

MISSION SUPPORT AND TEST SERVICES, LLC
FIRM-FIXED-UNIT-PRICE CONSTRUCTION SUBCONTRACT AGREEMENT

EXHIBIT B
STATEMENT OF WORK, SPECIFICATIONS AND DRAWINGS

TABLE OF CONTENTS

<u>NO.</u>	<u>TITLE</u>	<u>PAGE</u>
B-1	Scope	2
B-2	Requirements	2
B-3	Technical Specifications	5
B-4	Drawings	5
B-5	Delivery & Work Location	5
B-6	Clearance Requirements	6
B-7	Experience/Specific Training/Specific Certifications	6
B-8	Environmentally Preferable Products	6
B-9	Submittals	8

B-1 SCOPE AND BACKGROUND

1. Scope: The purpose of this subcontract is to procure tank repair services on a Task Order (TO) Basis. SUBCONTRACTOR shall refurbish 17 existing water tanks at the Nevada National Security Site (NNSS) located in Areas 23, 5, 6, 12, 18 and 25.
2. Project Background: The existing condition of 17 domestic and fire suppression water storage tanks require repairs and modifications.
3. .
4. General Site Information:
 - 4.1. The Nevada National Security Sites (NNSS) is a U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA) installation, operated by Mission Support and Test Services, LLC (CONTRACTOR), comprising approximately 3,561 square kilometers (1,375 square miles) of federally owned land located in southeastern Nye County, Nevada. Located approximately 105 kilometers (65 miles) northwest of Las Vegas, Nevada, the NNSS is accessed from U.S. Highway 95, which roughly forms the southern boundary of the site.
 - 4.2. The CONTRACTOR also operates the North Las Vegas Facility (NLV); the Remote Sensing Lab at Nellis AFB, North Las Vegas, NV (RSLN); the Remote Sensing Lab at Andrews AFB, Maryland (RSLA); Special Technologies Lab at Santa Barbara, CA (STL); Livermore Operations at Livermore, CA (LO); and Los Alamos Operations at Los Alamos, NM (LAO).

B-2 REQUIREMENTS

1. General: SUBCONTRACTOR shall provide materials, equipment, and labor to meet the objectives of this project. The intent is to issue between 1-5 Task Orders annually over a five-year period. Attachment #2 02851-SPC-01 contains a detailed list of requirements and work performance specifications for each tank.
2. Detailed Requirements:
 - 2.1. SUBCONTRACTOR shall provide the materials, equipment, and labor to complete the scope of work for each Task Order to complete water storage tank scope as described in Attachment #2, 02851-SPC-01, Tank Refurbishments Performance Specification Revision 0.
 - 2.2. SUBCONTRACTOR shall provide an experience statement or resume for all key personnel proposed. The statement shall include narrative of the experience and capabilities in their roll on this water tank repair project. Key personnel include:
 - 2.2.1. Project Manager. The Project Manager shall have a minimum of 5 years of experience in project management, with at least one project of \$3M or greater in the past 5 years, or a current project portfolio of at least \$5M. The experience statement shall demonstrate the Project Manager's ability to plan and execute water tank repair construction projects and apply earned value management systems.
 - 2.2.2. Superintendent. The Superintendent shall have a minimum 10 years of experience in water tank repair supervision for projects similar in scope and value to the work described in Attachment #2.
 - 2.2.3. Lead Tank Service Technician. The lead Technician shall have at least 5 years of experience with similar public water storage tank repair and painting as described in Attachment #2.
 - 2.3. Existing Utilities:
 - 2.3.1. Utility requirements (power, water, communication) beyond CONTRACTOR's existing capability to provide must be supplied by SUBCONTRACTOR.
 - 2.3.2. SUBCONTRACTOR shall notify STR not less than 10-days in advance of proposed existing utility interruptions.
 - 2.4. SUBCONTRACTOR Use of Premises:
 - 2.4.1. On-site Work Hours: SUBCONTRACTOR shall perform work during normal business hours working 7am-5pm, Monday-Thursday unless otherwise approved by the CONTRACTOR.
 - 2.5. SUBCONTRACTOR shall provide an Job Hazard Analysis in accordance with the requirements

established in Exhibit E, Environmental, Safety, and Health Requirements.

2.4.1. SUBCONTRACTOR shall conduct a Daily Activities Briefing for all SUBCONTRACTOR and lower tier subcontracted personnel.

