

**ORDER FOR SUPPLIES OR SERVICES**

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

BPA NO.

|   |  |   |                          |   |                      |
|---|--|---|--------------------------|---|----------------------|
| 1. DATE OF ORDER<br><b>3/19/10</b>  |  | 2. CONTRACT NO. (if any)<br>NRC-41-09-011     |                          | 6. SHIP TO:   |                      |
| 3. ORDER NO.<br>T012  |  | 4. REQUISITION/REFERENCE NO.<br>NRC 41-09-011 |                          | a. NAME OF CONSIGNEE<br>U.S. Nuclear Regulatory Commission                              |                      |
| 5. ISSUING OFFICE (Address correspondence to)<br>U.S. Nuclear Regulatory Commission<br>Div. of Contracts<br>Attn: Valerie Whipple<br>Mail Stop: TWB-01-B10M<br>Washington, DC 20555 |  |   |                          | b. STREET ADDRESS<br>James Webb<br>Mail Stop TWFN 8F5                                   |                      |
| 7. TO:  |  | c. CITY<br>Washington                         |                          | d. STATE<br>DC  | e. ZIP CODE<br>20555 |
| a. NAME OF CONTRACTOR<br>SOUTHWEST RESEARCH INSTITUTE   |  |   |                          | f. SHIP VIA   |                      |
| b. COMPANY NAME   |  |   |                          | 8. TYPE OF ORDER  |                      |
| c. STREET ADDRESS<br>6220 CULEBRA RD  |  |   |                          | <input type="checkbox"/> a. PURCHASE<br><input checked="" type="checkbox"/> b. DELIVERY |                      |
| d. CITY<br>SAN ANTONIO  |  | e. STATE<br>TX                                | f. ZIP CODE<br>782385166 |   |                      |
| 9. ACCOUNTING AND APPROPRIATION DATA<br>B&R: 05515355226 F1115 BOC: 252A APPN: 31X0200<br>FFS: 5510R041 \$60,855<br>DUNS: 007935842   |  |   |                          | 10. REQUISITIONING OFFICE FSM   |                      |
| 11. BUSINESS CLASSIFICATION (Check appropriate box(es))   |  |   |                          | 12. F.O.B. POINT<br>Destination   |                      |
| <input type="checkbox"/> a. SMALL   |  | <input type="checkbox"/> b. OTHER THAN SMALL  |                          | <input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED                              |                      |
| <input type="checkbox"/> d. WOMEN-OWNED   |  | <input type="checkbox"/> e. HUBZone           |                          | <input type="checkbox"/> f. EMERGING SMALLBUSINESS                                      |                      |
| 13. PLACE OF  |  | 14. GOVERNMENT B/L NO.                        |                          | 15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)   |                      |
| a. INSPECTION   |  | b. ACCEPTANCE                                 |                          | September 30, 2010  |                      |
| 16. DISCOUNT TERMS<br>Net 30  |  |   |                          |   |                      |

17. SCHEDULE (See reverse for Rejections)

| ITEM NO.<br>(a) | SUPPLIES OR SERVICES<br>(b)   | QUANTITY ORDERED<br>(c) | UNIT<br>(d) | UNIT PRICE<br>(e) | AMOUNT<br>(f) | QUANTITY ACCEPTED<br>(g) |
|-----------------|---|-------------------------|-------------|-------------------|---------------|--------------------------|
|                 | The Contractor shall provide services in accordance with the attached Statement of Work Entitled "Development of Fact Sheets for Uranium Recovery Facilities."<br><br>Total task order ceiling: \$112,710<br><br>The total obligated amount: \$60,855<br><br>The Period of Performance is Date of Award September 30, 2010<br><br>NRC Project Officer: Tira Patterson 301-415-7808<br><br>Technical Monitor: James Webb 301-415-6252<br><br>List of Attachments: Statement of Work<br><br>DUNS: 007936842 |                         |             |                   |               |                          |

|   |  |                           |                           |   |   |
|---|--|---------------------------|---------------------------|---|---|
| 18. SHIPPING POINT  |  | 19. GROSS SHIPPING WEIGHT |                           | 20. INVOICE NO.   |   |
| 21. MAIL INVOICE TO:  |  |                           |                           |   |   |
| a. NAME<br>Department of Interior / NBC<br>NRCPayments@nbc.gov                                      |  |                           |                           |   |   |
| b. STREET ADDRESS (or P.O. Box)<br>Attn: Fiscal Services Branch - D2770<br>7301 W. Mansfield Avenue |  |                           |                           |   |   |
| c. CITY<br>Denver   |  | d. STATE<br>CO            | e. ZIP CODE<br>80235-2230 |   |   |
| 22. UNITED STATES OF AMERICA BY (Signature)<br>   |  |                           |                           |   | 17(h) TOTAL (Cont. pages)<br><br>17(i) GRAND TOTAL<br><br>\$112,710 |
|   |  |                           |                           | 23. NAME (Typed)<br>Valerie Whipple<br>Contracting Officer<br>TITLE: CONTRACTING/ORDERING OFFICER |   |

