

CLAS

DNSC-E

MAY 16 2003

U.S. Nuclear Regulatory Commission  
Region 1, Nuclear Materials Safety Branch  
Division of Nuclear Materials Safety  
ATTN: Ms Betsy Ullrich  
475 Allendale Road  
King of Prussia, PA 19406-1415

Dear Ms Ullrich:

Re: License STC-133

SUBJECT: Remediation At New Haven, IN

The Defense National Stockpile Center (DNSC) is planning to cleanup area "7A" at the Defense National Stockpile Depot in New Haven, IN to release it for unrestricted use. The work will be done by a contractor under the auspices of the US Army Operations Support Command (OSC) at Rock Island, IL, who is the Department of Defense Executive Agent for Low Level Radioactive Waste. The OSC has prepared the attached statement of work for use by the contractor. The DNSC is submitting this plan to the Nuclear Regulatory Commission (NRC) for review prior to undertaking site cleanup.

Additionally, the DNSC will submit all contractor work plans, and health and safety plans, to the NRC. It is our intent to have an independent consultant monitor the work of the contractor and conduct the final status survey in accordance with NUREG-1575, the Multi-Agency Radiation Survey and Site Investigation Manual. Plans and designs for the final status surveys will be submitted to the NRC for review prior to implementation

Sincerely,  
F. KEVIN REILLY  
Director,  
Directorate of Environmental Management Division

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Director,  
Directorate of Environmental  
Management

RECEIVED

03 MAY 20 AM 9:35

DLA/ERS7/HMSA  
HAMMOND DEPOT  
HAMMOND, IN 46327

cc: Off. File; J. Reese; M. Styvaert (OSC); DNSC-O; DNSC-OLHA; DNSC-OLNH; DNSC-EEWA

MPECULLAN:mjp:767-7620:5/12/03

29 April 2003

DESCRIPTION OF WORK  
Defense Logistics Agency (DLA) New Haven, IN  
Remediation Waste Disposal  
DLA 2003-006

This project provides for the removal of the unwanted radioactive materials from the DLA facility in New Haven, IN. The contractor shall excavate, package, profile and arrange for disposal of the waste, prepare (including preparation of shipping papers, inspection of the inventory and marking and labeling the containers) the excess materials for shipment to an authorized and approved disposal facility.

All activities shall comply with applicable local, State, and Federal rules, laws, and regulations, including the Defense Appropriations Act as it pertains to the use of ozone-depleting substances. According to the Defense Appropriations Act, the contractor, in doing the efforts as defined in this scope of work, shall in no way construe the Government direction as supporting, suggesting, or directing the use of ozone-depleting substances. The contractor shall specifically bid and do all contractual efforts according to this act.

Defense Logistics Agency (DLA) New Haven, IN  
Remediation Waste Disposal

SCOPE OF WORK  
DLA 2003-006

1. **RADIOLOGICAL HISTORY.** The New Haven, IN DLA facility is a Defense National Stockpile Center Depot. In the fall of 2000 the facility sold a stockpile of baddeleyite ore containing licensable quantities of natural uranium and thorium (Th = 0.091% and U = 0.204%). The Nuclear Regulatory Commissions (NRC) licensed the ore to DLA under Source Material License STC-133. The facility has removed the piles, but residual material remains on the footprint that requires removal and disposal to meet the NRC unrestricted release criteria. The area of concern is identified as "Area 7A" and is approximately 940 feet by 120 feet. DLA's 2001 characterization efforts indicate the material has not migrated beyond 15 cm in depth.

This scope involves the excavation, packaging, brokerage, transport and disposal of an estimated 2,000 cubic yards of contaminated soil and additional contaminated debris from Area 7A.

2. **APPLICABLE DOCUMENTS.**

- \* 10 CFR.
- \* 49 CFR.
- \* 29 CFR
- \* JMC shipping procedures.
- \* Disposal facility acceptance criteria.
- \* DLA NRC License STC-133

3. **INSTALLATION FURNISHED SUPPORT.** The JMC contractor shall supply all services, equipment, materials, and supplies required to complete the scope of work unless otherwise indicated. The installation will provide a copy machine, access to facsimile equipment, restrooms, and telephone equipment.

4. **COORDINATION.** The contractor shall coordinate project activities through the US Army Joint Munitions Command (JMC) project manager and DLA:

US Army Joint Munitions Command  
AMSJM-SF (Mr. Mike Styvaert)  
1 Rock Island Arsenal  
Rock Island, IL 61299-6000  
Phone: (309) 782-0880  
Facsimile: (309) 782-2988  
E-mail: [styvaertm@osc.army.mil](mailto:styvaertm@osc.army.mil)

Defense National Stockpile Center  
Mike Pecullan  
Phone: 703-767-7620  
E-mail: Michael.Pecullan@dla.mil

5. **WORK PLANS AND HEALTH AND SAFETY PLAN.** For this effort, a Radiological Work Plan and a site specific Health and Safety Plan are required.

5.1. **Work Plan.** The Work Plan shall as a minimum address the following;

- a summary of the scope of work
- the site background/history
- the mobilization plans
- details on the removal/excavation activities including a description of pre and post excavation topographical surveys
- a description of the planned waste packaging/transportation and disposal
- a description of equipment and personnel radiological survey and decontamination procedures
- emergency response information in accordance with OSHA requirements
- and a proposed schedule of activities including the contractors proposed work hours and work days.