2.6. SUBCONTRACTOR shall provide all their personnel and lower tier subcontractors with proper PPE equipment. The CONTRACTOR will not supply.

2.7. Hazardous Materials:

2.7.1. SUBCONTRACTOR shall cleanup, mitigate and remediate, if necessary, unauthorized discharges of hazardous materials or non-hazardous chemical and biological products released from vehicles or stationary sources.

2.7.2. Response shall be consistent with guidelines established by DOE regulations provided to SUBCONTRACTOR by the CONTRACTOR's Subcontractor Technical Representative (STR).

2.8. SUBCONTRACTOR shall provide Pre-construction Conference Meeting Submittals

2.8.1. SUBCONTRACTOR shall provide submittals minimum of 1 (one) week prior to the Pre-construction Conference Meeting.

2.9. Product Data and Sample Sheets:

2.9.1. Product Data:

2.9.1.1. SUBCONTRACTOR shall submit a digital Product Data file of an epoxy high solids system 75-125 mils that complies with Attachment #2 02851-SPC-01 to the interior surfaces of all tanks in compliance with Safe Water Drinking Act and SWDA Compliant System.

2.9.1.2. SUBCONTRACTOR shall submit product data for proposed weather-stripping material.

2.9.1.3. SUBCONTRACTOR shall provide a CONTRACTOR approved 2-coat enamel paint system that is designed for exterior steel surfaces of water storage tanks.

2.9.2. Samples:

2.9.2.1. SUBCONTRACTOR shall submit two (2) samples of the paint finish and color selected on 4" x 6" steel coupon.

2.9.2.2. Submit all product information and samples with an MSTs Transmittal Form.

2.9.2.3. Submittal shall include one digital file (.PDF or .TIF) and physical samples of actual material.

2.10. SUBCONTRACTOR shall prepare and submit a firm fixed price bid for all scope of work elements for each tank site using Exhibit A, Attachment 1, Price Summary Index.

2.11. SUBCONTRACTOR shall provide 3rd party qualified testing agency for Structural Tank Inspection Services in accordance with Attachment #2 02852-SPC-01 for each tank project.

2.11.1. Structural Tank Inspection Services shall start during surface prep and end after coatings have passed testing.

2.11.2. Structural Tank Inspection Services shall include Daily Inspection Reports provided to CONTRACTOR.

2.11.2.1. Daily Inspection Reports shall be in accordance with the National Association of Corrosion Engineers (NACE) Level II Coatings Inspector Qualifications. Each report shall include a minimum of the following information: date, time, qualified inspector's name, testing method(s), temperature, humidity, deficiencies, coating mixture, dry film thickness (DFT), and other conformance/non-conformance to approved industry standard practices and manufacturer requirements.

2.11.2.2. All Daily Inspection Reports shall be approved by the CONTRACTOR's project STR and Project Manager (PM)

2.11.3. Structural Tank Inspections shall occur after draining and sandblasting of the existing tank.

2.11.3.1. SUBCONTRACTOR shall provide a Structural Inspection report stamped by a Nevada

licensed structural professional engineer (PE) after draining and surface prep work is completed for each tank.

- 2.11.4. SUBCONTRACTOR shall provide stamped engineering drawings by a Nevada licensed PE for all modifications made to potable water tanks.
- 2.12. SUBCONTRACTOR shall submit cathodic protection calculations, drawings, and recommendations for a passive tank cathodic protection system (CPS) for all tanks with CPS included in the scope listed in Attachment #2, 02851-SPC-01, Tank Refurbishments Performance Specification Revision 0.
- 2.13. .
- 2.14. SUBCONTRACTOR shall provide a Disinfection and Sampling Plan.
- 2.15. SUBCONTRACTOR shall provide a Blasting and Cleaning Plan in accordance with OSHA requirements for abrasive materials and methods.
- 2.16. SUBCONTRACTOR shall provide an Interior Coatings Plan in accordance with the American Water Works Association standard for coating steel water storage tanks (AWWA-D-102).
- 2.17. SUBCONTRACTOR shall provide an Exterior Coating and Surface Plan in accordance with the Society for Protective Coatings, surface preparation standard No. 1 (SSPC-SP-1).
- 2.18. Warranty:
 - 2.18.1. SUBCONTRACTOR shall provide warranty information of all products installed, organized by product type.
 - 2.18.1.1. All contact information, warranty extents, and conditions shall be clearly noted.
 - 2.18.1.2. SUBCONTRACTOR shall provide a date of Substantial Project Completion, approved by the CONTRACTOR.
 - 2.18.1.3. Information shall include operation and maintenance manuals for each material under warranty.
- 2.19. Coating Compatibility Certificates:
 - 2.18.1 Subcontractor shall submit certifications showing that shop primers are compatible with stripe coat and finish coat.
- 2.20. Agreement
 - 2.20.1. Base Agreement
 - 2.20.1.1. Task Order #1: Area 23 Mercury North Tank
 - 2.20.1.2. Task Order #2: Area 23 Mercury South Tank
 - 2.20.2. Options
 - 2.20.2.1. Option #1: Install Cathodic Protection System at Area 23 Mercury North Tank
 - 2.20.2.2. Option #2: Install Cathodic Protection System at Area 23 Mercury South Tank

