



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

SEP 06 2002

1008155

Purdue Research Foundation  
ATTN: Thomas Wright  
1063 Hovde Hall, Purdue University  
West Lafayette, IN 47907-1063

Dear Mr. Wright:

SUBJECT: TASK ORDER NO. 4 MODIFICATION NO. 8 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. 4 Mod 8. This effort shall be performed in accordance with the enclosed Statement of Work.

The period of performance for Task Order No. 4 is changed to run from September 30, 1997 through December 31, 2002. The total estimated cost for full performance of this task order is increased by \$65,000 from \$884,370 to \$949,370. Funds in the amount of \$65,000 are hereby obligated for performance of this task order as modified. This action increases the total cumulative obligated amount from \$833,989.68 to \$898,989.68. The Contractor shall not incur costs for this task order which exceed this cumulative obligated amount of \$898,989.68. All other terms and conditions of task order #4 remain unchanged.

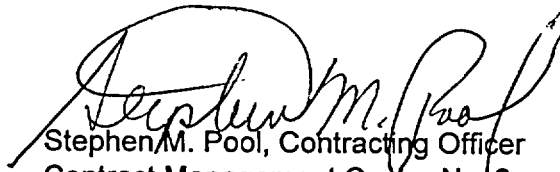
Accounting data for Task Order No. 4 Mod 8 is as follows:

B&R No.: 26015110205  
Job Code: Y6663  
BOC Code: 252A  
RES ID: RES-C02-480  
Obligated this action: \$65,000  
Appropriation No.: 31X0200

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.

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

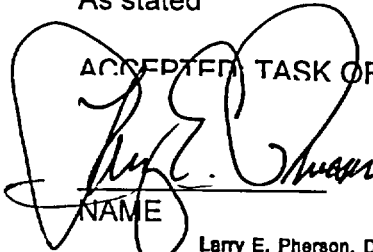
Sincerely,



Stephen M. Pool, Contracting Officer  
Contract Management Center No. 2  
Division of Contracts

Enclosure:  
As stated

ACCEPTED TASK ORDER NO. 4 Mod 8



SEP 16 2002

NAME

DATE

Larry E. Pherson, Director  
Sponsored Program Administration

TITLE

Modification (No. 8) to the Statement of Work for Task Order #4, "Phase Separation in Tees," under Contract No. NRC-04-97-046, "Thermal-Hydraulic Research"

**Additional Work Requirements (9/1/02 – 12/31/02)**

Add the following new Tasks 19 and 20 to the existing SOW.

**Task 19. Perform Steady-State, No Reserve Tests Without Vessel Internal**

This task performs steady-state, no reserve tests without vessel internal. An upper bound of pool entrainment rate is expected from these tests due to the minimum structure surface for droplet deposition.

Estimated Level of Effort : 3 staff-months  
Estimated Completion Date: November 10, 2002

**Task 20. Modify Facility**

This task modifies the test facility by adding a reactor vessel internal that scales to AP1000. The internal structure, particularly the control rod guides, should be removable individually for the purpose of parametric studies on the effects of droplet deposition and re-entrainment on the internal.

Estimated Level of Effort : 6 staff-months  
Estimated Completion Date: December 31, 2002