

**NOTICE TYPE:     SOURCES SOUGHT NOTICE**

**Number ID:         89303319REM000055**

**Title:               Savannah River Site (SRS) – Integrated Mission Completion**

**Date:                May 30, 2019**

**PLEASE NOTE THAT THIS IS NOT A REQUEST FOR QUOTE OR PROPOSAL, NO SOLICITATION EXISTS AT THIS TIME.**

This sources sought notice is being issued to conduct market research. This synopsis is for information and planning purposes, and is not to be construed as a commitment by the U.S. Government, nor will the U.S. Government pay for information solicited. The information from this notice will help the Department of Energy (DOE) during their acquisition planning process.

The DOE, Office of Environmental Management (EM), is currently in the acquisition planning stage for the liquid waste stabilization/disposition, nuclear materials management and stabilization, deactivation and decommissioning among other requirements at the Savannah River Site (SRS). The services to be acquired will be performed at SRS, a 310 square mile (198,344 acres) site that is located in the sand-hills region of South Carolina. SRS encompasses parts of Aiken, Barnwell and Allendale counties and is bordered on the west by the Savannah River and Georgia.

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 SRS Integrated Mission Completion (IMC) 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 cleanup 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 SRS is driven by regulatory compliance agreements. Two key agreements, the Federal Facility Agreement (FFA) and the Site Treatment Plan (STP), facilitate the accelerated cleanup of the site. The FFA is a tri-party agreement between the DOE, South Carolina Department of Health and Environmental Control (SCDHEC), and the Environmental Protection Agency (EPA), that governs the environmental remediation and liquid waste disposition program and establishes the foundation for timely remediation under both the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). The STP requires mixed (hazardous and radioactive) waste to be treated to hazardous waste standards with an agreed-upon schedule. The STP is enforceable by a Consent Order signed by both DOE and SCDHEC. However, DOE is seeking all viable options for completing the end states noted within Attachment 1. In

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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 SRS cleanup.

The purpose of this sources sought 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 SRS IMC 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/seb/srsimc>. 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 Sources Sought 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 Sources Sought 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**

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**AWARD A CONTRACT AT THIS TIME. This Sources Sought Announcement, market survey, is for information only and will be used for preliminary planning purposes to gain knowledge of the interest, capabilities, and qualifications of interested firms. No reimbursement will be made for any costs associated with providing information in response to this Sources Sought Announcement or any follow up information.**

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 and approach (including rationale) 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 Sources Sought [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 capabilities 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 capability 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 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.

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- 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: representative discriminating work scope areas, 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

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information. All capability statements and questions pertaining to this announcement shall be submitted electronically to [SRSIMC@emcbc.doe.gov](mailto:SRSIMC@emcbc.doe.gov) no later than 5:00 p.m. Eastern Time on Thursday, June 13, 2019. 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**

### **Project Management and Support Services**

The desired outcome is to adopt the programs and implementing procedures (e.g., Documented Safety Analysis (DSA), Technical Safety Requirements (TSRs), nuclear safety operating procedures, Performance Assessments, etc.) to facilitate continuity of operations and accomplishment of work and to perform compliance verification of these programs and the implementing procedures.

The desired outcome is to maintain compliance with site-wide Manuals governing operations and maintenance requirements. These activities include routine operations, predictive, preventive and corrective maintenance, and infrastructure activities needed to support LW, Nuclear Materials and D&D facilities and any facility improvements including general plant projects, major modifications, temporary modifications, and line item projects needed to sustain facility operations. Facilities shall be operated and maintained in a condition to ensure operability as designed beyond the end of the contract period of performance.

Infrastructure for the purpose of this work scope includes all facility support structures; operational equipment; fire protection; electrical systems; plumbing; heating, ventilation and air conditioning equipment; superstructures; interior and exterior enclosures; roofing; foundations; basement construction; conveying systems; stairs; and furnishings. The areas of consideration include:

- LW facilities: Tank Farms and associated systems, structures and components, S-Area, Z-Area, ETF, and SWPF in J-Area, once the SWPF is transitioned to the Contractor. It also includes the office trailers and other supporting facilities in areas B, E, G and T-Areas.
- NM facilities: H-Canyon, H Area Outside buildings, HB-Line, RBOF, L- Area, F-Canyon, F/H Laboratory and 235-F.
- Deactivation and Decommissioning (D&D)

### **Liquid Waste Stabilization/Disposition**

The desired outcome is to safely and effectively manage the liquid waste program and facilities in accordance with applicable DOE Directives and requirements. The liquid waste system is divided by function into four operational sub-systems: (1) waste storage, retrieval, sludge pretreatment, salt batch preparation, and closure of underground liquid waste storage tanks/systems in the F-Area and H-Area Tank Farms (Tank Farms); (2) salt waste treatment in processing facilities; (3) high activity waste treatment by vitrification in the Defense Waste Processing Facility (DWPF) with onsite glass storage until a permanent disposal facility is available; and (4) stabilization of low level liquid waste in the Saltstone Production Facility (SPF) with permanent disposition as grout in Saltstone disposal units. The Contract scope includes the future operation and maintenance of the Salt Waste Processing Facility (SWPF),

currently being commissioned under another contract that also includes an initial operational period of one year.

