

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES 1   2	
2. AMENDMENT/MODIFICATION NO. Fifteen (15)		3. EFFECTIVE DATE 3/16/88		4. REQUISITION/PURCHASE REQ. NO. NMS-87-004 dtd. 10/15/87 & 2/21/87		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts Washington, DC 20555		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  Science Application International Corporation Environmental Technology Group 1710 Goodridge Drive, MS G-6-1 McLean, VA 22102				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO.		X NRC-02-87-004	
				10B. DATED (SEE ITEM 13)		10/10/86	
CODE		FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> 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 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 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 50-19-03-02      FIN D1080-8      Approp. 31X0200.508      \$217,000.00							
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. 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(3). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: X Paragraphs G.1 and G.10 of the contract, and mutual agreement of the parties. D. OTHER (Specify type of modification and authority) 8803220383 880316 PDR CONTR NRC-02-87-004 PDR							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  This modification definitizes Task Order No. 012, "Safety Review of NUTECH, Inc., Topical Report for a Dry Modular System Independent Spent Fuel Storage Installation", and provides additional funding under the contract.  1. Pursuant to paragraph G.10, Task Orders, the contractor is authorized to perform Task Order No. 012 in accordance with the November 13, 1987 proposal which is incorporated herein by reference as revised during telephonic negotiations of February 19, 1988, and with the attached Statement of Work.							
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) THOMAS J. RODEHAU SR CONTRACT REPRESENTATIVE				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Paul J. Edgeworth			
15B. CONTRACTOR/OFFICER Thomas J. Rodehau (Signature of person authorized to sign)		15C. DATE SIGNED 3/14/88		16B. UNITED STATES OF AMERICA B. Edgeworth (Signature of Contracting Officer)		16C. DATE SIGNED 3/16/88	

The following changes were made telephonically to the cost proposal:

	<u>Proposed</u>	<u>Revised</u>
Fringe Benefits	\$25,840.96	\$25,517.79
G&A	19,513.00	16,307.00
Fee	19,767.00	17,084.00

Task Order No. 012 shall be in effect for a period from the effective date of this task order through September 30, 1988.

The key personnel considered essential to the performance of this task order are: Dr. F. Wimpey, Mr. J. Stokley, Dr. T. Albert, Dr. D. Prelewicz, Mr. R. Sievers, Dr. D. Stahl, Mr. R. Belanger.

The Contractor agrees that such personnel shall not be removed from the effort under the task order without compliance with Contract Clause H.1 Key Personnel.

The total cost ceiling of this task is \$211,223.00 of which \$194,139.00 represents the total estimated cost and \$17,084.00 represents the fixed fee.

Under Section G - Contract Administration Data, paragraph G. 1, Contract Ceiling Amount, the second sentence is revised to read:

"The amount of funds available for performance under this contract is increased by \$217,000.00 from \$719,800.00 to \$936,800.00."

TASK DESCRIPTION  
FOR  
TECHNICAL ASSISTANCE  
IN THE REVIEW OF  
NUTECH, INC.  
DRY MODULE INDEPENDENT SPENT FUEL STORAGE INSTALLATION TOPICAL REPORT  
B&R NO. 50-19-03-02  
FIN D1080

1.0 Background

NUTECH, Inc. is expected to submit for review in January 1988 a Topical Report (TR) for a dry concrete module and stainless steel canister system independent spent fuel storage installation (ISFSI) design.

2.0 Work Required

This task is to provide assistance to the NRC in the safety review of the ISFSI design TR submitted by NUTECH. The scope of the review is principally based on 10 CFR Part 72. The review is a multidisciplinary activity culminating in written record that will clearly demonstrate the applicant's compliance with the requirements and criteria specified in 10 CFR Part 72. The written material furnished by the Contractor should be suitable for inclusion in the NRC's Safety Evaluation Report.

2.1 Staffing

The principal investigators represent the technical expertise provided by the Contractor and provide technical continuity during the entire review process. They should have professional credentials in the technical areas assigned to them that will qualify them as expert witnesses for testifying at public hearings. They should have a clear understanding of the depth of review generally required by the NRC and specifically required by the type of activity proposed by the applicant for the disciplines they represent.

