



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

MAR 06 2003

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

Dear Ms. Flynn:

SUBJECT: MODIFICATION NO. 18 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. 18. 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 March 31, 2003. The total estimated cost for performance of the task order is increased by \$32,000 from \$1,367,518 to \$1,399,518. Funds in the amount of \$32,000 are hereby obligated for performance of this task order bringing the total obligated funds from \$1,399,518.

Accounting data for Task Order No. 6 MOD 18 is as follows:

B&R No.: 360-15-11-020-5  
Job Code: W-6749  
BOC Code: 252A  
RES ID: RES-C03-362  
Appropriation No.: 31X0200  
Obligated Amount This Action: \$32,000.

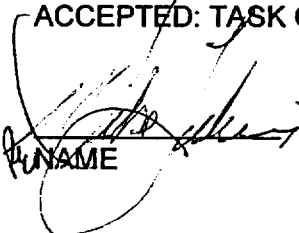
Please indicate your acceptance of this task order by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Specialist. You should retain the third copy for your records.

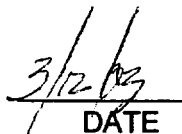
Sincerely,

  
Stephen M. Pool, Contracting Officer  
Division of Contracts

Enclosure: As stated

ACCEPTED: TASK ORDER NO. 6 MOD 18

  
NAME

  
DATE

700000

TEMPLATE - ADM001

ADM002

Modification (No. 18) Task Order #6, "SNAP Runtime and Output Visualization Development,"  
under Contract No. NRC-04-97-046, "Thermal-Hydraulic Research"

**Additional Work Requirements (3/1/03 - 3/31/03)**

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

**Task 32. ModelEditor Import of TRAC-M ASCII Full Plant and Restart Files.**

Currently, the SNAP ModelEditor can only read in a TRAC-M model through the TPR file format. TPR files are not designed to handle restart information and to make them do so needlessly complicates the TPR file format. A more robust and simpler approach to handling TRAC-M restart capabilities through SNAP is to have the SNAP ModelEditor directly import the TRAC-M ASCII input decks. Currently the SNAP ModelEditor can export a TRAC-M model in either TPR format or ASCII format. The contractor shall modify the ModelEditor application in order to import TRAC-M ASCII full plant decks and restart decks.

Estimated Effort: 2.25 staff-months  
Estimated Completion Date: March 31, 2003.

**Task 33. TRAC-M Portable Restart (TPR)**

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

Estimated Level of Effort: 0.25 staff-month  
Estimated Completion Date: March 31, 2003

**Task 34. AcGrace Maintenance and Modifications**

- A. Migrate 'analysis code' changes to new AcGrace versions as they become available.
- B. Correct errors discovered in AcGrace. Update the AcGrace user's manual as appropriate.

Estimated Level of Effort: 0.25 staff-month  
Estimated Completion Date: March 31, 2003