

U. S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF SPECIAL PROJECTS

NRC Inspection Report: 50-445/88-26  
50-446/88-22

Permits: CPPR-126  
CPPR-127

Dockets: 50-445  
50-446

Category: A2

Construction Permit  
Expiration Dates:  
Unit 1: August 1, 1988  
Unit 2: Extension request  
submitted.

Applicant: TU Electric  
Skyway Tower  
400 North Olive Street  
Lock Box 81  
Dallas, Texas 75201

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

Inspection At: Comanche Peak Site, Glen Rose, Texas

Inspection Conducted: April 6 through May 3, 1988

Inspector: *H. S. Phillips* 5/5/88  
H. S. Phillips, Senior Resident Inspector  
Construction Date

Reviewed by: *H. H. Livermore* 5-5-88  
H. H. Livermore, Lead Senior Inspector Date

Inspection Summary:

Inspection Conducted: April 6 through May 3, 1988 (Report  
50-445/88-26; 50-446/88-22)

Areas Inspected: Unannounced, resident safety inspection of (1) applicant action on IE Bulletins (IEBs), (2) general plant inspections, (3) fire prevention/protection, and (4) soils and foundations.

Results: Within the areas inspected, no violations, deviations, or unresolved/open items were identified.

DETAILS1. Persons Contacted

- \*G. G. Davis, Nuclear Operations Inspection Report Item Coordinator, TU Electric
- \*T. L. Heatherly, Licensing Compliance Engineer, TU Electric
- \*L. D. Nace, Vice President, Engineering & Construction, TU Electric
- \*D. M. Reynerson, Director of Construction, TU Electric
- \*A. B. Scott, Vice President, Nuclear Operations, TU Electric

The NRC inspector also interviewed other applicant employees during this inspection period.

\*Denotes personnel present at the May 3, 1988, exit meeting.

2. Applicant Action on IE Bulletins

(Closed) IEB 80-12, "Decay Heat Removal System Operability": This IEB was issued after an operating plant lost all decay heat removal (DHR) capability. The Information and Enforcement Bulletin (IEB) requires operating plants to: (1) identify DHR events experienced, hardware and procedures to prevent DHR loss; (2) implement controls pending Technical Specification revision; and (3) report to the NRC.

This IEB was inspected in NRC Inspection Report 50-445/88-12, 50-446/88-10 but was left open pending a review of test results.

During this inspection, the NRC Senior Residents for construction and operations reviewed the preoperational test results (1CP-PT-58-01 and 02) which demonstrated system operation and DHR during cooldown. NRC NUREG/CR-4005, Closeout of IE Bulletin 80-12: Decay Heat Removal System Operability, also considered this issue resolved. This item is closed.

No violations or deviations were identified.

3. General Plant Inspections (50053, 50073, 51053, 51063, 52053)

At various times during the inspection period, the NRC inspector conducted general inspections of the Unit 1 reactor containment (RCB), safeguards (SGB), auxiliary (AB), electrical control (ECB), and diesel generator (DGB) buildings, the service water intake and the turbine buildings. Selected rooms in these buildings were inspected to observe current work activities with respect to major safety-related equipment, electrical cable/trays, mechanical components,

pipng, welding, coatings, and Hilti bolts. The housekeeping, storage and handling conditions inside these buildings and various outside storage areas were also inspected.

Work activities that were selected for more detailed inspections are described in paragraphs 4 and 5.

No violations or deviations were identified.

4. Fire Prevention/Protection (42051)

The NRC inspector observed plant conditions relative to material and heat source control in all areas described in paragraph 3 above. The plant was free of accumulated combustible materials and fire watch personnel were posted throughout the plant where welding was in process. In addition, the inspector reviewed the results of several TU Electric surveillances of plant conditions which included cleanliness and control of combustible materials.

The inspector observed four cabinets with fire fighting accessories, ventilation equipment, lights, ladders, cutting tools, first aid kits, extension cords, rope, dosimetry, ventilation ducts, fire hoses and air breathing oxygen units Nos. 6, 7, 8, 9 and 10. Fire Fighting Plans, Volumes I and II, were also available in these cabinets.

No violations or deviations were identified.

5. Soils and Foundations (46053)

During this inspection period, the NRC inspector followed up on previous inspection findings as described below.

(Closed) Open Item (445/8715-O-01): A White Deposit on Unit 1 Wall. In August 1987, the NRC inspector noticed a streak of white residue on the wall in the Unit 1 reactor vessel cavity (Room 153, Elevation 783). The inspector pointed this area out to TU Electric and the source was questioned.

Subsequently, nonconformance CC-87-10443, Revision 0, was issued and it stated that mineral deposits were leaking through the protective coating on the walls and ceiling. Samples of the deposits were taken and were sent to Metallurgical Engineering Services, Inc., for testing. The analysis showed that the deposits contained high amounts of calcium, potassium, and sodium. Small amounts of iron, magnesium and silicon plus trace amounts of other elements were found. The area was cleaned on October 14, 1987, and engineering monitored the spots for four weeks but no new deposits reappeared. Engineering has monitored the area for another five months and found nothing.

TU Electric concluded that this leak which was very small and slow was caused by an internal source. The internal source was probably caused by water used in the hydro test, modification to channel, or construction water. No structural or environmental significance was attached to this condition. In addition to the senior resident inspector's review, a NRC inspector responsible for civil structural areas reviewed the significance of this condition and concurred with the closeout. This item is closed.

No violations or deviations were identified.

6. Exit Meeting (30703)

An exit meeting was conducted May 3, 1988, with the applicant's representatives identified in paragraph 1 of this report. No written material was provided to the applicant by the inspectors during this reporting period. The applicant did not identify as proprietary any of the materials provided to or reviewed by the inspectors during this inspection. During this meeting, the NRC inspectors summarized the scope and findings of the inspection.