B-3 TECHNICAL SPECIFICATIONS

SPEC NUMBER	TITLE	REV	PAGES
Attachment #1	Tank Inspection Reports	0	410
Attachment #2	02851-SPC-01, Tank Refurbishments Performance Specification	A	111
Attachment #3	Tank Priorities and Tank Scope Matrix	0	2

B-4 DRAWINGS

DRAWING NUMBER	TITLE	REV	PAGES
Attachment #4	Typical NNSS Tank Drawings	0	7
Attachment #5	NNSS Tank Locator Map	0	1

B-5 DELIVERY & WORK LOCATION

Work Location:

Nevada National Security Site – Areas 25, 23, 05, 06, 12, and 18, Mercury, NV 89023

Additional Delivery/Work Locations: N/A

B-6 CLEARANCE REQUIREMENTS

1. Check all that apply:

- ☒ No security clearance; unclassified work
- ☐ DOE L
- ☐ DOE Q
- ☐ HSPD-12 PIV Credential

2. If applicable, add any or all parts of the following statement security qualifications:

- ☐ The SUBCONTRACTOR shall have the ability to obtain a U.S. Department of Energy (DOE) facility security clearance and have personnel capable of obtaining a Q-type or L-type security clearance.
- ☐ Q- or L-type security clearance is required for all SUBCONTRACTOR personnel having access to classified information or special nuclear material when performing such work.
- ☐ A corresponding level of security clearance from another federal agency may be applicable if approved by the CONTRACTOR and DOE.
- ☐ The specific security clearance requirements will be identified in the Purchase Order Release.”
- ☒ N/A

3. SECURITY MISC:

3.1. N/A

B-7 EXPERIENCE/SPECIFIC TRAINING/SPECIFIC CERTIFICATIONS

1. Experience – SUBCONTRACTOR shall have project specific knowledge and experience. See all requirements listed in Attachment #2, including:

- 1.1. Section 099700, 1.3 Subcontractor Experience
- 1.2. Section 011000 General Requirements, sub-section 1.30 Qualification of Employees.
- 1.3. Section 013300, sub-section 1.2 Submittal and Approval Procedures

2. Training – SUBCONTRACTOR shall have personnel trained in the installation of the product, fabrication, and facilities to perform the work as specified in Attachment #2

2.1. 2

3. Qualifications – SUBCONTRACTOR shall have personnel with the technical qualifications as specified in Attachment #2:

3.1. 2

B-8 ENVIRONMENTALLY PREFERABLE PRODUCTS

NOTE TO SUBCONTRACTORS: *Federal Contractors such as MSTs are required by the U.S. Department of Energy to purchase Environmentally Preferable Products (EPP) (also known as green or sustainable purchasing), and are also required to flow those procurement requirements to their Subcontractors. When supplying materials to be used onsite as part of a subcontract scope-of-work, those materials must meet these same requirements.*

The following is a list of EPP types that must be used if they are available:

- **Products with Recycled Content.** U.S. Environmental Protection Agency (EPA) list
- **Water Efficient Plumbing Products.** EPA WaterSense® list
- **Non-Toxic or Less Toxic Alternatives**
- **Green Certified Products.** (e.g., Design for Environment, Green Seal)
- **Bio-Based Products.** U.S. Department of Agriculture list
- **Energy Efficient Products.** EPA Energy Star® or Federal Energy Management Program designated products
- **Energy Efficient Electronics.** EPEAT®-silver-rated or higher rated desktop computers, laptops and monitors, televisions, multifunction devices and printers
- **Non-Ozone Depleting Alternative Products**