AUTHORIZED FOR LOCAL REPRODUCTION BY THE U.S. BUREAU OF LAND MANAGEMENT

**ADMOU**

**SUNSI REVIEW COMPLETE**

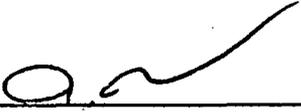
**MAR 25 2010**

OPTIONAL FORM 347 (REV. 4/2006)  
PRESCRIBED BY 48 CFR 53.213(f)

**ADMOU**

Please indicate your acceptance of this order by having an official who is authorized to bind your organization, execute this document in the space provided below.

ACCEPTED:

Signature: \_\_\_\_\_

Name: R. B. Kalmbach

Title: Executive Director, Contracts

Date: March 18, 2010

## TASK ORDER TERMS AND CONDITIONS

### 1. CONSIDERATION AND OBLIGATION--COST PLUS FIXED FEE (JUN 1988) ALTERNATE I (JUN 1991)

The total estimated cost to the Government for full performance of this contract is **\$112,710**, of which the sum of \$ [REDACTED] represents the estimated reimbursable costs, and of which [REDACTED] represents the fixed fee.

- (b) There shall be no adjustment in the amount of the Contractor's fixed fee by reason of differences between any estimate of cost for performance of the work under this contract and the actual cost for performance of that work.
- (c) The amount currently obligated by the Government with respect to this contract is **\$60,855**, of which the sum of \$ [REDACTED] represents the estimated reimbursable costs, and of which \$ [REDACTED] represents the fixed fee.

### 2. PERIOD OF PERFORMANCE

The period of performance of this order shall be Date of Award through September 30, 2010.

### 3. 2052.215-70 KEY PERSONNEL (JAN 1993)

- (a) The following individuals are considered to be essential to the successful performance of the work hereunder:

| <u>Name</u> | <u>Position</u>                           |
|-------------|---|
| [REDACTED]  | Project Manager<br>Principal Investigator |

The contractor agrees that personnel may not be removed from the contract work or replaced without compliance with paragraphs (b) and (c) of this section.

- (b) If one or more of the key personnel, for whatever reason, becomes, or is expected to become, unavailable for work under this contract for a continuous period exceeding 30 work days, or is expected to devote substantially less effort to the work than indicated in the proposal or initially anticipated, the contractor shall immediately notify the contracting officer and shall, subject to the concurrence of the contracting officer, promptly replace the personnel with personnel of at least substantially equal ability and qualifications.
- (c) Each request for approval of substitutions must be in writing and contain a detailed explanation of the circumstances necessitating the proposed substitutions. The request must also contain a complete resume for the proposed substitute and other information requested or needed by the contracting officer to evaluate the proposed substitution. The contracting officer and the project officer shall evaluate the contractor's request and the contracting officer shall promptly notify the contractor of his or her decision in writing.

- (d) If the contracting officer determines that suitable and timely replacement of key personnel who have been reassigned, terminated, or have otherwise become unavailable for the contract work is not reasonably forthcoming, or that the resultant reduction of productive effort would be so substantial as to impair the successful completion of the contract or the service order, the contract may be terminated by the contracting officer for default or for the convenience of the Government, as appropriate. If the contracting officer finds the contractor at fault for the condition, the contract price or fixed fee may be equitably adjusted downward to compensate the Government for any resultant delay, loss, or damage.

#### **4. SEAT BELTS**

Contractors, subcontractors, and grantees, are encouraged to adopt and enforce on-the-job seat belt policies and programs for their employees when operating company-owned, rented, or personally owned vehicles.

