



20 January 1992

Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, Maryland 20852

Attention: Mr. Richard C. Wilson  
Senior Reactor Engineer

Subject: a) Quality Assurance Requirements Contained in Nuclear  
Customer Purchase Orders

(b) Bechtel Power Corporation's Purchase Order 8856-F-56718  
for Susquehanna Steam Electric Station Dated 15 October 1981

(c) Gibbs & Hill Specification 2323-MS-38H, Revision 1,  
dated 2 April 1981

Dear Mr. Wilson:

During the inspection held at TSI on December 16-20, 1991, you requested that we forward to you the following information regarding quality assurance requirements identified in current purchase orders from TSI's nuclear customers:

Plant	Beaver Valley
Utility	Duquesne Light Co.
P O No.	20746-DLC-2057
P O Date	3/29/91
QA Requirement	Certificate of Conformance & MSDS Sheet

Plant	Braidwood
Utility	Commonwealth Edison
P O No.	315219
P O Date	2-16-88
QA Requirement	Certificate of Conformance

Plant	Browns Ferry
Utility	Tennessee Valley Authority
P O No.	92-NJM-81392D
P O Date	10-28-91
QA Requirement	Certificate of Conformance

9201290204 920120  
PDR QA999 EECTMALS  
99901226 PDR

5609

Plant	Brunswick
Utility	Carolina Power & Light Co.
P O No.	6J1340BP
P O Date	6-17-91
QA Requirement	Certificate of Conformance Documentation of Underwriters Laboratories Listing or Factory Mutual Approval
Plant	Byron
Utility	Commonwealth Edison
P O Issued By:	Pope Co.
P O No.	001229
P O Date	9-6-90
QA Requirement	Certificate of Conformance
Plant	Calloway
Utility	Union Electric Co. Audited by the NRC - December 16 - December 20, 1991
Plant	Comanche Peak
Utility	Texas Utilities Audited by the NRC - December 16 - December 20, 1991
Plant	Connecticut Yankee
Utility	Northeast Utilities
P O No.	941035
P O Date	3-21-90
QA Requirement	"This is a QA Purchase Order"
Plant	D C Cook
Utility	American Electric Power Co.
P O No.	06198-041-1X
P O Date	9-13-91
QA Requirement	10CFR50, Appendix B & Part 21 Certificate of Conformance "Protected Shipment"
Plant	Cooper
Utility	Nebraska Public Power District
P O No.	338038
P O Date	7-29-89
QA Requirement	Shelf Life Statement - No other QC Requirements

Plant	Crystal River
Utility	Florida Power Corporation
P O No.	F740475X
P O Date	11-15-91
QA Requirement	"Materials must be manufactured in accord with approved Florida Power QA/QC Program" Certificate of Conformance

Plant	Davis Besse
Utility	Toledo Edison Co.
P O No.	S026405D91
P O Date	6-12-91
QA Requirement	Certificate of Conformance Recommended Shelf Life "Must be UL listed or Factory Mutual approved"

Plant	Diablo Canyon
Utility	Pacific Gas & Electric Co.
P O No.	052516
P O Date	11-21-91
QA Requirement	Certificate of Conformance

Plant	Duane Arnold
Utility	Iowa Electric & Gas Co.
P O No.	S60627
P O Date	1-14-91
QA Requirement	Certificate of Compliance and MSDS Sheet

Plant	Enrico Fermi
Utility	Detroit Edison Co.
P O No.	NM24472
P O Date	3-14-91
QA Requirement	No QC Requirements

Plant	Grand Gulf
Utility	Mississippi Power & Light Co.
P O No.	MP708622
P O Date	3-31-87
QA Requirement	Part 21& MP &L Sec E-270.0 Rev 1