In areas that can be best accomplished by less experienced personnel, the principal investigators may act as overseers, providing contractor quality control to task activities.

The reviewers will be responsible for a timely technical review of discrete areas within the entire review effort. Reviews can be performed by any qualified support staff member, but may be performed by a principal investigator or even by the project manager.

The reviewers who perform the actual work shall provide detailed technical records of the methods used to evaluate all aspects of their areas of responsibility. Upon completion of an evaluation, the reviewer or responsible principal investigator will distill this record to suitable documentation for inclusion in NRC reports.

## 2.2 Scope

The requirements of 10 CFR Part 72 will dictate the overall scope of the review. All evaluations performed by the Contractor should be based upon fulfilling specific requirements and criteria established in Subparts E and F of 10 CFR Part 72. Within Division 3 Regulatory Guides there are applicable methods acceptable to the NRC for implementing some 10 CFR Part 72 Requirements and criteria. If adopted by the applicant these regulatory guides can be used to qualify discrete review areas.

Enclosed is a topical work breakdown structure for the safety-related review of a dry cask ISFSI TR. For this task, the contractor is not responsible for the review of 4.3 Safeguards, 4.4 Quality Assurance, 4.5 Emergency Planning, and 5.0 Administration, but is responsible for all remaining areas shown on the work breakdown structure. The review of 1.0 Site will consist of assuring the range of site parameters developed and evaluated are appropriately identified.

The review of those portions of 3.1 Fuel Transfer that take place within the reactor facility will consist only of assuring general compatibility of the reactor facility equipment and operations with ISFSI requirements.

A transfer cask for onsite transfer of the spent fuel (in a stainless steel canister) along with a transfer vehicle are part of the NUTECH modular system. Therefore, the design of this cask and vehicle, which constitute components in the modular system, are part of this review.

The scope of this task does not include any participation in a public hearing nor any additional review effort that could evolve from such participation.

## 2.3 Schedule

The following schedule is based on estimates of time intervals to accomplish steps in the review process through the NRC documentation state. However, the overall schedule is dependent on the applicant's response to NRC requests for information and any outstanding concerns.

Task Start-up and Coordination Meetings	1 Week
Complete Requests for Additional Information	6 weeks
Complete Evaluation, Identifying	
Outstanding Concerns	4 weeks
Complete Final Evaluation	6 weeks

Discrete areas within task activity should be treated on the individual reviewer level. If a discrete area of review is satisfied by the initial submittal from the applicant, its final evaluation and documentation should be completed in the early stages of the review and should not wait for the review steps required for a more difficult area.



### 3.0 Task Reports

Two types of reports are required; reports on discrete areas of review and monthly reports identifying the overall progress of the task. For each discrete review area, the Contractor shall provide details of the review method, requests for information in a form suitable to transmit to the applicant, and documentation summarizing the evaluation and findings suitable to include in NRC reports. The last of these shall be submitted in draft and final form.

Monthly reports shall be submitted in accordance with the terms and conditions of the basic contract.

### 4.0 Travel

It is expected that there will be monthly coordination meetings between the Contractor and NRC staff throughout the duration of the task. This should be readily accommodated because of the proximity of the Contractor's offices and NRC offices in Silver Spring, and Rockville, Maryland.

If during the review process an area of review requires technical discussions between the Contractor and the applicant, the Contractor may be requested to attend meetings with the applicant. It is anticipated this could involve three meetings at NRC's offices in Silver Spring, Maryland. Additionally, the applicant may seek a meeting prior to submittal for guidance. Contractor staff may be requested to attend such a meeting to provide support and to familiarize themselves with the applicant's proposed design submittal.

### 5.0 NRC Furnished Materials

The NRC will furnish the Contractor copies of documents docketed under Project No. M-49.

### 6.0 Completion Date

The completion date for this technical assistance task is September 30, 1988. If required, a separate task order will be initiated to utilize selected reviewers from this task in public hearings associated with this licensing action.

### 7.0 Technical Direction

John. P. Roberts is designated the NMSS Project Manager. Technical instructions may be issued from time to time during the duration of this task. Technical instructions shall not constitute new assignments of work or changes of such nature as to justify an adjustment in cost or period of performance.

Enclosures:

1. Work Breakdown Structure

