

The Light company

Houston Lighting & Power P.O. Box 1700 Houston, Texas 77001 (713) 228-9211

March 22, 1982
ST-HL-AE-809
SFN: V-0100



Mr. John T. Collins
Regional Administrator, Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Dr., Suite 1000
Arlington, TX 76012

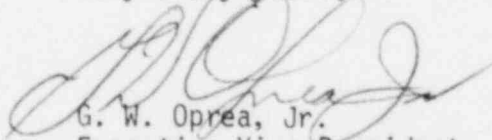
Dear Mr. Collins:

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498, STN 50-499
Response to Request for Information
Pursuant to 10CFR50.54(f)

As requested by your letter of February 12, 1982, we are providing you with a description of the organizational structure and relationships among HL&P, Bechtel, and Ebasco with respect to responsibilities for quality assurance, design review, and design verification.

Should you require additional information, please contact Mr. M. E. Powell at (713) 877-3281.

Very truly yours,


G. W. Oprea, Jr.
Executive Vice President

LJK/blt
Attachment

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Houston Lighting & Power Company

cc: G. W. Oprea, Jr.

J. H. Goldberg

J. G. Dewease

J. D. Parsons

D. G. Barker

C. G. Robertson

R. A. Frazar

J. W. Williams

J. W. Briskin

J. E. Geiger

R. L. Ulrey

S. M. Dew

J. T. Collins (NRC)

D. E. Sells (NRC)

W. M. Hill, Jr. (NRC)

M. D. Schwarz (Baker & Botts)

R. Gordon Gooch (Baker & Botts)

J. R. Newman (Lowenstein, Newman, Reis, & Axelrad)

STP RMS

Director, Office of Inspection & Enforcement

Nuclear Regulatory Commission

Washington, D. C. 20555

R. L. Range/G. W. Muench

Central Power & Light Company

P. O. Box 2121

Corpus Christi, Texas 78403

R. L. Hancock/G. Pokorny

City of Austin

P. O. Box 1088

Austin, Texas 78767

J. B. Poston/A. vonRosenberg

City Public Service Board

P. O. Box 1771

San Antonio, Texas 78296

Brian E. Berwick, Esquire

Assistant Attorney General

for the State of Texas

P. O. Box 12548

Capitol Station

Austin, Texas 78711

Lanny Sinkin

Citizens Concerned About Nuclear Power

5106 Casa Oro

San Antonio, Texas 78233

Jay Gutierrez, Esquire

Hearing Attorney

Office of the Executive Legal Director

U. S. Nuclear Regulatory Commission

Washington, D. C. 20555

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Page 2

Charles Bechhoefer, Esquire

Chairman, Atomic Safety & Licensing Board

U. S. Nuclear Regulatory Commission

Washington, D. C. 20555

Dr. James C. Lamb, III

313 Woodhaven Road

Chapel Hill, North Carolina 27514

Mr. Ernest E. Hill

Lawrence Livermore Laboratory

University of California

P. O. Box 808, L-46

Livermore, California 94550

William S. Jordan, III

Harmon & Weiss

1725 I Street, N. W.

Suite 506

Washington, D. C. 20006

Citizens for Equitable Utilities, Inc.

c/o Ms. Peggy Buchorn

Route 1, Box 1684

Brazoria, Texas 77422

Revision Date 2-22-82

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter

Houston Lighting & Power
Company, et al.,

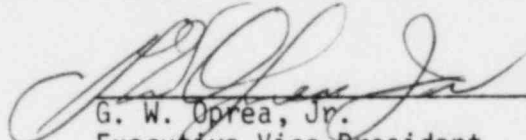
South Texas Project
Units 1 and 2

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Docket Nos. 50-498
50-499


AFFIDAVIT

G. W. Oprea, Jr. being duly sworn, hereby deposes and says that he is an Executive Vice President of Houston Lighting & Power Company; that he is duly authorized to sign and file with the Nuclear Regulatory Commission the attached Response to Request For Information; that he is familiar with the content thereof; and that the matters set forth therein are true and correct to the best of his knowledge and belief.


G. W. Oprea, Jr.
Executive Vice President

STATE OF TEXAS S
COUNTY OF HARRIS S

Subscribed and sworn to before me, a Notary Public in and for Harris County, Texas this 22 day of March, 1982.


