



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

NOV 02 2000

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

SUBJECT: MODIFICATION NO. 2 TO 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 Modification No. 2 to Task Order No. 1: 1) extends the period of performance through November 15, 2001 in accordance with the attached Statement of Work; 2) increases the ceiling amount by \$200,705.00 from \$169,774.00 to \$370,479.00; and 3) provides incremental funding in the amount of \$40,000.00, thereby increasing the obligated amount from \$114,996.00 to \$154,996.00.

Task Order No. 1 shall be in effect from May 23, 2000 through November 15, 2001, with a ceiling of \$370,479.00. The amount of \$341,141.00 represents the total estimated reimbursable costs for the services to be performed as stated in the enclosed Statement of Work. The amount of \$29,338.00 represents the total 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 no 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.

Accounting Data for Modification No. 2 to Task Order No. 1 is as follows:

| | |
|---------------------|-------------|
| B&R No.: | 15015303135 |
| Job Code No.: | J5300 |
| BOC: | 252A |
| Appropriation. No.: | 31X0200 |
| OBLIGATED AMOUNT: | \$40,000.00 |
| FFS COMMITMENT NO.: | 5001R013 |


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Please indicate your acceptance of this Modification No. 2 to 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 Yvette Brown, Contract Administrator, on (301) 415-6507.

Sincerely,


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

Enclosure:

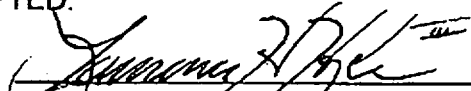
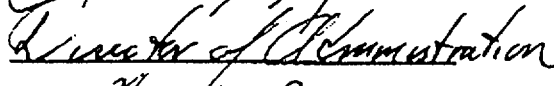
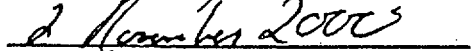
As stated

ACCEPTED:

NAME:

TITLE:

DATE:

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1. TITLE:

Support of DWM GIS and 3D Modeling Efforts Related to the Proposed High Level Waste Repository at Yucca Mountain, Nevada

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 2.1: Maintain Databases of Models: Provide continuous support to the CRADAL Manager and DWM 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 System Administrator of CRADAL 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 2.2 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 2.3 Model Development: At the request of the CRADAL Manager, the contractor shall develop GIS and 3D models using ArcInfo, ArcView, ERDAS, 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 Project Officer, to assess field data prior to such data being used to develop any models.

Subtask 2.4 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 2.2 Review of Models Developed by DOE and CNWRA: The contractors shall a review of each model submitted by DOE and CNWRA within 90 days of receipt of model. No later than 10 days following the completion of review, the contractor shall deliver a final report on the model reviewed which shall include a discussion on the limits and viability of the model.

Subtask 2.3 Development of Models: The contractors shall complete each model development task within 120 days of the original assignment, unless an alternate schedule has been approved in writing by the Project Officer. No later than 20 days following the completion of any model being developed, the contractor shall deliver a final report describing in detail the model that was developed, the assumptions used, the limitations on use, and recommendations for future work.

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. TRAVEL:

It is estimated that eight person trips shall be required to Las Vegas, NV for recovery of field data and/or to participate in meetings with DOE and CNWRA. 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.

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6. PERIOD OF PERFORMANCE:

The period of performance of this task order shall be from October 1, 2000, through November 15, 2001.

7. LEVEL OF EFFORT:

The contractor shall perform in accordance with their technical proposal dated September 25, 2000, which is hereby accepted by the NRC.

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.