequoyah Nuclear Plant. We expect to submit our next report for Watts Bar and Bellefonte by March 1, 1984.

If you have any questions, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager
Nuclear Licensing

Enclosures

cc (Enclosures):

Mr. Richard C. DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

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PDR ADOCK 05000327
Q PDR

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ENCLOSURE 1

WATTS BAR AND BELLEFONTE NUCLEAR PLANTS UNITS 1 AND 2
RESPONSE TO IE BULLETIN 83-06
NONCONFORMING MATERIALS SUPPLIED BY TUBE-LINE CORPORATION FACILITIES
AT LONG ISLAND CITY, NEW YORK; HOUSTON, TEXAS; AND CAROL STREAM, ILLINOS

This report is being provided as required by item 4 of the section entitled "Actions to be Taken by Holders of Operating Licenses or Construction Permits" in IE Bulletin 83-06. TVA has reviewed the lists of purchasing and receiving companies given in tables 1 and 2 of IE Bulletin 83-06, and has, at this time, determined that the only Tube-Line (T-L) supplied ASME Code materials installed in any safety-related system at either Watts Bar (WBN) or Bellefonte (BLN) Nuclear Plants were supplied by Capitol Pipe and Steel Products Company (Capitol), Bala-Cynwyd, Pennsylvania. A listing of those identified materials supplied by Capitol, and the actions taken by TVA in regard to those materials, are given in TVA's final response to the NRC on NCR GEN MEB 8301, (WBRD-50-390,391/83-23,22 and BLRD-50-438,439/83-27,22)

Other suppliers, who may have supplied T-L manufactured materials to TVA during the time period involved, have been queried regarding this issue. These companies are shown on attachment 1. Attachment 2 lists those companies from attachment 1 who have indicated to TVA, either in written or verbal responses, that they did not furnish T-L materials to TVA, either directly or indirectly, within the time span of concern. Attachment 3 lists some companies toward whom TVA is exerting extra effort to obtain the detailed information required.

Since TVA does not yet have all of the necessary information from the potential T-L material suppliers, this report may not be final. However, it can be stated at this time that TVA is not aware of any other T-L fittings that are in safety-related systems, at either WBN or BLN, other than those listed in the referenced final report for NCR GEN MEB 8301. TVA will continue to elicit a response, on virtually a daily basis, from the companies listed in attachment 3. Any future finding of T-L materials will be handled in a similar manner to those already found.

ATTACHMENT 1
POTENTIAL SUPPLIERS OF TUBE-LINE MATERIALS TO TVA

Reference: IE Bulletin 83-06

The following is a list of 21 companies identified by TVA on August 6, 1983, that potentially could have supplied Tube-Line materials to TVA.

- *The Babcock and Wilcox Company
- *Bingham-Willamette Company
- *Capitol Pipe and Steel Products Company
- *Chicago Bridge and Iron Company
- *Consolidated Pipe and Supply Company
- *Crane Company
 - Dravo Corporation
 - Gulfalloy Corporation
- *Guyon Alloys
- *Hub, Inc.
- *Ionics, Inc.
- *Joliet Valves, Inc.
 - Koch Process Systems Company
- *Liberty Equipment Company
- *Magnetrol International Corporation
- *Metal Bellows Corporation
 - Pittsburgh Des Moines Company
 - Stone & Webster Engineering Corporation
 - Tubeco, Inc.
- *United McGill Corporation
- *Westinghouse Electric Corporation

Fifteen of these companies were contacted by TVA. These are indicated by the asterisk. Companies not queried did not have contract performance during the time period of concern.

ATTACHMENT 2

SUPPLIERS WHO DID NOT FURNISH TUBE-LINE MATERIAL TO TVA

Reference: IE Bulletin 83-06

Listed in this attachment are those suppliers who were identified by NRC in IE Bulletin 83-06, had contracts with TVA, and did not furnish Tube-Line (T-L) materials either directly or indirectly within the time span of concern.

- *Bingham-Willamette Company
- *Chicago Bridge and Iron Company
Consolidated Pipe and Supply Company
- *Guyon Alloys
- *Hub, Inc.
- *Joliet Valves, Inc.
Liberty Equipment Company
- *Magnetrol International Corporation
- *United McGill Corporation

Written responses have been received from those companies indicated by an asterisk. Responses by those firms not so indicated have provided verbal reports upon being contacted by TVA. Each company committed to furnish a written response.