Notary Public in and for the
State of Texas

My commission expires:

BEVERLY J. FITE
Notary Public, State of Texas
My Commission Expires 10/17/84



ATTACHMENT

I. Project Management Overview

Houston Lighting & Power Company (HL&P), acting as PROJECT MANAGER for itself and the other owners, City Public Service Board of San Antonio, City of Austin, and Central Power and Light Company, has responsibility for design, engineering, procurement, fabrication, quality assurance, construction and operation of the South Texas Project. HL&P has contracted with Westinghouse Electric Corporation (Westinghouse) for the design, fabrication and quality assurance (QA) services for the nuclear steam supply system, and with Bechtel Power Corporation (Bechtel) for plant design, procurement, engineering, construction management, QA and other related services including QA services for Westinghouse items upon receipt at the Project site. HL&P has contracted with Ebasco Services Incorporated (Ebasco) for construction services including QA and quality control (QC) for its scope of work.

Figure 1 shows the organizational structure and functional relationship among HL&P, Bechtel and Ebasco for the four major functional areas: QA, Engineering, Construction, and Controls. Project direction is provided from the HL&P Manager, South Texas Project, to the Project Manager of Bechtel. The HL&P Project organizations provide a performance overview of the respective Bechtel Project organizations. Bechtel, as Construction Manager, directs the activities of Ebasco and performs a QA overview of Ebasco activities. Bechtel is responsible to assure that all Balance of Plant systems meet the NSSS interface requirements. Bechtel is also responsible for any necessary technical review of the NSSS equipment and associated support services. HL&P project management provides programmatic overview and direction relative to the Bechtel-Westinghouse interface.

The current internal organizational structures of HL&P, Bechtel and Ebasco for the South Texas Project are shown in Figures 2, 3 and 4, respectively.

Although there may be modifications to these internal structures, the functional relationships between the respective organizations will remain as indicated by Figure 1.

II. Quality Assurance

The QA Program for STP is described in the Quality Assurance Program Description, Revision 3 (QAPD), which was submitted to NRC by letter dated March 9, 1982. Figure 5 shows key aspects of the relationships and responsibility of the respective QA organizations. The STP QA organizations coordinate with project management for day-to-day project direction, but report independent of project management for quality-related functions. The HL&P Project QA Manager reports to HL&P's Executive Vice President, Nuclear Group; the Bechtel Project QA Manager reports to the Bechtel Los Angeles Power Division QA Manager for Domestic Projects; and the Ebasco Quality Program Site Manager reports to the Ebasco Chief Quality Engineer.

HL&P has QA responsibility for design, engineering, procurement, fabrication, construction and operation of STP. As described in the QAPD, there is an HL&P performance overview of the QA activities of Bechtel and Ebasco, and a Bechtel performance overview of the Ebasco QA activities.

III. Design Review and Design Verification

HL&P, as Applicant, has the responsibility for the design of STP. HL&P has contracted with Westinghouse for the Nuclear Steam Supply System which includes the appropriate design review and design verification as related to the W scope of supply. HL&P has contracted with Bechtel to perform the design for the balance of plant systems and all structures. The requirements of 10CFR50, Appendix B Criterion III, Regulatory Guide 1.64 (Rev. 2) and ANSI N45.2.11-74 have been adopted for project design activities and are applied to Bechtel Engineering work in accordance with Bechtel's Quality Assurance Program documented in BQ-TOP-1, Rev. 3A (approved by the NRC) and the STP Quality Assurance Program Description, Rev. 3. Bechtel will perform and document design reviews and design verifications in accordance with its Engineering Department Procedures as implemented for the South Texas Project.

HL&P Engineering performs reviews of selected elements of the completed design, design documents and specifications to ensure that contractual requirements are met. Figure 6 shows the key aspects of the relationship and responsibilities of the Bechtel and HL&P Engineering teams. The interface between HL&P and Bechtel Engineering is through the HL&P Manager, Engineering and the Bechtel Project Engineering Manager. At other Engineering levels there is a regular and routine communication.

In addition to the HL&P Project Engineering performance overview of Bechtel separate reviews of certain elements of the plant design will be performed by the recently created Engineering Assurance Department (EAD). These reviews will provide further confidence in the technical adequacy of the engineering and design of the STP. The Engineering Assurance Department is a separate organization from the STP. Therefore, Figures 2 and 6 do not reflect this organization. The Manager of the Engineering Assurance Department reports directly to the Vice President, Nuclear Engineering and Construction.

