



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

DEC 03 2002

Scientech, Inc.  
ATTN: Ms. Shirely Afable  
Sr. Contract Administrator  
910 Clopper Road  
Gaithersburg, Maryland 20878

SUBJECT: TASK ORDER NO. 3 ENTITLED "REGULATORY ASSISTANCE TO  
COUNTRIES OPERATING SOVIET-DESIGNED REACTORS"  
UNDER CONTRACT NO. NRC-08-01-117

Dear Ms. Afable.

In accordance with Section G 3(d) entitled "Task Order Award," of the subject contract, this letter definitizes the Task Order No. 3. This effort shall be performed in accordance with the enclosed Statement of Work .

Task Order No. 3 shall be in effect from December 9, 2002 through December 8, 2004. The total cost ceiling is \$1,013,526, of which the sum of \$938,450 represents the reimbursable costs and the sum of \$75,076.00 represents the fixed fee.

This task order obligates funds in the amount of \$375,000.

The obligated amount 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 above is done so at the Contractor's sole risk.

Accounting data for this task order is as follows:

B&R No.: 37G-40-401-555  
Job Code No.: K2002  
BOC: 252A  
APPN No.: 2/31093  
FFS No.: OIP03304  
Obligated Amount \$375,000

The following individuals are considered essential to the successful performance of the work hereunder: [REDACTED]

The Contractor agrees that such personnel shall not be removed from the effort under the task order without compliance with Contract Clause H.2, Key Personnel.

Your contacts during the course of this task are:

Technical Matters: John Ramsey, Project Officer  
(301) 415-2744

Contractual Matters: Deborah Neff, Contract Specialist  
(301) 415-8160

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

Please indicate your acceptance of this task order by having an official, authorized to bind your organization, execute three (3) copies of this document in the space provided below and return two (2) copies to the U.S. Nuclear Regulatory Commission, ATTN: Ms. Deborah Neff, Division of Contracts, T-712, ADM/DC/CMC2, Washington, D C. 20555 You should retain the third copy for your records.

Sincerely,



Stephen Pool, Contracting Officer  
Contract Management Branch 2  
Division of Contracts  
Office of Administration

Enclosure:  
As stated

ACCEPTED.

Shirley L. Apple  
NAME  
Sr. Contract Administrator  
TITLE  
12/9/02  
DATE

STATEMENT OF WORK FOR TASK 3 UNDER CONTRACT  
NO. NRC-08-01-117  
SUPPORT TO NUCLEAR TECHNOLOGY SAFETY CENTER  
REPUBLIC OF KAZAKHSTAN

**TASK 1 - PROGRAM PLANNING AND MANAGEMENT**

The contractor shall assist the Nuclear Technology Safety Center of the Republic of Kazakhstan (NTSC) and its client organizations in the establishment of a long-term development plan. The plan shall identify the priority areas, define detailed scope of work, schedule and level of effort. The contractor shall assist NTSC in the periodic review and update of the long-term development plan.

The contractor shall periodically review and develop in consultation with the NRC and the NTSC the short-term objectives and short term scope of work. The short term objectives and scope of work will depend on a number of factors, achievements to date, immediate NTSC needs, funding availability and other factors.

The contractor shall develop an appropriate contractual relationship with NTSC and/or other entities needed to perform work under this support program. The contract shall identify the process for preparation, review and issuing of task orders, establish appropriate labor rates, and establish the criteria and the process for work acceptance and financial and technical reporting.

**TASK 2 - REVIEW AND ASSESSMENT OF EXISTING BASIC NUCLEAR-RELATED REGULATIONS, STANDARDS AND GUIDES**

The contractor shall assist the NTSC in reviewing nuclear-related regulations, standards and guides utilized in Kazakhstan and in comparing them to US and IAEA regulations, standards and guides. Differences (strengths, weaknesses, omissions, etc.) between nuclear-related regulations, standards and guides used in Kazakhstan and those utilized internationally should be identified and recommendations for improvements should be made. This review should be performed in cooperation with NTSC staff, as well as with other experts as identified by the NTSC.

All nuclear-related regulations, standards and guides utilized in Kazakhstan should be reviewed and assessed. However, priority should be given to regulations, standards and guides in the areas of.

- o nuclear power plant decommissioning;
- o radioactive waste;
- o spent fuel storage, packaging and transport;
- o fuel cycle facilities (including criticality issues);
- o research reactors;
- o radioactive sources;
- o operator licensing;
- o emergency planning; and
- o inspection standards and requirements.

This review shall focus on technology comparable to what is or potentially will be utilized in Kazakhstan

### TASK 3 - DEVELOPMENT OF NEW AND MODIFICATIONS OF EXISTING BASIC NUCLEAR-RELATED REGULATIONS, STANDARDS AND GUIDES

The activities in Task 2 will result in the identification of differences between nuclear-related regulations, standards and guides utilized in Kazakhstan and those used in US and by IAEA, as well as in recommendations for improvements. Upon completion of Task 2, the contractor shall assist the NTSC in modifying nuclear-related regulations, standards and guides utilized in Kazakhstan to incorporate recommendations made, as appropriate. This effort should be performed in cooperation with NTSC staff, as well as with other experts as identified by the NTSC. In addition, support should be provided to NTSC for the conduct of seminars for providing information to appropriate entities in Kazakhstan (end users, licensees, etc ) on the changes made.

### TASK 4 - DEVELOPMENT OF NEW AND MODIFICATIONS OF EXISTING INTERNAL PROCEDURES

Tasks 2 and 3 will result in establishment of nuclear-related regulations, standards and guides utilized in Kazakhstan. Upon completion of Task 3, the contractor shall assist the NTSC and its client organizations in developing and establishing internal procedures needed to consistently implement the developed basic regulations, standards and guides. This will include both technical and administrative-related procedures. Examples include.

