

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	)	
	)	
TEXAS UTILITIES ELECTRIC	)	Docket Nos. 50-445
COMPANY, <u>et al.</u>	)	50-446
	)	
(Comanche Peak Steam Electric	)	(Application for
Station, Units 1 and 2)	)	Operating License)

TESTIMONY OF JESSE MICHAEL STRANGE  
REGARDING CYGNA REVIEW OF DOCUMENT CONTROL

- Q.1. Please state your name and address.
- A.1. My name is Jesse Michael Strange. I reside at 1102 Green River Trail, Cleburne, Texas. A copy of my professional qualifications is attached to my written testimony.
- Q.2. What was your position at Comanche Peak during the Cygna review of document control last October?
- A.2. I was a Supervising Engineer in TUGCO Nuclear Engineering. In this capacity, I was responsible for the Design Change Tracking Group ("DCTG").
- Q.3. What are the functions of DCTG?
- A.3. DCTG serves primarily two functions. First, it monitors the design verification process by tracking to completion design changes subject to the verification process. Second, it keeps track of which drawings are affected by design changes.

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Testimony of Jesse Michael Strange (2)

Q.4. What is the relationship of DCTG to the Document Control Center ("DCC")?

A.4. DCTG is responsible for inputting into the computer data regarding drawings, drawing revisions and design changes which DCC and its satellites use when providing design documentation. For example, if one of the satellites receives a request for a drawing and design change documentation written against that drawing, the satellite will check the computer to assure that the drawing revision and design change documentation written against it in its files are correct. The information displayed by the computer in response to the satellite request is based on computer input provided by DCTG.

Q.5. Are you familiar with the list of documents Cygna provided in advance of its October review of document control?

A.5. Yes. I knew that Cygna provided us with a list of documents in advance of their October review of DCC. I first learned about the list from Heyward Hutchinson, with whom I spoke on Monday, October 24. Mr. Hutchinson told me that he was given a list of documents from Cygna which they would be using in their review of document control. The following day, I was in Frank Strand's

Testimony of Jesse Michael Strange (3)

office. During mid-afternoon, Steve Bibo of Cygna came into the office and I recall seeing the list of documents.

Q.6. Do you recall if Mr. Strand did anything with the list?

A.6. I believe that when I was in his office he called his DCC staff and Ms. Hatley. I do not recall if he said anything to Ms. Hatley. I was meeting with Mr. Strand and Mr. Hutchinson on other matters and I was not paying close attention to what was done with the list.

Q.7. Were you given a copy of the list?

A.7. No.

Q.8. Was anyone else in DCTG given a copy of the list?

A.8. No. There are only three employees in DCTG, and we work closely together. Therefore, I should have known if they received the list.

Brown & Root, Inc.

J. MICHAEL STRANGE  
Engineering Consultant

#### SUMMARY OF EXPERIENCE

Twelve (12) years experience in the construction industry with emphasis in Project Controls, Engineering and Material Management. Background includes determination of technical requirements for major event schedule support for all disciplines, Planning and Scheduling, and cost control. Has detailed Production Control experience in piping/pipe hanger fabrication and installation, machine shop control methods, valve refurbishment, and pump/motor overhaul. Has materials experience encompassing inventory management, procurement, subcontracts administration and materials analysis. Has eight (8) years supervisory experience. Currently serving as Engineering Consultant to Texas Utilities, Inc. - Comanche Peak Steam Electric Station.

#### PROJECT TYPES

Nuclear Power Plants  
Fossil Power Plants  
Submarine Overhaul and Maintenance  
Submarine New Construction  
Surface Ship (AS) Overhaul

#### ACTIVITIES

Engineering Management  
Planning and Scheduling  
Production Control  
Production Planning  
Materials specialist  
Procurement  
Sub-Contracts Administration

#### PERSONAL DATA

Born July 1, 1948  
Meridian, Mississippi  
Two (2) years college  
Meridian Jr. College  
Mississippi Gulf Coast  
Jr. College, Business  
Administration  
Employer Sponsored Courses  
in Management, Planning  
and Scheduling, Steel  
Shipbuilding, Blueprint  
Reading  
Various Seminars including  
Cost Schedule Control  
Systems Criteria  
Married, Two Children

