

JAN 31 1979

MEMORANDUM FOR: Richard P. Denise, Assistant Director
for Site Technology, DSE

FROM: Lyman W. Heller, Leader
Geotechnical Engineering Section
Geosciences Branch, DSE

THRU: Robert E. Jackson, Acting Branch Chief
Geosciences Branch, DSE

SUBJECT: MIDLAND FOUNDATIONS - REQUEST FOR OL REVIEW FUNDING

As you know, settlement problems with the diesel generator building at Midland has lead to additional I&E surveillance of this plant and to a transfer of lead responsibility to NRR (Reinmuth IE to Vassallo NRR 11/17/78).

Informal communication with I&E indicates that the structural fill in the entire plant area is of questionable quality. Two courses of NRR action, in order to attain a reasonable assurance of safety are thus:

- 1) Require the applicant to remove and replace all structural fill not meeting NCC acceptance standards. A number of completed buildings and buried lines would need to be demolished and reconstructed to follow this course.
- 2) Identify, analyze, measure and monitor all items associated with the safety of the plant that are influenced by settlement and differential settlement of structures and by other properties of poor quality fill. Prepare technical specification (such like North Anna) to assure safe operation of the plant.

I have discussed the implications of following the latter course with I&E. We estimate the NRR detailed review effort needed to follow the second course, assuming full cooperation from the applicant, would be about 3 man-years. Obviously, the resources of the Geosciences Branch must be supplemented to accomplish the necessary review and a timely conclusion of a reasonable assurance of safety.

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Richard P. Denise

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I propose that NRR promptly negotiate a contract with a selected geotechnical consulting firm to perform the detailed review work, under Geosciences Branch perview. I am sure that the Corps of Engineers would not be able to provide the necessary support. I estimate that supporting funds for the proposed contract would total \$100,000. About \$100,000 would be required in FY 79 and \$00,000 in FY 80.

Please advise me of the availability of funds in this amount so that a contract request can be initiated.

Original Signed by L. W. Heller

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Lyman W. Heller, Leader
Geotechnical Engineering Section
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Environmental Analysis

cc: R. DeYoung
R. Jackson
L. Heller
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D. Hood

APPROVED	DSE:ST:GB	DSE:ST:GB				
DATE	1/30/79	RE Jackson				
		1/30/79				