

COMANCHE PEAK
STEAM ELECTRIC STATION
QUALITY ASSURANCE
PLAN

TEXAS UTILITIES GENERATING COMPANY
TEXAS UTILITIES SERVICES INC.

TEXAS UTILITIES GENERATING COMPANY

2001 BRYAN TOWER - DALLAS, TEXAS 75201

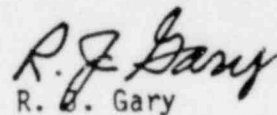
May 21, 1981

Statement of Authority

This Quality Assurance Plan establishes the Comanche Peak Steam Electric Station (CPSES) quality assurance system to be used by Texas Utilities Generating Company in performing design, engineering, procurement, fabrication, and construction activities in conformance with the requirements of the United States Code of Federal Regulations, the ASME Boiler and Pressure Vessel Code, and other applicable industry codes and standards.

The authority to implement the requirements of this plan is delegated to the Manager, Quality Assurance, who has the complete support of the company's management and will, by organizational arrangement, be kept free from cost and scheduling influences. His authority, as defined in the program, extends to all quality assurance activities performed by and for TUGCO. Decisions on such activities are made in the name of this company, and may be overruled only by the Vice President, Nuclear or the undersigned.

All persons associated with safety-related activities at CPSES should familiarize themselves with the policies, procedures, and guidelines established by this manual, and will be responsible for executing those requirements that are pertinent to their respective assignments.



R. F. Gary

Executive Vice President and
General Manager, TUGCO



THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Certificate of Accreditation

Number **OWN** - 121

This is to accredit

TEXAS UTILITIES GENERATING COMPANY
2001 BRYAN TOWER
DALLAS, TEXAS 75201

as authorized to complete FORM N-3 OWNERS DATA of
The American Society of Mechanical Engineers for filing
with the enforcement authority having jurisdiction at:

COMANCHE PEAK STEAM ELECTRIC STATION, UNIT #2
GLEN ROSE, TEXAS

in accordance with the applicable rules of the Boiler and Pressure Vessel
Code of The American Society of Mechanical Engineers. The accredita-
tion granted by this certificate is subject to the provisions of the
agreement set forth in the application. The System for which Form N-3
was signed shall have been built strictly in accordance with the provisions
of the Boiler and Pressure Vessel Code of The American Society of
Mechanical Engineers.

THIS ACCREDITATION expires on MAY 26, 1985

Authorized on MAY 26, 1976 for
RENEWED: APRIL 9, 1979 & APRIL 9, 1982

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
by the BOILER AND PRESSURE VESSEL COMMITTEE



Chairman *Walter L. Harding*

Secretary *LM Eisenberg*

Director,
Accreditation *Glenn A. Spadafino*



THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Certificate of Accreditation

Number **OWN** - 120

This is to accredit

TEXAS UTILITIES GENERATING COMPANY
2001 BRYAN TOWER
DALLAS, TEXAS 75201

as authorized to complete FORM N-3 OWNERS DATA of
The American Society of Mechanical Engineers for filing
with the enforcement authority having jurisdiction at:

COMANCHE PEAK STEAM ELECTRIC STATION, UNIT #1
GLEN ROSE, TEXAS

in accordance with the applicable rules of the Boiler and Pressure Vessel
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Director,
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TUGCO/TUSI
CPSES QUALITY ASSURANCE PLAN
APPROVAL AND INSTRUCTIONS

Approved

D. A. Chapman
Manager, Quality Assurance

Date: May 6, 1982
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REMOVE AND DESTROY

Certification of Authorization N-1395
(Expiring on May 26, 1982)

Certification of Authorization N-1396
(Expiring on May 26, 1982)

Approval and Instructions
dated May 21, 1981

List of Effective Pages, R7

Section 1.1

Figure 1.1, R6
Figure 1.2, R6

INSERT IN MANUAL

Certification of Authorization OWN-120
(Expiring on May 26, 1985)

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(Expiring on May 26, 1985)

Approval and Instructions
dated May 6, 1982

List of Effective Pages, R8

Section 1.1

Figure 1.1, R7
Figure 1.2, R7

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QUALITY ASSURANCE PLAN

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QUALITY ASSURANCE PLAN

Terms And Abbreviations

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Terms and Abbreviations

A description of the terms and abbreviations used in this manual is provided below to clarify the intended meaning.

bid evaluation - A formal evaluation of proposals received in response to an inquiry to determine the vendor to whom the purchase order will be awarded.

closed items - Refers to a completed action or activity which has been signed off (approved) and dated.

Code - The ASME Boiler and Pressure Vessel Code, Section III, XI.

corrective action - Any appropriate measure applied for the purpose of making unlikely the possibility of a recurrence of the initial discrepancy.

Examples are:

- a. Revision of procedures, practices, and/or design documents,
- b. Increased surveillance of procedures and practices,
- c. Work stoppage until problem situation is alleviated,
- d. Special training of personnel,
- e. Reassignment of personnel.

design review - Design review means the critical review of the design output such as a drawing, calculation, analysis or specification, in order to provide further assurance that the actions leading to the output have been satisfactorily performed and the information included in the design output is correct and complete.

inquiry - A transmittal to a proposed vendor of the procurement package for a component, system, or structure, including drawings, specifications, quality assurance provisions and other requirements seeking bids.

inspection - The act of verifying the conformance of a material, structure, component or system to its requirements. Inspection is inclusive of examination and test.