#### EMPLOYMENT HISTORY

Brown & Root, Inc	Since May 1979
Ingalls' Shipbuilding	4 years
Anisco, Inc.	1 year
Ingall's Shipbuilding	4-1/2 years

SOCIAL SECURITY NO. 427-96-6630

November 1983

J. MICHAEL STRANGE  
Engineering Consultant

DETAILED PROFESSIONAL EXPERIENCE

Brown & Root, Inc. - Since May 1979

Supervising Engineer - TUSI Nuclear Engineering - Comanche Peak Steam Electric Station

Currently employed in the implementation of the permanent site engineering organization for CPSES. Duties include:

- a) Management of the transfer of engineering documents from the architect/engineer to the site engineering organization;
- b) Administrative supervision of the project field design change and drawing update program through completion of design verification and drawing incorporation;
- c) Preparation of permanent engineering procedures;
- d) Maintenance of permanent plant engineering records;
- e) Supervision of civil engineering for permanent plant building additions.

Manager - Power Group Planning & Scheduling

Responsible for power group planning & scheduling policy, schedule preparation, and management of power group scheduling personnel.

Project Controls Manager

Developed procedural requirements for Power Project Control Systems including integrated cost/schedule control and reporting requirements. Performed initial project controls set-up on power engineering and construction projects. Additional duties included proposal preparation and capability presentations to prospective clients.

Planning and Scheduling Supervisor

Responsible for the integration of Planning and Scheduling and Production Control techniques, and the development/implementation of Power Project Master schedules. Performed an in-depth review of project quantity reporting methods. Organized and directed the initial implementation of construction work packaging and quantity control for the South Texas Nuclear Project.

Brown & Root, Inc., 10200 Bellaire, Houston, Texas  
Assigned to Power Group Home Office, Project Controls Staff

J. MICHAEL STRANGE  
Engineering Consultant

DETAILED PROFESSIONAL EXPERIENCE (Continued)

Production Control Quantity Tracking Supervisor

Organized, staffed, and trained a functioning mechanical Production Control section that is responsible for daily reporting of commodity installation and fabrication; coordination of prerequisite documentation and material allocation; and maintaining current status of designed, installed, and to-go quantities of construction commodities. Implemented new methods of field quantity progress reporting and control.

Production Control Scheduler

Tasked with determination of existing and potential bottlenecks in the piping fabrication process. Recommended and implemented improved methods of drawing issue, documentation preparation and material control, emphasizing alignment of support activities to the Production Schedule.

Texas Utilities Services, Inc., Glen Rose, Texas  
Comance Peak Units 1 & 2, 2300 MW Nuclear Power Plant.

Ingall's Shipbuilding, Pascagoula, Mississippi - 1975 - 1979

Materials Specialist/Buyer

Responsible for procurement and expediting of critical material shortages in support of submarine overhaul. Analysis of long lead material to include development of work around plans and substitute materials. Sub-contracts administration of shipboard vendor services and repairs.

Chief Production Control Planner, Submarine Pipe Department

Responsible for material coordination, schedule implementation, production manhour control, and timely work completion of all shipboard and shop work for submarine overhaul pipe department. Supervised twelve Production Control Planners. Radiation control qualified.

Supervisor Submarine Production Control

Responsible for preparation, issuance, and maintenance of all submarine overhaul work packages, major event outstanding work lists, statistical reports and progress charts. Chaired and conducted production meetings. Supervised 20 employees including Senior Planners, Production Control Planners, and Technicians.



J. MICHAEL STRANGE  
Engineering Consultant

DETAILED PROFESSIONAL EXPERIENCE (Continued)

Anisco, Inc., Columbia, South Carolina - 1974 to 1975

Owner/Manager - Softgoods Wholesale/Retail Business

Ingall's Shipbuilding, Pascagoula, Mississippi - 1970 to 1974

Senior Production Control Planner

Duties included preparation and maintenance of master outstanding work lists to support major events in submarine new construction. Developed detailed schedules and coordinated craft, material support, and engineering work activity to insure on schedule completion of major events.

Production Control Planner

Joined Submarine Production Control at its inception. Was instrumental in basic preparation/formulation of departmental procedures and concepts for the Production Control organization.