



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

MAR 25 1997

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

Dear Mr. Patrick:

Subject: Task Order No. 15(D) Entitled, "Review of the  
Plateau-Shootaring Canyon, Utah Reclamation Plan"  
Under Contract NRC-02-96-004

This confirms verbal authorization provided to Sharon Rowe, of your staff, from Deborah Neff, of my staff, to commence work under the subject task order on March 21, 1997, with a temporary ceiling of \$5,000.

In accordance with the task order procedures of the subject contract, this letter definitizes Task Order No. 15(D). This effort shall be performed in accordance with the enclosed Statement of Work and the Contractor's technical proposal dated November 12, 1996, and revised on January 30, 1997 and March 14, 1997, which are hereby incorporated by reference and made a part of this task order. The effective date of this task order shall be March 21, 1997.

Task Order No. 15(D) shall be in effect from March 21, 1997 through September 26, 1997 with a cost ceiling of \$71,849. The amount of \$        represents the total estimated reimbursable costs, the amount of \$        represents the cost of facility capital, and the amount of \$        represents the fixed fee for this task order.

The amount currently obligated is \$71,849.

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. 15(D) is as follows:

B&R No.: 75015233000  
Job Code: J5147  
BOC: 252A  
Appn. No.: 31X0200  
Obligated: \$71,849

9704110027 970325  
PDR CONTR  
NRC-02-96-004 PDR

110003



11  
DFP 2

The following individuals are considered to be essential to the successful performance of the work hereunder: Dr. Goodluck Ofoegbu, Dr. Amitava Ghosh, Dr. Mark Jarzempa, and Dr. Asadul Chowdhury.

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. Further, any consultants that the Contractor plans to utilize under this task order must be approved by the NRC Contracting Officer before that consultant may begin work under this task order.

Your contacts during the course of this task order are:

Technical Matters: Deborah DeMarco  
Project Officer  
(301) 415-7796

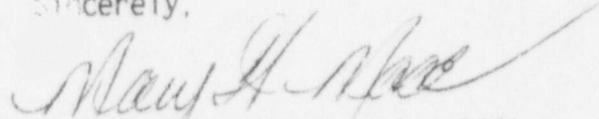
Contractual Matters: Deborah Neff  
Contract Specialist  
(301) 415-8160

The issuance of Task Order No. 15(D) does not change any terms and conditions of the subject contract.

Please indicate your acceptance of Task Order No. 15(D) 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: Ms. Deborah Neff, ADM/DC/TAB1, 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 contact Ms. Neff on (301) 415-8160.

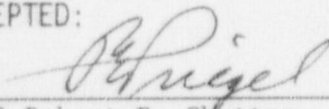
Sincerely,



Mary H. Mace, Contracting Officer  
Technical Acquisition Branch No. 1  
Division of Contracts  
Office of Administration

Enclosure: As stated

ACCEPTED:

  
Name Robert E. Chatten

Director, Contracts

Title

April 3, 1997

Date

TASK NO. 15(D) TITLE: REVIEW OF THE PLATEAU-SHOOTARING CANYON, UTAH  
RECLAMATION PLAN

JOB CODE	
NRC ISSUING OFFICE	NMSS
NRC PROJECT MANAGER	DEBORAH DEMARCO, 415-7796
NRC TECHNICAL MONITOR	DANIEL ROM, 415-6704
DOCKET NUMBER:	40-8698
TAC NUMBER:	L51383
FEE RECOVERABLE:	YES

### 1.0 Background

Uranium Mill sites under license after November 8, 1978, are regulated under Title II of the Uranium Mill Tailings Radiation Control Act (UMTRCA), which amended the Atomic Energy Act. The reclamation (closure) plans for these sites should meet the requirements of 10 CFR 40 Appendix A which are, in part, that reclamation of Uranium mill tailings sites be conducted in accordance with a plan which provides reasonable assurance of long-term stability and radon control, and does not rely on active maintenance.

Plateau Resources will submit a reclamation plan configuration and cover design for its tailings impoundment. After the reclamation plan is determined acceptable, the site license will be amended to incorporate the plan as a requirement.