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nonpermanent quality assurance records - Those records which do not meet any of the criteria for permanent records.

nonconformance - A discrepancy, shortcoming, insufficiency or defect in characteristic, documentation or procedure which renders the quality of an item unacceptable or indeterminate. Examples are:

- a. Physical defects,
- b. Failure to meet acceptance criteria,
- c. Test failures,
- d. Incorrect or inadequate documentation,
- e. Deviations from prescribed processing, inspection or test procedures.

open items - Refers to an incomplete action.


overall responsibility for construction - The responsibility assumed by an organization for conformance to the project requirements when several organizations are involved. This includes the overall responsibility for structural integrity and design when a component is contracted to a qualified organization. Assumption of overall responsibility by TUGCO/TUSI does not negate the responsibility of a contractor performing design, procurement, or manufacturing functions for compliance with project requirements, nor does it relieve the Professional Engineer who certifies Design Specifications or Stress Reports of his responsibility. Assumption of overall responsibility by TUGCO/TUSI implies responsibility for code and regulatory compliance and is not to be construed as involving contractual or legal liabilities.

permanent quality assurance records - Permanent records are those which meet one or more of the following criteria:

- a. Those which would be of significant value in demonstrating capability for proper functioning of safety related items.
- b. Those which would be of significant value in maintaining, reworking, repairing, replacing, or modifying the item.
- c. Those which would be of significant value in determining the cause of an accident or malfunction of an item.
- d. Those which provide required baseline data for inservice inspection.

pre-award surveys - an evaluation performed to determine a vendor's capability to supply this equipment or service in compliance with necessary quality assurance requirements. This may involve evaluation of a vendor's history, experience or performance of actual inspection at the vendor's facility.

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procedure - Refers to either an implementing procedure in the CPSES QA Plan, or a construction site implementing procedure which describes or specifies how an activity is to be performed.

procurement documents - Those documents, including bidders lists, specifications, inquiries, proposals, and purchase orders, associated with procurement activities.

proposal - An offering made by a prospective vendor in response to an inquiry. Proposals will include a description of the vendor's quality assurance program.

purchase order (or contract) - A contractually binding document that identifies and defines requirements which items or services must meet in order to be considered acceptable by the purchaser.

quality assurance records - Those records which furnish documentary evidence of the quality of items and of activities affecting quality.

reportable deficiencies - Nonconformance which constitute a deficiency as defined in 10CFR50, Part 50.55(e).

revision - (to the CPSES QA Plan) - Any significant change to the QA Plan manual.

specification - A concise statement of a set of requirements to be satisfied by a product, a material or process indicating wherever appropriate, the procedure by means of which it may be determined whether the requirements given are satisfied.

vendors list - A listing of approved vendors that are considered qualified and are eligible to supply safety related equipment.



QUALITY ASSURANCE PLAN

Organization and Responsibilities

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1.0 Organization and Responsibilities

The general responsibilities of the primary organizations involved in the design and construction of CPSES are described below:

1. Texas Utilities Generating Co. (TUGCO) has overall responsibility for design, procurement, construction and overall quality assurance. Texas Utilities Services, Inc. (TUSI), as the Texas Utilities Company (TU) engineering service organization, has been designated by TUGCO to have responsibility for engineering & construction activities for CPSES. TUSI performs design and design verification activities on selected contracts. The design and design verification function on most contracts has been delegated to Gibbs & Hill, Westinghouse, and other contractors as required. TUSI performs a second level design review of these activities to monitor the performance of the contractors. TUGCO audits TUSI and contractors to verify compliance with the requirements of the TUGCO/TUSI Quality Assurance Plan and project requirements.
2. Westinghouse designs, engineers, manufactures, and delivers the NSSS and furnishes drawings and other related services. Westinghouse provides the QA program for the NSSS structures, systems, and components.
3. Gibbs & Hill provides engineering services and design and procurement support services for the balance of plant, as requested by TUSI. This includes providing conceptual design, design drawings and specifications, inquiry preparation, bid evaluation, and quality assurance services for design and procurement. Gibbs and Hill provides the QA program for QA activities within the Gibbs and Hill scope of work. The G&H QA program conforms with the overall TUGCO QA program.
4. Brown & Root provides construction services to construct CPSES from plans and specifications provided by Westinghouse and Gibbs & Hill. These services include receiving, handling, storage of material, erection, installation, procurement of materials as designated by TUSI, and administration of subcontracts to B&R. Brown & Root provides the QA program for ASME Code work and provides QA functions as requested by the TUGCO QA Manager. The B&R QA Program conforms with the overall TUGCO QA program.

Figure 1.2 defines the interfaces that exist within and between the organizations participating in the design, engineering, procurement, and construction activities at CPSES.

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Organization and Responsibilities

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The TUGCO/TUSI organizations participating in the design and construction phase of nuclear power plants are shown in Figure 1.1. This chart illustrates the structure and lines of reporting for each organization. These are listed below and are described in the corresponding sections which follow:

- 1.1 Quality Assurance Division
- 1.2 Project Management

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QUALITY ASSURANCE PLAN

Quality Assurance Division

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1.1 Quality Assurance Division

The Quality Assurance Division is responsible for the development, assurance of implementation, management, and surveillance of the Quality Assurance Plan for TUGCO/TUSI nuclear power plant projects. TUGCO retains responsibility for those portions of the QA Plan delegated to others. In these cases, the TUGCO QA Division shall perform initial evaluation and subsequent audits of the contractor's QA programs.

The QA Division is independent from those TUGCO/TUSI organizations responsible for design, procurement, engineering, construction, and operation (see Figure 1.1). With quality assurance as the sole function of this organization, the TUGCO Quality Assurance Manager and his staff are free from the responsibilities of cost and scheduling. The QA Division has the freedom and authority to: a) identify quality problems; b) initiate corrective action; c) verify implementation of corrective action; and, d) control further processing, delivery, or installation of a nonconforming item, deficiency, or unsatisfactory condition until proper disposition has been made.

The Quality Assurance Manager reports to the Vice President, Nuclear. This reporting arrangement assures that the QA Manager and his staff have direct access to the levels of management necessary to assure effective implementation of the QA Plan. The Quality Assurance Manager has ultimate responsibility for the effectiveness of all quality related activities on the CPSES project and has "stop work" authority in the engineering, procurement, and construction phases of the project. Reporting directly to the Quality Assurance Manager are the:

- * Supervisor - Quality Assurance Services
- * Supervisor - Vendor Compliance
- * Engineer - Special Projects
- * Site QA Supervisor

The duties, responsibilities, and authorities of each Supervisor and Engineer are described below.

a. Supervisor - Quality Assurance Services

- * Performs audits of TUGCO/TUSI, prime contractors, and vendors to assure that safety related work is performed in compliance with requirements.
- * Performs quality assurance surveillance on design, procurement and construction activities at CPSES.
- * Evaluates quality assurance programs, identifies weaknesses, and determines the adequacy of corrective action submitted by prime contractors and vendors.

