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

NOV 30 1999

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. 3 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. 3. This effort shall be performed in accordance with the enclosed Statement of Work.

The period of performance for Task Order No. 8 is changed to run from June 1, 1998 through May 31, 2000. The total estimated cost for full performance of this task order is increased by \$50,453 from \$149,151 to \$199,604. Funds obligated to this task order are hereby increased by \$50,000 from \$149,151 to \$199,151. The Contractor shall not incur costs for this task order which exceed the cumulative obligated amount of \$199,151.

Accounting data for Task Order No. 8 Modification No. 3 is as follows:

B&R No.: 06015110135
Job Code: W-6749
BOC Code: 252A
RES ID: RES-C00-331
Appropriation No.: 31X0200
Obligated Amount This Action: \$50,000
FY 98 Obligations: \$59,654
FY 99 Obligations: \$ 89,497
FY 00 Obligations \$ 50,000
Cumulative Obligations: \$199,151

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

PDR CONTR NRC-04-97-046

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Purdue

Contract No. NRC-04-97-046
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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 3


NAME

DEC 8 1999
DATE

Peter E. Dunn
Assistant Vice President for Research

TITLE

3
Modification (No. ~~X~~) 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

Subtask 1.4. Dynamic Memory Allocation and Conversion to F90

This subtask (listed as optional in the first SOW, dated May 28, 1998) installs the dynamic memory allocation package (as used in TRAC-M) into PARCS, corrects errors, and converts PARCS from F77 to F90 to make it consistent with the TRAC-M standard. The NRC SQA procedures must be followed. Prepare a letter report in both text and electronic format.

Estimated Completion Date: May 31, 2000
Estimated Level of Effort: 3 staff months

Task 4. Support the Staff's MSLB Benchmark Calculations

This task provides technical support to the NRC staff in the performance of main steam line break (MSLB) benchmark calculations using the coupled TRAC-M/PARCS code. Participation in the calculations is included.

Estimated Completion Date: May 31, 2000
Estimated Level of Effort: 1.5 staff months

Task 5. Revise PARCS Manuals

This task revises the existing PARCS manuals (written for the base version - Version 1.00) to reflect the improvements made since the inception of Task Order # 8. The revised manuals are for the latest version of PARCS - Version 1.05. Document the revised manuals in both text and electronic format.

Estimated Completion Date: May 31, 2000
Estimated Level of Effort: 3 staff months

Meetings and Travel:

The contractor will attend a meeting at the NRC office in Rockville, Maryland. For planning purpose, the meeting will involve two people and last for two days. However, any travel must be approved in advance by the NRC Technical Monitor.