APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report: 50-445/82-13
50-446/82-07

Docket: 50-445
50-446 Category A2

Licensee: Texas Utilities Generating Company
2001 Bryan Tower
Dallas, Texas 75201

Facility Name: Comanche Peak, Units 1 and 2

Inspection at: Comanche Peak Steam Electric Station

Inspection conducted: July 9, 12, 20, 21, 26 through 29, August 2, and August 5, 1982

Inspectors: _____ 8-26-82
D. P. Tomlinson, Reactor Inspector, Engineering Section (para. 1, 2, 3, 4, 5, 6, 7, 8, & 9) Date

for _____ 8/26/82
M. J. Roberds, Engineering Technician, Engineering Section (para. 2, 4, 5, 6, 7, 8, & 9) Date

_____ 8/26/82
K. A. Whittlesey, Reactor Inspector, Engineering Section (para. 2, 3, & 7) Date

Reviewed: _____ 8-27-82
T. F. Westerman, Chief, Reactor Project Section A Date

Approved: D. M. Hunnicutt, Chief, Engineering Section — 8/26/82 Date

Inspection Summary

Inspection Conducted July 9, 12, 20, and 21, 1982 (Report 50-445/82-13)

Areas Inspected: Routine, unannounced inspection of construction activities including a site tour, review of procedures, review of quality records, observation of work in progress, and review of isometric drawings of components and piping to be examined during the Unit 1 preservice inspection. This inspection involved 48 inspector-hours by two NRC inspectors.

Results: Within the areas inspected, no violations or deviations were identified.

Inspection conducted July 26 through 29, August 2, and August 5, 1982 (Report 50-446/82-07)

Areas Inspected: Routine, unannounced inspection of construction activities including a site tour, review of procedures, review of quality records, examination of completed work, and observation of work in progress. This inspection involved 72 nspector-hours by two NRC inspectors.

Results: Within the areas inspected, no violations or deviations were identified.

DETAILS

1. Persons Contacted

Principal Licensee Employees

*R. G. Tolson, Site Quality Assurance Supervisor, TUGCO
B. G. Scott, Quality Engineering Supervisor, TUGCO
C. T. Brandt, QA/QC Supervisor - Mechanical/Civil, TUGCO
R. A. Perry, Quality Engineer, Preservice Inspection, TUGCO
W. Hartshorn, Quality Engineer, TUGCO

Other Personnel

D. A. Gulling, Preservice Inspection Coordinator, Westinghouse

*Denotes those attending exit interview on August 5, 1982

The NRC inspectors also contacted other licensee and contractor employees during the course of the inspection.

2. Site Tour

The NRC inspectors toured the Units 1 and 2 reactor buildings, auxiliary buildings, and three weld rod issue stations to observe construction in progress, inspect completed work, and observe general housekeeping conditions.

Within the areas inspected, no violations or deviations were identified.

3. Unit 1 Preservice Inspection

The NRC inspectors reviewed the examination program plan for the preservice inspection of Unit 1. This plan, prepared by Westinghouse Electric Corporation, Water Reactor Division, describes the type and extent of examination to be performed on each item during this inspection. ASME Class I and Class II components such as the reactor vessel, steam generators, pressurizer, reactor coolant pumps, valves, piping, and associated hardware are included in the program. The NRC inspector reviewed a series of isometric drawings of the components and piping to be inspected and noted that each weld has been assigned a unique number to assure positive identification for this and subsequent examinations.

At the time of this inspection the Westinghouse procedures for ultrasonic inspection had not received final approval and were not available for review. Westinghouse ISI-11, Revision 10, for liquid penetrant examination

was available and was reviewed. The essential elements for a meaningful inspection and the requirements for inspection personnel were included. The visual and liquid penetrant inspections had been completed on all of the Class I piping welds, but the NRC inspectors opted not to review the records of these until the ultrasonic inspection is in progress or completed and the total inspection record packages for the welds can be reviewed and inspection results compared.

No violations or deviations were identified.