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QUALITY ASSURANCE PLAN

Quality Assurance Division

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- * Develops and maintains the CPSES QA Plan and the quality assurance portion of the safety analysis report.
 - * Verifies and documents training of TUGCO quality assurance personnel.
 - * Assists others in the development of programs and procedures.
 - * Reviews technical codes and standards for impact on the Quality Assurance Plans and recommends appropriate changes.
 - * Prepares formal responses to NRC Inspection Reports and items reported under 10 CFR 50.55(e).
- b. Supervisor - Vendor Compliance
- * Performs surveillance of hardware during manufacture.
 - * Performs final release inspections of hardware before final shipment is made.
- c. Special Projects Engineer
- * Performs special projects as assigned by Manager, Quality Assurance.
 - * Develops Fossil QA Program.
- d. Site QA Supervisor
- * Supervises, coordinates and assures implementation of the Quality Assurance and Quality Control Functions at the CPSES site.
 - * Assists the Manager, Quality Assurance in the development and implementation of the Comanche Peak Quality Assurance Plan as it relates to site construction and site engineering activities.
 - * Develops procedures and instructions necessary to assure implementation of QA and QC functions at the CPSES site.
 - * Is delegated the authority to stop work on site if required for resolution of quality related problems.
 - * Indoctrinates and trains site QA and QC personnel in accordance with applicable codes and standards.
 - * Assists the Manager, Quality Assurance in evaluating the overall effectiveness of the site Quality Assurance and Quality Control functions.
 - * Coordinates Quality Assurance and Quality Control functions with responsible management at the CPSES site.

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QUALITY ASSURANCE PLAN

Project Management

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1.2 Project Management

The Vice President and Project General Manager is responsible for the coordination and control of the engineering, procurement, and construction activities of the Comanche Peak Steam Electric Station Project. The Vice President and Project General Manager retains responsibility for cost and schedule and is charged with insuring that TUSI, prime contractors, subcontractors, and vendors meet quality requirements during design and construction. The Vice President and Project General Manager reports to the TUSI Executive Vice-President.

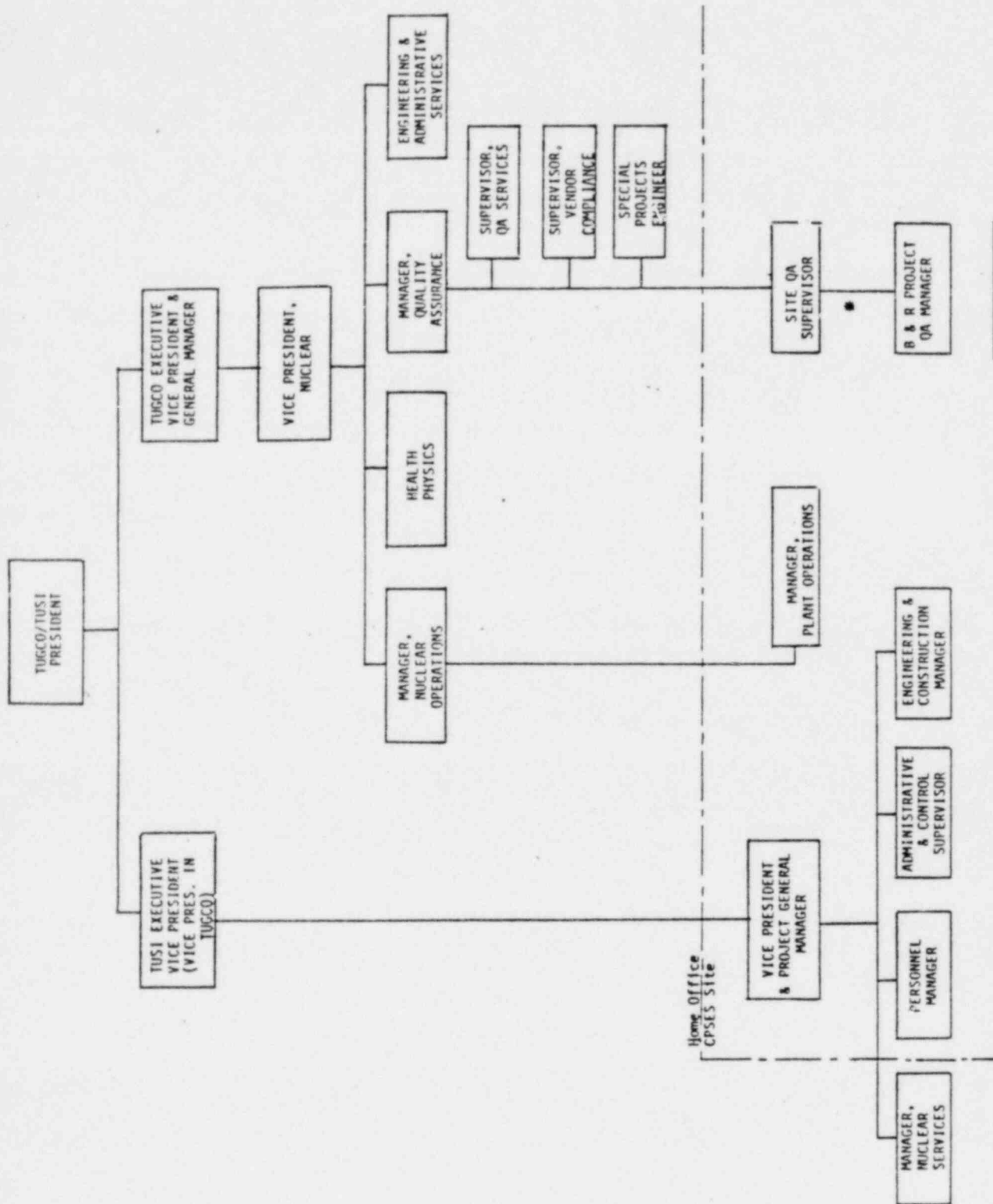
The Vice President and Project General Manager has the authority to "stop work" in the engineering, procurement, and construction phases of the project.

The Vice President and Project General Manager reviews the status of the project with the TUSI Executive Vice-President, on a regular basis.

