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

JUL 16 1982

Colonel R. L. Friedenwald
Executive Director of Civil Works
Office of Chief
U.S. Army Corps of Engineers
Washington, D.C. 20314

Dear Colonel Friedenwald:

Subject: Interagency Agreement (IA) No. NRC-03-82-102 Work Order No. One (1)

When signed by the Corps of Engineers (COE), this Work Order No. One (1) becomes effective under Article II entitled "Procedures for Placing Work Orders under this Agreement" of the subject IA. The COE shall acknowledge receipt of this Work Order No. One (1) immediately returning to the Nuclear Regulatory Commission (NRC) a copy of this letter signed below.

The COE shall perform the effort specified in Article I of the IA entitled "Statement of Work". See Attachment A for described requirements under this Task/Work Order. The level of effort is estimated at 0.2 staff-years over a 6-month period of performance.

Total charges under this Work Order No. One (1) shall not exceed \$15,000.00 for technical services and \$2000 for travel (in accordance with Article IV of the IA) pending receipt of a proposal from the COE and subject to negotiation of the proposed costs. Notwithstanding said negotiation, the contractor shall commence performance of this Work Order as stated above. Within thirty (30) calendar days after receipt of this Work Order, the contractor shall check appropriate block below, execute and return this document. In the event the contractor disagrees with the ceiling amount and/or schedule reflected herein, the contractor shall furnish the Contracting Officer a cost proposal and revised schedule for performance of the Work Order. Any such proposal shall be furnished with the return of this document. Within fifteen (15) calendar days after receipt of the contractor's proposal, the Contracting Officer shall either ratify the original total ceiling price and schedule or adopt the Contractor's revised estimates, or some combination of the two and revise or confirm the Work Order accordingly. Should the Contracting Officer determine that a lower total ceiling amount than that provided by the Contractor is warranted, and, in the event the Contractor remains of the belief that the total ceiling amount is inadequate to complete the assigned Work Order, the Contractor shall, upon his written request to the Contracting Officer submitted within ten (10) business days after his receipt of the Contracting Officer's confirmation or amendment of the pertinent Work Order, be excused from

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further performance of such Work Order. In such event the Contractor shall be paid for work performed to that date in accordance with the provisions of Articles IV and VIII. Your attention is directed to Article VI entitled "Task Order Ceiling."

The total amount presently obligated with respect to this Work Order No. 1 is \$17,000.00. Specific accounting and appropriation data is as follows:

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COE | NRC

Technical Services

Appropriation Symbol: 31X0200.202
B&R No.: 20-19-40-41-2
FIN No.: B 8027
Amount Obligated: \$15,000.00

Travel

Appropriation Symbol: 31X0200.202
B&R No.: 20-21
Division/Sub-Unit Code: 22-15
Amount Obligated: \$2,000.00

This authorization does not amend any terms or conditions of the agreement.

Sincerely,

Timothy F. Hagan, Contracting Officer
Technical Assistance Contracts Branch
Division of Contracts

Attachment: Task Work Order No. 2 / 1

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COE | NRC

Accepted

() Agree

() Disagree - Cost estimate will be submitted within 30 calendar days

By:

Authorized Representative
BRIAN J. BEANAGAN, COL, CE
Acting Executive Director of Civil Works

Effective Date

26 July 82

TASK WORK ORDER NO. One (1)

Watts Bar Nuclear Plant

Project Officer: G. Lear, FTS 492-8085
 Technical Manager: D. Gupta, FTS 492-8324

BACKGROUND AND OBJECTIVE

The services of the Corps of Engineers is required to assist the NRC Staff in support of the safety evaluation of the liquefaction potential of soil underneath and around the ERCW pipelines and electrical conduits. The licensee has conducted prior site investigations and soil studies producing site specific data related to these evaluations. Corps of Engineer expertise is required to supplement staff review of related geotechnical site information from all available sources to perform analysis and evaluation of the current as-constructed condition of soils underneath and around the ERCW pipelines and electrical conduits, and to perform updated analyses and evaluations.

WORK REQUIREMENTS

Estimated Level of Effort: 0.2 staff-years
 Projected Completion Date: September 1, 1982

Estimated Completion Date

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| <ol style="list-style-type: none"> 1. Review geotechnical engineering reports and data provided by the licensee and available from other sources. 2. Provide review letter reports containing guidelines for accomplishment of review and reports of evaluation of the geotechnical aspects of liquefaction potential of soils underneath and around the ERCW pipelines and electrical conduits. 3. Prepare for and attend meetings with Staff and Licensee. | <p>One (1) month after effective date of agreement.</p> <p>Three (3) months after effective date of agreement.</p> <p>Six (6) months after effective date of agreement.</p> |
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LEVEL OF EFFORT AND PERIOD OF PERFORMANCE

The level of effort is estimated at 0.2 staff-years over a 6-month period.

REPORTING REQUIREMENTS

1. Upon completion of each task as delineated in the work requirements, submit a letter report of significant findings and results to the Project Officer and the Technical Monitor.
2. Upon completion of the task work order, provide a letter report summarizing findings and results to the Project Officer and the Technical Monitor.
3. The business letter report should be submitted on a monthly basis as delineated in the Interagency Agreement.

MEETINGS AND TRAVEL

It is estimated that the Corps of Engineer personnel will be required to attend one review meeting in Bethesda, MD and one site visit to the plant during the period of work.

NRC FURNISHED MATERIALS