DCP

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

MAR 23 2000

Information Systems Laboratory, Inc.
Attn: Nancy Aguinaldo
11140 Rockville Pike, Suite 500
Rockville, MD 20852

Dear Ms. Aguinaldo:

SUBJECT: TASK ORDER NO. 2 MODIFICATION NO. 1 UNDER CONTRACT NO. NRC-04-97-039

In accordance with Section G.5, Task Order Procedures, of the subject contract, this letter definitizes Task Order No. 2 Modification No. 1. This effort shall be performed in accordance with the enclosed Statement of Work.

The period of performance for Task Order No. 2 is changed to run from October 27, 1999 through April 30, 2001. The total cost plus fixed fee for full performance of this task order is increased by $152, 702 from $891,921 to $1,044,623. The total estimated cost for this task order is increased by $142,711 from $833,572 to $976,283. The total fixed fee for this task order is increased by $9,990 from $58,350 to $68,340. Funds in the amount of $100,000 are hereby allotted to this task order. This increased the total obligated amount for this task order from $575,000 to $675,000. Of this total obligated amount of $675,000, $630,841 represents funds for the estimated cost and $44,159 represents funds for the fixed fee. It is estimated that these allotted funds will be sufficient for performance through September 30, 2000. Furthermore, for this task order, it is agreed that the Government will not reimburse the Contractor for overhead costs exceeding 94% of direct labor and G&A costs exceeding 24% of total costs before G&A.

Accounting data for Task Order No. 2 Mod 1 is as follows:

B&R No.: 06015110125
Job Code: W6706
BOC Code: 252A
RES ID: RES-C00-370
Appropriation No.: 31X0200
Obligated Amount This Action: $100,000
Total FY 2000 Obs: $675,000

The following individuals are considered by the Government to be essential to the successful performance of the work issued under this task order modification:

Glen Mortensen, Ben Gitnick, Terry Gitnick, Dan Prelewicz, William Arcieri

The contractor agrees that such personnel shall not be removed from the effort under this task order without compliance with Contract Clause H.4-Key Personnel

Template=ADM001

ADM02

The issuance of this task order does not amend any terms or conditions of the subject contract except that indirect rate ceilings are imposed for ISL.
Your contacts during the course of this task order are:

Technical Matters: Tim Lee, Project Officer
(301) 415-6479
Contractual Matters: Stephen Pool, Contract Specialist
(301) 415-8168

Please indicate your acceptance of this task order 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 Specialist. You should retain the third copy for your records.

Sincerely,

Stephen M. Pool, Contracting Officer
Division of Contracts and Property Management

Enclosure:
As stated

ACCEPTED: TASK ORDER NO. 2 Mod 1

Nancy L. Olguin Ado 3/23/00
NAME DATE

Controller/Contracts Mgr
TITLE

Statement of Work for Modification No. 1 to
RELAP5 code Maintenance Contract
NRC-04-97-039

Task Order #2

(A) Delete the following subtasks:

2.1.1 (b)	Interfacial Temperature Model Improvement	2 staff-months
2.1.1 (c)	Interfacial Temperature Model for Non-condensible Mixtures	4 staff-months
2.2.3 (a)	Initial Conditions Wizard (SNAP)	1.5 staff-months

(B) Add the following tasks to the task order.

2.1.1 (d) Nearly-implicit Time Advancement Improvement

The nearly-implicit advancement scheme has been in the RELAP5 code for a long time, but it has not been working correctly. This option is supposed to make the code run faster and more robust. Instead, past attempts to use this option generally resulted in much slower execution of the code. This task will identify and correct errors in the nearly-implicit time advancement scheme in RELAP5 to make the code running faster and more robust as the scheme is designed to do.

Estimated Level of Effort:	6 staff-months (Of which 3 s-m will be funded in FY2001)
Estimated Completion Date:	4/30/2001

2.2.5 Conversion of SNAP to JAVA from C++ Language

SNAP is currently being coded in the C++ language. In this task, the contractor shall convert SNAP to the JAVA language that is platform independent to facilitate portability of the SNAP.

Estimated Level of Effort:	4.5 staff-months
Estimated Completion Date:	March 31, 2000

2.4 Pressurized Thermal Shock (PTS) Analysis

The USNRC is re-examining potential vulnerability of operating reactors to PTS. The contractor shall perform RELAP5 and REMIX analyses for the Palisades plant and provide necessary input for fracture mechanics analyses.

In addition to updating the input deck to include hardware design changes and changes in operating procedures at the plant, for planning purposes, it should be assumed that the plant shall be analyzed for three transients that are tentatively identified as those initiated by a main steam line break, a cold leg break and a hot leg break. It should also be assumed that 10 sensitivity analyses shall be required.

A quick-look report shall be provided for each transient analysis including relevant sensitivity studies. A final report shall be provided when all three transient analyses and sensitivity calculations are completed. In addition to the findings, the report shall contain all the assumptions made to each analysis and discussions of possible impact of the assumptions. In addition to appropriate number of paper copies, the report and calculation files (input, output, restart and demaxed) shall also be submitted in CDs.

Estimated Level of Effort:	6 Staff-months
Estimated completion Date:	12/31/2000