1.2.1 Engineering and Construction Manager (TUSI)

The Engineering and Construction Manager is responsible for the Comanche Peak Steam Electric Station design, engineering and procurement. These activities are normally delegated to Gibbs & Hill, Inc., Westinghouse and other contractors/vendors. TUSI however retains overall responsibility for these activities and performs design functions as necessary. The Comanche Peak Engineering and Construction Manager reports to the Vice President and Project General Manager. His specific duties and responsibilities are as follows:

- * Provides technical direction and administrative guidance to Comanche Peak Project representatives assigned to his group.
- * Provides the interface between engineering, procurement and construction.
- * Monitors the performance of the design, procurement and construction organizations as to functional and contractual intent.
- * Reviews and approves appropriate procurement documents that provide necessary services, equipment and material.
- * Has authority to "stop work" in the engineering, procurement and construction phases of the Comanche Peak Project.
- * Is designated to act for the Comanche Peak Steam Electric Station Vice President and PGM in his absence.

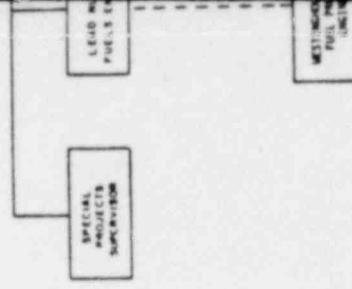


Home Office
CPSES Site

APPROPRIATE
FOR OTHER TUGCO AND
TUGCO'S ACTIVITIES ONLY

CONTRACTOR PERM. S.E.E.
NUCLEAR PLANT
UNIT 1 and 2
TUGCO/TUST HOME OFFICE
TUGCO/TUST FIELD ORGANIZATION
FIGURE 1.1

REV. 7



ALPHABETICALLY
COORDINATION
(1) IN HOUSTON
(2) IN NEW YORK

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QUALITY ASSURANCE PLAN

Quality Assurance Plan

SECTION: 2.0

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2.0 Quality Assurance Plan

This manual describes the quality assurance system applicable to safety related design, procurement, and construction activities at the Comanche Peak Steam Electric Station. The Quality Assurance Plan documented by this manual and implementing procedures encompasses the activities performed by TUGCO/TUSI, and those activities performed by prime contractors, subcontractors, and vendors. The Plan provides for accomplishing activities under suitably controlled conditions such as appropriate equipment, suitable environmental conditions, and assurance that prerequisites for an activity have been satisfied. The activities shall be documented by and accomplished in accordance with approved procedures, instructions, or drawings. A program has been established for quality assurance indoctrination and training which assures that the required level of personnel competence is achieved and skill is maintained in the performance of quality related activities. Managers and supervisors are responsible for training to assure that personnel achieve and maintain the proficiency and qualifications required for the quality-related activities performed.

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QUALITY ASSURANCE PLAN

Control of the Quality Assurance Plan

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2.1 Control of the Quality Assurance Plan

The Manager, Quality Assurance shall be responsible for the preparation, revision, review, approval, and distribution of this Quality Assurance Plan. Requests for revisions to this manual shall be directed to the Manager, Quality Assurance. To assure the timely incorporation of proposed revisions, the cognizant managers and supervisors are responsible for requesting necessary revisions to the manual as the need is identified.

Control of issue and subsequent revisions shall be in accordance with approved procedures.

Should a holder's requirement for a manual cease due to transfer, retirement, termination, etc., he shall return his copy promptly to the Manager, Quality Assurance.

COMANCHE PEAK STEAM ELECTRIC STATION



QUALITY ASSURANCE PLAN

Design Control

SECTION: 3.0

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3.0 Design Control

The design control process for CPSES begins with Gibbs & Hill, as Architect - Engineer, Westinghouse, as NSSS supplier and TUSI as Texas Utilities Company's engineering service organization. Overall responsibility for construction however, remains with TUGCO/TUSI. The design control process is an ongoing function which includes design criteria, design review, and design change. This process is carried out in accordance with established procedures.

3.0.1 Design Criteria

The preparation, review, approval, and certification of design specifications are normally contracted to Gibbs & Hill and Westinghouse. TUSI performs design and design verification activities on selected contracts. To the extent applicable, the design criteria will be consistent with that specified in the license application and will utilize the requirements of recognized codes, standards, and practices. The responsible design organization translates these design specifications into appropriate instructions, procedures, drawings, or specifications. This function includes design interface control as well as the generation, review, checking, approval and revision of design and construction specifications, and design drawings.

3.0.2 Design Review

The responsible design organization reviews respective designs for conformance to design concepts, licensing design criteria, and regulatory criteria. The design reviews are performed by individuals or groups other than those who performed the original design. Changes to design specifications or documents are reviewed and approved by the same individual or group responsible for original review and approval.

3.0.3 Design Change

Changes to the design are documented, reviewed, and approved by the original designers commensurate with the controls applied to the original design. These controls extend to the disposition of field changes and nonconformances. Approved changes are incorporated into or identified on the original design document.

The TUGCO QA Division assures that the design process including design changes is performed in accordance with approved procedures. Gibbs & Hill and Westinghouse quality assurance organizations audit their respective design organizations to ensure compliance to approved procedures and instructions.

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QUALITY ASSURANCE PLAN

Procurement Document Control

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4.0 Procurement Document Control

Four principal organizations will be involved with the procurement of items and services related to nuclear safety during design and construction. These organizations are:

- *TUGCO/TUSI
- *Gibbs & Hill (Architect-Engineer)
- *Westinghouse (Nuclear Steam Supply System Vendor)
- *Brown & Root (Constructor)

TUGCO/TUSI retains overall responsibility for assuring the adequacy of the procurement program.

