

NOTICE TYPE: REQUEST FOR INFORMATION (RFI)

Number ID: 89303319REM000034

Title: Idaho Cleanup Project (ICP) - Radioactive Waste Management Complex (RWMC) Closure and Other Mission Objectives

Date: November 14, 2018

THIS IS NOT A REQUEST FOR QUOTE OR PROPOSAL. THIS IS A REQUEST FOR INFORMATION (RFI) ONLY.

No solicitation is available. This RFI is released pursuant to FAR 15.201(e), Exchanges with Industry, and is issued for the purpose of conducting market research.

The U.S. Department of Energy (DOE) Office of Environmental Management (EM) is currently in the acquisition planning stage for the potential award of a contract to include but not limit to the following activities: RWMC Closure; Complete Movement of Spent Nuclear Fuel (SNF) from Wet to Dry Storage; Complete Transuranic (TRU) Waste Shipments Out of the State of Idaho; Sodium Bearing Waste (SBW) Processed and Tank Farm Closure Completion; Establishment of a Direct Disposal Pathway for Calcine; Maintain Facilities and General Infrastructure; Maintain Regulatory Compliance; and Establishment of a Spent Nuclear Fuel Disposition Pathway Site at the DOE Idaho National Laboratory (INL) Idaho Cleanup Project (ICP) Site in southeast Idaho. The purpose of this potential end state contract is to achieve significant reduction in financial liability and environmental risk that provides the best overall optimal solution towards completion of the DOE-EM mission at the INL Site by accomplishing the maximum amount of environmental cleanup in the least amount of time and at the best value to the U.S. taxpayer. DOE is seeking innovative risk-based End State approaches (based on risk analysis) for completing ICP activities in a safe, compliant, and efficient manner resulting in an accelerated reduction of risk and environmental liability. The term “End State” is defined as the specified situation at the successful completion of the final phase of an environmental cleanup activity.

The majority of EM’s cleanup work at the Idaho site is driven by regulatory compliance agreements. The two foundational agreements are: the 1991 Comprehensive Environmental Response Compensation and Liability Act (CERCLA)-based Federal Facility Agreement and Consent Order (FFA/CO), which governs the cleanup of contaminant releases to the environment; and the 1995 Idaho Settlement Agreement (ISA), which governs the removal of transuranic waste, spent nuclear fuel and high level radioactive waste from the state of Idaho. Other regulatory drivers include the Federal Facility Compliance Act-based Site Treatment Plan (STP), and other environmental permits, closure plans, Federal and state regulations, Records of Decision (RODs) and other implementing documents. However, DOE is seeking for all viable options for completing the end states noted within Attachment 1. In addition, DOE is looking for viable dates for completing the end states within the regulatory boundaries.

Due to the preliminary stage of this planning activity, a Performance Work Statement is not available at this time; however, the Major Elements of Scope have been identified in Attachment 1. The various Major Elements of Scope have descriptive statements of DOE's "desired outcome" associated with the performance of each element. That "desired outcome" statement is intended to provide the Contractor with insight regarding DOE's perspective on the objectives that need to be accomplished in order to accelerate completion of the EM ICP cleanup.

The purpose of this RFI is to solicit input via capability statements from interested parties with the specialized capabilities necessary to meet all of the Major Elements of Scope for the upcoming competitive procurement for the EM ICP requirements. Within these capability statements, DOE is seeking feedback from contractors and other interested parties regarding end state options for innovative approaches for the performance of the Major Elements of Scope as well as insight into potential contracting alternatives. This market research will assist DOE with identifying interested and capable sources and developing its acquisition strategy. Key market research goals include identifying and minimizing barriers to competition, evaluating small business capabilities, and identifying risks. This contract is intended to align with the current EM end state contract model; however, the final contract type, period of performance, amount of funding, and set aside possibilities will be determined through the acquisition planning process and this market research.