### 2.0 Objective

The objective is to determine if Plateau's proposed design provides reasonable assurance that the cell will meet the long-term stability and radon attenuation requirements. CNWRA must first determine if enough information has been provided by the licensee, and if not, request what is needed. With adequate information, CNWRA will do a detailed evaluation to determine if the design meets the requirements. If a design is considered inadequate, the licensee will be requested to provide additional information justifying its model or data, or else revising the plan to meet the requirements of Part 40 Appendix A. Once a design is acceptable, CNWRA will provide a written evaluation.

### 3.0 Technical Qualifications Required

CNWRA will provide the services of a geotechnical engineer who has the capability to evaluate the long-term stability potential of earthen uranium mill tailings embankments and appropriate staff (e.g., health physicist) to evaluate the radon barrier design. Familiarity with the Standard Review Plan, and Standard Format and Content guidance used by the Uranium Recovery Branch is required.

### 4.0 Level of Effort

The estimated effort for the review in this task is 657 staff hours for the geotechnical engineering and health physics staff. This does not include time spent waiting for licensee responses or NRC and management reviews.



## 5.0 Period of Performance

The period of performance of this task order will be from March 23, 1997 through September 26, 1997.

## 6.0 Scope of Work

CNWRA staff will use appropriate sections of the Final Standard Review Plan for the Review of Remedial Action of Inactive Mill Tailings Sites and other current design guidance in addition to discussions with NRC staff, to:

1. Review and become familiar with NRC's procedures for evaluating long-term stability and radon barrier design.
2. Evaluate the licensee's submittal, including, as necessary:
  - a. static and pseudo-static stability of slopes
  - b. settlement evaluation
  - c. cover performance (radon attenuation)
  - d. relevant geotechnical data and construction specifications
  - e. constructability and durability of the cover layer(s); e.g., extent of cracking from drying and frost penetration and the effect on the radon attenuation ability of the barrier material(s)
3. Prepare a status report which addresses CNWRA's findings for the design(s), including whether or not the designs meet the standard, need to be justified or redesigned, or need supporting data (specify which data), and generate any comments requesting additional information needed.
4. Repeat steps 2-3 until the designs are acceptable.
5. Prepare a final Technical Evaluation Report (TER) documenting the review (similar to a model report to be provided by NRC staff) presenting the evaluation of each aspect of the design with a discussion of how it meets the criteria of 10 CFR Part 40, Appendix A. The report should be provided as a hard copy and in diskette form compatible with the Wordperfect 5.1 processing system.

## 7.0 Meeting and Travel

One meeting to be held at NRC's offices in Rockville, Maryland (if required), as directed by the NRC Project Manager.

Upon prior approval from the NRC Project Manager, it is estimated that one trip will be taken to Utah to become familiar with site conditions.

## 8.0 NRC-Furnished Materials

NRC Regulatory Guides and Staff Technical Positions as necessary.

Final Standard Review Plan for the Review of Remedial Action of Inactive Mill Tailings Sites Under Title I of UMTRCA, Revision 1 June 1993.

Geotechnical engineering and Radon Barrier sections of a Title II Reclamation Plan TER.

Plateau's reclamation plan submittal.

## 9.0 Schedule

The following schedule of the staff time required is based on estimates of time intervals to accomplish this task. The time required to obtain responses from the licensee or management approval of various phases is estimated under the response column.

### Calendar Time To Accomplish Plateau's Design Review

Review the material and prepare a draft TER containing requests for information or revisions, as required (open issues) - due 8 weeks from the effective date of the task order

NRC staff review - due 2 weeks from receipt of draft

Discuss procedures and design with NRC staff and finalize comments - due 12 weeks from the effective date of the task order

NRC comments - due 1 week from receipt of final comments

Licensee response - due 4-8 weeks from date of request

Evaluate the response and prepare preliminary final TER - due 22 weeks from effective date of task order

NRC staff review - due 2 weeks from receipt of preliminary final TER

Prepare final TER - due 25 weeks from effective date of the task order

#### 10.0 Technical Direction

Daniel Rom is the designated Technical Monitor for this task. Technical instructions may be issued from time to time during the duration of this task. Technical instructions shall not constitute new assignments of work or changes of such nature as to justify an adjustment in cost or period of performance. Directions for changes in the scope of work, cost, or period of performance will be coordinated through the NMSS Project Manager.