

APPENDIX

U. S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report: 50-445/83-22

Docket: 50-445

Category: A2

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

Facility Name: Comanche Peak, Unit 1

Inspection At: Comanche Peak, Unit 1

Inspection Conducted: April 1-30, 1983

Inspectors: *Dennis L. Kelley* 19 May 83
D. L. Kelley, Senior Resident Inspector Date

Stuart M. McCrory 24 May 83
S. L. McCrory, Reactor Inspector Date
Reactor Project Section A

Approved: *T. F. Westerman* 5/24/83
T. F. Westerman, Chief Date
Reactor Project Section A

Inspection Summary

Inspection Conducted April 1-30, 1983 (Report 50-445/83-22)

Areas Inspected: Routine, announced inspection of (1) Preoperational Test Results Evaluation; (2) Fuel Receipt Preparation; (3) Hot Functional Test; (4) Plant Tours; and (5) Plant Status. The inspection involved 128 inspector-hours by two NRC inspectors.

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

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Details1. Persons Contacted

J. T. Merritt, Startup Manager
 *J. C. Kuykendall, Manager, Nuclear Operations
 *R. E. Camp, Lead Startup Engineer
 *R. A. Jones, Manager, Plant Operations
 R. B. Seidel, Operations Superintendent
 *T. L. Gosdin, TUGCO Public Information Coordinator
 *D. E. Deviney, Operations Quality Assurance Supervisor
 D. W. Braswell, Engineering Superintendent
 W. Nixon, Reactor Engineer

The Senior Resident Reactor Inspector (SRRI) also interviewed other licensee employees during the inspection period.

2. Preoperational Test Results Evaluation

The NRC inspectors reviewed the completed Preoperational Test (PT) packages listed below to determine that: (1) the licensee had adequately evaluated test results; (2) test date met acceptance criteria and that deviations were properly identified and resolved; (3) review procedures were being followed; and (4) licensee's administrative practices with respect to test execution and data evaluation were adequate.

The following PT's were reviewed:

1CP-PT-02-01	118 Volt Class 1E AC Inverters
1CP-PT-02-02	118 Vac RPS Inverters
1CP-PT-02-08	345 kV Startup Transformer and 6.9 kV Class 1E Switchgear
1CP-PT-02-10	480 Volt Class 1E Switchgear and Motor Control Center
1CP-PT-10-01	Demineralized Water System
XCP-PT-24-02	Primary Plant Ventilation Supply System Cooling Coil
1CP-PT-24-04	HVAC Component Response Time
1CP-PT-28-02	Feedwater Isolation Valves
1CP-PT-31-01	Safety Chilled Water System
1CP-PT-32-01	Auxilliary Building HVAC
1CP-PT-36-01	Safeguards Building HVAC
1CP-PT-36-03	SG Building Electrical Area Supply and Exhaust
1CP-PT-36-04	ESF Pump Room Fan Coolers
1CP-PT-37-02	Condensate Storage and Transfer System
1CP-PT-39-01	Diesel Generator Area HVAC
1CP-PT-45-01	Containment Purge Supply and Exhaust
1CP-PT-45-02	Containment Recirculation Cooling System
1CP-PT-45-03	CDRM Ventilation
1CP-PT-45-04	Pre-Access Filtering and RCS Pipe Penetration Cooling
1CP-PT-45-05	Neutron Detector Well Cooling
1CP-PT-46-01	Containment Hydrogen Purge System
1CP-PT-47-02	Refueling Cavity Cooling and Purification

Additionally, the following startup administrative procedures (SAP) were reviewed:

CP-SAP-6, R9	Control of Work on Station Components after Release from Construction to TUGCO
CP-SAP-11, R5	Review, Approval and Retention of Test Results
CP-SAP-14, R8	Design Change Processing
CP-SAP-16, R6	Test Deficiency & Non-Conformance Reporting
w/interim change 4/07/83	
CP-SAP-18, R3	Control of System/Component Problems

The NRC inspectors interviewed TUGCO startup personnel to determine how the administrative systems tracked the status of open or unresolved items that were identified or generated during preoperational testing. The description and demonstration of the tracking methods were consistent with SAP's. SAP 18 required that all problems associated with a system be entered on the master system punchlist (MPS). However, there are several other tracking systems for problems which fall under various categories. Deficiency reports, design change requests, and design change authorization each have separate tracking system. The SAP's governing these systems do not prompt the person identifying a problem to make an entry to the punchlist or refer him to SAP 18. However, there is no evidence that there is a problem with getting entries onto the MSP. Many of the procedures governing these tracking systems do not assign responsibility for periodic review of outstanding and completed items. There appears to be no lack of adequate reviews by management and engineering personnel.

There were no violations or deviations identified in this area of the inspection.

3. Fuel Receipt Preparation

The NRC inspectors conducted a review of the licensee's fuel receipt and handling procedures. In addition, an inspection of the Fuel Building was conducted.

