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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

MAR 25 1994

Science & Engineering Associates, Inc.
ATTN: Ms. Ilene Colina
SEA Plaza
6100 Uptown Boulevard, N.E.
Albuquerque, New Mexico 87110

Dear Ms. Colina:

SUBJECT: CONTRACT NO. NRC-04-91-071, TASK ORDER NO. 6, MODIFICATION NO. 2

The purpose of this modification is to: (1) increase the level of effort by 2196 hours from 2360 hours to 4556 hours for the performance of additional within scope efforts; (2) extend the period of performance through December 31, 1994, (3) increase the task order ceiling amount by \$226,831.00 from \$217,993.00 to \$444,824.00 of which \$409,976.00 represents the reimbursable costs and \$34,848.00 represent the fixed fee, and (4) increase incremental funding by \$225,000.00 from \$217,993.00 to \$442,993.00 of which \$408,288.48 represents the reimbursable costs and \$34,704.52 represents the fixed fee. Accordingly, the contractor's proposal dated January 27, 1994 is hereby accepted and incorporated under this Modification No. 2, with the following subtask changes:

1. "Subtask 6.2.1. - Funds have been retained in the amount of \$38,558.00 and will be used for subcontracting to ARL. The review of European experiments and discussions with industry experts will require the services of "peer reviewers". In addition, this effort shall focus on developing "simple" models and carrying out analyses to support the debris generation calculations resulting from Subtask 6.1. "Limiting" type calculations are needed for "bounding" the potential extent of losing ECCS cooling due to debris blockage and for establishing "simplified" calculational guidelines."
2. "Subtask 6.2.2. - SEA shall focus on developing "simple" analysis guidelines which could be used to determine where revisions to RG 1.82, Rev. 1 are needed."
3. "Subtask 6.3. - SEA shall minimize near term expenditures and use findings from Subtasks 6.1 and 6.2., available PRA and IPE analyses and feedback from public meetings to prepare a revised statement of findings and costs for this subtask. This revised statement of findings should be structured to: (a) estimate CDF impacts; (b) identify potential "fixes" other than increasing strainer areas; (c) order such possible actions in preferred order with accompanying discussion; (d) perform preliminary cost estimates for such backfits as installing delta P measurements, developing EOPs and training operators, backflush design concepts

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and estimated costs modeled after European testing and backfitting. With the exception of identifying available PRA information and performing limited calculations related to CDF impacts resulting from event probabilities, more detailed work on this subtask shall require formal notification from the NRC Contracting Officer. SEA shall not exceed the amount obligated for Subtask 6.3 unless a modification is issued by the Contracting Officer."

4. "Subtask 6.4. - SEA shall limit work on Subtask 6.4 to literature searches and obtaining information from Sweden's SKI, more detailed work on this subtask shall require formal notification from the NRC Contracting Officer. SEA shall not exceed the amount obligated for Subtask 6.4 unless a modification is issued by the Contracting Officer."
5. "DELIVERABLES: SEA shall provide the NRC Project Officer, as part of the monthly report update, a continuous update calculation of all expenditures on Subtasks 6.1. through 6.5., which will enable NRC Project Officer to identify the level of completion and depletion. SEA shall prepare a final report that incorporates into one week, the results of Subtasks 6.1., 6.2., 6.3., and 6.4., which will be issued for public comment. The final report should be consistent with NUREG/CR report format guidelines. A draft of this report (for NRC review) shall be delivered by June 10, 1994. A "for comment" copy of this report shall be delivered 10 working days following receipt of changes needed resulting from NRC review comments."

The second paragraph of the definitization letter for this task order is revised to read as follows:

"Task Order No. 6 shall be in effect from August 31, 1993 through December 31, 1994 with a total cost ceiling of \$444,824.00. The amount of \$409,976.00 represents the total estimated reimbursable costs, the amount of \$34,848.00 represents the fixed fee. The amount of \$38,558.00 is set aside for subcontractor or consultant service which has been identified as work needed under this subject task order. These funds have been held in abeyance pending receipt and approval of a hydraulics expertise subcontractor or consultant who meets NRC's expertise and level of knowledge. The subcontractor or consultant services shall not be performed without the execution of a modification to the subject task order for commencement of these efforts."

The accounting data for this Modification No. 2 to Task Order No. 6 are as follows:

B&R No.:	46019202400	BOC No.:	252A
Job Code No.:	L1854	Obligated Amount:	\$225,000.00
Appropriation No.:	31X0200.460	RES Unique Identifier:	RES-C94-080

A summary of obligations for this task order, from award date through the date of this action is given below:

Total FY93 obligation amount: \$256,551.00
Total FY94 obligation amount: \$225,000.00

Cumulative Total of NRC Obligations: \$481,551.00 (includes the \$38,558 set aside for the subcontractor or consultant)

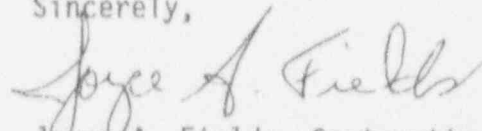
This modification to Task Order No. 6 obligates \$225,000.00 in FY94 funds.

The issuance of this modification does not amend any terms or conditions of the subject contract.

SEA shall cannot exceed the amount obligated under this task order unless a formal modification is issued by the Contracting Officer.

Please indicate your acceptance of this task order by having an official, authorized to bind your organization, execute three (3) copies of this document in the space provided and return two (2) copies to the U.S. Nuclear Regulatory Commission, ATTN: Jeanne Cucura, Division of Contracts and Property Management, P-902, ADM/DCPM/CAB3, Washington, D.C. 20555. You should retain the third copy for your records.

Sincerely,



Joyce A. Fields, Contracting Officer
Contract Administration Branch No. 3
Division of Contracts and
Property Management
Office of Administration

Enclosure:
As stated

ACCEPTED:

Glenn B. Colina
Name

Contract Administrator
Title

4/4/94
Date