

CUMBERT



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

August 28, 2000

Wesley C. Patrick, President  
Center for Nuclear Waste  
Regulatory Analyses  
6220 Culebra Road  
PO Drawer 28510  
San Antonio, TX 78228-0510

Subject: Task Order No. 8 Entitled, "Technical Review of Draft NUREG-1640, Radiological Assessments for Clearance of Equipment and Materials from Nuclear Facilities", Under Contract NRC-02-97-001

Dear Dr. Patrick:

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 and the Contractor's technical proposal. Task Order No. 8 shall be in effect from July 12, 2000 through December 31, 2000 with a cost ceiling of \$102,030. The amount of \$91,572 represents the total estimated reimbursable costs, the amount of \$3,132 represents the cost of facility capital, and the amount of \$7,326 represents the fixed fee for this task order.

The amount obligated on this task order document is \$102,030 (inclusive of the \$30,000 authorized verbally on 7/12/00). 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 Task Order No. 8 is as follows:

B&R No.: 06015205110  
JC No.: Y6295  
BOC: 252A  
Appn. No.: 31X0200.060  
Obligated: \$102,030

The following individuals are considered to be 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.1 Key Personnel.

Your contacts during the course of this task order are:

Technical Matters: Edna Knox-Davin  
Project Officer  
(301) 415-6577

Contractual Matters: Barbara Meehan  
Contract Specialist  
(301) 415-6730

The issuance of Task Order No. 8 does not change any terms and 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 (3) copies of this document in the space provided and return two (2) copies to the U.S. Nuclear Regulatory Commission, Attn: Mrs. Barbara Meehan, ADM/DCPM/CMB2, Mail Stop T-712, Washington, DC 20555. You should retain the third copy for your records.

If you have any questions regarding this matter, please call me on (301) 415-6730.

Sincerely,



Barbara D. Meehan, Contracting Officer  
Contract Management Branch No. 2  
Division of Contracts and  
Property Management  
Office of Administration

Enclosure: As stated

Accepted:



Name R. B. KALMBACH

DIRECTOR, CONTRACTS

Title

SEPTEMBER 6, 2000

Date

## Statement of Work

### Center for Nuclear Waste Regulatory Analyses Independent Technical Review of Draft NUREG-1640, Radiological Assessments for Clearance of Equipment and Materials From Nuclear Facilities

#### 1.0 Introduction

The Program Element Plan identifies independent technical assistance activities to be performed by the Center for Nuclear Waste Regulatory Analyses in support of the Office of Research in the review of draft NUREG-1640, Radiological Assessments for Clearance of Equipment and Materials From Nuclear Facilities. Specific review activities include a verification of the appropriateness of the assumptions, parameters, models and equations used in the document and a check that the calculations and quality control were performed correctly. The results of the review shall be documented in a letter report.

#### 2.0 Background

Draft NUREG-1640 was developed by Science Applications International Corporation (SAIC) for NRC as the technical basis for translating concentrations of radionuclides to individual dose. It was intended to be used to develop regulatory standards for clearing equipment and materials with residual radioactivity from nuclear facilities. The NRC's Office of Research is conducting a review to assure the technical validity of the document and to support the assessment of the feasibility of using the SAIC work completed to date.

#### 3.0 Objective

The primary objective of this PEP is to perform a technical review of the draft NUREG-1640, Radiological Assessments for Clearance of Equipment and Materials From Nuclear Facilities. The specific review activities include first, a verification of the appropriateness of the assumptions, parameters, models and equations used in the document and a check that the calculations were performed correctly. Secondly, the quality control should be reviewed to evaluate whether it meets accepted industry standards and to ensure that the document is adequate as a basis for regulatory decisionmaking. The results of the review shall be documented in a letter report.

#### 4.0 Level of Effort

The level of effort for the technical assistance request is estimated to be 0.5 staff years.

#### 5.0 Period of Performance

Work on the tasks described in this PEP is anticipated to commence on or about July 12, 2000, and will continue through December 31, 2000.

#### 6.0 Task Description

The Office of Research would coordinate the task with the CNWRA to assist in the review. The CNWRA review group would look at areas of the report within their area(s) of expertise.

A contract status meeting will take place by conference call/video conference on or about August 15, 2000. Any staff questions from that briefing will be addressed by CNWRA in the final letter report. A detailed set of comments will be developed 120 days after task order award date.

#### 7.0 Meetings and Travel

One contract status meeting will take place by conference call/video conference on or about August 15, 2000.

#### 8.0 NRC Furnished Materials

The NRC will furnish copies of the appropriate documents. The materials for the review include the draft NUREG-1640, Volumes 1 and 2 and the electronic spread sheets containing the calculations.

#### 9.0 Product/Deliverables Schedules

For this technical assistance request the product/deliverables and schedules are estimated to be as follows:

The CNWRA will brief NRC on contract status on or about August 15, 2000

The CNWRA will develop a detailed set of comments and transmit as a letter report to the Office of Research no later than 120 days after task order award date.