#### **5. WHISTLEBLOWER PROTECTION FOR NRC CONTRACTOR AND SUBCONTRACTOR EMPLOYEES (JULY 2006)**

- (a) The U.S. Nuclear Regulatory Commission (NRC) contractor and its subcontractor are subject to the Whistleblower Employee Protection public law provisions as codified at 42 U.S.C. 5851. NRC contractor(s) and subcontractor(s) shall comply with the requirements of this Whistleblower Employee Protection law, and the implementing regulations of the NRC and the Department of Labor (DOL). See, for example, DOL Procedures on Handling Complaints at 29 C.F.R. Part 24 concerning the employer obligations, prohibited acts, DOL procedures and the requirement for prominent posting of notice of Employee Rights at Appendix A to Part 24.
- (b) Under this Whistleblower Employee Protection law, as implemented by regulations, NRC contractor and subcontractor employees are protected from discharge, reprisal, threats, intimidation, coercion, blacklisting or other employment discrimination practices with respect to compensation, terms, conditions or privileges of their employment because the contractor or subcontractor employee(s) has provided notice to the employer, refused to engage in unlawful practices, assisted in proceedings or testified on activities concerning alleged violations of the Atomic Energy Act of 1954 (as amended) and the Energy Reorganization Act of 1974 (as amended).
- (c) The contractor shall insert this or the substance of this clause in any subcontracts involving work performed under this contract.

## STATEMENT OF WORK

|                                     |  |
|-------------------------------------|--|
| TASK TITLE:                         | DEVELOPMENT OF FACT SHEETS FOR URANIUM RECOVERY FACILITIES |
| JOB CODE:                           | F1115  |
| TASK ORDER NUMBER:                  | Task 12  |
| B&R NUMBER:                         | 05515355226  |
| NRC ISSUING OFFICE:                 | FSME   |
| NRC PROJECT OFFICER (PO):           | Tira Patterson (301) 415-7808                              |
| NRCTECHNICAL PROJECT MANAGER (TPM): | James Webb (301) 415-6252                                  |
| NRC TECHNICAL MONITOR:              | Dan Gillen (301) 415-0709                                  |
| FEE RECOVERABLE:                    | No   |
| TAC NUMBER:                         | Not Applicable   |
| DOCKET NUMBER:                      | Not Applicable   |

### 1.0 Background

As a result of renewed interest in domestic nuclear reactor power generating facilities, there has been a corresponding resurgence of the uranium recovery industry which produces the source material (yellowcake) necessary to manufacture the fuel for the nation's reactors. The resurgence of the uranium recovery industry has also heightened public interest and awareness of activities within the industry, including operations at licensed facilities, cleanup efforts at licensed facilities in decommissioning, and the submittal of applications for new facilities. In response to public interest in the U.S. Nuclear Regulatory Commission's (NRC's) oversight of licensed facilities and the licensing of new facilities, the NRC staff has periodically made improvements to NRC's Web Site in relation to the Uranium Recovery Program. In the public interest, the staff is planning further enhancements to the Uranium Recovery Program Web Site.

### 2.0 Objective

The objective of this task is to seek assistance from the Center for Nuclear Waste Regulatory Analyses (CNWRA) in enhancing the background information provided on NRC's Web Site for licensed uranium recovery facilities, including those facilities in decommissioning status. Specifically, CNWRA shall develop detailed "Fact Sheets" for each licensed facility.

### 3.0 Work Requirements/Scope of Work

CNWRA staff shall develop detailed Fact Sheets for the licensed facilities listed in Attachment A. There are a total of 16 licensed facilities which are listed in their current status as Operating, Decommissioning, Standby, and Hearing. The Fact Sheets shall be prepared in accordance with the outlines provided in Attachments B and C. Attachment B provides the outline for in situ recovery (ISR) facility Fact Sheets and Attachment C provides the outline for conventional uranium mill facility Fact Sheets. The Fact Sheet outlines describe the information to be provided or developed for each subject heading in the outline. The Fact Sheets shall have a level of detail commensurate with Fact Sheets developed by the U.S. Department of Energy (DOE) Office of Legacy Management for their Uranium Mill Tailings Radiation Control Act of 1978 Title I and Title II disposal sites under their custody. The DOE Fact Sheet for the L-Bar, New Mexico, Title II disposal site will be provided to the CNWRA as an example of the level of detail to be developed for licensed uranium recovery facility Fact Sheets.

CNWRA staff should utilize the sources necessary to obtain the background or historical information for each facility, including desired maps, figures or sketches. Those sources may include the Publicly Available Records in NRC's Agencywide Documents Access and Management System (ADAMS), the assigned facility NRC Project Manager, the NRC Public Document Room, the licensee, and the Internet.