The DOE EM Consolidated Business Center (EMCBC) has created a procurement website where additional information will be provided and can be viewed at <https://www.emcbc.doe.gov/ICP/>. Information posted on the EMCBC procurement website will be updated as it becomes available; therefore, interested parties should monitor the EMCBC website for additional information. DOE will not respond to or post on the EMCBC website any verbal or written questions or comments pertaining to this RFI package.

DOE will determine whether or not the full requirements can be performed by small business, 8(a), HUBZone small business, small disadvantaged business, woman-owned small business, service-disabled veteran-owned small business, or large business. Small businesses, believing that they have the capability to perform all or a portion of the Major Elements of Scope, are welcome to demonstrate such capabilities by submitting a capability statement in accordance with the instructions below. Information provided in response to this RFI will also help shape small business subcontracting incentives if a small business set-aside is not feasible. The North American Industry Classification System (NAICS) code for this requirement is 562910, Environmental Remediation Services, and the small business size standard is 750 employees.

THIS ANNOUNCEMENT IS NOT A REQUEST FOR PROPOSALS (RFP) AND SHALL NOT BE CONSTRUED AS A COMMITMENT BY THE GOVERNMENT TO AWARD A CONTRACT AT THIS TIME.

All interested parties are hereby invited to submit a capability statement of no more than 15 pages, and no smaller than 12 point font. Also, electronic file submissions must be less than 20 Megabytes. The Government will evaluate each capability statement based

on the interested parties' (and that of teaming partners when applicable) demonstrated qualifications, capabilities, expertise and past performance in each of the Major Elements of Scope. More specifically, capability statements should include the following information as appropriate and as applicable:

- 1) Describe your ability, approach (including rationale) and relevant experience in performing all of the Major Elements of Scope. Identify no more than five (5) DOE, other Government, and/or other commercial work relevant to this RFI [include contract number, role in the effort (i.e., prime contractor or subcontractor), period of performance, dollar value, scope, client, and contracting agency contact information].
- 2) Identify any performance and/or technical challenges and risks in meeting the requirements discussed in the Major Elements of Scope. Identify how your organization would minimize any risks to maximize the probability of successful performance. DOE is interested in cutting-edge thinking, innovativeness, and other ways for DOE to maximize the probability of successfully and safely performing the work through technology.
- 3) Discuss your company and/or teaming arrangement's relevant experience in managing and integrating the Major Elements of Scope under a single contract to ensure the most efficient overall approach to achieving the End State objectives. Also, describe your relevant experience in managing and integrating the work of subcontractors who would perform specialty functions. Further, provide input regarding ways to identify meaningful work to be accomplished by small businesses.
- 4) Describe your relevant work in a complex regulatory environment in respect to problem-solving, working with various stakeholders, Citizen Advisory Groups, and regulatory agencies at the state and federal level.
- 5) Describe your ability to obtain the expertise and relevant experience in sponsorship, management and administration of legacy pension plans and other benefit plans including Defined Contribution Plan, Post-Retirement Benefits Plan, health and welfare benefit plans and severance. Discuss your company's and/or teaming arrangement's experience in managing a union-represented workforce and labor-management relations and resolving any past labor disputes.
- 6) As previously stated, DOE is seeking innovative End State solutions that achieve a reduction in environmental risk and environmental financial liability, while also providing for accelerated cleanup. Therefore, provide information on potential End State solution(s) for the prospective procurement, including, but not limited to: optimal period of performance/timelines, key assumptions, risks and/or challenges associated with the identified potential End State solution(s), and any efficiencies that could be gained where requirements may be redundant and/or overly burdensome.
- 7) Highlight any factors that would make competing for this contract desirable or undesirable for your firm, including fee structure and input on proposal evaluation criteria. Discuss any issues that DOE should consider when developing the solicitation for this requirement. Provide input and ideas regarding methods for

which a completion type contracting approach could be effectively implemented for this work scope in order to incentivize the contractor to achieve accelerated completion of contract end states. In addition, please identify and describe any areas in the Major Elements of Scope believed to be missing or in need of clarification.

- 8) Identify any Organizational Conflicts of Interest (OCI) concerns and/or potential OCIs that you or your teaming partners may have pertaining to the work described in this RFI.