The following procedures were reviewed and comments transmitted to the licensee:

RFO-101, R0	Refueling Organization
RFO-104, R2	Receipt and Shipment of New Fuel
RFO-201, R0	Receipt, Inspection and Storage of New Fuel
RFO-202, R0	Offsite Shipment of New Fuel
RFO-208, R0	Instructions for Completing New Fuel Receipt and Inspection Forms (RFO-201-1, RFO-201-2, RFO-201-3)
RFO-209, R0	Instructions for Completing New Fuel Shipment Forms (RFO-202-1, RFO-202-2)
RFO-301, R2	Handling New Fuel and Shipping Containers During Fuel Receipt Operations

RFO-303, R1	Handling of Rod Cluster Control Assemblies and Core Components
RFO-304, R0	Handling of New Fuel and Shipping Containers During Fuel Shipment Operations
RFO-403, R0	Operating and Checkout Instructions for the Fuel Handling Tools.

In addition, preoperational tests 1CP-PT-40-01, "Fuel Handling Tools & Fixtures," and XCP-PT-81-01, "Fuel Building Overhead Cranes," were reviewed and the testing status verified.

The fuel handling procedures were reviewed and discussions with licensee personnel to ascertain that the following topics had been incorporated:

- a. Fuel building cleanliness
- b. Radiation control
- c. Personnel access control
- d. Security control
- e. Work authorization control

In addition to the broad topics above, the detailed methods of accomplishing these tasks and adequacy of the fuel receipt, inspection, handling, and storage procedures were assessed.

Comments made to the licensee by the NRC inspectors were:

- a. General Fuel Building cleanliness levels, and specifically, the cleanliness level of the fuel inspection station and storage locations.
- b. Cleaning requirements for the fuel shipping containers and truck.
- c. Type of activities to be allowed in the Fuel Building, other than fuel receipt and inspection.
- d. Methods of control over these activities.
- e. Authorization requirements.
- f. Control and authorization of personnel access to the Fuel Building.

An inspection was conducted by the NRC inspectors to ascertain the readiness of the fuel handling and storage facilities to receive and store fuel. At the time of the inspection, cleaning operations had not been completed. Prior to the receipt of the first fuel shipment, an additional inspection will be made.

It is the NRC inspectors intent to monitor, on a continuing basis, the first fuel assemblies. The remainder of the fuel shipments will be monitored on a random basis until all of the Unit 1 core has been received and inspected.

No violations or deviations were identified.

4. Hot Functional Test

The NRC inspectors are continuing to monitor the progress of the Hot Functional Test (HFT). Major milestones accomplished during this reporting period were:

- a. Turbine generator testing
- b. Setting of main steam safety valves
- c. Testing of the pressurizer level and pressure control

No violations or deviations were identified.

5. Plant Tours

During this reporting period, the SRRI conducted several inspection tours of Unit 1. In addition to the general housekeeping activities and general cleanliness of the facility, specific attention was given to areas where safety-related equipment is installed and where activities were in progress involving safety-related equipment. These areas were inspected to ensure that:

- a. Work in progress was being accomplished using approved procedures.
- b. Special precautions for protection of equipment was implemented, where required, and additional cleanliness requirements were being adhered to, where required, for maintenance, flushing and welding activities.
- c. Installed safety-related equipment and components were being protected and maintained to prevent damage and deterioration.

Also during these tours, the NRC inspectors reviewed the control room and shift supervisors' log books. Key items noted in the log review were:

- a. Plant status
- b. Changes in plant status
- c. Tests in progress
- d. Documentation of problems which arise during operating shifts

No violations or deviations were identified.

6. Plant Status

The following is a status of TUGCO manning levels for operations and plant testing activities as of April 30, 1983:

a. Operations Manning Status

Authorized Personnel Level (including maintenance, operations, administration, quality assurance, and engineering) - 473

Number Presently Onboard 416

b. Plant Testing Status

Total Number of Preoperational Tests - 142

Number of Preoperational Tests Through Draft - 138

Number of Preoperational Test Approved (JTG) - 130

Total Number of Acceptance Tests - 48

Number of Acceptance Test Through Draft - 47

Number of Acceptance Test Approved - 46

Test Completion Status

Preoperational Tests - 55

Acceptance Tests - 37

No violations or deviations were identified.

7. Exit Interview

An exit interview was conducted May 2, 1983, with licensee representatives (identified in paragraph 1). During this interview, the SRRI reviewed the scope and discussed the inspection findings.