ATTACHMENT 3

SUPPLIERS WITH WHOM ADDITIONAL TVA EFFORT IS REQUIRED

Reference: IE Bulletin 83-06

Listed in this attachment are those suppliers who were identified by NRC in IE Bulletin 83-06, but written response from these suppliers has not been received, is indeterminate, or is incomplete and requires additional efforts.

The Babcock and Wilcox Company
Chicago Bridge and Iron Company
Crane Company
Ionics, Inc.
Westinghouse Electric Corporation

For B&W, additional inquiries have been forwarded to other organizations of their company as they have no central designee for handling such corporate-wide problems (per Jack Turnsill on September 27, 1983). No response has been received at this time.

CB&I's response is still being evaluated.

Two additional divisions of Crane Company are being asked to review their TVA contracts for T-L materials.

Ionics had not worked the problem when contacted on September 27, 1983. Tom Clark promised to investigate and respond in a "couple of days." No response has been received at this time.

Westinghouse (Chattanooga) has been contacted daily since September 26, 1983. So far, they have not given even a verbal status.

ENCLOSURE 2

SEQUOYAH NUCLEAR PLANT - NRC IE BULLETIN 83-06 - NONCONFORMING MATERIALS SUPPLIED BY TUBE-LINE CORPORATION FACILITIES AT LONG ISLAND, NEW YORK; HOUSTON, TEXAS; AND CAROL STREAM, ILLINOIS

In accordance with your request, an investigation has been conducted to ascertain whether any Tube-Line Corporation (T-L) materials subject to IE Bulletin 83-06 were furnished directly or indirectly through sub-tier vendors to Sequoyah Nuclear Plant for installation in a safety-related system.

During this investigation, TVA developed from its procurement data base a listing of companies from those provided in Tables 1 and 2 of the subject bulletin with which we had contracts for selected commodities (pipe fittings and flanges) between January 1, 1981 and March 31, 1983. TVA then requested the 15 companies to cooperate in determining if any T-L materials were supplied to TVA as individual items or as a part of a subassembly or assembly as a result of any contract identified by TVA or any other contract the supplier may have had which meets the following criteria:

1. Items identified by T-L as having been produced to the material and quality assurance requirements of the ASME Code Section III.
2. Shipments by T-L occurred between June 5, 1981 and March 1, 1983 for stainless steel products or January 1, 1982 and March 1, 1983 for carbon steel products.

Replies have been received from each company solicited to cooperate with TVA in this investigation. Of these 15 companies, the Metal Bellows Corporation and Capitol Pipe and Steel Products Company identified materials subject to the bulletin which were shipped to Sequoyah.

Metal Bellows Corporation (MBC)

Based on information (part numbers and heat numbers) provided by MBC, it was determined that 16 flexible metal hose assemblies supplied on contract 81PA2-312502 contained parts (stub ends) furnished by T-L. None of these hose assemblies have been installed in any plant system. Each item has been identified as nonconforming and placed in segregated storage. They will be returned to MBC and replaced with hose assemblies manufactured from materials obtained from qualified sources.

SEQUOYAH NUCLEAR PLANT - NRC IE BULLETIN 83-06 - NONCONFORMING MATERIALS
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The following information provides a list of T-L supplied materials and the systems applications for which the hose assemblies were intended:

Material	Quantity	System
Flexible metal hose assemblies, ASME Section III, Class 3	6	Transport component cooling water from the component cooling system piping to the reactor coolant pump (RCP)
Flexible metal hose assemblies, ASME Section III, Class 3	2	Transport essential raw cooling water (ERCW) from the ERCW piping to the RCP
Flexible metal hose assemblies, ASME Section III, Class 3	2	Transport fluid from the RCPs to the waste disposal system piping
Flexible metal hose assemblies, ASME Section III, Class 3	6	Transport ERCW from the ERCW piping to the HVAC equipment

Capitol Pipe and Steel Products Company (CPSP)

CPSP has identified one ASME Code Section III item which was supplied to Sequoyah and was manufactured by T-L. This item, a 24-inch standard SR 90-degree ell, SA 234, WPB, heat code EUTE, has been installed in the fifth diesel generator air intake system (TVA piping class G). Since the above item is installed, TVA has examined for its chemical constituents and hardness a metallic specimen taken from the item. The hardness test result of B Rockwell 76 was converted into an approximate tensile test value of 70,000 psi. The test results were compared to the product analysis and tensile requirements of the material specification. All test results were acceptable and met the material specification requirements. The TVA test data (form TVA 6474A) is attached.