Interested parties are requested to provide the name of the firm, or firms if a teaming arrangement is being contemplated, point of contact, phone number, address of firm, DUNS number, and/or CAGE code used over the past five years for the prime and each contemplated teaming partner. Small business teams or joint ventures shall identify the socio-economic status of each member and shall provide the capabilities of each member, as well as a description of the work that each member would perform under a contract, keeping in mind the requirements of FAR Clause 52.219-14, Limitations on Subcontracting (if any portion of the effort is to be set-aside for small businesses). Identify as one or more of the following under NAICS code 562910, Environmental Remediation Services: 1) small business; 2) 8(a) business (including graduation date); 3) HUBZone small business; 4) small disadvantaged business; 5) woman-owned small business; 6) service-disabled, veteran-owned small business; or 7) large business.

DOE reserves the right to use any and all information submitted by, or obtained from, an interested party in any manner DOE determines is appropriate, including, but not limited to, the creation of a competitive solicitation. An interested party should avoid including any classified, business confidential, and/or proprietary information in its response. However, if an interested party must submit business confidential and/or proprietary information, it must be clearly marked accordingly, and the interested party must provide sufficient justification as to why such information is business confidential and/or proprietary. DOE will review said information and safeguard it appropriately.

The Government will not pay for any information that is provided in response to this announcement nor will it compensate any respondents for the development of such information. All capability statements and questions pertaining to this announcement shall be submitted electronically to ICP@emcbc.doe.gov no later than 5:00 p.m. Eastern Time on Wednesday, December 12, 2018. DOE may not respond to or post on the EMCBC website any verbal or written questions or comments pertaining to this RFI. DOE personnel may contact firms responding to this announcement to clarify a responder's capabilities and other matters as part of this market research process.

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Attachment 1 – Major Elements of Scope

The End States of this acquisition are to fulfill DOE's obligations for the following Major Elements of Scope:

Close RWMC

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- Facilities Decommissioned/Deactivated & Dismantled/Demolished (D&D) in the Subsurface Disposal Area (SDA) cap and drainage system footprint early in the contract period
- SDA cap constructed followed by required Waste Area Group (WAG) 7 maintenance and monitoring
- Operate Advanced Mixed Waste Treatment Project (AMWTP) as necessary until closure
- Maintain security posture with appropriate adjustments and downgrades as the facility's security needs evolve through closure
- Maintain nuclear safety basis with appropriate downgrades and document safety analysis revisions as facility hazard categories are reduced through the closure process
- ISA waste certified and shipped out of Idaho
- AMWTP Resource Conservation and Recovery Act (RCRA) closed.
- All remaining Radioactive Waste Management Complex (RWMC) D&D completed, including infrastructure systems

Complete TRU Waste Shipments Out of the State of Idaho

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- For Contact Handled –Transuranic (CH-TRU) waste:
 - Ensure remaining ISA CH-TRU waste is fully characterized and certified to meet the current Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (WAC)
 - Ship remaining ISA CH-TRU waste per WIPP shipping schedule for Idaho as well as be prepared to fill any additional shipments made available complex-wide.
 - Maintain CH-TRU waste program certification until all ISA waste is shipped
 - Manage stored ISA waste inventory in a compliant manner and for most efficient use of storage and packaging and transportation facilities/assets
- For Remote Handled-Transuranic (RH-TRU) Waste:
 - Maintain treatment, characterization, and certification capabilities and facilities/assets to support STP treatment milestones
 - Ensure remaining ISA RH-TRU waste is fully characterized and certified to meet the current WIPP WAC
 - Ship remaining ISA RH-TRU waste per WIPP shipping schedule for Idaho as well as be prepared to fill any additional shipments made available complex-wide.

