



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

JAN 03 2003

Purdue Research  
Attn: Luanne Flynn  
1063 Hovde Hall, Purdue University  
West Lafayette, IN 47907-1063

Dear Ms. Flynn:

SUBJECT: MODIFICATION NO. 17 TO TASK ORDER NO. 6 ENTITLED "SNAP RUNTIME AND OUTPUT VISUALIZATION DEVELOPMENT" UNDER CONTRACT NO. NRC-04-97-046

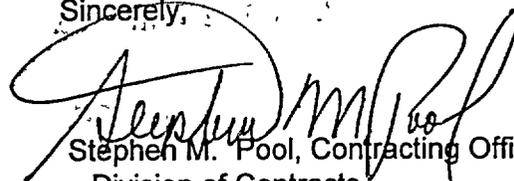
In accordance with Section G.4, Task Order Procedures, of the subject contract, this letter definitizes Task Order No. 6 Modification No. 17. This effort shall be performed in accordance with the enclosed Statement of Work. The period of performance for Task Order No. 6 will run from January 9, 1998 through February 28, 2003. The total estimated cost for performance of the task order is increased by \$50,000 from \$1,317,518 to \$1,367,518. Funds in the amount of \$50,000 are hereby obligated for performance of this task order bringing the total obligated funds from \$1,367,518.

Accounting data for Task Order No. 6 MOD 17 is as follows:

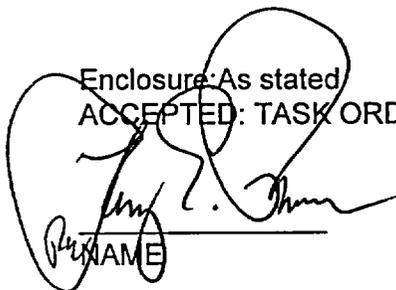
B&R No.: 360-15-11-020-5  
Job Code: W-6749  
BOC Code: 252A  
RES ID: RES-C03-327  
Appropriation No.: 31X0200  
Obligated Amount This Action: \$50,000.

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

Enclosure: As stated  
ACCEPTED: TASK ORDER NO. 6 MOD 17

  
\_\_\_\_\_  
NAME

1/10/03  
\_\_\_\_\_  
DATE

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Modification (No. 17) to the Statement of Work for Task Order #6, "SNAP Runtime and Output Visualization Development," under Contract No. NRC-04-97-046, "Thermal-Hydraulic Research"

**Additional Work Requirements (1/1/03 - 2/28/03)**

Add the following new Tasks 29 through 31 to the SOW.

**Task 29. TRAC-M Portable Restart (TPR)**

The TPR file format was recently implemented in the SNAP and TRAC-M codes. This task provides technical support to the staff on the TPR interface in the TRAC-M code.

Estimated Level of Effort: 1 staff-month

Estimated Completion Date: 2/28/03

**Task 30. CONTAIN Post Processing**

The CONTAIN code was successfully modified along with the SNAP post-processing module, AcGrace, to provide an improved graphical interface to the CONTAIN output data. However, the modifications are very extensive and require testing and review by the NRC staff. This task provides technical support to the staff to enhance the SNAP/CONTAIN user interface and fix errors.

Estimated Level of Effort: 1 staff-month

Estimated Completion Date: 2/28/03

**Task 31. SNAP ModelEditor**

SNAP is currently capable of reading or building a RELAP5 deck and exporting the deck to be run by the RELAP5 code or into a TPR file for reading into TRAC-M (this is also how a RELAP5 input deck is converted to a TRAC-M deck). The staff has been using this capability for several months and has identified issues that require code modifications to SNAP ModelEditor. This task provides code modifications to the SNAP ModelEditor and fixes errors.

Estimated Level of Effort: 1 staff-month

Estimated Completion Date: 2/28/03