



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

18/B3

MAY 27 1983

MEMORANDUM FOR: George Lear, Chief
Structural and Geotechnical Engineering Branch
Division of Engineering

THRU: Lyman Heller, Leader
Geotechnical Engineering Section
Structural and Geotechnical Engineering Branch
Division of Engineering

FROM: Joseph D. Kane, Geotechnical Engineering Section
Structural and Geotechnical Engineering Branch
Division of Engineering

SUBJECT: SITE VISIT REPORT - TECHNICAL ASSISTANCE TO REGION III
FOR MIDLAND PROJECT (TAC NO. 5134, PA 1163)

On April 25, 1983 loading of test pier W11 was initiated by Consumers Power Company to demonstrate the acceptability of the natural foundation soils for safely supporting the permanent underpinning wall beneath the Auxiliary Building. Geotechnical Engineering Section (L. Heller) was verbally notified of the start of the pier load testing on April 27, 1983 by Division of Licensing (E. Adensam). Conference calls between Region III, Consumers and GES on April 28 and 29, 1983 and the Applicant's initial submittals of pier load test data (Federal Express on April 30, 1983 and Bechtel courier on May 1, 1983) revealed that the anti-friction liner installed on the sides of Pier W11 shaft had not successfully eliminated side friction on the sides of the shaft. Because side friction will not be available to carry structural loads on the permanent underpinning wall, the applicability and acceptability of the pier load test results became questionable. Unless a final evaluation of the pier load test data eventually permitted a determination of the portion of the applied jacking load carried in end bearing, the NRC staff had expressed the opinion that a second pier load test would be necessary.

A site visit to begin May 11, 1983 was arranged to permit the staff to view the initial pier load test set-up at W11 which would include the installed instrumentation (jacking pressure gages, telltale assemblies and movement dial gages). Representatives from Consumers and their consultants were to complete their final evaluation of the test loading of Pier W11 and then meet with the staff at the site to discuss their conclusions.

The site visit to view the pier load test installation and to discuss the results was held May 11 and 12, 1983. Representatives from Region III, GES, GEI, COE, Consumers, Bechtel, Stone and Webster, and Parsons-Brinkerhoff were present on these two days. Enclosure 1 presents a report of the site visit

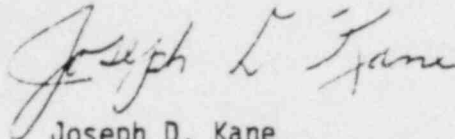
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events pertaining to the pier load test written by GES consultant, Geotechnical Engineers Inc. Enclosure 2 was prepared by Joseph Kane of GES to document discussions held with the Applicant on topics in addition to the pier load test and to provide the staff conclusions for the site visit. By copy of these enclosures, D. Hood, licensing project manager and R. Landsman, Region III inspector, are informed of the events and conclusions of our site visit.



Joseph D. Kane
Geotechnical Engineering Section
Structural and Geotechnical
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Attachments:
As stated

cc: w/enclosure
R. Vollmer
D. Eisenhut
J. Knight
T. Novak
G. Lear
L. Heller
D. Hood
R. Landsman, Region III
P. T. Kuo
H. Singh, COE
S. Poulos, GEI
J. Kane