

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION NO 4	2. EFFECTIVE DATE 3/29/83	3. REQUISITION/PURCHASE REQUEST NO RFPA NMS-83-035 dtd	4. PROJECT NO. (If applicable)
5. ISSUED BY U. S. Nuclear Regulatory Commission Division of Contracts Washington, DC 20555		6. ADMINISTERED BY (If other than block 5)	

7. CONTRACTOR NAME AND ADDRESS Science Applications, Inc. P. O. Box 1303 1710 Goodridge Drive McLean, VA 22102	8. AMENDMENT OF SOLICITATION NO <input type="checkbox"/>	9. MODIFICATION OF CONTRACT/ORDER NO <input checked="" type="checkbox"/> NRC-02-83-035
(Street, city, county, state, and ZIP Code)	DATED _____ (See block 9)	DATED 1/21/83 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers is extended, is not extended.

Offerors 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 signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on 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 ACKNOWLEDGEMENT TO BE RECEIVED AT THE ISSUING OFFICE 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 such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10. ACCOUNTING AND APPROPRIATION DATA (If required)

B&R No. 50-19-01-01 FIN: B7393-3 Increase: \$20,332.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) This Change Order is issued pursuant to _____
The Changes set forth in block 12 are made to the above numbered contract/order.

(b) The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) This Supplemental Agreement is entered into pursuant to authority of _____
It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

The purpose of this modification is to issue a fully definitized Task Order No. 003 entitled "Evaluation of Hydrology and Soil Characteristics for the Halls and Ends Burial Ground at West Valley, New York" and increase the amount obligated under the contract by \$20,332.00. Now, therefore, the following changes are hereby made:

I. Under ARTICLE V Consideration and Payment, Section A Estimated Cost Fixed Fee and Obligation, paragraph 1, delete the figure \$248,841.00 and insert "\$269,173.00" in lieu thereof.

II. In accordance with ARTICLE II entitled "Task Orders" authority is hereby provided for the contractor to perform Task Order No. 003 as described in the attached Statement of Work. The required effort shall be performed in accordance with the contractor's technical and cost proposals dated March 9, 1983 and March 24, 1983 which are incorporated herein by this reference. Additionally, the following is hereby incorporated into the Statement of Work:

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nt referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. <input type="checkbox"/> CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT	<input checked="" type="checkbox"/> CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 3 COPIES TO ISSUING OFFICE
14. NAME OF CONTRACTOR/OFFEROR Diane E. Findley (Signature of person authorized to sign)	17. UNITED STATES OF AMERICA Raymond P. Gustave (Signature of Contracting Officer)
15. NAME AND TITLE OF SIGNER (Type or print) Diane E. Findley Senior Contract Representative	16. DATE SIGNED 6/3/83
18. NAME OF CONTRACTING OFFICER (Type or print) Raymond P. Gustave	19. DATE SIGNED 5/27/83

1. Paragraph 6.0 Desired Completion Date is deleted in its entirety and the following is substituted in lieu thereof:

"6.0 Period of Performance

The period of performance shall commence on March 29, 1983 and end on September 30, 1983."

2. The following section **7.0** is added:

"**7.0** Cost Ceiling

The cost ceiling associated with this Task Order is \$20,332.00 of which \$18,653.00 represents the total estimated reimbursable costs and \$1,679.00 represents the fixed fee."

As a result of this modification, the total amount obligated under this contract is increased by \$20,332.00 to \$269,173.00.

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TASK DESCRIPTION
FOR
EVALUATION OF HYDROLOGY AND SOIL CHARACTERISTICS
FOR THE HULLS AND ENDS BURIAL GROUND
AT WEST VALLEY, NEW YORK
FIN - B7393

1.0 Background

The West Valley Demonstration Project Act, Public Law 96.368, directs the Department of Energy (DOE) to solidify the high-level waste stored at the West Valley Nuclear Service Center. The Act also directs the NRC to review and comment on DOE's waste management plans.

As part of the waste solidification project, DOE may bury some radioactive materials in the hulls and ends waste burial ground on the West Valley site. In that event DOE will provide NRC with hydrological and other data related to the potential migration of radionuclides from the burial ground. The NRC will need assistance in reviewing this hydrological information and the data on which it is based. This document is a description of the assistance required.

2.0 Work Required

The Contractor shall review information provided by DOE concerning the hydrology and soil characteristics of the West Valley hulls and ends waste burial ground. The Contractor shall determine that DOE's burial program is consistent with the latest technical standards.

a. Step One

The Contractor shall meet with the NRC Project Manager (PM) to review the background and current status of issues related to this effort. The Contractor shall be provided with copies of all pertinent documents (see Attachment 1).

b. Step Two

The Contractor shall meet with representatives of DOE and possibly the State of New York to discuss the information submitted by DOE and to compare DOE's data to the most current data obtained from site studies. The Contractor shall provide a briefing to the PM on the results of this meeting.

c. Step Three

The Contractor shall assess the information obtained from DOE and identify (1) areas where more or better data are needed, (2) areas where calculations were not performed correctly (3) areas where unrealistic assumptions were made, and (4) areas where other weaknesses are discovered. The Contractor shall meet with the PM to discuss the results of the assessment and shall subsequently document the conclusions in a written report.

3.0 Travel

The Contractor is expected to make one visit to the West Valley site. The Contractor shall meet with the PM at the beginning of steps one and two. It is anticipated that the location will be Silver Spring, MD or the offices of the Contractor. One or two additional meetings may be required with representatives of New York State or the U.S. Geological Survey.

4.0 Reports

The Contractor shall provide a report documenting the results of this task following the format specified in the contract. The title of this report shall be "Evaluation of the Hydrology and Soil Characteristics of the Hulls and Ends Burial Ground at West Valley, New York." The contract explains the monthly reporting requirements.

5.0 Level of Effort

The estimated level of effort for this task is 2 man-months.

6.0 Desired Completion Date

The desired completion date for this task is September 30, 1983.

Attachment 1 - List of Documents

WEST VALLEY DEMONSTRATION PROJECT

List of Hydrology Reports

- a. R. H. Dana, et al., "General Investigation of Radionuclide Retention in Migration Pathways at the West Valley, New York Low-Level Burial Site," NUREG/CR-0794, November 1979.
- b. J. C. Boothroyd, et al., "Geomorphologic Processes and Evolution of Buttermilk Valley and Selected Tributaries - West Valley, New York," MUREG/CR-2862, July 1982.