The desired outcome for the liquid waste program during the period of performance includes the following:

- Safely operate and optimize the liquid waste system. Identify, develop, and implement improved supplemental, or replacement processes, approaches, and technologies for waste treatment, waste removal, tank closure, and waste disposal that reduce program lifecycle costs, accelerate radioactive liquid waste disposition schedules, or otherwise optimize system performance.
- Support timely completion, startup and initial operation of the SWPF by fulfilling all interface responsibilities, e.g. waste transfer infrastructure, delivery of qualified salt batches from waste removal operations as feed for SWPF, and receipt from SWPF of (a) two high-activity feed streams for processing at DWPF and (b) a low-activity feed stream for processing and disposal at the Saltstone Facility.
- After the transfer of operational responsibility, operate and maintain the SWPF to process salt waste at SWPF to yield two high-activity salt streams which meet waste feed acceptance criteria for processing at DWPF and a low-activity salt stream which meets waste feed acceptance criteria for processing and disposal at the Saltstone Facility.
- Operate Tank Farms to maintain a constant source of waste feed to Liquid Waste processing facilities in keeping with each facility's capability to receive and process waste. This will include planning and staging to support a continued and uninterrupted source of waste feed to Liquid Waste processing facilities to include:
  - Receive liquid radioactive waste from H Canyon nuclear material stabilization activities.
  - Deliver salt waste feed, fully conforming with the SWPF waste acceptance criteria, to SWPF for processing.
  - Operate and maintain the Actinide Removal Process (ARP) and the Modular Caustic Side Solvent Extraction Unit (MCU) pending the start of SWPF operations to process salt waste from waste removal operations into two high-activity feed streams for processing at DWPF and a low-activity feed stream for processing and disposal at the Saltstone Facility.
  - Deliver sludge waste feed, fully conforming with DWPF waste acceptance criteria, to DWPF for processing.
- Operate and maintain the DWPF to produce DWPF canisters at optimal sludge and salt waste loadings.
- Operate and maintain Glass Waste Storage Building (GWSB) #1 and #2 to store the vitrified waste canisters produced by DWPF.

- Operate and maintain the Saltstone Facility consisting of the SPF and the Saltstone Disposal Facility (SDF) to process and dispose of low-level waste.
- Construct SDUs to support the continued and uninterrupted disposal of low-level waste at the SDF.
- Operationally close liquid radioactive waste storage tanks and associated facilities in support of the FFA and State approved plans.
- Operate and maintain the Effluent Treatment Facility (ETF) (also known as Effluent Treatment Project) to process aqueous waste streams from Liquid Waste system operations and from other site operations into a form suitable for (a) release to a permitted outfall or (b) processing and disposal at the Saltstone Facility.
- Maintain an interactive program/system planning process for Liquid Waste program milestones and execution schedules including comprehensive salt and sludge batch planning.

### **Nuclear Materials Management and Stabilization**

The desired outcome is to safely and effectively manage nuclear materials and facilities in accordance with applicable DOE Directives and requirements. Management of nuclear materials at SRS includes four distinct but integral functions: receipt, storage, operations, and disposition.

- Perform activities to accept receipts of nuclear materials in support of the non-proliferation program of the United States. These receipts may be from domestic or foreign sources. Receipt includes the review of the material to ensure the safety of the SRS storage and processing facilities.
- Perform activities to place and maintain nuclear materials in a safe, secure, and stable form. These materials include spent nuclear fuel located in the L-Area facility complex that may have originated from past operations or from U.S. and foreign research reactors. Storage shall be managed safely, securely, and efficiently to support site and DOE complex-wide consolidation and disposition missions
- Operate and maintain the H Canyon Complex to support stabilization and disposition of nuclear materials and spent nuclear fuel, as required by DOE. For planning purposes, DOE has assumed that H Canyon operations will contribute approximately 300,000 gallons per year to the Tank Farm through 2030.
- Maintain an effective program to facilitate safe and secure nuclear material shipments consistent with the current authorization agreement and subsequent revisions. Stabilize, de-inventory, and transition excess nuclear facilities and ancillary structures for D&D.
- Process SNF in H Canyon. Continue processing of SNF to meet site directed mission requirements and to develop future disposition alternatives.
- Operate and maintain the L-Area basin water chemistry, fuel inspection and transport of fuel from L-Area to H-Canyon and maintain the L-Area support facilities.
- Manage the storage of the site's inventory of heavy water.

### **Deactivation and Decommissioning**

The desired outcome is to provide the overall management of the D&D program at SRS. D&D of facilities and ancillary structures may include relocation of existing functions and personnel, characterization, risk analysis, evaluation of alternatives, stabilization, and final decommissioning as directed by DOE. All D&D activities shall be conducted through an integrated approach with soil and water remediation requirements in accordance with the established regulatory interaction protocols. D&D activities, and the integrated approach within, must consider historic properties and historic preservation requirements.