Ebasco, as Constructor, will implement the design issued to it by Bechtel. The design documents will be forwarded to Ebasco through Bechtel Construction Management. As presently organized, all major design will be done by Bechtel. Any required site design activities will either be performed by Bechtel Engineering or will be performed under the design control of Bechtel Engineering.

SOUTH TEXAS PROJECT MANAGEMENT ORGANIZATION

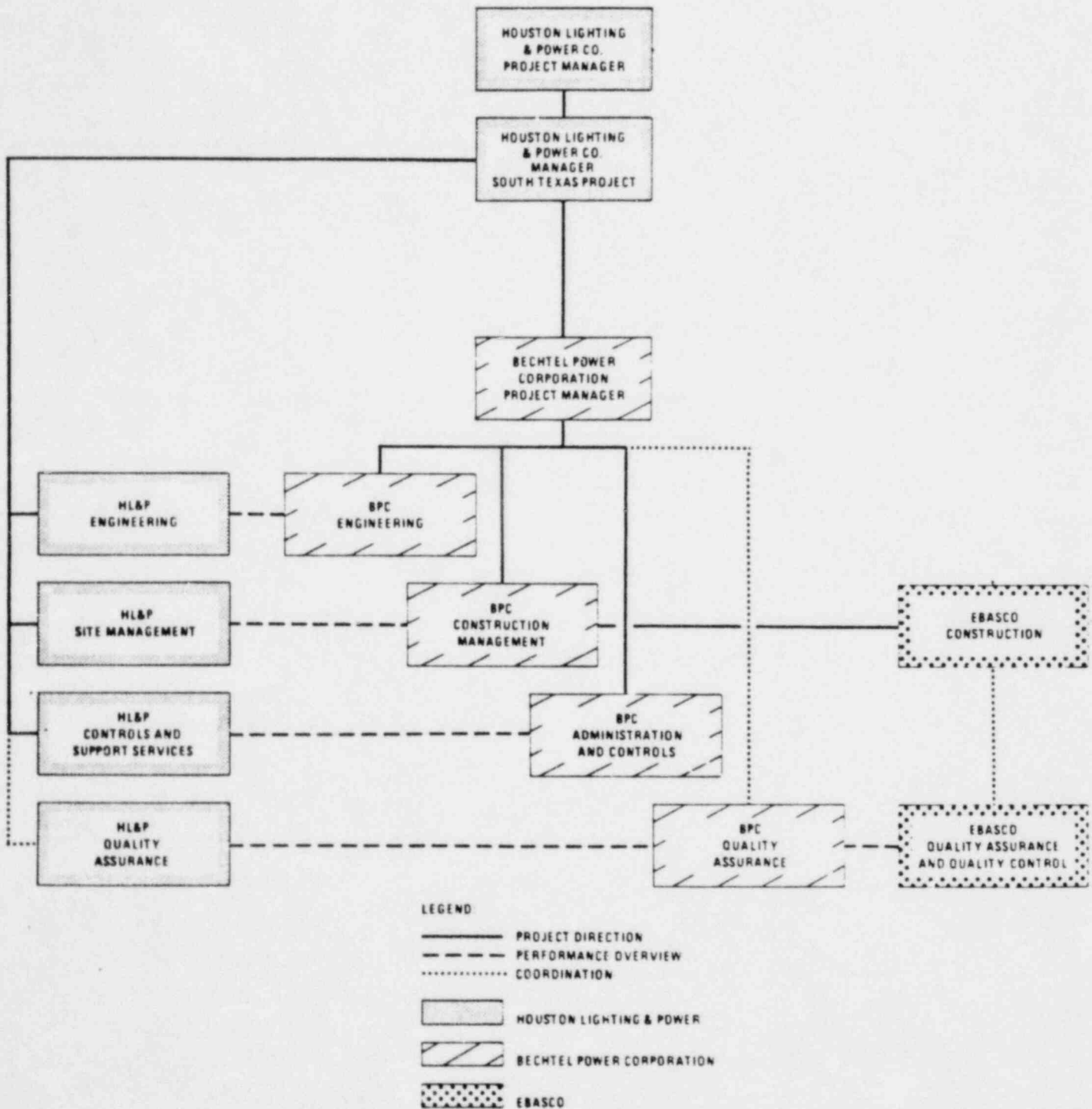
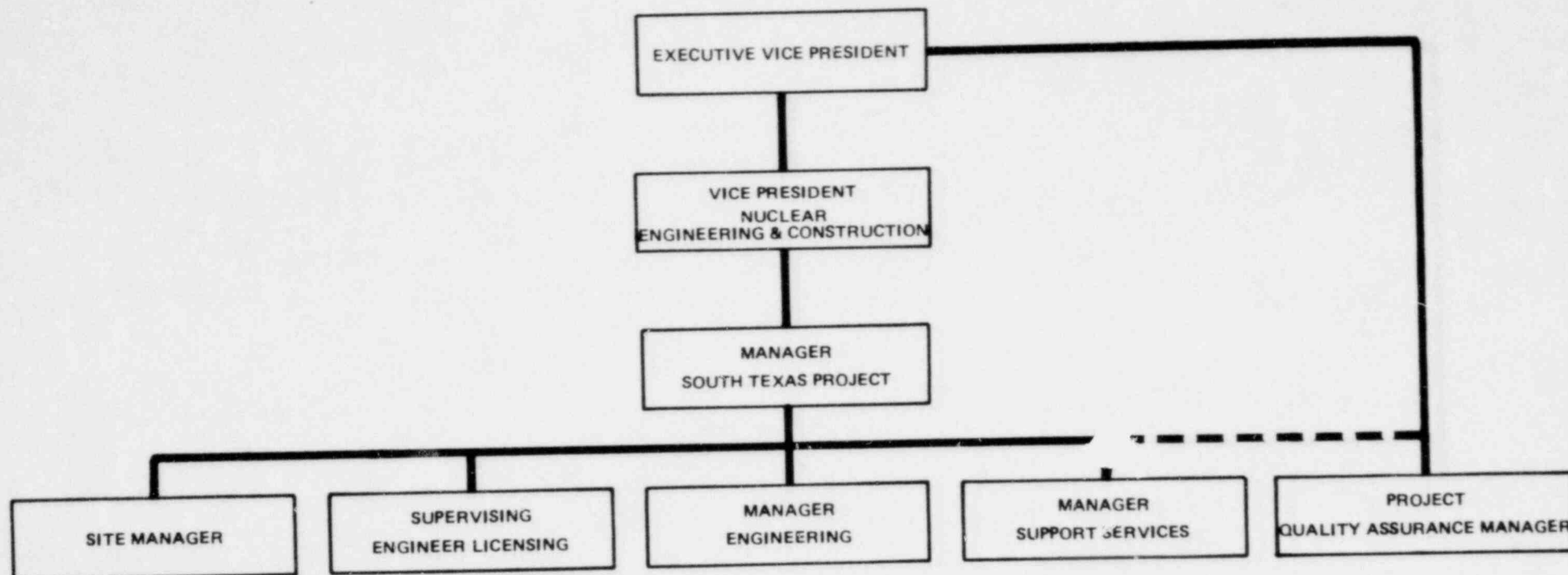


