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MEMORANDUM FOR:

Robert E. Jackson, Chief

Geosciences Branch, DSS

THRU:

Lyman W. Heller, Leader

Geotechnical Engineering Section

Geosciences Branch, DSS

FROM:

Owen O. Thompson, Geotechnical Engineer

Geotechnical Engineering Section

Geosciences Branch, DSS

SUBJECT:

SITE VISIT TO BAILLY WITH COE DETROIT

POOR ORIGINAL

PLANT NAME: Bailly Nuclear 1 LICENSING STAGE: Post CP DOCKET NUMBER: 50-367

TAC NUMBER: 4764

MILESTONE NUMBER: R-18

RESPONSIBLE BRANCH: LWR-4; M. D. Lynch, LPM REVIEW STATUS: Awaiting COE review comments

On February 20 and 21, I visited the Bailly site with M. D. Lynch, Project Manager, DPM, and representatives from the Corps of Engineers (COE) Detroit District and North Central Division. The licensee and his consultants also were present. The attendance list is attached.

The purpose of the visit was to enable the COE staff to become familiar with the site since the COE has assigned different reviewers to the Bailly project since the site visit on November 26, 1979.

The licensee presented a summary of the design and construction history. We were conducted on a tour of the excavation and we viewed the present site conditions. The excavation was muddy and icy. The tops of piles were visible as follows:

- a) all production piles (numbering about 1000 piles) in the turbine building area
- b) the piles installed for the indicator pile poogram, numbering about 130 piles
- c) the 40-pile cluster for pile heave evaluations

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We inspected some of the piles which had been pulled after field testing. No visible damage was observed. The licensee pointed out the five general areas (Area A through E) where jetting had caused disturbance. Although the dewatering system has not operated for many months, there was no indication of failure of the excavation slopes.

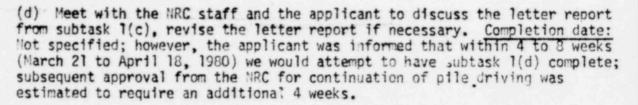
The remainder of the meeting with the licensee was confined to technical questions from the NRC and COE staff clarifying factual information.

We held a caucus with the COE staff and discussed the review milestones and schedules. The COE reminded us that a reviewer from Waterways Experiment Station (WES) for seismic design had not yet been assigned to the project. We suggested that the COE start by reviewing the items outlined in "Index to Current Design Information" Attachment B to Nipsco letter dated October 16, 1979 (R. Bohn to W. Lawhead) except item 25 (Seismic Analysis and Soil Structure Interaction Analysis). Additional technical expertise needed for further review (such as item 25) could be obtained later if needed. A copy of the referenced items is attached to this memo.

The following subtasks and schedules were agreed to, contingent upon the impact of the review schedule for Midland:

- 1. (a) Review and evaluate geotechnical engineering items 1 through 29 of Attachment B (except item 25) regarding plant pile foundations in accordance with acceptance criteria outlined in the related Standard Review Plans. Summarize, in a draft list, those design and construction details which were reviewed, identifying each as acceptable or not acceptable. In the later case, identify the unresolved issues and either draft positions or draft questions which will lead to resolution of these issues. Completion date: March 7, 1980
  - (b) Meet with the GSB and SEB staff and consultants (Newmark, Hall, Davisson Beachum, et al) and discuss the draft lists, positions and questions derived in subtask I (a). Completion date: As soon after March 7, 1980 as a meeting can be scheduled (now setffor March 10, 1980 as indicated below).
  - (c) Consolidate the results of subtasks 1(a) and 1(b) into a letter report identifying the items reviewed, COE staff positions, questions and recommendations on course(s) of action to be taken during construction to resolve any outstanding issues. Completion date: within 2 to 6 weeks of completion of subtask 1(b).

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2. Review and evaluate all geotechnical engineering aspects of the proposed plant as outlined in subtasks 2 through 5 of Interagency Agreement No. NRC-03-79-167, Task 2 - Bailly Generating Station Nuclear 1. Completion Dates: In accordance with the time allocations specified in the agreement; this incurrs approximately 4 1/2 month slip in schedule.

We informed the COE that we would schedule a meeting with SEB and NRC consultants. This meeting has now been scheduled for March 10, 1980, at 9:00 a.m. in Urbana, Illinois.

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Owen O. Thompson, Geotechnical Engineer Geotechnical Engineering Section Geosciences Branch, DSS

Attachment: As stated

cc: w/attachment

J. Knight

L. Rubenstein

D. Lynch

L. Heller

O. Thompson

. J. Kane

N. Gehring, COE Detroit

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DATE	3/5/80	3/6/80		

## SEP MEETING Attendance

T. A. Nelson

K. N. Jabbrar

M. E. Nitzel

W. J. Hall

R. P. Kennedy

R. C. Murray

C. H. Hofmayer

F. J. Tokarz

Pei-Ying Chen

S. M. Ma

Tom N. C. Tsai

D. A. Wesley

H. W. Lee

J. T. Greeves

T. M. Cheng

H. Levin

LLL

NRC/DOR, SEPB

EG&G Idaho

N. M. Newmark

Structural Mechanics Associates

LLL

NRC/DOR/SEPB

LLL

NRC/DOR/Seismic Review Group

EG&G San Ramon

NCT Engineering

Structural Mechanics Assoc.

NRC/DOR/SEPB

NRC/DSS/GSB

NRC/DOR/SEPB

NRC7DOR/SEPB