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- Manage stored ISA/RH-TRU waste inventory in a compliant manner and for most efficient use of storage and packaging and transportation facilities/assets
- Disposition Mixed/Low Level Waste (M/LLW):
 - Maintain compliance with Idaho Site Treatment Plan
 - Properly characterize the waste and maintain its compliant storage until it is disposed or shipped off-site for final disposition
 - Maintain generator certifications with off-site disposal facilities
 - Maintain Nevada National Security Site (NNS) shipping certification

SBW Processed and Tank Farm Closure Complete

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- Operations of the Integrated Waste Treatment Unit (IWTU) facility and closure of the Liquid Waste Facility and tanks.
- This scope will include completion of treatment of the remaining liquid Sodium Bearing Waste (SBW) and solids, tank cleaning of the four remaining Tank Farm Facility Tanks 187, 188, 189 and 190, closure of these four tanks under RCRA and DOE Order 435.1.
- IWTU facility modifications may be initiated to support calcine disposition. These modifications may be dependent upon the calcine disposition path forward (future treatment versus direct disposal).

Direct Disposal Pathway for Calcine is Established

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- Completion of the Calcine Retrieval Demonstration Project.
 - This scope may include removal of calcine from Bin Set 1 into Bin Set 6, and closure of Bin Set 1 under RCRA and DOE Order 435.1 to include the NDAA 3116 requirements.
 - Additional scope is to implement the 2015 Calcine Disposition Project (CDP) Analysis of Alternative recommendations to re-evaluate direct disposal of calcine as the preferred disposition path for calcine.

Maintain Facilities and General Infrastructure

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- Infrastructure upgrades at Idaho National Technology and Engineering Center (INTEC)
- Focus on maintaining all utilities and support services to maintain SNF activities, IWTU and CDP.
- Upgrades to the INTEC utility tunnel will continue under this scope.
- General up keep, maintenance, repair, and utilities for EM site facilities.

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- Reduction of min-safe/hotel load costs for site facilities and services.

Maintain Regulatory Compliance

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- Maintain compliance with FFA/CO, CERCLA Record of Decision (ROD)s and associated work plans
 - Continue to complete 5-Year reviews as required
 - Continue required groundwater monitoring, including maintenance of monitoring network
 - Continue required operations, maintenance and monitoring at all WAGs
 - Address new potential release sites per FFA/CO – WAG 10 required process
 - Continue Test Area North (TAN) groundwater plume remediation per work plans
 - Complete interim asphalt barrier over eastern 1/3 of INTEC Tank Farm when remaining tanks are closed per the WAG 3 work plan
 - Operate Idaho CERCLA Disposal Facility (ICDF) per CERCLA Work Plans, which may include closing and capping the existing cells and evaporation ponds and constructing a new disposal cell
 - Continue to routine reporting per FFA/CO and work plan requirements
 - Make necessary preparation for final Tank Farm evapotranspiration surface barrier design and construction and progress design and construction to degree required by WAG 3 work plans
- Maintain compliance with RCRA, RCRA permits, and any remaining Interim Status permits remaining, Site Treatment Plan, and applicable consent orders
- Maintain compliance with other environmental laws and regulations and applicable, e.g., Clean Air Act, Clean Water Act, etc.
- Reduction of cost for min-safe/regulatory compliance activities.

Complete Movement of Spent Nuclear Fuel from Wet to Dry Storage

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- Spent Fuel transfers (Experimental Breeder Reactor (EBR II) and Advanced Test Reactor (ATR) fuels), Facilities are Maintained, and
- SNF Receipt and Storage.
- Fort Saint Vrain (FSV):
 - Provide security services and facility operations and maintenance in accordance with Nuclear Regulatory Commission (NRC) license requirements and conditions.
 - Wastewater (including both radiological and industrial) treatment system, including ponds and lagoons.

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Spent Nuclear Fuel (SNF) Disposition Pathway is established:

The desired outcome is to perform all Environment, requirements and business administration requirements including, but not limited to the following:

- Complete a feasibility study to determine whether an existing facility can be repurposed or if a new facility must be built.
- Pre-design, design, and construction for the SNF receiving, packaging, and shipping facility to support packaging of DOE-owned SNF in a road-ready condition. (For purposes of this scope, road-ready is defined as placing the SNF in a multi-purpose canister suitable for transportation and disposition in a repository.)