



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

AUG 24 1990

International Technical Services, Inc.
ATTN: Dr. Hideko Komoriya
420 Lexington Avenue
New York, New York 10170

Dear Dr. Komoriya:

Subject: Contract No. NRC-03-90-027, Task Order No. 6 Entitled "Review
Zion Reload Safety Evaluation" (FIN L-1318)

You are hereby authorized to commence work under Task Order No. 6 effective August 22, 1990 with an established ceiling of \$54,116.00.

In accordance with Section G.5, Task Order Procedures, of the subject contract, this letter definitizes Task Order No. 6. This effort shall be performed in accordance with the enclosed Statement of Work and the Contractor's proposal dated August 9, 1990, incorporated herein by reference.

The period of performance for Task Order No. 6 is August 22, 1990 through January 31, 1991. The total cost ceiling is \$54,116.00. The amount of \$49,376.00 represents the total reimbursable costs and the amount of \$4,740.00 represents the fixed fee.

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

B&R No.:	020-19-15-02-0
FIN No.:	L-1318-0
Appropriation No.:	31X0200.200
Obligated Amount:	\$54,116.00

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

Hideko Komoriya
Paul Abramson

The contractor agrees that such personnel shall not be removed from the effort under this 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.

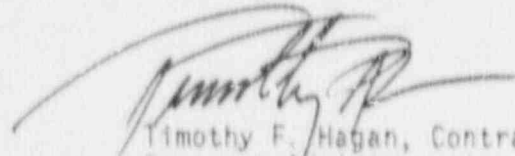
Dr. Hideko Komoriya

NRC-03-90-027
Task Order No. 6
Page 2 of 2

Acceptance of Task Order No. 6 should be made by executing three copies of this document in the space provided and returning two copies to the Contract Administrator. You should retain the third copy for your records.

Should you have any questions regarding this matter, please feel free to contact Brenda DuBose, Contract Management Assistant, on (301) 492-7442.

Sincerely,



Timothy F. Hagan, Contracting Officer
Contract Administration Branch No. 1
Division of Contracts and
Property Management
Office of Administration

Enclosure:
As stated

ACCEPTED: Task Order No. 6

H. Komoriya
NAME

President
TITLE

Aug 25, 1990
DATE

STATEMENT OF WORK

Task Order No. 006

TITLE: Review Zion Reload Safety Evaluation Methodology
FIN: L-1318
PROJECT MANAGER: Wayne C. Walker (301-492-1232)
LEAD ENGINEER: Tom Rotella (301-492-0890)
PERIOD OF PERFORMANCE: August 22, 1990 through January 31, 1991
PRIORITY NO.: 4

BACKGROUND

The attached topical report describes the Commonwealth Edison Company (CECo) reload safety evaluation methods for application to the Zion Nuclear Station Units 1 and 2. More specifically, the topical report describes the safety analysis and evaluation methodology including the computer programs utilized and the scope of analyses performed. Thirteen different transients are discussed and associated conclusions are provided. Appendix A of the topical report provides the Reactor Transient Analysis Model and descriptions using RETRAN-02 and Appendix B provides the Reactor Core Thermal-Hydraulic Analysis using VIPRE-01.

OBJECTIVE

The objective of this task order is to obtain technical expertise and a Technical Evaluation Report from International Technical Services, Inc. (ITS) to assist the staff in determining the acceptability of the Reload Transient Analysis Methodology used by CECo for the Zion Nuclear Power Station, Units 1 and 2.

WORK REQUIREMENTS AND SCHEDULE

Tasks

Scheduled Completion

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| 1. Review the thirteen transient descriptions and their conclusions to ensure their completeness and accuracy. Also review the Reactor Transient Analysis using RETRAN-02 and Reactor Core Thermal-Hydraulic Analysis using VIPRE-01 to assess the adequacy of the respective system models and results. Prepare a request for additional information, if necessary, to complete the review. | No later than eight weeks after initiation. |
| 2. Review and evaluate the responses to the request for additional information and assist the staff in resolving any remaining open items. | No later than three weeks after receipt of the additional information. |

Tasks

Scheduled Completion

- | | |
|--|---|
| 3. Prepare a draft technical evaluation report (TER) that documents the results of the technical review completed under Tasks 1 and 2 for NRC review and comments. | No later than three weeks after completion of Task 2. |
| 4. Incorporate NRC comments and prepare a final TER. | No later than 2 weeks after receipt of NRC comments on the draft TER. |

LEVEL OF EFFORT AND PERIOD OF PERFORMANCE

The estimated level of effort is 4 staff-months.

TECHNICAL REPORTING REQUIREMENTS

At the completion of Task 1, submit a technical letter report to the NRC Project Manager, with a copy to the NRC Lead Engineer, that summarizes the results of the work performed to date and which contains the request for additional information. If additional information is not required to complete the review, the letter report should summarize the work completed, indicate that additional information is not required to complete the review, and state the proposed schedule for delivery of the draft TER.

At the completion of Task 3, submit a draft TER in accordance with the basic project statement of work (SOW). The TER shall contain an executive summary, a discussion of the work performed, conclusions reached with technical bases, and recommendations as to the acceptability of the topical report reviewed.

At the completion of Task 4, submit a final TER in accordance with the basic project SOW that incorporates the NRC's comments on the draft TER.

MEETINGS AND TRAVEL

None scheduled

APPLICABLE SPECIAL PROVISIONS

The work specified in this SOW is licensee fee recoverable. The contractor shall provide fee recovery information in the monthly progress reports as specified in Section F.3.2 of the basic contract.

It shall be the responsibility of the contractor to assign technical staff employees, subcontractors, or consultants who have the required educational background, experience, or combination thereof, to meet both the technical and regulatory objectives of the work specified in this SOW. The NRC will rely on representations made by the contractor concerning the qualifications of the personnel proposed for assignment to this task order including assurance that all information contained in the technical and cost proposals, including resumes and conflict of interest disclosures, is accurate and truthful. The use of particular personnel is subject to NRC approval.

NRC FURNISHED MATERIALS

The NRC will provide all necessary documentation to facilitate successful completion of this project.