Fig. 1



LEGEND
—— PROJECT DIRECTION
- - - PROJECT COORDINATION

FIG 2

**SOUTH TEXAS PROJECT
BECHTEL POWER CORPORATION
ORGANIZATION**

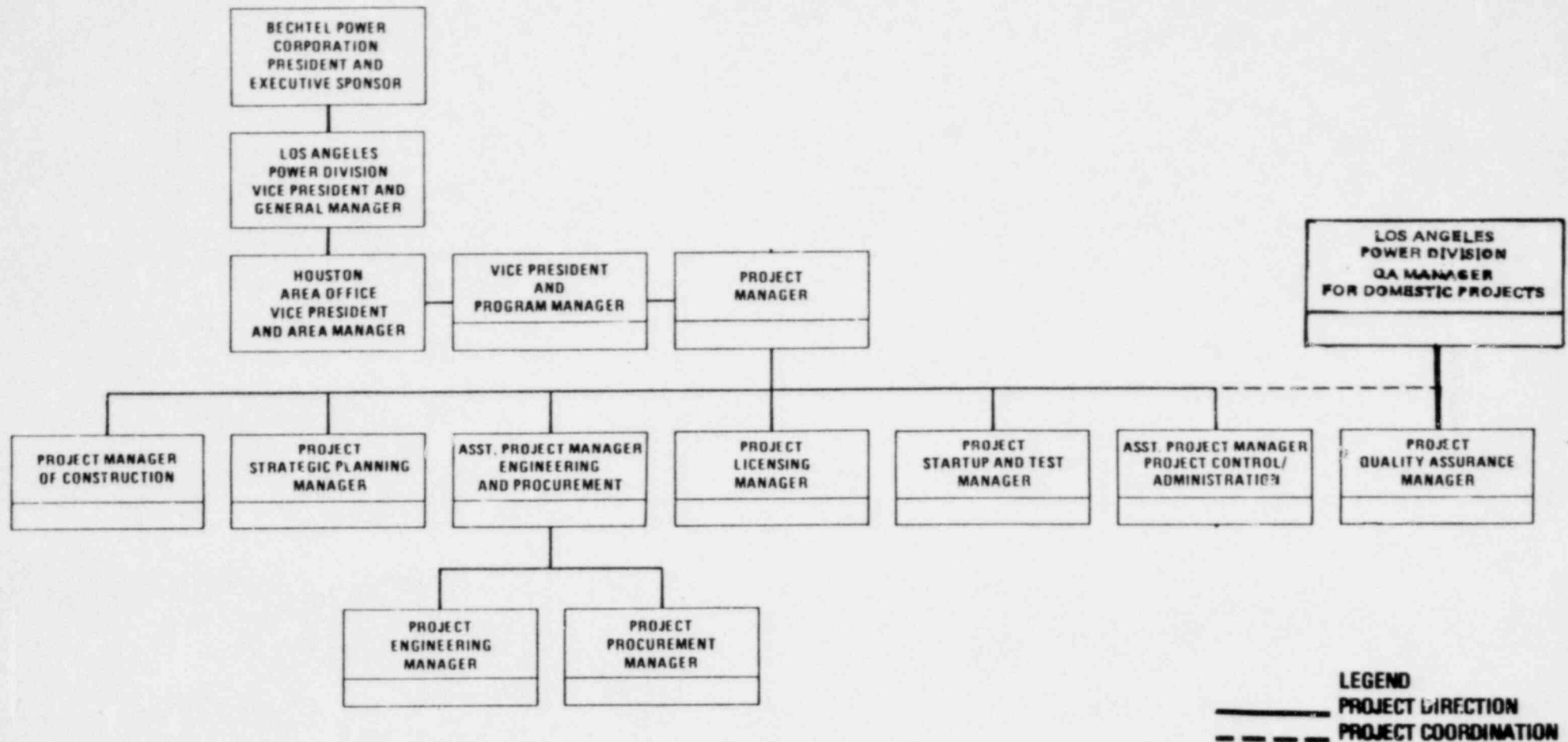
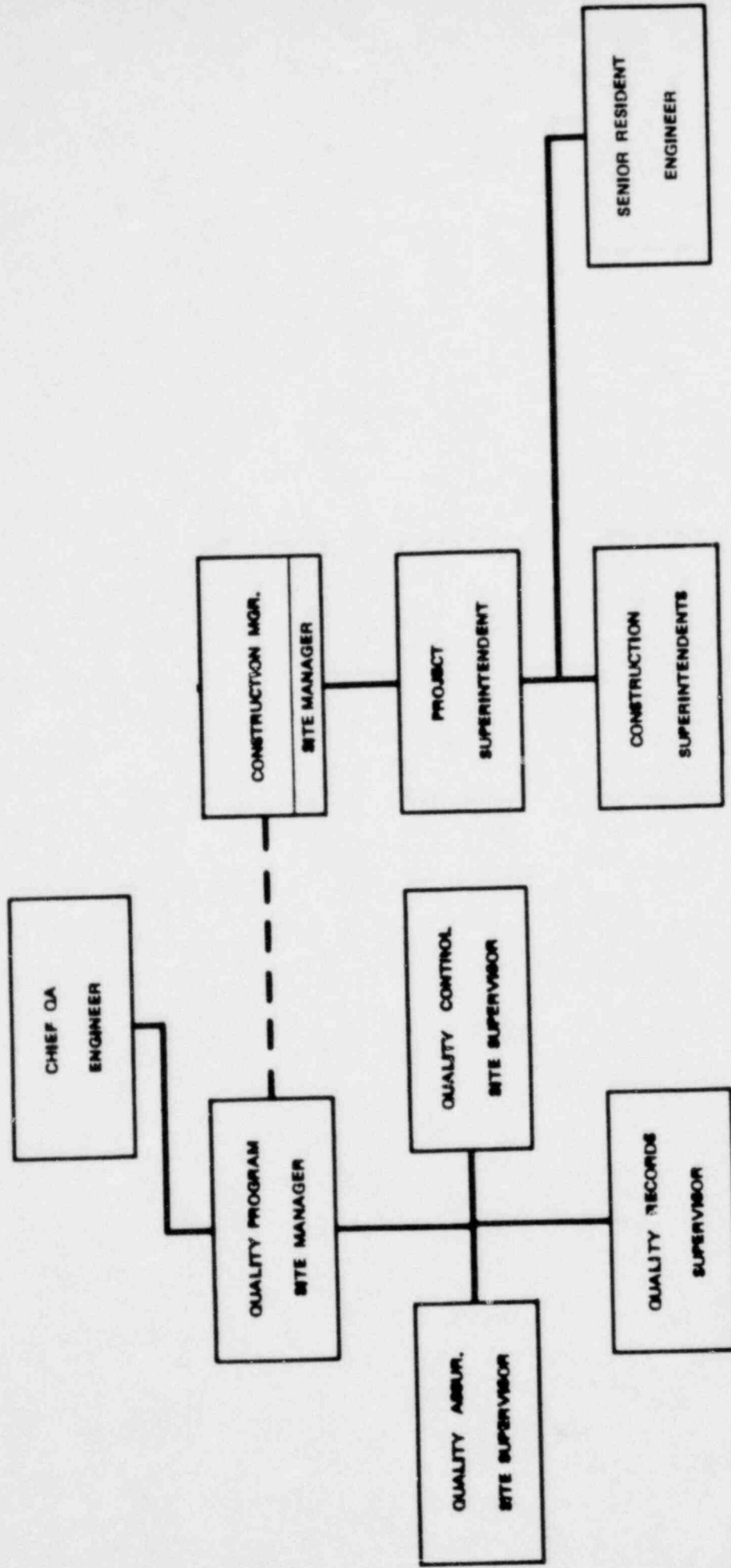


