



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

MAY 08 2000

MANDEX, Inc.
Attn: Lawrence H. Hyde, III
Dir. of Administration
12500 Fair Lakes Circle, Suite 300
Fairfax, VA 22033-3804

SUBJECT: TASK ORDER NO. 1 ENTITLED, "SUPPORT DWM GIS AND 3D MODELING
EFFORTS IN THE HIGH LEVEL WASTE ARENA", UNDER CONTRACT NO.
NRC-02-00-008

Dear Mr. Hyde:

This confirms the April 3, 2000, verbal authorization provided to you to commence work effective the same date, under the subject task order with a temporary ceiling of \$25,000.00.

In accordance with Section G.5 entitled, "Task Order Procedures" of the subject contract, this letter definitizes Task Order No. 1. The effort shall be performed in accordance with the enclosed Statement of Work.

Task Order No. 1 shall be in effect from April 3, 2000 through November 15, 2000, with a ceiling of \$169,774.00 which is inclusive of the \$25,000.00 authorized on April 3, 2000. The amount of \$156,330.00 represents the total estimated reimbursable costs for the services to be performed as stated in the enclosed Statement of Work. The amount of \$13,444.00 represents the total estimated reimbursable costs for travel associated with this task order.

The amount presently obligated with respect to this task order is \$100,000.00 of which \$91,400.00 represents the total estimated reimbursable costs and the amount of \$8,600.00 represents the fixed fee. This obligated amount may be unilaterally increased from time to time by the Contracting Officer by written modification to this task order. The obligated amount shall, at not time, exceed the task order ceiling. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated with respect to this task order. Any work undertaken by the Contractor in excess of the obligated amount specified above is done so at the Contractor's sole risk. The Contractor shall comply with the provisions of 52.232-22 - Limitation of Funds for this incrementally funded task order.

Template = ADM-001

ADM02

Accounting Data for Task Order No. 1 is as follows:

APPN No.: 31X0200.060
B&R No.: 05015303135
FIN No.: J5266
OBLIGATED AMOUNT: \$169,774.00
FFS COMMITMENT NO.: 5000R055
BOC CODE: 252A

Issuance of this task order does not amend any terms or conditions of the subject contract.

Your contacts during the course of this task order are:

Technical Matters: James Thomas
Project Officer
(301) 415-5168

Contractual Matters: Edna Knox-Davin
Contract Administrator
(301) 415-6577

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Please indicate your acceptance of this Task Order No. 1 by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Administrator. You should retain the third copy for your records.

If you have any questions regarding this matter, please contact Edna Knox-Davin, Contract Administrator, on (301) 415-6577.

Sincerely,

Sharon D. Stewart
for Sharon D. Stewart, Contracting Officer
Contract Management Branch No. 2
Division of Contracts and
Property Management
Office of Administration

Enclosure:
As stated

ACCEPTED:

NAME: *Summa J. Dye*

TITLE: *Director of Administration*

DATE: *May 10, 2000*

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1. TITLE:

Support of DWM GIS and 3D Modeling Efforts in the High Level Waste Arena

2. SCOPE OF WORK:

This Task shall involve interaction with personnel from DOE, CNWRA, and DWM staff for the development of GIS and 3D Models of the area beneath and around Yucca Mountain, NV - the site of the proposed geologic repository for the disposal of High Level Radioactive Waste. This will be a continuing multi-year effort designed to accomplish the items listed below:

Subtask 1.1: Maintain Databases of Models: Provide continuous support to the CRADAL Manager and HLW staff to store the various GIS and 3D models developed for Yucca Mountain in a system format that assures data integrity and ease of retrieval. Contractor personnel shall assure that all models are appropriately labeled as to source, time of development and coverage. Contractor personnel shall also routinely work with the NRC Project Officer to assure that original copies of models and software being used and system backups are secured in the CRADAL safe to provide disaster recovery should data be compromised during use.

Subtask 1.2 Review of Models Developed by DOE and CNWRA: The contractor shall provide expertise to DWM staff for the review of all GIS and 3D models developed by CNWRA, DOE or DOE contractors pertaining to the Yucca Mountain, NV area. These reviews shall be performed on an "as needed" basis and shall, at a minimum, consider the quality of the data used in the development of the model as well as an expert assessment of the viability and limits of the model. Results shall be reflected in monthly reports, informal reports to select members of the DWM staff, and presentations to DWM staff.

Subtask 1.3 Model Development: At the request of the NRC Project Officer, the contractor shall develop GIS and 3D models using ArcInfo, ArcView, and Earthvision to support DWM staff in the review of material and data submitted to the NRC concerning the geology and hydrology of Yucca Mountain. This task may involve travel, as approved by the NRC Project Officer, to assess field data prior to such data being used to develop any models.

Subtask 1.4 Staff Training: The contractor shall provide expert resources to members of the DWM staff, as needed, to assist them in using any of the GIS and 3D models developed and/or maintained in CRADAL. Such effort may include one on one assistance in the use of any of the models or presentations to several staff members.

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3. DELIVERABLES:

Subtask 1.5 Maintaining Level of Expertise: Within 30 days from the date of this Task Order No. 001, the contractor will develop and submit to the NRC Project Officer for approval, a training plan for all staff members which is designed to develop journeyman personnel and keep senior personnel abreast with the latest developments in GIS and 3D modeling. The NRC Project Officer will provide comments on or approval of this training plan to the contractor within one (1) week from receipt. Should corrections or clarifications be required, the contractor will resubmit this plan accordingly, within one (1) week from receipt of the NRC Project Officer's comments. All deliverables shall be submitted in accordance with Subsection F.2 - DELIVERY FORMAT of the basic contract.

Efforts in this area shall include plans to attend formal training sessions given by the software vendors for the products used in CRADAL and attending conferences where other users are reporting on experiences with ArcInfo, Arcview, and Earthvision.

4. REPORTING REQUIREMENTS:

The contractor shall report on all such efforts monthly and make any suggested changes to the training plan to the NRC Project Officer. All reports shall be submitted in accordance with Subsection F.6 - 2052.212-71 TECHNICAL PROGRESS REPORTS of the basic contract.

5. TRAINING REQUIREMENT:

This requirement shall be accomplished in accordance with Subsection C.5 - TRAINING REQUIREMENTS of the basic contract.

6. TRAVEL:

It is estimated that three trips shall be required to Alameda, CA for training in updated Earthvision, ArcInfo, and ArcView courses as required by the basic contract. Two field trips to Yucca Mountain, Las Vegas, Nevada are also required during this period. All travel required by this task order shall be proposed for and made in accordance with Subsection G.2 - 2052.215-82 TRAVEL REIMBURSEMENT - ALTERNATE I of the basic contract.

7. PERIOD OF PERFORMANCE:

The period of performance of this task order shall be from April 1, 2000, through November 15, 2000.

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8. TECHNICAL SKILLS REQUIRED:

The contractor shall provide resumes of all personnel selected to work under this task order unless previously provided.

9. TASK ORDER LEADER:

The Task Leader for this task order will be the NRC Project Officer under the basic contract, Mr. James Thomas. He can be reached at (301) 415-5168.