4. Safety-Related Structures - Unit 1

The NRC inspectors toured the Unit 1 auxiliary building and selected nine welds, three on each of three piping supports, for observation of welding operations. The NRC inspectors, by reviewing the traveler packages with each support, verified the identification and location of each weld. The welding procedures in use and the individual welder's identification symbols were compared to the current site qualification matrix to assure that each welder was qualified to perform these operations. The weld filler material being used was found to be as specified in the instructions and on each of the filler material request sheets. No uncontrolled filler material or rod stubs were noted in the area.

No violations or deviations were noted.

5. Safety-Related Structures - Unit 2

The NRC inspectors toured the Unit 2 reactor building and auxiliary building and selected 16 welds, 2 on each of 8 piping supports, for observation of welding operations. Traveler packages for each support were at the job sites, and the work in progress was in accordance with the written instructions. The welds were noted to be identified and located per the attendant drawing for each support. The weld filler material was of the type specified. No uncontrolled rods or rod stubs were observed. The procedure numbers and welder symbols were compared to the qualification matrix. Each welder was found to be qualified to the procedure to which he was working.

The NRC inspectors selected eight completed welds on these same supports for visual examination. The size, shape, length, location, and reinforcement were found to be in accordance with the attendant drawing requirements and notes. No visible surface defects such as excessive undercut, laps,

lack of penetration, cracks or porosity were noted. The quality records for these eight welds were reviewed and found to be complete and adequate for the operations performed.

No violations or deviations were noted.

6. Safety-Related Structures Record Review - Unit 1

The NRC inspectors selected the final record packages for 10 completed piping supports for review. These record packages were retrieved from the record vault files in a timely manner and each package was found to contain an inspection report, as-built drawings, weld filler material sheets, warehouse requests, material identification log, and modification sheets, if applicable. Modification sheets and drawing revisions all contained the required signatures and approvals prior to the date of issuance. All records examined were complete, each entry agreed with available back-up documentation.

No violations or deviations were noted.

7. Personnel Qualification Units 1 and 2

During previous inspections, the NRC inspectors recorded the names of all inspectors and the symbols for all welders involved as well as the dates on which they performed their operations. A total of 7 inspection personnel and 22 welders were noted. These names and dates were compared to qualification records in the vault and each was found to be properly qualified at the time the welding or inspection was performed. Each inspector's file contained the results of a current eye examination for visual acuity and for color discrimination. In the case of one inspector, it was noted that he failed the color discrimination portion of the test but a waiver for this was included as color discrimination was not necessary for the visual inspections he was performing.

No violations or deviations were noted.

8. Weld Filler Material Control Units 1 and 2

The NRC inspectors visited the receiving inspection warehouse and "walked-through" an imaginary lot of weld filler material. This included the isolation of the material in the warehouse, the review of shipping documentation and test reports, verification of chemical content and physical properties data, and QC acceptance of the material. The NRC inspectors toured the locked storage area reserved for accepted material prior to issuance and noted that each lot and type was separated from others

and that each container was clearly marked. No opened or damaged containers were in evidence. The NRC inspectors toured all three onsite rod issue rooms and conducted informal interviews with the attendants. All appeared to have good knowledge of the procedural requirements and the importance of proper material control. In the 3 issue rooms, the NRC inspectors noted that all 10 rod ovens were operational, were equipped with thermometers, and were within the required temperature range. All 10 thermometers displayed stickers indicating current calibration. The doors on each rod oven were marked to indicate the material type and lot number contained in each. Isolated areas in each oven were noted to be reserved for returned material to prevent reissuance prior to the required rebake cycle. Returned rod stubs were placed in a special container and all partially-used rods were destroyed. Several containers of bare wire were inspected and individual rods were all found to have identifying tags that agreed with the identification on the containers. Warehouse release tags were noted on all containers in the rod issue rooms and no uncontrolled filler material was found during this inspection.

No violations or deviations were noted.

9. Exit Interview

An exit interview was conducted August 5, 1982, with those persons listed in paragraph 1. At this interview, the NRC inspectors discussed the scope of this inspection and the findings indicated in the previous paragraphs.