

APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report No. 50-445/92-05
50-446/92-05

Operating License No. NPF-87

Construction Permit No. CPPR-127

Licensee: Tu Electric
Skyway Tower
400 North Olive Street
Dallas, Texas 75201

Facility Name: Comanche Peak Steam Electric Station (CPSES), Units 1 and 2

Inspection At: CPSES, Glen Rose, Texas

Inspection Conducted: January 27-30, 1992

Inspector: W. M. McNeill, Reactor Inspector, Materials and Quality Programs
Section, Division of Reactor Safety

Approved: I. Barnes 2/12/92
for I. Barnes, Chief, Materials and Quality Programs Date
Section, Division of Reactor Safety

Inspection Summary

Inspection Conducted January 27-30, 1992 (Report 50-445/92-05)

Areas Inspected: No inspection of Unit 1 was conducted.

Results: Not applicable.

Inspection Conducted January 27-30, 1992 (Report 50-446/92-05)

Areas Inspected: Routine, unannounced inspection of procurement, receiving, and storage.

Results: Within the areas inspected, no violations or deviations were identified. In general, the review of procurement, receiving, and storage activities indicated that such activities were well defined and effectively implemented. The use of historical information on component reliability and quality in the procurement process was considered a program strength.

DETAILS

1. PERSONS CONTACTED

TU ELECTRIC

- *L. Bradshaw, Stipulation Secretary
- *H. Bruner, Senior Vice President
- *W. Guldemon, Site Licensing Manager
- *E. Gully, Change Control Manager
- *T. Hope, Unit 2 Licensing Manager
- *C. Killough, Procurement Quality Assurance Manager
- *D. McAfee, Quality Assurance Manager
- *G. Merka, Licensing Engineer
- *D. Pendleton, Unit 2 Regulatory Services Manager
- *B. Poole, Procurement Engineer
- *F. Powers, Procurement Engineering Manager
- *T. Robinson, Material Management Organization Unit 2 Manager
- *J. Simmons, Procurement Quality Engineering Supervisor
- *J. Taylor, Procurement Engineering Supervisor
- *L. Walker, Licensing Engineer
- *J. Wren, Construction Quality Assurance Manager

Bechtel Power Corporation

- B. Maycheck, Warehouse Supervisor

Brown & Root U.S.A., Incorporated

- M. Davenport, Foreman
- D. Korokum, Foreman
- S. Rodriguez, Warehouseman
- P. Skinner, Construction Engineering Assistant Manager
- *K. Williamson, Project Construction Engineer
- R. Wissel, Construction Engineer
- *M. Yancey, Construction Instrument and Control Manager

CASE

- *O. Thero, Consultant

NRC

- *D. Graves, Senior Resident Inspector
- *R. Latta, Resident Inspector
- *R. Vickrey, Reactor Inspector

The inspector also interviewed other employees during the inspection.

*Denotes those persons that attended the exit meeting on January 30, 1992.

2. ACTION ON PREVIOUSLY IDENTIFIED INSPECTION FINDINGS (92702)

(Closed) Deviation (446/9043-02): Technical evaluations and surveillance of Unit 2 engineering activities were not being conducted by Engineering Assurance (EA) as committed to in docketed correspondence.

The licensee discussed the realignment of EA activities and personnel into the Quality Assurance (QA) organization in the response letter to the cited deviation. In the realignment, EA tasks such as technical evaluations and surveillance of engineering were incorporated into the QA organization and program thus reducing the overlap in scope of activities by QA and EA. A recent inspection addressed (see NRC Inspection Report 50-446/92-01) the implementation and effectiveness of QA and EA oversight of contractor engineering activities. The inspector found that these activities were well planned, comprehensive, and technically competent. This item is closed.

3. PROCUREMENT, RECEIVING, AND STORAGE (35065)

The objectives of this inspection were to determine whether equipment specifications included applicable QA and technical requirements identified in the safety analysis report and whether receipt inspection and storage activities were conducted in compliance with QA program requirements. NRC Inspection Report 446/91-06 previously addressed this subject area.

The inspector reviewed the applicable procurement program procedures which are listed in Attachment 1 to this report. TU Electric purchases all safety-related parts, materials, and components to be used on the site. Contractors must obtain safety-related parts, materials, and components through TU Electric. Purchased items are assigned one of six levels (Q1 through Q4, N1 and N2) for procurement. The denoted Q levels pertained to safety-related materials, parts, and components and were, respectively, Q1 for the same as the original project specification requirements, Q2 for replacement items, Q3 for items for which 10 CFR Part 21 reportability is assumed by TU Electric, and Q4 for items for commercial grade dedication. The N levels pertained to nonsafety-related items and consisted of N1 for augmented quality requirements and N2 for standard commercial requirements.