Plant	E I Hatch
Utility	Georgia Power Co.
P O No.	7009021
P O Date	11-11-91
QA Requirement	Certificate of Conformance & MSDS Sheet Protected Shipment & Shelf Life
Plant	Indian Point
Utility	Consolidated Edison Co.
P O Ordered By	ICMS
P O No.	671A1244
P O Date	12-21-87
QA Requirement	Part 21
Plant	LaSalle
Utility	Commonwealth Edison
P O Ordered By	Transco Co.
P O No.	7589
P O Date	7-10-87
QA Requirement	No QC requirements
Plant	Limerick
Utility	Philadelphia Electric Co.
P O No.	LS638586
P O Date	4-5-91
QA Requirement	Certificate of Compliance and Certificate of Analysis on Bulk Grade Material
Plant	Maine Yankee
Utility	Maine Yankee Atomic Power
P O No.	60686
P O Date	10-24-90
QA Requirement	10CFR50, Appendix B
Plant	Millstone
Utility	Northeast Utilities
P O No.	930735
P O Date	8-23-89
QA Requirement	"This is a QA Purchase Order" No specific QA Requirements

Plant McGuire  
Utility Duke Power  
P O No. A05205-66  
P O Date 1-16-91  
QA Requirement Certificate of Conformance  
Protected Shipment

Plant Nine Mile Point  
Utility Niagra Mohawk Power Corp.  
P O Ordered By Insulation Consultants & Management Services, Inc.  
P O No. 109A2539  
P O Date 9-5-91  
QA Requirement Reg. Guide 1.36 & Certificate of Conformance

Plant North Anna  
Utility Virginia Electric & Power Co.  
P O No. SNS298528  
P O Date 6-6-90  
QA Requirement Certificate of Conformance  
Protected Shipment

Plant Oyster Creek  
Utility GPU Nuclear Corp.  
P O No. 0347681  
P O Date 9-12-91  
QA Requirement "Commercial Grade - Part 21 does not apply"

Plant Palo Verde  
Utility Arizona Public Service Co.  
P O Ordered By Thorpe Insulation  
P O No. 45779  
P O Date 12-12-90  
QA Requirement Certificate of Conformance  
Commercial Program  
Shelf Life

Plant Peachbottom  
Utility Philadephia Electric Co.  
P O No. BW647056  
P O Date 9-18-91  
QA Requirement Certificate of Conformance  
Shelf Life

Plant Perry  
Utility Cleveland Electric Illuminating Co.  
P O No. Audited by the NRC - December 16 - December 20, 1991

Plant Praire Island  
Utility Northern States Power  
P O No. E13588MQ  
P O Date 6-2-86  
QA Requirement Appendix B, 10CFR50  
Certificate of Conformance

Plant River Bend  
Utility Gulf States Utilities  
P O No. Audited by the NRC - December 16 - December 20, 1991

Plant St. Lucie  
Utility Florida Power & Light  
P O No. C91930 91849  
P O Date 10-8-91  
QA Requirement No QA Requirements  
Shelf Life

Plant San Onofre  
Utility Southern California Edison Co.  
P O No. 6T111003  
P O Date 11-19-91  
QA Requirement Reg. Guide 1.36  
Certificate of Conformance & MSDS Sheet

Plant Sequoyah  
Utility Tennessee Valley Authority  
P O No. 92NLM 87119B  
P O Date 11-20-91  
QA Requirement Reg. Guide 1.36  
Protected Shipment & Shelf Life

Plant Shearon Harris  
Utility Carolina Power & Light Co.  
P O No. 6F8202BP  
P O Date 1-6-91  
QA Requirement Marked "Quality Assurance Material"

Plant	Shoreham
Utility	Long Island Lighting Co.
P O No.	9201C
P O Ordered By	Robert A Keasbey Co.
P O Date	6-9-89
QA Requirement	No QA Requirements

Plant	South Texas
Utility	Houston Power & Light Co.
P O No.	RS0024245
P O Date	6-25-91
QA Requirement	Certificate of Conformance Manufacturing Date & Shelf Life

Plant	Surry
Utility	Virginia Electric & Power Co.
P O No.	CSY 343814
P O Date	4-18-91
QA Requirement	"Shelf Life Document" Certificate of Analysis & MSDS Sheet

Plant	Susquehanna
Utility	Pennsylvania Power & Light Co.
P O No.	Audited by the NRC - December 16 - December 20, 1991

Plant	Three Mile Island
Utility	GPU Nuclear
P O No.	0352246
P O Date	10-24-91
QA Requirement	Part 21 Manufactured in accord with TSI QA Program Certificate of Conformance Protected Shipment