INSPECTOR'S REPORT
Office of Inspection and Enforcement

KELLEY, DENNIS L

REVIEWER

T.F. WESTERMAN

INSPECTORS
D.L. Kelley
S.L. McCrory

LICENSEE/VENDOR	TRANSACTION TYPE	DOCKET NO. (8 digits) OR LICENSE NO. (BY PRODUCT) (13 digits)	REPORT		NEXT INSP. DATE	
			NO.	SEQ.	MO.	YR.
TEXAS UTILITIES GENERATING Company Comanche Peak S.E.S. Unit #1	<input checked="" type="checkbox"/> I - INSERT <input type="checkbox"/> M - MODIFY <input type="checkbox"/> D - DELETE <input type="checkbox"/> R - REPLACE	0600044883		A		

PERIOD OF INVESTIGATION/INSPECTION						INSPECTION PERFORMED BY		ORGANIZATION CODE OF REGION/HQ CONDUCTING ACTIVITY (See IEMC 0530 Manpower Reporting—Weekly Manpower Reporting for code)		
FROM			TO			1 - REGIONAL OFFICE STAFF	OTHER	REGION	DIVISION	BRANCH
MO.	DAY	YR.	MO.	DAY	YR.	<input checked="" type="checkbox"/> 2 - RESIDENT INSPECTOR		4	C	A
04	01	83	04	30	83	3 - PERFORMANCE APPRAISAL TEAM				
20	25	25	31					33	34	35

REGIONAL ACTION (Check one box only)	TYPE OF ACTIVITY CONDUCTED (Check one box only)		
<input type="checkbox"/> 1 - NRC FORM 591 <input checked="" type="checkbox"/> 2 - REGIONAL OFFICE LETTER	<input checked="" type="checkbox"/> 02 - SAFETY <input type="checkbox"/> 03 - INCIDENT <input type="checkbox"/> 04 - ENFORCEMENT <input type="checkbox"/> 05 - MGMT. AUDIT	<input type="checkbox"/> 06 - MGMT. VISIT <input type="checkbox"/> 07 - SPECIAL <input type="checkbox"/> 08 - VENDOR <input type="checkbox"/> 09 - MAT. ACCT.	<input type="checkbox"/> 10 - PLANT SEC. <input type="checkbox"/> 11 - INVENT. VER. <input type="checkbox"/> 12 - SHIPMENT/EXPORT <input type="checkbox"/> 13 - IMPORT <input type="checkbox"/> 14 - INQUIRY <input type="checkbox"/> 15 - INVESTIGATION

INSPECTION/INVESTIGATION FINDINGS (Check one box only)				TOTAL NUMBER OF VIOLATIONS AND DEVIATIONS	ENFORCEMENT CONFERENCE HELD	REPORT CONTAIN 2 790 INFORMATION	LETTER OF REPORT TRANSMITTAL DATE			
<input checked="" type="checkbox"/> 1 - CLEAR <input type="checkbox"/> 2 - VIOLATION <input type="checkbox"/> 3 - DEVIATION <input type="checkbox"/> 4 - VIOLATION & DEVIATION	A	B	C	A	B	C	A	B	C	D
	0	0		0						

MODULE INFORMATION												MODULE INFORMATION																				
MODULE NUMBER INSP						MODULE REQ. FOLLOWUP						MODULE NUMBER INSP						MODULE REQ. FOLLOWUP														
TYPE	NUMBER	PHASE	MANUAL	CHAPTER	PROCEDURE	NUMBER	LEVEL	PRIORITY	DIRECT INSPEC-TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED	TO DATE	STATUS	PHASE	MANUAL	CHAPTER	PROCEDURE	NUMBER	LEVEL	PRIORITY	DIRECT INSPEC-TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED	TO DATE	STATUS	PHASE	MANUAL	CHAPTER	PROCEDURE	NUMBER	LEVEL			
B	01	3	3	0	7	0	3	A	01013				B	05	3	7	0	5	4	6	0	A	01014	1	0	0						
B	02	3	7	0	3	1	4	A	01416	0	9	0	B	06	3	7	0	5	4	3	B	01014	0	9	0							
B	03	3	7	0	3	2	0	A	0118	0	4	0	B	07	3	7	0	5	5	4	B	01014	0	1	0							
B	04	3	7	0	5	4	5	B	01014	0	7	5	B	08	3	7	0	5	3	9	B	01014	0	1	0							

* CIRCLE SEQUENCE IF VIOLATION OR DEVIATION

MODULE INFORMATION														
MODULE NUMBER INSP										MODULE REQ FOLLOWUP				
REC ORD	NUMBER	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	SEC	PRIORITY	DIRECT INSPEC-TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL
08	3	710	544	3	A		0104	0110						
					B									
					C									
					D									
09	3	710	522	2	B		0104	0120						
					B									
					C									
					D									
19	3	610	501	1	B		0108	0110						
					B									
					C									
					D									
11	3	912	706	1	A		0126							
					B									
					C									
					D									

MODULE INFORMATION														
MODULE NUMBER INSP										MODULE REQ FOLLOWUP				
REC ORD	NUMBER	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	SEC	PRIORITY	DIRECT INSPEC-TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL
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MODULE INFORMATION														
MODULE NUMBER INSP										MODULE REQ FOLLOWUP				
REC ORD	NUMBER	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	SEC	PRIORITY	DIRECT INSPEC-TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL
12	3	711	302	2	B		0120							
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MODULE INFORMATION														
MODULE NUMBER INSP										MODULE REQ FOLLOWUP				
REC ORD	NUMBER	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	SEC	PRIORITY	DIRECT INSPEC-TION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL
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