The purchase orders for new materials, parts, and components included and used the original project specification to identify technical, documentation, and quality requirements. Purchase orders for other items identified "Technical and Quality Requirements" in an attachment and documentation requirements in another attachment. The "Technical and Quality Requirements" extracted from the original project specifications requirements such as shelf-life, 10 CFR Part 21 reportability, and storage criteria. Purchase orders for standardized commodities (e.g., fittings) used "Pre-engineered Item Data Sheets" to identify technical, documentation and quality requirements. Procurement QA reviewed purchase orders and their associated documents and assured identification of proper technical, documentation and quality requirements as well as the acceptability of the selected vendor. A "Verification Plan" was developed by Procurement Engineering and approved by QA for each item which established the applicable receipt or source inspection requirements.

The inspector established a sample (see Attachment 2) of 11 items for inspection by review of a project inventory list found in the "Purchasing and Material Management System." The inspector verified that appropriate provisions had been made for the handling and storage of these items in the site warehouses A through C. This review included verification of access controls, housekeeping, fire protection, use of space heaters in electrical motors, shelf-life identification of items, and environmental controls of the warehouses. A tour of four in-progress work locations verified proper temporary storage at in-plant locations.

The inspector reviewed the receipt inspection records for the sampled items with the exception of two which had not been fully processed. It was ascertained from the review of the applicable purchase requisitions, purchase orders, receiving inspection reports, and vendor documentation that the items had been correctly found by qualified inspectors to be in compliance with purchase order and verification plan requirements. The purchase orders were noted to appropriately address technical, quality, 10 CFR Part 21 applicability, and documentation requirements. Receiving inspection addressed such characteristics as shipping damage, identification, and conformance to specified chemical, physical, dimensional, and electrical requirements.

A review of applicable "Approved Vendor Lists" verified the use of accepted vendors for the placement of purchase orders. It was additionally confirmed from vendor audit records that the vendors had been included on the "Approved Vendor List" as a result of satisfactory findings in audits performed by qualified auditors.

The inspector considered the use of the Nuclear Operations Defective Items List (i.e., a list of historical information on components reliability and quality) as a strength in the procurement process. If an item being purchased matched a list item then additional steps were required. A review of the "Critical Characteristics" also indicated another area of program potential strength, in that the program required some independent verification of vendor data of physical, dimensional, and electrical characteristics reported in vendor supplied documentation.

In general, the review of procurement, receiving, and storage activities indicated that such activities were well defined and well implemented.

4. EXIT INTERVIEW

The inspector conducted an exit interview on January 30, 1992, with those personnel denoted in paragraph 1, at which the inspector summarized the findings. The licensee did not identify as proprietary any information presented to the inspector.

ATTACHMENT 1
DOCUMENTS REVIEWED

Chapter 17.1, Final Safety Analysis Report, Revision 83

CPSSES Quality Assurance Manual, Revision 4

PROCEDURES:

NQA 1.16, "Indoctrination and Training of Nuclear Overview Personnel," Revision 6

NQA 1.16-1.01, "Indoctrination, Training and Certification of Auditors and Lead Auditors," Revision 4 with Document Change Notice (DCN) 1

NQA 3.07, "Quality Assurance Audit Program," Revision 7 with DCN 2

NQA 3.09-11.03, "Receiving Inspection," Revision 8 with DCN 1

NQA 3.14, "Control of Vendor Activities," Revision 8

NQA 6.02, "Quality Review of Procurement Documents," Revision 6 with DCN 1

MMO 4.09, "Receipt, Storage, Issues and Shipping of Construction Material, Parts, and Components," Revision 5 with Material Document Change Notices (MDCNs) 1 through 2

MMO 6.02, "Procurement Engineering Processing of Procurement Documents," Revision 3 with MDCN 1

MMO 6.02-01, "Procurement Levels," Revision 0 with MDCNs 1 through 2

MMO 6.02-02, "Procurement Engineering Review of Procurement Documents," Revision 5 with MDCN 1

MMO 6.02-03, "Critical Characteristics Development," Revision 0 with MDCN 1

MMO 6.02-04, "Service Review Summary," Revision 0 with MDCN 1

MMO 6.02-05, "Technical and Quality Assurance Requirements," Revision 0 with MDCNs 1 through 6

MMO 6.02-06, "Preparation of Verification Plans," Revision 0 with MDCNs 1 through 5

STA-151, "Request for Procurement of Items," Revision 1 with Procedure Change Notices (PCNs) 1 through 3

STA-152, "Request for Procurement of Services," Revision 0 with PCN 1

ATTACHMENT 2

<u>TU STOCK NUMBER</u>	<u>DESCRIPTION</u>	<u>INSPECTION REPORT</u>	<u>PURCHASE ORDER</u>
360113	Pipe Flange	RIR 16234	CP-043A
360873	Transformer	RIR 89-0564	665-70164
363963	Pipe	RIR 03057	KER 4668
364752	Electrodes	RIR 19298	CPF-01490-S
365637	Steel	RR 00961	665-72048
366320	Trip Unit	RIR 89-0612	665-71758
367898	Cable	RR 07252 RIR 89-0487	S00079297S1 665-71012
376197	Stud	RIR 20893	CPF-01233-S
377704	Operator	RIR 25713	CPF-01047-S
375478	Relief Valve	NA	NA
376168	Fire Damper	NA	NA