Procedures shall identify the responsibilities and actions required of the organizations originating, reviewing, approving, and controlling procurement documents. These procedures shall require the procurement documents to specify as appropriate:

- *The scope of work to be performed.
- *Use of approved vendors.
- *Technical requirements (by specifying or referencing) which shall include the revision numbers of applicable drawings, specifications, procedures, instructions, codes, or regulations, and provide for identification of applicable test, inspection and acceptance requirements, or other special instructions.
- *QA Program requirements to be imposed on contractors which shall include the applicable portions of 10 CFR 50, Appendix B, and NA 4000 or NA 3700.
- *Right of access which provides, as appropriate, for access to contractor facilities and records for inspection or audit by TUGCO or its designated representative, and to access for events such as witness and hold points.
- *The documentation required to be prepared, maintained, and submitted to TUGCO/TUSI or its representative for review, approval, or historical record. The time of submittal of this documentation and the retention and disposition of quality assurance records which will not be delivered to TUGCO/TUSI shall be included.

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QUALITY ASSURANCE PLAN

Procurement Document Control

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*Provision for extending applicable requirements of the procurement documents to lower tier subcontractors and suppliers, including purchaser's access to facilities and records.

Procurement documents shall be reviewed to assure that the appropriate provisions mentioned above are included.

Changes to procurement documents, whether initiated by TUGCO/TUSI or their representative, shall be subjected to the same degree of control as that utilized in the preparation of the original document.

The procurement organization shall verify that the procurement document has been reviewed and approved, and that Quality Assurance has approved the purchase order for safety related material, equipment or services prior to issuing.

4.0.1 Inquiry Preparation

The originating organization shall prepare an inquiry package for items to be procured using approved specifications and/or drawings. The inquiry package shall contain applicable drawings and/or specifications. The specific issue dates and applicable addenda shall be either attached or referenced.

The inquiry shall contain the minimum information specified by procedures and shall include or reference applicable quality requirements.

4.0.2 Bidder Selection

Upon receipt of a properly authorized inquiry, the purchasing organization transmits the inquiry to bidders.

4.0.3 Supplier Selection

The purchasing organization is responsible for the evaluation of proposals on bids originated. Proposals requiring engineering review shall be transmitted for evaluation as defined by applicable procedures. When a vendor proposal includes exceptions to quality requirements, it shall be submitted for review and evaluation.

4.0.4 Purchase Order

The purchasing organization prepares and issues a purchase order after evaluation of commercial terms and considerations, and obtaining technical evaluation when required. A purchase order for safety related items shall not be issued to a vendor unless Quality Assurance has evaluated and accepted the purchase order. The QA reviewer will determine whether QA provisions are adequate and will determine any necessary pre-award evaluations consistent with the vendors activities in supplying equipment, materials or services.

COMANCHE PEAK STEAM ELECTRIC STATION



QUALITY ASSURANCE PLAN

Instructions, Procedures, and Drawings

SECTION: 5.0

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5.0 Instructions, Procedures, and Drawings

The quality assurance actions accomplished under the CPSES QA Plan as described throughout this manual shall be delineated in documented instructions, procedures, drawings, specifications, checklists or manuals, as appropriate. Changes shall be reviewed for their effect on present instructions, procedures, and/or drawings. The Architect-Engineer, other contractors, or a TUGCO/TUSI organization may prepare, revise, review and internally approve documents associated with the quality related activities they will perform. These activities shall also be conducted in accordance with approved procedures.

COMANCHE PEAK STEAM ELECTRIC STATION



QUALITY ASSURANCE PLAN

Document Control

SECTION: 6.0

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6.0 Document Control

The distribution and control of documents shall be accomplished as described in the applicable procedures. Controlled documents shall be reviewed for adequacy and approved for release by authorized personnel. These documents shall be distributed to and used at the location where the prescribed activity is performed.

Procedures require that each controlled document be identified on a distribution list showing all pertinent information regarding the document such as the title, revision number, and the individual or organization to which the document has been distributed. A document receipt or manual insertion system shall be used to assure that initial issue and subsequent revisions are received by the controlled document holder.

Changes to documents shall be reviewed and approved by the same organization responsible for the original document or by the owner's designee. Distribution and control of revised documents shall be in the same manner as the original document except that superseded documents shall either be destroyed or clearly marked to avoid inadvertent use.

Gibbs & Hill, Westinghouse, and Brown & Root are responsible for implementing quality assurance programs off-site that ensure appropriate documents are controlled and that changes required as a result of comments, nonconformances, or engineering work are incorporated into revised documents. The off-site quality assurance programs will be audited by TUGCO QA to ensure conformance to these requirements.

COMANCHE PEAK STEAM ELECTRIC STATION



QUALITY ASSURANCE PLAN

Control of Purchased Items and Services

SECTION: 7.0

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7.0 Control of Purchased Items and Services

Procurement activities associated with items procured off-site for installation are performed by TUGCO/TUSI or are contracted to Gibbs & Hill, Westinghouse, or Brown & Root who are surveyed and qualified by TUGCO. Procurement documents are reviewed, approved, and controlled as described in Section 4.0. Receipt inspection of safety related items on site is performed in accordance with written procedures and checklists.

Procurement source evaluation and selection measures include the selection of the Nuclear Steam Supply System Supplier, the Architect-Engineer, and the Constructor. Requirements for source evaluation and approval of vendors are specified in TUGCO procedures.

Periodic evaluations are conducted to assure that the vendor's quality performance continues to warrant retention of his approved status.

This evaluation program includes provisions for audit, surveillance, source inspection, and receipt inspection as necessary.

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QUALITY ASSURANCE PLAN

Identification & Control of Items

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8.0 Identification & Control of Items

Appropriate requirements have been established to assure continuous and accurate identification and control of safety-related items and that the use of incorrect or defective items is prevented.

Procedures establish responsibilities and requirements for the identification and control of items. These procedures provide that:

- *Requirements for traceability to appropriate documentation such as: procurement documents, manufacturing documents, drawings, specifications, inspection and test records, and nonconformance reports.
- *Controls to assure that the correct identification of an item is verified and documented prior to release for fabrication, assembly, shipping or installation.
- *Requirements which assure that the method or location of markings do not affect the function or quality of an item.
- *Establishment of identification requirements by specifications, drawings, procurement documents, instructions, or procedures during initial planning.
- *Transfer of identification prior to division of an item to maintain identity.

Suppliers are required to establish and implement a documented program for inspecting, marking, identifying, and documenting items prior to use or storage.

Verification that items received on site meet the applicable identification requirements is accomplished during release or receipt inspection.