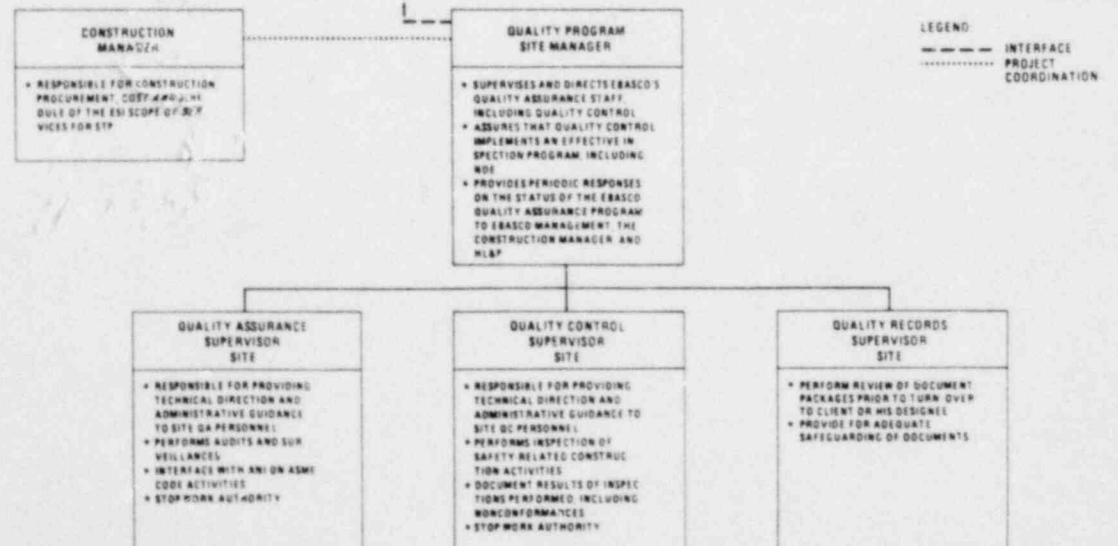
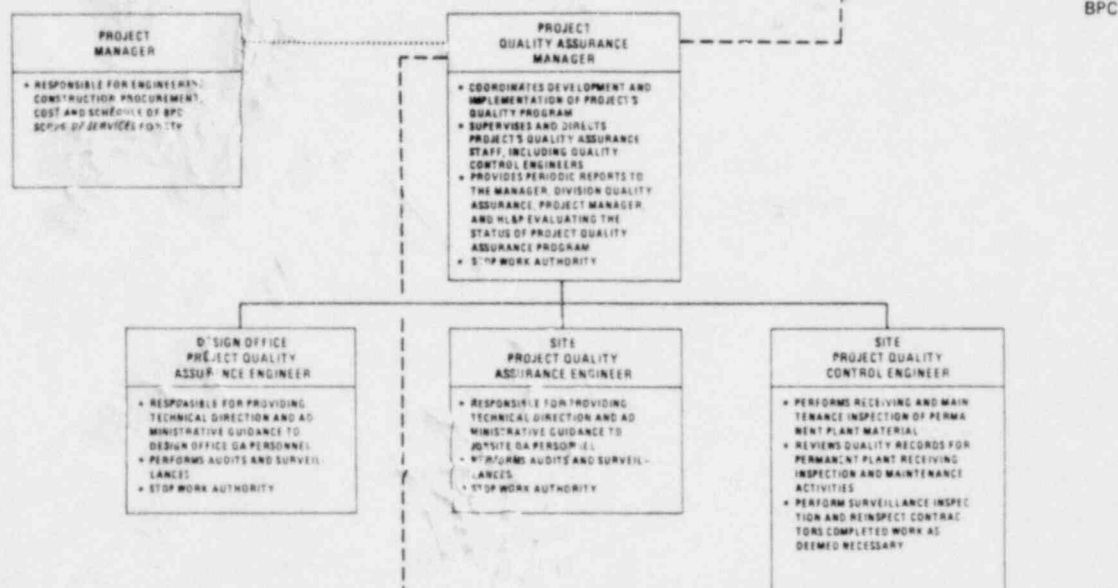
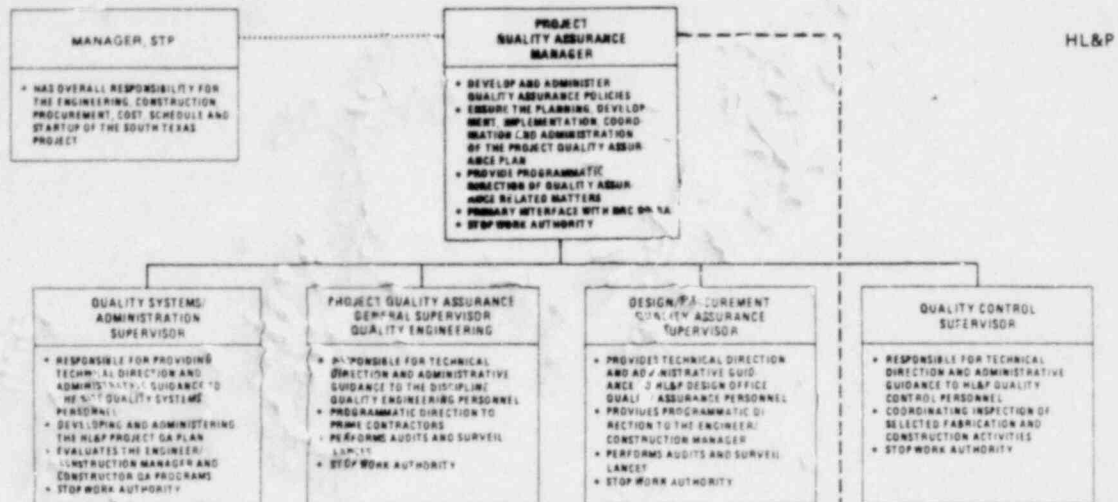
Fig. 3