#### 4.0 Technical Qualifications Required

The CNWRA shall provide the services of appropriate staff with primary expertise in hydrogeology and geotechnical engineering for development of Fact Sheets for licensed ISR and conventional mill facilities.

#### 5.0 Meetings and Travel

Some travel will likely be required for this task to develop licensed facility Fact Sheets. Travel of three days duration each for two CNWRA staff members will be needed to interact with NRC Project Managers for licensed facilities and conduct document searches in the Public Document Room at NRC headquarters. CNWRA staff will also participate in conference or telephone calls, as needed, to address and resolve issues or questions that may arise during the development of the Fact Sheets.

#### 6.0 NRC Furnished Material

NRC will provide the following to CNWRA staff: One copy of the DOE Fact Sheet for the L-Bar, New Mexico, Disposal Site.

#### 7.0 Schedule/Deliverables

The following schedule of the CNWRA staff time required is based on estimates of time intervals to accomplish this task.

| <u>Calendar Time To Accomplish Task</u>                                | <u>Elapsed Time</u>           |
|--|-------------------------------|
| Prepare draft Fact Sheets for 16 licensed uranium recovery facilities. | 16 weeks from task initiation |
| Receive NRC comments on draft Fact Sheets.                             | 20 weeks from task initiation |
| Prepare draft final Fact Sheets and submit to NRC.                     | 24 weeks from task initiation |

#### 8.0 Technical Direction

Dan Gillen is the designated NRC TM for this procurement. Tira Patterson is the designated NRC PO. Technical instructions may be provided to the CNWRA staff by the TM during the duration of this requested task. Technical instructions shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. Directions, if any, for changes in scope of work, cost, or period of performance will be issued the NRC Contracting Officer.

#### 9.0 Technical Reports

Technical reports for this task shall be submitted via electronic mail with electronic attachments consistent with the word processor in use at the NRC (WORD) or in portable document format (pdf), as appropriate. The CNWRA shall also provide one paper copy of each technical report to the NRC TM and PO.

#### 10.0 Financial and Technical Status Reports

The CNWRA shall submit periodic technical and financial reports in accordance with the contract. The estimated staff effort should be recorded at the subtask level. The work accomplished and the degree of completeness should also be tracked by subtask. The reports are due within 20 calendar

days after the end of the report period (i.e., each four week period). The TM shall receive two copies of the periodic status report, and the PO shall receive one copy. See the contract for further distribution requirements.

**LIST OF LICENSED TITLE II  
URANIUM RECOVERY FACILITIES**

| <u>LICENSEE/FACILITY</u>       | <u>DOCKET<br/>NUMBER</u> | <u>LICENSE<br/>NUMBER</u> | <u>PROJECT<br/>MANAGER</u> | <u>PM PHONE</u> |
|--------------------------------|--------------------------|---------------------------|----------------------------|-----------------|
| <b><u>Operating:</u></b>       |                          |                           |                            |                 |
| Crow Butte Resources           | 40-8943                  | SUA-1534                  | Ron Burrows                | 301-415-6443    |
| PRI Smith Ranch-HUP            | 40-8964                  | SUA-1548                  | Doug Mandeville            | 301-415-0724    |
| COGEMA Irig-Christ R.          | 40-8502                  | SUA-1341                  | Ron Linton                 | 301-415-7777    |
| <b><u>Decommissioning:</u></b> |                          |                           |                            |                 |
| ANC-Gas Hills                  | 40-4492                  | SUA-667                   | Tom McLaughlin             | 301-415-5869    |
| Exxon-Highlands                | 40-8102                  | SUA-1139                  | Tom McLaughlin             | 301-415-5869    |
| Homestake-Grants               | 40-8903                  | SUA-1471                  | John Buckley               | 301-415-6607    |
| Pathfinder-Lucky Mc            | 40-2259                  | SUA-672                   | Ted Carter                 | 301-415-5543    |
| Pathfinder-Shirley Basin       | 40-6622                  | SUA-442                   | Ted Carter                 | 301-415-5543    |
| Rio Algom-Ambrosia Lake        | 40-8905                  | SUA-1473                  | Tom McLaughlin             | 301-415-5869    |
| Umetco-Gas Hills               | 40-0299                  | SUA-648                   | Richard Chang              | 301-415-7188    |
| Sequoyah Fuels Corp.           | 40-8027                  | UB-1010                   | Ken Kalman                 | 301-415-6664    |
| UNC-Church Rock                | 40-8907                  | SUA-1475                  | Yolanda Norman             | 301-415-7741    |
| Anadarko-Bear Creek            | 40-8452                  | SUA-1310                  | Tom McLaughlin             | 301-415-5869    |
| Western Nuclear-Split Rock     | 40-1162                  | SUA-56                    | Richard Chang              | 301-415-7188    |
| <b><u>Standby:</u></b>         |                          |                           |                            |                 |
| Kennecott-Sweetwater           | 40-8584                  | SUA-1350                  | Jim Webb                   | 301-415-6252    |
| <b><u>Hearing:</u></b>         |                          |                           |                            |                 |
| HRI-Crown Point                | 40-8968                  | SUA-1580                  | Ron Linton                 | 301-415-7777    |