Plant	Trojan
Utility	Portland General Electric Co.
P O No.	NQ92612
P O Date	9-5-91
QA Requirement	Certificate of Conformance Protected Shipment

Plant	Turkey Point
Utility	Florida Power & Light
P O No.	C91674-91163
P O Date	10-31-91
QA Requirement	"Comply with OSHA Requirement" Shelf Life Protected Shipment
Plant	Vermont Yankee
Utility	Yankee Atomic Power
P O No.	44480-1
P O Date	3-13-91
QA Requirement	"Comply with TSI's NQAPM/QCOPM" Certificate of Conformance Shelf Life
Plant	Vogtle
Utility	Georgia Power
P O No.	6007989
P O Date	10-11-91
QA Requirement	"Comply with GPC Spec X3AR01, Sec E8, Attachment B, Page B-43" Certificate of Conformance Shelf Life
Plant	Watts Bar
Utility	Tennessee Valley Authority
P O No.	NS-42800C
P O Date	12-20-90
QA Requirement	10CFR50, Appendix B Certificate of Conformance, Shelf Life
Utility	Washington Public Power Supply System
Plant	WNP-2
P O No.	Audited by the NRC - December 16 - December 20, 1991



Plant	Waterford III
Utility	Louisiana Power & Light
P O No.	WPO 40451
P O Date	5-8-91
QA Requirement	MSDS Sheet, Spec. Proc. Misc 903, Rev 2
Plant	Wolf Creek
Utility	Kansas Gas & Electric
P O No.	Audited By the NRC - December 16 - December 20, 1991
Plant	Zion
Utility	Commonwealth Edison
P O No.	4F5163
P O Date	5-31-91
QA Requirement	TSI's NQAPM Certificate of Conformance

**Bechtel Power Corporation's Purchase Order 8856-F-56718  
for Susquehanna Steam Electric Station Dated 15 October 1981**

At the request of Mr. Randy Moist, we are submitting a copy of the following documents:

1. Telex Purchase Order from Mr. C. Turnbow  
Bechtel Power Corporation, Dated 10-15-81
2. Original Bechtel Power Corporation's Purchase Order 8856-F-56718  
for Susquehanna Steam Electric Station Dated 15 October 1981  
Received by TSI on 13 November 1981 with the following attachments:
  - a) Equal Opportunity Clause
  - b) Field Purchase Order Service Agreement
  - c) Schedule A to Agreement No. 8856-FTSA-22 Between  
Bechtel Power Corporation and T.S.I., Inc.
  - d) Specification 8856-E-61, Rev. 1 - Susequhanna Steam Electric Station
3. Telex Message No. 1125-1 dated 25 November 1981 to Bechtel Power  
regarding Exceptions to Technical Service Agreement to 8856-FTSA-22
4. A copy of Bechtel Power Corporations Purchase Order 8856-F-56719 for  
equipment rental dated 15 October 1981

5. A copy of the following Invoices
- a) No. 11756 dated 29 October 1981 for materials and equipment
  - b) No. 11756-B dated 30 October 1981 for materials
  - c) No. FS-104 dated 16 November 1981 for Field Service Engineering
  - d) No. ER-01 dated 16 November 1981 for equipment rental
  - e) No. ER-20 dated 21 December 1981 for equipment rental

In his meeting with the NRC representative in Washington, D.C., on October 17, 1991, Mr. Feldman explained TSI's policy to provide installation guides and training to installers of THERMO-LAG, and TSI did not supervise or perform quality control functions or supervise the installation. The enclosed documents relating to Susquehanna Steam Electric Station contain passages that appear inconsistent with TSI's stated policy. However, please understand that TSI did not supervise or perform quality control functions or supervise the installation at Susquehanna. TSI's field service representative was present at Susquehanna for twelve (12) days to provide instruction on setting up the spray equipment and to provide training on the proper method of spraying THERMO-LAG to Stress Skin and nothing more.

Gibbs & Hill Specification 2323-MS-38H, Revision 1, dated 2 April 1981

We have searched our files and have been unable to locate any correspondence regarding exceptions to this specification.

If we can be of any further assistance, do not hesitate to contact us.

Yours truly,



Richard A. Lohman  
Manager of Quality Assurance

RAL/mm  
Enclosures