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QUALITY ASSURANCE PLAN

Control of Construction Processes

SECTION: 9.0

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9.0 Control of Construction Processes

Written procedures shall be prepared to assure that construction processes including welding, heat treating, coating applications, nondestructive examination, and concrete batching are accomplished by qualified personnel using qualified procedures in accordance with applicable codes, standards, specifications, and other special requirements. These procedures describe the operations performed, the sequence of operations, the characteristics involved, the limits of these characteristics, process controls, measuring and test equipment utilized, and documentation requirements.

Written procedures are also required to cover training, examination, qualification, certification, and verification of personnel as well as the maintenance of all required personnel records.

Procedures for control of construction processes are subject to review by TUGCO QA on a case basis.

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QUALITY ASSURANCE PLAN

Examinations, Tests, and Inspections

SECTION: 10.0

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10.0 Examinations, Tests, and Inspections

Examinations, tests, and inspections are performed at specific stages in the manufacturing, fabrication and installation activities to ensure that items meet the applicable specification, code, and regulatory requirements.

Planned, written procedures for in-process and final inspection are utilized by the prime contractors. TUGCO/TUSI reserves the right to review, disapprove, and perform surveillance or audits of the implementing procedures used by these organizations. TUGCO uses the following criteria in evaluating the proposed inspection methods:

- *Duties and responsibilities of personnel performing inspection are clearly established.
- *Qualifications of personnel performing inspections are commensurate with their duties and responsibilities.
- *Documentation methods for inspection activities of each group are established (e.g., inspection forms, reports).
- *Documentation control systems for identifying and distributing inspection documents are defined.
- *Planning of inspection sequence activities include the type of characteristics to be measured, the methods of examination, and the criteria.

Sufficient inspections are conducted to verify conformance in areas rendered inaccessible by further processing. Process monitoring is utilized in lieu of inspection in those cases where inspection is impossible, disadvantageous, or destructive. Where required for adequate control, a combination of inspection and process monitoring is employed. Hold points are established and enforced as required. TUGCO and/or its representatives verifies by review of inspection reports, visits to vendor's shops, and onsite surveillance that inspections are being performed and documented by personnel in accordance with approved procedures.

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QUALITY ASSURANCE PLAN

Test Control

SECTION: 11.0

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11.0 Test Control

Test requirements and acceptance criteria are provided by the organization responsible for the specification of the item under test, unless otherwise designated. Such testing is performed in accordance with test procedures which incorporate or reference the test requirements and acceptance limits contained in the applicable design documents.

Test procedures include, as a minimum, the following:

*Test prerequisites such as:

- a. calibrated instrumentation
- b. trained, qualified, and licensed or certified personnel
- c. preparation, condition, or completeness of item to be tested
- d. suitable and controlled environmental conditions
- e. safety considerations

*Instructions for the testing method used;

*Required test equipment and instrumentation;

*Test requirements and acceptance criteria;

*Hold, witness, inspection and data collection points;

*Methods for documenting or recording test data and results;

*Provisions for data collection.

The documented test results are evaluated against the predetermined acceptance criteria by authorized personnel. The acceptance status of the test is documented in accordance with Section 14.0. Discrepancies noted during the evaluation shall be documented and dispositioned in accordance with Section 15.0.

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QUALITY ASSURANCE PLAN

Control of Measuring & Test Equipment

SECTION: 12.0

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2.0 Control of Measuring & Test Equipment

Organizations performing quality activities involving measuring and test equipment shall have written procedures to assure proper equipment calibration, maintenance, and control. The procedures include a determination of which equipment is to be controlled, identification and calibration necessary for the specific equipment, and assurance of documentation of tests and measurements.

Measuring and test equipment is marked or traceable to records so that calibration status can be determined. A schedule of calibration is maintained showing the calibration frequency of the equipment. When calibration checking is necessary, the equipment is returned and not reissued until after satisfactory calibration checking.

Measuring and test equipment is calibrated using reference standards whose calibration has a known valid relationship to nationally recognized standards or accepted values of natural physical constants. If no national standards exist, the basis for calibration shall be documented.

Measuring & test equipment found to be out of calibration shall have its calibration sticker removed, and shall be segregated and handled as a nonconforming item. Work performed with the discrepant equipment since the last calibration check shall be considered unacceptable until it can be determined that applicable requirements have been met.

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QUALITY ASSURANCE PLAN

Handling, Storage, and Preservation

SECTION: 13.0

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13.0 Handling, Storage, and Preservation

The function of delineating special handling, preservation, storage, cleaning, packaging, and shipping requirements, as appropriate, in the design documents or purchase orders is performed by TUGCO/TUSI or is delegated to Gibbs & Hill, Westinghouse, or Brown & Root as described in Section 4.0.

Both TUGCO/TUSI and contractors shall establish and implement written procedures addressing the scope of their functions for cleaning, shipping, storage, packaging, preservation, and handling of safety-related items in accordance with design or procurement documents as appropriate. These procedures shall delineate measures which prevent degrading of an item through damage or deterioration. When necessary for particular items, special protective environments such as inert gas atmosphere, specific moisture content levels, and temperature levels shall be specified and provided.

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QUALITY ASSURANCE PLAN

Examination or Test Status

SECTION: 14.0

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14.0 Examination or Test Status

Procedures have been established to identify the examination or test status of safety-related structures, systems, and components. Elements of the status system include a controlled manufacturing and test operation in order to preclude the inadvertent bypassing of processing, inspections or tests, and to provide a positive identification of component status throughout manufacturing, testing, and inspecting by means of tagging, routing cards, stamping, manufacturing or test reports, labeling or other appropriate methods.

Implementation of the status system extends through the preoperational test program.

Performance of this function is delegated as applicable to subcontractors and vendors and is audited by the respective prime contractor to assure that effective measures are being taken.

TUGCO QA personnel monitor these activities, as applicable, to assure proper and effective implementation.

