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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUL 12 1985

Docket Nos. 50-498
and 50-499

Mr. J. H. Goldberg
Group Vice President-Nuclear
Houston Lighting and Power Company
Post Office Box 1700
Houston, Texas 77001

Dear Mr. Goldberg:

Subject: South Texas Project Engineering Assurance Program (EAP) Implementation
Inspection Report 50-498/85-09

This letter conveys the results and conclusions of NRC's inspection of Stone and Webster Engineering Corporation's (SWEC) review of three EAP topics: control room HVAC, component cooling water system, and off-site AC power and medium voltage AC power supply systems. The inspection was conducted by a team of personnel from the NRC's Office of Inspection and Enforcement and consultants at the SWEC offices in Boston, Massachusetts from April 23, 1985 to April 26, 1985.

The NRC's inspection of SWEC's in progress review of the three EAP topics was organized into five engineering disciplines: mechanical systems/power engineering, mechanical components/engineering mechanics, electrical, instrumentation/controls and civil/structural. The objective of the inspection was to determine whether the SWEC in-progress reviews were being conducted in accordance with the approved program plan and were performed in sufficient technical depth to evaluate the adequacy of the design and design process at the South Texas Project.

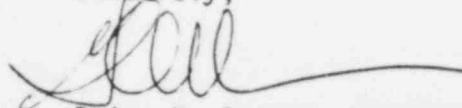
A number of open items in specific engineering disciplines resulting from this inspection are contained in the attached inspection report. The following items summarize in a general sense the significant open items contained in the attached inspection report and should be factored into future program improvements:

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- There was a lack of traceability of some design input information.
- There appeared to be an incomplete review of single-failure considerations for the systems reviewed.
- More detailed information, if included on the reviewer check lists, would facilitate NRC review of Engineering Assurance Program documents.
- NRC review of Engineering Assurance Program documents would be facilitated if each system review package was self-sufficient to the greatest practical extent or reference was provided to review packages where omitted topics are addressed or will be addressed.

Both the general items and the specific inspection items will be examined in the next inspection of your EA program, at SWEC in Boston, the week of July 22.

Sincerely,



gr Brian K. Grimes, Director
Division of Quality Assurance, Vendor,
and Technical Training Center Programs
Office of Inspection and Enforcement

Enclosure:
Inspection Report

Distribution

J. M. Taylor, IE
R. H. Vollmer, IE
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J. Axelrad, IE
Team Members
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OPE
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H. R. Denton, NRR
OCA (3)

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7/9/85

GT

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GTAnkrum
06/24/85

BK

IE: DQAVT: D
BKGrimes
10/11/85

Mr. J. H. Goldberg
Group Vice President, Nuclear
Houston Lighting and Power Company
P.O. Box 1700
Houston, Texas 77001

Mr. J. T. Westermeir
Manager, South Texas Project
Houston Lighting and Power Company
P.O. Box 1700
Houston, Texas 77001

Mr. E. R. Brooks
Mr. R. L. Range
Central Power and Light Company
P.O. Box 2121
Corpus Christi, Texas 78403

Mr. H. L. Peterson
Mr. G. Pokorny
City of Austin
P.O. Box 1088
Austin, Texas 78767

Mr. J. B. Poston
Mr. A. Von Rosenberg
City Public Service Board
P.O. Box 1771
San Antonio, Texas 78296

Jack R. Newman, Esq.
Newman & Holtzinger, P.C.
1615 L Street, NW
Washington, DC 20036

Melbert Schwartz, Jr., Esq.
Baker & Botts
One Shell Plaza
Houston, Texas 77002

Mrs. Peggy Buchorn
Executive Director
Citizens for Equitable Utilities, Inc.
Route 1, Box 1684
Brazoria, Texas 77422

Regional Administrator - Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76011

William S. Jordan, III, Esq.
Harmon, Weiss & Jordan
2001 S Street, N.W.
Suite 430
Washington, DC 20009

Brian Berwick, Esq.
Assistant Attorney General
Environmental Protection
Division
P.O. Box 12548
Capitol Station
Austin, Texas 78711

Mr. D. P. Tomlinson, Resident
Inspector/South Texas Project
c/o U.S. NRC
P.O. Box 910
Bay City, Texas 77414

Mr. Jonathan Davis
Assistant City Attorney
City of Austin
P.O. Box 1088
Austin, Texas 78767

Ms. Pat Coy
Citizens Concerned About
Nuclear Power
5106 Casa Oro
San Antonio, Texas 78233

Mr. Mark R. Wisenberg
Manager, Nuclear Licensing
Houston Lighting and Power
Company
P.O. Box 1700
Houston, Texas 77001

Mr. Charles Halligan
Mr. Burton L. Lex
Bechtel Corporation
P.O. Box 2166
Houston, Texas 77001

Mr. Lanny Sinkin
Citizens Concerned About
Nuclear Power
c/o Nuclear Information and
Research Service
1346 Connecticut Avenue, N.W.
Fourth Floor
Washington, DC 20036

Mr. S. Head
HL&P Representative
Suite 1309
7910 Woodmont Avenue
Bethesda, Maryland 20814

Dan Carpenter, Resident Inspector/
South Texas Project
c/o U.S. NRC
P.O. Box 2010
Bay City, Texas 77414