LEGEND
—— PROJECT DIRECTION
- - - PROJECT COORDINATION

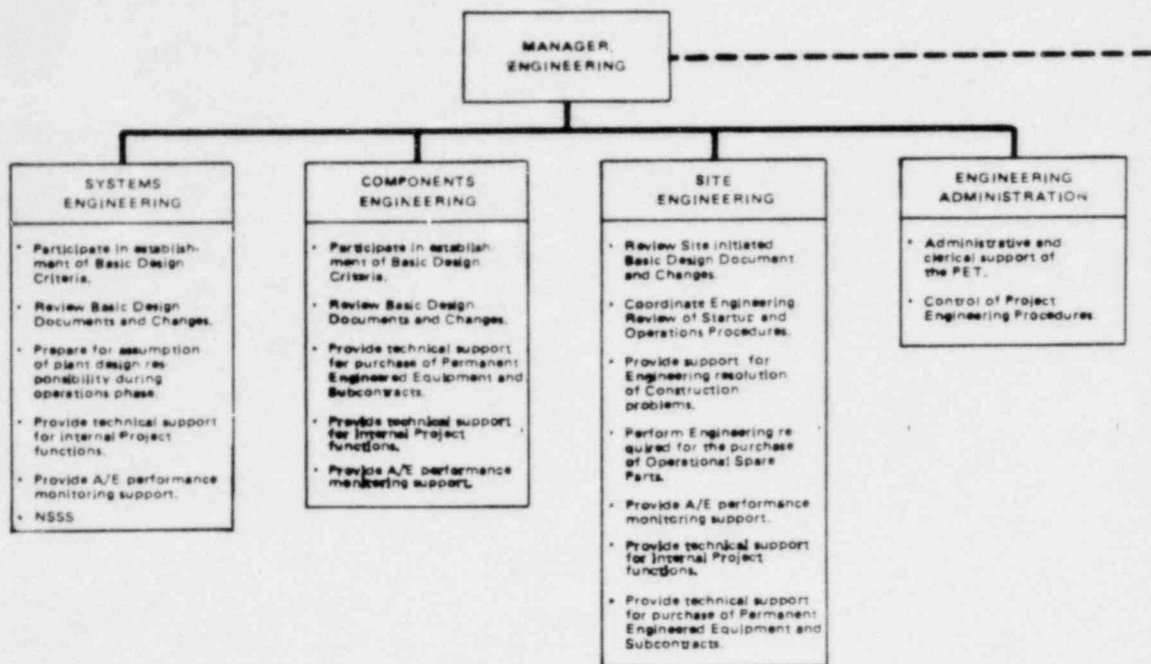
Fig. 1

**SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
QUALITY ASSURANCE ORGANIZATIONS**



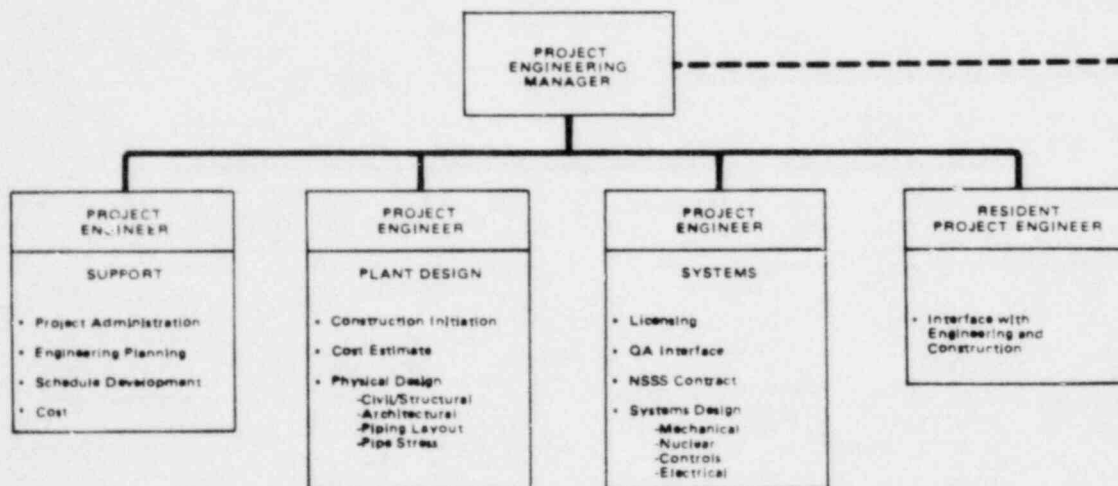
SOUTH TEXAS PROJECT
ENGINEERING TEAM

HL&P



SOUTH TEXAS PROJECT
ENGINEERING TEAM

BECHTEL



PROJECT DIRECTION —————

INTERFACE - - - - -

FIGURE 6