



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

FEB 07 2002

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

SUBJECT: MODIFICATION NO. 2 TO TASK ORDER NO. 12
UNDER CONTRACT NO. NRC-04-97-046

Dear Mr. Wright:

This letter confirms verbal authorization provided on January 17, 2002, and definitizes Modification No. 2 to Task Order No. 12. Accordingly, this task order modification shall be performed in accordance with the attached Statement of Work and in accordance with the contractor's technical proposal dated January 11, 2002. This modification increases the ceiling amount by \$65,000 from \$64,930 to \$129,930, the obligated amount by \$29,950 from \$64,930 to \$94,880, and extends the period of performance through November 30, 2002. The effective date of this modification is January 16, 2002. Accordingly, the task order is hereby modified as follows:

The total estimated cost for full performance of Task Order No. 12 is \$129,930 with a period of performance of April 1, 2001 through November 30, 2002. Funds in the amount of \$94,880 have been obligated for performance. The Contractor shall not incur costs for this task order which exceed the cumulative obligated amount of \$94,880.

Accounting Data for Task Order No. 12, Modification No. 2, are as follows:

B&R No.:	26060401710
APPN No.:	31X0200.260
Job Code:	F6611
BOC:	252A
RES ID:	RES-C02-368
Obligated Amount of this Action:	\$29,950

A summary of obligations under this task order, from the date of award through this modification are provided below:

Total FY 01 NRC Obligations:	\$64,930
Total FY 02 NRC Obligations:	\$29,950
Cumulative Obligations:	\$94,880

ADM02

This modification obligates FY 02 funds in the amount of \$29,950

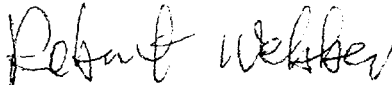
All other terms and conditions remain unchanged.

Please indicate your acceptance of this task order modification by having an official, authorized to bind your organization, execute three(3) copies of this document in the space provided and return two(2) copies to Deborah Neff, Contract Specialist, at the address listed below. You should retain the third copy for your records.

U.S. Nuclear Regulatory Commission
Division of Contracts & Property Management
Mail Stop T-7-I-2
Washington, DC 20555


If you have any questions concerning this action, please contact Ms. Neff at 301-415-8160.

Sincerely,


for Mary H. Mace, Contracting Officer
Contract Management Branch No. 1
Division of Contracts & Property Management
Office of Administration

Enclosure:
As stated

ACCEPTANCE:


Name

Eric E. Fulkerson
Sr. Contract Manager

Title

FEB 12 2002

Date

Modification (No. 2) to the Statement of Work for Task Order #12, "MELCOR Assessment Against SCDAP/RELAP5," under Contract #NRC-04-97-046 and Job Code W6749, "Thermal-Hydraulic Research" _____

Additional Work Requirements (1/16/02 - 11/30/02)

Revise Task 3, and incorporate new Tasks 4 and 5.

Task 3. Provide Technical Assistance

This task provides on-call technical assistance to the NRC, including attending meetings, making presentations, reviewing technical documents, and performing additional MELCOR calculations.

Estimated Level of Effort: 2 staff-months
Estimated Completion Date: November 30, 2002

Task 4. Perform Additional MELCOR Assessment Against SCDAP/RELAP5

Perform a TMLB station blackout calculation (loss of all ac power and auxiliary feedwater to the steam generators) using MELCOR for the Zion nuclear power plant and compare the results with the SCDAP/RELAP5 calculation provided by the NRC. This calculation will use the latest MELCOR deck (to be provided by NRC) with a 5-ring and 10-level core nodding. More control volumes will be used to model the steam generator tubes; a PORV on the steam generator will stick open after the first opening, and the primary system will not be allowed to depressurize upon the failure of a piping. Try to identify the causes of discrepancy between the results of these two codes, if any. Prepare a letter report in both text and electronic format.

Estimated Level of Effort: 1.5 staff-months
Estimated Completion Date: November 30, 2002

Task 5. Familiarization with MAPP

This task is for the contractor to become familiar with MAAP to allow comparisons with MELCOR. The learning process includes preparing input decks, performing calculations, interpreting results, and having an overall understanding of the models in the code. Initiation of the task should not begin until receipt of the code and manuals, which will be provided by NRC to the contractor. Specific comparisons will be identified in future tasks. Prepare a letter report to summarize the task activities.

Estimated Level of Effort: 1.5 staff-months
Estimated Completion Date: November 30, 2002

Meetings and Travel

Six trips are planned. One trip is for a person to attend the MCAP meeting and the MELCOR workshop for a week in Albuquerque, New Mexico. The second trip is for a second person to attend a three-day MELCOR workshop in Albuquerque, New Mexico. The third trip is for a person to meet with the MELCOR developers for two days in Albuquerque, New Mexico. The fourth trip is for a person to attend a national conference for three days. The fifth and sixth trips are each for a person to attend a one-day meeting at the NRC headquarters in Rockville, Maryland. However, any travel must be approved in advance by the NRC Technical Monitor.