5.2. **Health and Safety.** All contractor personnel shall receive, as a minimum, a briefing on the hazards of the work area, the expected dose, and possible biological effects from receiving that exposure. The environment in all buildings and surrounding areas is expected to be very low dose rate, and the greatest danger from a radiation safety viewpoint is potential contamination. The contractor may encounter hazardous materials other than radioactive materials during the survey effort although none are anticipated.

6. **ON-SITE.** The contractor shall:

6.1. **Travel to the site for a pre-bidders meeting.** This meeting will serve to familiarize the contractor with facility and it's layout. In addition, the contractor shall at this time collect any required samples for purposes of profiling the waste materials into an acceptable disposal facility.

6.2. **At least 7-days before the start of on-site work, provide DLA and JMC with the following information:**

- a. Date and time of arrival at the site.
- b. Number of personnel and names.
- c. Length of stay.
- d. Any special instructions such as installation equipment that they require for performance of the project, etc.
- e. Confirmation of the work hours and days.

6.3. Provide all services, materials, equipment, and supplies necessary to complete the scope of work unless otherwise indicated.

6.4. Participate in a pre-fieldwork kickoff meeting with DLA and JMC personnel.

6.5. Conduct a pre-excavation topographical survey of the area of concern.

6.6. Excavate and remove the described quantity of material (see inventory description in paragraph 11) at the identified location. Removal includes inspecting the shipping containers, preparing the containers for shipment, completion of shipping documents, loading, blocking and bracing the load, and transporting the containers to an acceptable disposal facility as appropriate.

6.7. Provide the transportation for the waste. The Government reserves the right to reject any vehicle or driver if it does not meet the requirements of the Department of Transportation.

6.8. The contractor shall provide brief weekly reports (e-mail preferred) of field activities to the POCs identified in paragraph 4.

6.9. Conduct a post-excavation topographical survey of the area of concern.

7. **DELIVERABLES.** The contractor shall provide one copy each of the following items to DLA and JMC at the addresses identified in paragraph 3 above.

- The Work Plan and Health and Safety Plan as described in paragraph 5
- \*Shipping documents of the radioactive material from the installation within 10 days.
- Acknowledgements of receipt from each receiving facility within 10 days.
- Documents of shipping papers/receipts for disposal of waste from this project.
- Block #5 of the manifest shall indicate DLA New Haven as the only generator.

- A final report as described in paragraph 12.

\*Note: Include the county name and 9-digit zip code of the installation for future reporting. The JMC requires this information for reporting.

8. **PERMITS.** The contractor shall contact the JMC permit manager, Ms. Sharyll O'Neal, (309) 782-2068 for required permits. The contractor shall obtain any required permits to make the shipment.

9. **PERSONNEL.** The contractor shall propose a project manager with a minimum of 3-years experience in conducting environmental remediation/restoration efforts, primarily with radioactive material.

9.1. The contractor shall provide resumes of technical personnel with the project proposal.

9.2. On-site personnel must have the training mandated by 29 CFR 1910.120 (40 hours plus 3 days on-site experience). Supervisors shall have 8 hours of additional supervisory training. The contractor shall provide written evidence of current Occupational Safety and Health Administration training for each person performing work and a corporate certification that each person is medically capable of working on a hazardous waste site.

9.3. Contractor personnel shall receive and document a briefing on the hazards of the work area, the expected dose, and possible biological effects from receiving that exposure.

9.4. The contractor shall provide a JMC-approved broker to manage the shipments.

9.5. The contractor shall identify any proposed sub-contractors in their cost and technical proposal.

10. **FINANCIAL.** This delivery order shall include the cost for processing and disposal at an acceptable disposal facility.

11. **INVENTORY.** The anticipated DLA New Haven waste will consist of 2,000 cubic yards of soil and debris contaminated with natural uranium and thorium (Th = 0.091% and U = 0.204%). Included in the 2,000 yd<sup>3</sup> estimate are the following;

- a 15,000 ft<sup>2</sup> (approximately 257' x 58') asphalt pad
- two (2) road and access areas approximately 940' x 25'
- three (3) rail lines\* approximately 940 linear feet
- 66 yd<sup>3</sup> of railroad ties, plastic and canvas

- 21 each 5-gallon buckets of ore
- contaminated railroad ties (approximately 25' x 25' x 6')

\* - the rail lines include the ties, rails and ballast.

The contractor shall leave uncontaminated materials including steel rails and ties as applicable at the installation in an area designated by the onsite representative. The contractor shall propose methods to reduce the amount of LLRW requiring disposal at an acceptable disposal facility.

12. **FINAL REPORT.** After completing the on-site work, the contractor shall prepare a draft Final Report. The contractor shall deliver hard copies or an electronic copy (e-mail) of the draft Final Report to the DLA and JMC POC's identified in paragraph 4 within 3 weeks of project completion. DLA and JMC will review and provide comments to the Report within 2 weeks of receipt. The contractor shall address the DLA and JMC comments within 2 weeks and issue a Final Report (1 hard copy and one CD) to DLA and JMC.

12.1. **Coordination.** The contractor shall coordinate all final report activities with the Army Project Officer, Mr. Styvaert. The address and telephone numbers are identified in paragraph 4.

13. **SCHEDULE.** The contractor shall make schedule arrangements through the JMC point of contact identified in paragraph 3. The contractor shall begin work no later than 30 days after contract award and shall complete all phases of this effort no later than 120 days after contract award.