



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

JUN 21 2001

Energy Research, Inc.
ATTN: Dr. Mohsen Khatib-Rahbar, President
P. O. Box 2034
Rockville, MD 20847

Dear Dr. Khatib-Rahbar:

Subject: Contract No. NRC-04-97-040, Task Order No. 4 Entitled,
"Independent Evaluations of Severe Accident Research"

In accordance with Section G.5, Task Order Procedures, of the subject contract, this letter definitizes Task Order No. 4. This effort shall be performed in accordance with the enclosed Statement of Work.

Task Order No. 4 shall be in effect from the date of award through twelve (12) months, with a total cost ceiling of \$58,163.61. The amount of \$54,358.51 represents the total estimated reimbursable costs and the amount of \$3,805.10 represents the fixed fee.

The obligated amount of this task order is \$45,000.00. This amount shall not be exceeded until notice is provided to you that additional funds are available. It is estimated that this obligated amount will cover performance of work through August 2001.

APPN No.: 31X0200.160
B&R No.: 16015110105
JOB CODE: W6752
BOC No.: 252A
Obligated Amount: \$45,000.00
RES Identifier: RES-C01-426

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The Contractor agrees that such personnel shall not be removed from the effort under the task order without compliance with Contract Clause H.1, Key Personnel.

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: Chester Gingrich, Project Officer
(301) 415-6780

Contractual Matters: Paulette Smith, Contract Specialist
(301) 415-6594

Please indicate your acceptance of this Task Order No. 4 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 above Contract Administrator. You should retain the third copy for your records.

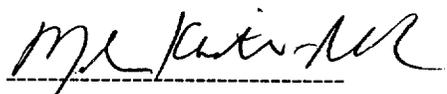
Sincerely,



Mary Mace, Contracting Officer
Contract Management Branch 1
Division of Contracts and
Property Management
Office of Administration

Enclosure:
Statement of Work

ACCEPTED:



NAME Mohsen Khatib-Rahbar

President

TITLE

June 21, 2001

DATE

TASK ORDER 4: SUPPORT FOR SOURCE TERM FOR HIGH BURN-UP AND MOX FUEL PIRT (PHENOMENA IDENTIFICATION AND RANKING TABLE) PROCESS

1. BACKGROUND

The U. S. Nuclear Regulatory Commission (NRC) is developing a Phenomena Identification and Ranking Table (PIRT) process related to source term issues for high burn-up and mixed oxide (MOX) fuel. We have recently addressed some of the other issues related to high burn-up and MOX (e.g., reactivity insertion accidents and LOCA analysis). Now we are focused on the impacts on the regulatory source term arising from use of higher burn-up and MOX inventory. In reality we are proposing more than a conventional PIRT - we are also proposing to perform an expert elicitation, much as was done to derive the fission product release fractions in NUREG - 1465.

The U. S. Nuclear Regulatory Commission (NRC) is proposing to reconstitute the original panel from which NUREG-1465 was developed. We anticipate cooperation and participation of CEA/IPSN (French) and JAERI (Japanese) in this endeavor. We are planning to use Brent Boyack as a facilitator for the meetings since he has significant experience in that role from past PIRTs.

2. OBJECTIVE

To obtain panel members as consultants and to coordinate and support the development of the PIRT panel report.

3. WORK REQUIREMENTS

ERI should coordinate and support the development of the PIRT panel report. The panel report will include inputs from the various participants. After review of the report by the panel members and the USNRC project manager ERI shall prepare and submit the final report to the USNRC project manager.

4. REPORTING REQUIREMENTS

Deliver a preliminary, a draft, and a final panel report to the USNRC on a schedule commensurate with the panels progress.

5. PERIOD OF PERFORMANCE

12 months from the effective date of this task order

6. GOVERNMENT FURNISHED MATERIAL

None

7. TRAVEL

3 two day meetings are anticipated. Two panel members will travel to meeting location in Rockville, Maryland. Travel for contractor personnel is local.