

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1 CONTRACT ID CODE
5000R106

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2 AMENDMENT/MODIFICATION NO.

7

3. EFFECTIVE DATE

08-30-2000

4 REQUISITION/PURCHASE REQ. NO.

NMS-98-007 8/30

5 PROJECT NO. (If applicable)

6 ISSUED BY

CODE

7 ADMINISTERED BY (If other than Item 6)

CODE

U.S. Nuclear Regulatory Commission
Division of Contracts and Property Mgt.
Attn: T-7-I-2
Contract Management Branch 2
Washington DC 20555

8 NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southwest Research Institute
6220 Culebra Road
Post Office Drawer 28510
San Antonio, Texas 78228-0510

(X) 9A AMENDMENT OF SOLICITATION NO

9B DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO

Con# NRC-02-98-007

SBA#

10B. DATED (SEE ITEM 13)

X 06-08-1998

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment of each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12 ACCOUNTING AND APPROPRIATION DATA (If required)

B&R 05015307105 JC J5302 BOC 252A 31X0200.060
Obligate: \$75,000

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A

X 52-243-2, "Changes-Cost Reimbursement"

B THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b)

C THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF G.4, "Indirect Rates"

D. OTHER (Specify type of modification and authority)

Mutual Agreement of the Parties

E. IMPORTANT: Contractor is not, is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Please see attached pages.

SEP 1 1 00 PM '00

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A NAME AND TITLE OF SIGNER (Type or print)

R. B. Kalmbach, Director, Contracts

16A NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Barbara D. Meehan

15B CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B UNITED STATES OF AMERICA

16C DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

08-30-2000

STANDARD FORM 30 (REV 10-83)

This purpose of this modification is to increase the ceiling amount of this contract by \$94,709, to obligate funding in the amount of \$75,000, to add the statement of work for task 2 to Section C, to change the Project Officer to Edna Knox-Davin, and to revise the indirect rate for Material Handling Burden. Accordingly, the contract is modified as follows:

1. Section B.3, "Consideration and Obligation - Cost Plus Fixed Fee", subparagraphs "a" and "c" are revised to read as follows:

"(a) The total estimated cost to the Government for full performance of this contract is \$208,305, of which the sum of \$187,117 represents the estimated reimbursable costs, \$6,218 represents the cost of facilities capital, and \$14,970 represents the fixed fee."

"(c) The amount currently obligated by the Government with respect to this contract is \$188,596.00. Of this amount \$173,980 represents the estimated costs and \$14,616 represents fee."

2. Section C, "Description/Specifications/Statement of Work"

The attached statement of work is added to Section C.2, "Task Descriptions."

3. Section F.5, "Place of Delivery - Reports (Jun 1988)", subparagraph (a) is revised to change the Project Officer's name to "Edna Knox-Davin"

4. Section G.1, "Project Officer Authority", is revised to change the Project Officer's name and telephone number shown in subparagraph (a) to read: "Name: Edna Knox-Davin", "Telephone Number: 301-415-6577."

5. Section G.4, "Indirect Cost Rates", subparagraph a, is revised to change the material handling rate to read as follows:

"Category	Rate	Base	Effective Period
Material Handling		Materials and Supplies	DOA-9/25/98
		" "	9/26/98-2/14/00
		" "	2/15/00-until revised"

All other terms and conditions of the contract remain the same.

A summary of obligations for this contract is given below:

Job Code J5235

Total FY98 obligation amount \$46,000

Total FY99 obligation amount \$67,596

Total FY99 deobligation amount \$20,000

Cumulative total of NRC obligations for JC5235 \$93,596.

Job Code J5302

Total FY00 obligation amount \$95,000

Cumulative total of NRC obligations for JC5302 \$95,000.

This modification obligates \$75,000 in FY00 funds.

NRC-02-98-007
STATEMENT OF WORK
TASK ORDER NO. 2
THE WEST VALLEY DEMONSTRATION PROJECT

INTRODUCTION

This statement of work (SOW) describes activities to be performed by the Center for Nuclear Waste Regulatory Analysis (CNWRA) in providing assistance to NRC in evaluating the long-term environmental issues associated with decommissioning the West Valley Demonstration Project (WVDP) and the West Valley site.