## OUTLINE FOR PREPARATION OF FACT SHEETS FOR LICENSED URANIUM RECOVERY FACILITIES

### Outline for In Situ Uranium Recovery Facilities:

#### **Site Location and Facility Description**

Describe the location of the facility and provide a general location map. Describe the general features of the facility, including the buildings, ponds, well fields, and the approximate size (acreage) of the site. Provide a map or diagram which illustrates the general locations of the principal site features, the well fields, the environmental monitoring stations, and the site boundary. For some sites in decommissioning status, some buildings may have been decommissioned.

#### **Facility Licensing and Operating History**

Describe the licensing history for the facility (application submittal date, license issuance date, and any other pertinent dates) and the subsequent history of operations. Include information on well field operation, quantities of yellowcake produced, and well fields restored or undergoing restoration. Describe any measures for disposal of liquid 11e.(2) byproduct material by release in surface waters, land application, or deep-well injection. Describe the current status of the facility (operating, standby, hearing, or decommissioning). For sites in decommissioning, describe surface reclamation progress to date.

#### **Groundwater Protection and Airborne Effluent and Environmental Monitoring Program**

Describe the hydrogeologic features of the site including ore zone aquifers and other aquifers of interest that may be affected by uranium recovery operations. Describe the groundwater monitoring designed to provide early detection of "excursions" resulting from uranium recovery operations. Describe the airborne effluent and environmental monitoring programs provided for measuring concentrations and quantities of both radioactive and non-radioactive materials released to, and in, the environment surrounding the facility.

#### **Significant Issues**

Provide a summary of any significant site or facility issues regarding public health, safety, and the environment, technical matters, and licensing actions, including any hearing requests or challenges.

#### **Contacts**

Provide contact information for the assigned NRC Project Manager for the licensed facility, including telephone number and e-mail address.

## OUTLINE FOR PREPARATION OF FACT SHEETS FOR LICENSED URANIUM RECOVERY FACILITIES

### Outline for Conventional Uranium Mill Facilities:

#### **Site Location and Facility Description**

Describe the location of the facility and provide a general location map. Describe the general features of the facility, including the buildings, ponds, ore storage pads, and tailings impoundment, and the approximate size (acreage) of the site. Provide a map or diagram which illustrates the general locations of the principal site features, the ground water monitoring wells, the environmental monitoring stations, and the site boundary. For some sites in decommissioning status, some buildings may have been decommissioned.

#### **Facility Licensing and Operating History**

Describe the licensing history for the facility (application submittal date, license issuance date, any other pertinent dates) and the subsequent history of operations. Include information on quantities of yellowcake produced and the tailings volume and area. Describe the current status of the facility (operating, standby, hearing, or decommissioning). For sites in decommissioning, describe surface reclamation progress to date, the ongoing and future reclamation activities, and provide the estimated date for facility license termination and transfer to the Department of Energy for long term care and custody.

#### **Tailings Management and Disposal**

Describe the tailings disposal cell, including the hydrogeologic features underlying the cell location. Indicate whether the groundwater underlying the cell has been contaminated as a result of operations and whether a groundwater corrective action program was implemented and completed or is still ongoing. Discuss any alternate concentration limits (ACLs) that may have been established in relation to the groundwater corrective action program. Describe the general features of the site or facility groundwater monitoring program. Describe the design features of the tailings disposal cell and include a schematic cross section of the cell design.

#### **Significant Issues**

Provide a summary of any significant site or facility issues regarding public health, safety, and the environment, technical matters, and licensing actions, including any hearing requests or challenges.

#### **Contacts**

Provide contact information for the assigned NRC Project Manager for the licensed facility, including telephone number and e-mail address.