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QUALITY ASSURANCE PLAN

Nonconforming Items

SECTION: 15.0

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15.0 Nonconforming Items

The identification, documentation, segregation, and disposition of nonconforming materials, parts, or components, is outlined in written procedures. The measures utilized by contractors, subcontractors, and vendors are subject to review by TUGCO. The procedures, as a minimum:

- *prevent inadvertent use or installation.
- *require investigation of the nonconforming item, decisions on their disposition, and preparation of adequate reports.
- *control further processing, fabrication, delivery, or installation of items for which disposition is pending.
- *assure that departures from design specifications and drawing requirements that are dispositioned "use as is" and "repair" are formally reported to affected organizations and TUGCO/TUSI management.

Reports documenting actions taken on nonconforming items are made available to TUGCO for evaluation.

TUGCO audits prime contractors to assure compliance. In addition, TUGCO QA assures that periodic evaluation of these reports are forwarded to TUGCO management to show quality trends.

Nonconforming items identified by inspection are classified and documented by deficiency reports or nonconformance reports. Disposition is then carried out by the respective procedures.

A deficiency report will be issued for the identification, documentation resolution, and reevaluation of procedural violations/programmatic deficiencies which are not directly related to an item.

A nonconformance report will be issued for those nonconforming items which require an engineering evaluation.

In addition to being documented on a nonconformance report or a deficiency report, items found during design and construction which are reportable under the provisions of 10 CFR 50.55(e) are reported to the Manager, Quality Assurance or his designee for reporting to the NRC. A reportable significant deficiency is a deficiency which, were it to have remained uncorrected, could have affected adversely the safety of operation of CPSES, and represents:

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QUALITY ASSURANCE PLAN

Nonconforming Items

SECTION: 15.0

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- a. A significant breakdown in any portion of the quality assurance program; or,
- b. A significant deficiency in final design; or,
- c. A significant deficiency in construction of or significant damage to a structure, system or component; or,
- d. A significant deviation from performance specifications.

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QUALITY ASSURANCE PLAN

Corrective Action

SECTION: 16.0

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16.0 Corrective Action

Documented measures are used to assure that conditions adverse to quality such as failures, malfunctions, deficiencies, and nonconformances, are promptly identified and corrected as soon as practicable, and that appropriate action be taken to correct the cause of the condition. The identification of significant conditions adverse to quality, the cause of the condition, and the corrective action taken is documented and reported as required by procedures. Responsibility for performing corrective action is assigned to contractors, applicable subcontractors, and vendors so that each is alert to those conditions adverse to quality within his own area of activity. In the case of significant conditions adverse to quality, which are reportable to NRC under the provisions of 10 CFR Part 50.55 (e), measures are taken to assure that the cause of the condition is determined and corrective action is implemented to preclude repetition.

Corrective action procedures require thorough investigation and documentation of significant conditions adverse to quality. The cause and corrective action is reported in writing to the appropriate levels of management and to the purchaser. The corrective action applied is subject to review by TUGCO and the prime contractor responsible for the original purchase specification. The acceptability of rework or repairs is verified by reinspecting the item as originally inspected and that the reinspection is documented.

The occurrence and magnitude of deficiencies and nonconformances requiring corrective action are evaluated during surveillance and at hold point inspection and witnessing. Additionally, these areas are identified for audit purposes.

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QUALITY ASSURANCE PLAN

Quality Assurance Records

SECTION: 17.0

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17.0 Quality Assurance Records

TUGCO/TUSI, Gibbs & Hill, Westinghouse, Brown & Root, and other contractors shall prepare, maintain, (and where required, retain) quality assurance records as required. TUGCO/TUSI, Gibbs & Hill, Westinghouse and Brown & Root shall specify permanent and nonpermanent records requirements in procurement documents as required by the Code and by the design specifications.

Upon completion of an installation activity, the construction organization shall transfer construction records to TUGCO. These records will be categorized per a preplanned index and retained at the plant site.

The Authorized Inspector shall have access to all QA records and documents on file that are required by the Code.

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QUALITY ASSURANCE PLAN

Site Construction Quality Control Records

SECTION: 17.1

DATE: 7/1/78

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17.1 Site Construction Quality Control Records

Quality Control shall initiate, collect, and temporarily maintain required QC documents. These documents shall be filed and controlled. The Site QA Supervisor is responsible for the implementation of the on-site records control and filing system in accordance with a procedure.

Procedures/instructions define the records required to be retained, and define the provisions required for suitable protection of records. Upon completion of an activity, the documents initiated are reviewed and the completed QA records are then transferred for retention at the plant site.

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QUALITY ASSURANCE PLAN

Record Retention and Storage

SECTION: 17.2

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17.2 Record Retention and Storage

Quality Assurance records shall be stored under the conditions and for the period specified by the Code and by procedures. Records received or generated at the plant site shall be transferred to and stored in a records vault. The Site QA Supervisor is responsible for the storage and control of QA records and documents received at the records storage vault.

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QUALITY ASSURANCE PLAN

Audits

SECTION: 18.0

DATE: 5/21/81

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18.0 Audits

TUGCO and its prime contractors perform planned and periodic audits, to verify compliance with all aspects of their quality assurance program and to determine the effectiveness of the program. TUGCO audits the prime contractors, TUGCO/TUSI internal activities, suppliers and vendors as necessary to provide an objective evaluation of the effectiveness of their programs, to determine that their programs are in compliance with established requirements, methods and procedures, to determine quality progress, and to verify implementation of corrective action commitments.

The auditing system used by TUGCO:

- * Requires audit planning documents be utilized to identify organizations to be audited. Frequency of audits will be determined in accordance with provisions contained in TUGCO Quality Procedures.
- * Requires auditors to be familiar with the type of activities to be audited and have no direct responsibilities in the area being audited.
- * Provides auditing checklists or other objective guidelines to identify those activities which will be examined.
- * Requires examination of the essential characteristics of the quality activity examined.
- * Requires an audit report be prepared that notes deficiencies found.
- * Requires the audit report be sent to management responsible for the area audited for review and corrective action for deficiencies.
- * Requires a response that documents corrective action taken as result of the audit.
- * Requires reauditing of deficient areas when it is considered necessary to verify implementation of required corrective actions.

TUGCO maintains audit documentation on file.