TASK DESCRIPTION

TASK 2: DEVELOPMENT OF A DATABASE FOR, AND SUPPORT OF, A GEOGRAPHIC INFORMATION SYSTEM (GIS) AND TO PERFORM 3-DIMENSIONAL (3-D) MODELING FOR THE WEST VALLEY SITE

Background:

Most of U.S. Nuclear Regulatory Commission's (NRC) efforts at the West Valley site over the next several years will focus on the review, analysis, and endorsement or approval of the preferred alternative in the yet-to-be finalized Environmental Impact Statement (EIS) for the Closure or Long-term Monitoring of the West Valley Site. The scope of the preferred alternative could include anything from the complete packaging and removal of all contaminated materials at the site to the in-place closure of all contaminated disposal areas, facilities, structures, and equipment and long-term monitoring of the site. Even if the preferred alternative is the complete removal of all the contaminated materials at the site, the NRC's review, monitoring, and decision-making requirements for the site will continue for many years.

NRC's continued involvement with this site will require the analysis, through the use of visualization and advanced modeling techniques, of the large amount of data that has been, and will be, developed for this site. The analysis of this data will need to be performed to provide a basis for supporting NRC's decision-making responsibilities for this site.

Much of the existing data for the West Valley site is spatio-temporal in nature. Data on site facilities, waste disposal areas, geology, hydrogeology, and other environmental data are all examples of spatio-temporal data. Because of the varied array of data to be processed, analyzed, presented, and distributed in the decision-making process, efficient data management, processing, and distribution tools are required. One such tool is a Geographic Information and 3D modeling system.

A GIS and 3D model can facilitate and improve the decision making process for the site by:

1. Allowing rapid retrieval, processing, analysis, and distribution of data to interested parties.

2. Supporting the decision-making process by making a wide variety of information readily available while at the same time facilitating easy comparison and integration of the data, thereby improving interpretation.
3. Allowing easy visualization and export of the data to various multimedia formats for publication and presentation purposes.
4. Facilitating or performing certain aspects of risk assessments.

This Task shall involve interaction with personnel from the U.S. Department of Energy (DOE), the New York State Energy Research and Development Authority, CNWRA, and NRC staff for the development of a GIS and 3D Models of the West Valley Facility in upstate New York. This task will involve the items identified below:

Subtask A:

Site Visit: The contractor shall visit the West Valley facility to become familiar with the site layout and gather information on available data sources. The contractor will then visit the NRC facilities in Rockville, MD, to discuss the coordination and integration of CNWRA and CRADEL work on the West Valley GIS and 3D presentation and modeling efforts.

Subtask B:

Develop Modeling Strategy: Following the West Valley site visit, the contractor shall communicate with the NRC Program Element Manager and NRC staff working with the West Valley site to identify objectives and goals (outcomes) of the GIS and 3D modeling of West Valley and to develop a strategy for developing and performing the GIS and 3D modeling of the West Valley facility to reach the desired outcome. The strategy shall include a goal that the information developed can be utilized by the NRC staff on the NRC's GIS and 3D modeling system. The strategy developed shall be described in a letter report.

Subtask C:

Develop Modeling Database: The contractor shall obtain and incorporate existing GIS environmental database information from DOE into the NRC system, and obtain and add additional existing environmental, cultural and source term information from the West Valley site.

Subtask D:

Final Report: The contractor shall prepare and present a final written report on all work performed for this task including a discussion of the model(s) developed. The report shall include recommendations as to other work that could or should be performed on West Valley to either further validate existing models or provide additional data to support models. Contractor shall be prepared to present visual model results through a video projection of the model to NRC staff at the NRC offices in Rockville, MD, in lieu of attempting to display certain aspects of the model in a written report.

MEETINGS AND TRAVEL

One three-person trip to the West Valley site and NRC Headquarters by CNWRA personnel will be necessary so that the principal CNWRA technical personnel working on this task can become familiar with the site layout and gather information on available data sources. The contractor will then visit the NRC facilities in Rockville, MD, to become familiar with NRC's in-house GIS and 3D modeling and presentation capabilities and to consult with the NRC Program Element Manager. In addition, one three-person trip to NRC Headquarters will be needed at the completion of subtask D to present results.

PRODUCTS/SCHEDULES

Milestones	Due Date
Task 2, Subtask A - trip to West Valley site and NRC headquarters	Two weeks from the initiation of Task 2
Task 2, Subtask B - letter report describing modeling plan.	Four weeks from the initiation of Task 2
Task 2, Subtask C - develop modeling system	Two months from the completion of Subtask B
Task 2, Subtask D - present final report	December 31, 2000

FY00 ESTIMATED LEVEL OF EFFORTTask 2:

Subtask A:	5.0 staff weeks
Subtask B:	7.0 staff weeks
Subtask C:	21.0 staff weeks
Subtask D:	5.5 staff weeks
Task 2 Total	38.5 staff weeks

Period of Performance: This contract will be effective from the date of award through December 31, 2000.