B-9 SUBMITTALS

(ADM = Subcontract Administrator; STR = Subcontract Technical Representative; NLT = No Later Than; NTP = Notice to Proceed; TLO = Transmittal Letter Only)

Description	Reference	Copies	Received By	Due Date	Comments
PROCUREMENT RELATED SUBMITTALS					
Environmental, Security, Safety, and Health Plan	Exhibit E	1	STR ADM (TLO)	NLT 10 calendar days from award	Site-Specific Plan Prior to start of work
Safety Data Sheet(s)	Exhibit E	1	STR ADM (TLO)	NLT 10 calendar days from award	Prior to start of work
Safety and Personnel Report	Exhibit E	1	STR ADM (TLO)	Monthly, NLT 28 th day of the new month	Provided using CONTRACTOR Form FRM-1253, "SUBCONTRACTOR Hours"
Insurance Certificates	RFP	1	ADM	NLT 10 calendar days from award	Prior to start of work
Payment/Performance Bonds	RFP	1	ADM	No later than 10 calendar days from date of Task Order award	Prior to the start of Work
Subcontract Schedule	RFP	1	ADM	No later than 10 calendar days from date of Task Order award	Prior to the start of Work
Hazard Communication Program	Exhibit E	1	STR ADM TLO	No later than 10 calendar days from Notice to Proceed prior to start of Work	Prior to start of Work
Collective Bargaining Agreement Letter of Assent	RFP	1	ADM	No later than 10 calendar days from award	Prior to the start of Work
Certified Payrolls	RFP	1	ADM	Weekly by the Subcontractor and all on-site Lower-Tier Subcontractors per Task Order	Both paper and electronic copies are required
Workplace Substance Abuse Program to include Evidence of Compliance with SUBCONTRACTOR's Workplace Substance Abuse Program	RFP	1	ADM	With Proposal and annually, based on date of CONTRACTOR acceptance	Provide any changes to the Program and evidence for that year's compliance in accordance with Title 10 Code of Federal Regulations Part 707
Subcontract Release Statement – FRM-2206	Exhibit C RFP	1	ADM	Following completion of work prior to final payment for each Task Order	SUBCONTRACTOR shall submit a Subcontract Release Statement FRM-2206. The Subcontract Release Statement shall include a certification that states the following: "All GOVERNMENT and

Description	Reference	Copies	Received By	Due Date	Comments
					CONTRACTOR-furnished property has been returned, consumed, delivered or otherwise disposed of as instructed by CONTRACTOR."
SUBCONTRACTOR's Authorized Representative	Exhibit C	1	ADM	Prior to the start of work	Also, when changes occur

PROJECT SPECIFIC AND TECHNICAL SUBMITTALS

Description	Reference	Copies	Received By	Due Date	Comments
Blasting and Cleaning Plan	Attachment #2	1	STR ADM	NLT 14 days after Award	Electronic submission acceptable.
Interior Coatings Plan	Attachment #2	1	STR ADM	NLT 14 days after Award and prior to Preconstruction Conference.	Electronic submission acceptable.
Exterior Coating Plan	Attachment #2	1	STR ADM	NLT 14 days after Award and prior to Preconstruction Conference.	Electronic submission acceptable.
Coating Compatibility Certificates	Attachment #2	2	STR ADM	Prior to Preconstruction Conference	Electronic submission acceptable.
Disinfection and Sampling Plan	Attachment #2	1	STR ADM	Prior to Preconstruction Conference	Electronic submission acceptable.
Preconstruction Conference Submittals	Attachment #2	1	STR ADM	NLT 1 week prior to pre-construction meeting.	Electronic submission acceptable.
Product Data and Sample file	Exhibit B	1	STR ADM	Prior to Preconstruction Conference and NLT 15-days before the need for approval.	Electronic submission acceptable.
Structural Tank Inspection Report	Exhibit B	3	STR ADM	NLT 7 days after inspection and prior to interior coatings.	Electronic submission acceptable.
Daily Inspection Reports	Exhibit B	3	STR ADM	Daily	Electronic submission acceptable.
Cathodic Protection Calculations and Drawings	Exhibit B	3	STR ADM	NLT 7 days after inspection and prior to interior coatings.	Electronic submission acceptable.
Warranty Information, Operation and Maintenance Manuals	Exhibit B	3	STR ADM	Prior to Preconstruction Conference	Electronic submission acceptable.