QUALITY ASSURANCE PLAN

Authorized Nuclear Inspector

SECTION: 19.0

DATE: 4/16/79

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19.0 Authorized Nuclear Inspector

The Authorized Inspector shall have free access to all records and work being performed where such reports or work fall within the scope of his duties and responsibilities. Such records and work shall include, but not be limited to: drawings, Certified Design Specifications, Data Reports, audit reports and Stress Reports, as well as their preparation or review as applicable. The duties of the Authorized Inspector shall be:

- *Verifying that the scope of work stated in the Owners Certificate includes the work performed and that required documents are properly filed.
- *Monitoring the CPSES QA Plan.
- *Certification of the N-3 Data Reports.

Stress Reports shall be reviewed in accordance with the Code and shall meet the requirements of the Design Specifications.

The N-3 Form shall be prepared and certified by the Engineering and Construction Manager or his designee prior to the Authorized Inspector's review and acceptance. Certification shall include verification that each Manufacturer or Installer was a holder of the appropriate Certificate of Authorization by the ASME and that all components, appurtenances and interconnecting installation welds comply with the ASME Code, as applicable. A copy of the form, after being signed by the Authorized Inspector, shall be filed with the Enforcement Authority having jurisdiction at the plant site, along with all Data Reports from the Manufacturers and Installers.

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QUALITY ASSURANCE PLAN

Preservice Inspection Program

SECTION: 20.0

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20.0 Preservice Inspection Program

TUGCO has overall responsibility for the performance and evaluation of the Preservice and Inservice Inspection requirements of Section XI of the ASME Code (1974 Edition through the Summer 1975, Addenda). TUGCO has delegated authority for implementation of the Preservice Inspection Program as follows:

1. Texas Utilities Services, Inc. (TUSI) has been delegated the authority to:
 - Determine the appropriate Code Class(es) for each component of the Comanche Peak Steam Electric Station; the identification of the system boundaries for each class of components subject to inspection; and the identification of components exempt from inspection requirements as permitted by the Code.
 - The design and arrangement of the system components to include allowance for adequate clearances for the conduct of the examinations.
 - The development of plans and schedules for accomplishing the Preservice Inspection Program and the formal submission of the plans and schedules to TUGCO for filing with the enforcement and regulatory authorities having jurisdiction at the CPSES site.
 - Assure the development and preparation of written examination procedures and/or instructions, including diagrams or system drawings delineating the identification and extent of areas of components subject to examination.
 - Provide for evaluation of each preservice examination and test.
 - Assure that adequate records of inspection, examinations and tests performed, such as radiographs, diagrams, drawings, inspection data, and personnel qualifications are developed and maintained prior to formal submittal to the CPSES Records Vault.
 - Assure the preparation of all basic calibration blocks used for ultrasonic examination of components and the maintenance of the blocks prior to formal submittal to TUGCO.
 - Provide access for the Inspector (ANI) or examination personnel and equipment necessary to conduct the required examinations.
 - Assure the performance of necessary operations associated with repair or replacement of system components in the event structural defects or indications are revealed that may require such repairs or replacements.

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QUALITY ASSURANCE PLAN

Preservice Inspection Program

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- Develop and maintain procedures and/or instructions that are required to implement the applicable Quality Assurance Program requirements of Sub-Section NA-4000 of the ASME Code.
2. Westinghouse, has been delegated the authority to:
- Perform the required Preservice examinations and tests.
 - Record the results of all examinations and tests.
 - Evaluate the results of all examinations and tests on components and systems within their scope of supply (eg. Nuclear Steam Supply System) and perform or recommend required corrective actions.
 - Develop all basic calibration blocks used for ultrasonic examination of the components.
 - Assure that the qualifications of personnel performing examinations and tests comply with the applicable provisions of Section XI.
 - Develop and maintain a Quality Assurance Program conforming to the applicable portions of Sub-Section NA-4000 of the ASME Code for that portion of the Preservice Inspection Program under their scope of work.
3. Texas Utilities Generating Company (TUGCO) retains responsibility and authority for:
- Filing of required plans and schedules with enforcement and regulatory authorities having jurisdiction at the plant site.
 - Verification (through QA Division audit or surveillance) of compliance of the above delegated functions to the applicable provisions of Section XI.
 - Developing and maintaining an arrangement with an Authorized Inspection Agency to provide inspection services required by Section XI.
 - Assuring that the recording of all inspection and examination and test results provides a basis for evaluation and facilitates comparison with the results from subsequent examinations.
 - Retention of all inspection and examination and test records, calibration blocks, etc. as required for the service lifetime of the component(s) under examination.

COMANCHE PEAK QUALITY ASSURANCE PLAN	APPENDIX B QUALITY ASSURANCE CRITERIA																	
	I. Organization	II. QA Program	III. Design Control	IV. Procurement Document Control	V. Instructions, Procedures, and Drawings	VI. Document Control	VII. Control of Purchased Material, Equipment, and Services	VIII. Ident. & Control of Materials, Parts, & Components	IX. Control of Special Processes	X. Inspection	XI. Test Control	XII. Control of Measuring & Test Equipment	XIII. Handling, Storage & Shipping	XIV. Inspection, Test & Operating Status	XV. Nonconforming Items	XVI. Corrective Action	XVII. QA Records	XVIII. Audits
1.0 Organization	X																	
1.1 Quality Assurance Division	X																	
1.2 Project Management	X																	
2.0 Quality Assurance Plan		X																
2.1 Control of the QA Plan		X																
3.0 Design Control			X															
4.0 Procurement Document Control				X														
5.0 Instructions, Procedures and Drawings					X													
6.0 Document Control						X												
7.0 Control of Purchased Items and Services							X											
8.0 Identification and Control of Items								X										
9.0 Control of Construction Processes									X									
10.0 Examinations, Tests, and Inspections										X								
11.0 Test Control											X							
12.0 Control of Measuring and Test Equipment												X						
13.0 Handling, Storage, and Preservation													X					
14.0 Examination or Test Status														X				
15.0 Nonconforming Items															X			
16.0 Corrective Action																X		
17.0 Quality Assurance Records																	X	
17.1 Site Construction Quality Control Records																	X	
17.2 Record Retention and Storage																	X	
18.0 Audits																		X
19.0 Authorized Nuclear Inspector																		
20.0 Preservice Inspection Program										X								