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

FEB 03 2000

Sciencetech, Inc.  
ATTN: Curtis C. Kellogg  
Sr. Contracts Administrator  
12707 High Bluff Drive, Second Floor  
San Diego, CA 92130

SUBJECT: CONTRACT NO. NRC-08-97-302, TASK ORDER NO. 8 ENTITLED, "TECHNICAL ASSISTANCE FOR TEMELIN DRAFT SAFETY EVALUATION REPORT (SER) REVIEW"

Dear Mr. Kellogg:

In accordance with the task order procedures of the subject contract, this letter definitizes Task Order No. 8. This effort shall be performed in accordance with the enclosed Statement of Work (Revision 1) and the Sciencetech technical proposal dated December 30, 1999, as revised January 21, 2000.

Task Order No. 8 shall be in effect from February 3, 2000, through February 2, 2001, with a cost ceiling of \$317,166.00. The amount of \$290,615.00 represents the total estimated reimbursable costs and the amount of \$26,551.00 represents the fixed fee.

The obligated amount of this task order shall at no time exceed the task order ceiling. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated with respect to this task order. Any work undertaken by the Contractor in excess of the obligated amount specified below is done so at the Contractor's sole risk.

The amount currently obligated by the Government with respect to this task order is \$310,000.00. It is estimated that the amount currently allotted will cover performance through January 1, 2001.

Accounting Data for Task Order No. 8 is as follows:

Commitment No:	RQ OIP00303
APPN No:	31X0200.07G
B&R No:	07G60401674
JOB CODE:	E71000
BOC No:	252A
Obligated Amount:	\$310,000.00

The following individuals are considered to be essential to the successful performance for work hereunder: Dr. J. Bickel, D. Reny, Dr. C. Karpeta, and Dr. M. Straka. The Contractor agrees that such personnel shall not be removed from the task order effort without compliance with Contract Clause H.1, "Key Personnel."

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Sciencetech, Inc.  
NRC-08-97-302, TO #8

- 2 -

Your contacts during the course of this task order are:

Technical Matters: Donna-Marie Perez, Project Officer  
(301) 415-2848

Contractual Matters: Sally Adams, Contract Specialist  
(301) 415-6588

The issuance of this task order does not amend any terms or conditions of the subject contract.

Please indicate your acceptance of Task Order No. 8 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 Contracting Officer. You should retain the third copy for your records.

If you have any questions regarding this matter, please contact Sally Adams, Contract Specialist, on (301) 415-6588.

Sincerely,

*Sharon D. Stewart*  
for Sharon D. Stewart, Contracting Officer  
Contract Management Branch 2  
Division of Contracts and Property Management  
Office of Administration

Enclosure: As stated

ACCEPTED:

*Curtis C. Kellogg*  
\_\_\_\_\_  
NAME  
Curtis C. Kellogg

*Senior Contracts Administrator*  
\_\_\_\_\_  
TITLE

*07 February 2000*  
\_\_\_\_\_  
DATE

Statement of Work  
Contract No. NRC-08-97-302  
Task Order 8 - Revision 1  
"Technical Assistance for Temelin Draft Safety Evaluation Report (SER) Review"

A. Background

Since the early 1990's, the US NRC has had a Bilateral Agreement for Technical Cooperation and Training Assistance with the Czech Republic State Office for Nuclear Safety (SUJB). The Temelin NPP under construction in the Czech Republic since the early 1990's employs a Russian designed VVER-1000. The Westinghouse Electric Corporation has been contracted to supply the reactor fuel, instrumentation and control systems for the plant based on the Eagle-21 I&C Product Family, and to submit relevant sections of the safety analysis report according to US NRC Regulatory Guide 1.70 for review by SUJB. In 1994 a formal US NRC Licensing Methodology technology transfer program was initiated to assist SUJB with their first time review of the Westinghouse nuclear fuel supply and the Eagle 21 I&C upgrade to the reactor control and protection systems at the Temelin NPP. Under this program, USNRC, with national laboratory and contractor support, transferred the US Licensing Review Methodology described in US NRC Standard Review Plan (NUREG-0800) to SUJB in the 1994-1997 time frame.

Based on this technology transfer program, SUJB developed a licensing issues data base, issued a number of Requests for Additional Information, and proceeded to resolve open technical questions. SUJB in 1998-1999 has prepared a draft Safety Evaluation Report (SER) and has recently requested NRC support in peer review of this document. The NRC requires contractor support to assist with the formal peer review of this SER and the issuance of a detailed peer review report on the relevant Temelin SER sections.

B. Objectives

The objective of this Task Order is to coordinate and assist NRC staff with a peer review of the Temelin SER sections dealing with: reactor core and nuclear fuel, Instrumentation and Control (I&C), and Design Basis Event Accident Analysis (DBA). The task completion will be documented with the issuance of a formal Temelin SER peer review report (to be jointly issued with the Office of Nuclear Reactor Regulation (NRR)).

C. Staff Qualifications

Contractor staff assigned to this effort must possess expert knowledge and experience in performing PSA and accident analysis on LWRs, with an emphasis on VVER 1000 reactors.

D. Work Requirements

The contractor shall provide expert technical assistance to OIP and NRR staff in the peer review of selected parts of the Temelin SER.

### **Subtask 1**

Coordinate with NRR to acquire and review a copy of the final version of the Temelin NPP Licensing Issues Data Base (in particular, the relevant sections associated with Nuclear Fuel, I&C, DBA Analysis). Go through these three sections to confirm all the original questions have been answered and that the logic employed by SUJB is sound.

Deliverable: Letter report outline the findings of the review. Due 30 days after the initiation of the subtask.

Estimated Level of Effort: 1-2 man-weeks.

### **Subtask 2**

Evaluate the Draft Temelin SER Sections (to be provided by SUJB to USNRC in English) against the technical issues contained in the Licensing Issues Data Base.

The contractor shall evaluate the degree and thoroughness that the licensing issues characterized in the Licensing Issues Data Base have been resolved and closed out. This evaluation shall be performed in accordance with the NRC Standard Review Plan processes, as have been adapted and applied to the Temelin NPP.

The contractor shall provide to the NRC a draft peer review report. Once approved by NRC the contractor will transmit the final report to SUJB.

Deliverable: Draft Peer Review Report. Due within 120 days after receipt of the Licensing Issues Data Base.

Deliverable: Final Peer Review Report. Due within 15 days after receipt of comments from NRC on Draft Peer Review Report.

Estimated Level of Effort: 12-14 man-weeks.

### **Subtask 3**

Meet with SUJB Staff at their offices in Prague. The contractor, along with NRR staff, shall hold a one week review meeting at the SUJB's offices to resolve any peer review comments directly with SUJB staff.

Estimated Level of Effort: 2-3 man-weeks.

### **Subtask 4**

Related Assistance: The Contractor shall provide up to ~~12 staff-months~~ of additional assistance related to subtasks 1-3. The contractor may perform periodic briefings for U.S. Embassy staff, review and comment on reports and analysis provided by NRC, EU, or the U.S. Department of State related to the Temelin facility, and possibly perform presentations for the international community.

All related assistance will be designated by the NRC PO in writing as it is identified or when required. A summary of the related assistance performed shall be included in the monthly report required under this contract.

**Deliverables:** In addition to the deliverables noted above, the contractor shall provide the monthly business status report as required, in accordance with the base contract terms and conditions.