- o procedures for review, comment and approval of safety analysis reports (decommissioning, fuel cycle facilities, research reactors, etc.); and
- o procedures for review, comment and approval of license applications (decommissioning, fuel cycle facilities, research reactors, radioactive sources, operator licenses, etc.)

This effort shall be performed in cooperation with NTSC staff, as well as with other experts as identified by the NTSC.

### TASK 5 - TECHNICAL SUPPORT

The contractor shall provide needed technical expertise, advise and training to NTSC and its client organizations to support licensing and approval of activities related to the decommissioning of the BN-350 (including spent fuel and radioactive waste-related issues). This effort shall be performed in cooperation with NTSC staff, as well as with other experts as identified by the NTSC. This effort shall include review and comment of safety analysis reports and other safety-related information, as well as development of appropriate licensing plans and schedules. Examples of potential technical issues for which such support could be provided include:

- o Decommissioning of sodium-cooled fast breeder reactors;
- o Radioactive waste;

- o Emergency Planning and Emergency Preparedness,
- o Onsite packaging and short-term storage of spent fuel,
- o Transportation and handling of spent fuel; and
- o Identification and assessment of potential intermediate-term (approximately 50 years) spent fuel storage sites, including storage technology.

The contractor shall also provide needed technical expertise and advise to NTSC to support anticipated activities at fuel cycle facilities in Kazakhstan. This effort is expected to focus on criticality issues at the Ulba facility.

The contractor shall also provide needed technical expertise and advise to NTSC to support anticipated activities involving utilization of radioactive sources in Kazakhstan.

All activities should be conducted in accordance with the regulations, standards, guides and procedures developed during Tasks 2, 3, and 4 above.

#### **TASK 6 - COORDINATION OF ONGOING AND/OR PLANNED ACTIVITIES**

The contractor shall assist NTSC in coordinating ongoing and/or planned activities with other involved entities. Such coordination could include (but is not necessarily limited to) representatives of other entities within the Government of the United States (for example, the Departments of State and Energy), representatives of entities within other governments (for example, the Federal Nuclear and Radiation Safety Authority and Ministry of Atomic Energy of the Russian Federation and EU) and representatives of international organizations (for example, the IAEA).

#### **ESTIMATED LEVEL OF EFFORT**

##### **TASK 1 PROGRAM PLANNING AND MANAGEMENT**

The estimated level of effort for Task 1 is 400 man hours over a 2-year period which is anticipated to start December 9, 2002.

##### **TASK 2 REVIEW AND ASSESSMENT OF EXISTING BASIC NUCLEAR-RELATED REGULATIONS, STANDARDS AND GUIDES**

The estimated level of effort for Task 2 is 900 man hours over a 2-year period, which is anticipated to start December, 2002.

##### **TASK 3 DEVELOPMENT OF NEW AND MODIFICATIONS TO EXISTING BASIC NUCLEAR-RELATED REGULATIONS, STANDARDS AND GUIDES**

The estimated level of effort for Task 3 is 900 man hours over a 2-year period, which is anticipated to start December 9, 2002.

**TASK 4 DEVELOPMENT OF NEW AND MODIFICATIONS TO EXISTING INTERNAL PROCEDURES**

The estimated level of effort for Task 4 is 900 man hours over a 2-year period, which is anticipated to start December 9, 2002.

**TASK 5 TECHNICAL SUPPORT**

The estimated level of effort for Task 5 is 2,000 man hours over a 2-year period, which is anticipated to start December 9, 2002.

**TASK 6 COORDINATION OF ONGOING AND/OR PLANNED ACTIVITIES**

The estimated level of effort for Task 6 is 400 man hours over a 2-year period, which is anticipated to start December 9, 2002.

**SCHEDULE AND DELIVERABLES**

The contractor shall begin efforts to assist NTSC and its client organizations in the establishment of a long-term development plan (as specified in Task 1) within 60 days after acceptance of this task

The contractor shall provide the NRC project manager with copies of basic regulations, standards, guides, internal procedures, etc. developed under Tasks 2, 3 and 4 within 60 days of their completion.

The contractor shall also prepare and submit a quarterly status report to the NRC project manager and the contracting officer. This report shall contain such information as:

Financial Status

- o Total Estimated Contract Amount,
- o Total Funds Obligated to Date;
- o Total Costs Incurred in the Reporting Period,
- o Detailed Costs Incurred During the Reporting Period;
- o Balance of Obligations Remaining; and
- o Balance of Funds Needed to Complete Contract/Task Order.

Technical Progress

- o Efforts Completed/Schedule Milestone Information;
- o Work Performed During the Reporting Period;
- o Plans for Next Reporting Period; and
- o Anticipated Problem Areas.

**MEETINGS AND TRAVEL**

The contractor shall maintain effective communication with both the NRC project officer and the NTSC project manager. Coordination meetings between the contractor, the NRC project

officer and the NTSC project manager throughout the duration of this task order are anticipated. Meetings will primarily be held at NRC offices in Rockville, Maryland, and at NTSC headquarters in Almaty, Kazakhstan. Meetings will be scheduled on an as needed basis. For planning purposes, it should be assumed that coordination meetings are held quarterly alternating between Rockville, Maryland and Almaty, Kazakhstan. In addition, the NRC project officer and the NTSC project manager may choose to periodically meet at the contractor's facility to review progress and to provide input into the project.

**NRC FURNISHED MATERIAL**

No materials are expected to be provided under this task order.

**CONTRACTOR ACQUIRED MATERIAL**

No materials are expected to be acquired under this task order.

**PERIOD OF PERFORMANCE**

The period of performance for the work specified in this SOW shall commence on December 9, 2002 and shall expire on December 8, 2004.