



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

JAN 21 2000

Purdue Research Foundation  
ATTN: Edie Doland  
1063 Hovde Hall, Purdue University  
West Lafayette, IN 47907-1063

Dear Ms. Doland:

SUBJECT: TASK ORDER NO. 8 MODIFICATION NO. 4 ENTITLED "IMPROVEMENTS TO PARCS" 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. 8 Modification No. 4. This effort shall be performed in accordance with the enclosed Statement of Work. The completion date for task 6 under this task order is changed to May 31, 2000.

The period of performance for Task Order No. 8 is remains June 1, 1998 through May 31, 2000. The total estimated cost for full performance of this task order is increased by \$19,304 from \$199,604 to \$218,908. Funds obligated to this task order are hereby increased by \$19,757 from \$199,151 to \$218,908. The Contractor shall not incur costs for this task order which exceed the cumulative obligated amount of \$218,908.

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

B&R No.: 06015110135  
Job Code: W-6749  
BOC Code: 252A  
RES ID: RES-C00-350  
Appropriation No.: 31X0200  
Obligated Amount This Action: \$19,757  
FY 98 Obligations: \$59,654  
FY 99 Obligations: \$ 89,497  
FY 00 Obligations \$ 69,757  
Cumulative Obligations: \$218,908

The following individuals are considered by the Government to be essential to the successful performance of the work hereunder:

Thomas Downar

The contractor agrees that such personnel shall not be removed from the effort under this task order without compliance with Contract Clause H.2-Key Personnel

Purdue

Contract No. NRC-04-97-046  
Task Order No. 8 MOD 4  
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The issuance of this task order does not amend any terms or conditions of the subject contract.

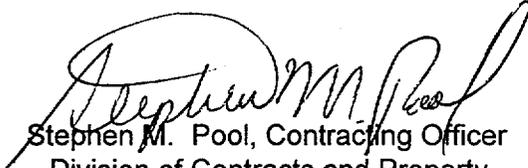
Your contacts during the course of this task order are:

Technical Matters: James Han, Project Officer  
(301) 415-6023

Contractual Matters: Stephen Pool, Contract Specialist  
(301) 415-8168

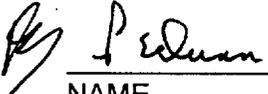
Please indicate your acceptance of this task order by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Specialist. You should retain the third copy for your records.

Sincerely,

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

Enclosure:  
As stated

ACCEPTED: TASK ORDER NO. 8 MOD 4

  
NAME

FEB 7 2000  
DATE

Peter E. Dunn  
Assistant Vice President for Research  
TITLE

4  
Modification (No. 2) to the Statement of Work of Task Order # 8, "Improvements to PARCS,"  
under Contract # NRC-04-97-046 and Job Code W6749, "Thermal-Hydraulic Research"

### **Additional Work Requirements**

Task 6. Perform TRAC-M/PARCS Calculations for a Peach Bottom Turbine Trip  
Transient

This task performs both 1-D and 3-D kinetics calculations and analysis using the TRAC-M/PARCS code (which will eventually become the TRAC-M code) for a turbine trip transient at the Peach Bottom Nuclear Power Plant. Compare calculations with the plant data. Work closely with Scientech personnel, who are performing the same transient calculation using TRAC-M with point kinetics. Prepare a letter report in both text and electronic format. If possible, the report should include the Scientech-performed point kinetics calculation as a comparison.

Estimated Level of Effort: 2.5 staff-months

Estimated Completion Date: April 30, 2000