APR 2 8 1982

MEMORANDUM FOR: Elinor Adensam, Chief

Licensing Branch No. 4 Division of Licensing

TIRU:

James P. Knight, Assistant Director

for Components and Structures Engineering

Division of Engineering

FROM:

George Lear, Chief

Hydrologic and Geotechnical Engineering Branch

Division of Engineering

SUBJECT:

UNDERPIRING AUXILIARY BUILDING - PHASE 2

Plant Name: Midland Plant, Units 1 and 2

Licensing Stage: OL

Responsible Branch: LB No. 4, D. Hood, PM Requested Completion Date: April 23, 1982

Enclosed is our Geotechnical Engineering Section listing of the remaining review issues requiring resolution before the start of Phase 2 underpinning operations for the Auxiliary Building. This listing was prepared by J. Kane and these issues have been discussed with the Applicant at past Design Audits and at a meeting in D. Hood's office with Consumer's representative on April 15, 1982.

The enclosed listing summarizes the issues which remain in geotechnical engineering following our review of the March 31, 1982 letter with enclosures from J. W. Cook to H. R. Denton on the above subject.

Original signed by George Lear

George Lear, Chief
Hydrologic and Geotechnical
Engineering Branch
Division of Engineering

w/enclosure

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Midland Plant, Units 1 and 2 Docket Numbers: 50-329/330

SUBJECT: AUXILIARY BUILDING UNDERPINNING - PHASE 2 REMAINING

REVIEW ISSUES

Prepared by: Joseph D. Kane, DE, HGEB, GES

 Provide the actual locations of installed deep seated bench marks DSB-AS1 and DSB-AS2. Indicate distances from the more deeply founded Main Auxiliary Building walls. Indicate the necessary changes in tolerance criteria column on Drawing C-1493(Q) caused by the change in location from original DSB-AS.

 NRR requests notification that the following monitoring devices are installed and properly operating prior to the start of Phase 2.

DSB-1W DMD-1W DSB-1E DMD-1E DSB-2W DMD-11 DSB-2E DMD-12 DSB-3W DMD-13 DSB-3E DSBAS-1 DSBAS-2 DSB-AN

- Provide details of strain gage installation on Main Auxiliary Building during underpinning and frequency of readings.
- 4. Provide load test procedures for verifying hard clay foundation modulus and for correlating with cone penetrometer test.
- Provide piezometer locations and depths for construction dewatering and locations and depths of temporary wells.
- 6. With respect to monitoring movement of FIVP, either indicate on Drawing C-1493(Q) the remedial action to be taken if 3/8 inch settlement is reached or provide copy of Specification 7220-C-200 which should describe the actions to be taken.

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