

EXHIBIT B

STATEMENT OF WORK

Title: Master Agreement - New Mercury Essential Services Complex A-E, and Construction Services

SOW Task Number: 0

Requisition Number: REQ-0019949

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**INTEGRATED ACQUISITION TEAM TECHNICAL APPROVAL PAGE
 FOR STATEMENT OF WORK Master Agreement - New Mercury Essential Services Complex**

REQUIRED	ORGANIZATION	PRINT NAME
☒	Project Manager (PM)	Not Disclosed
☒	Subcontract Technical Representative (STR)	Not Disclosed
☒	Supply Chain Management	Not Disclosed
☒	Procurement	Kim Kruskie
☒	Procurement	Amy Justice
☒	Enterprise Infrastructure Program (EIP)	Not Disclosed
☒	Project Planning & Delivery (PPD)	Not Disclosed
☒	Building Program Management	Not Disclosed

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LIST OF ACRONYMS

Acronym	Definition
ACM	Asbestos Containing Material
BAS	Building Automation System
BMS	Building Management System
BOR	Beneficial Occupancy Representative
CAP	Contractor Acquired Property
CM	Construction Manager
EPP	Environmentally Preferable Products
ES&H	Environmental Safety and Health
EVM	Earned Value Management
GFE	Government Furnished Equipment
GFP	Government Furnished Property
LAO	Los Alamos Operations at Los Alamos, NM
LO	Livermore Operations at Livermore, CA
MEL	Master Equipment List
M&O	Maintenance and Operation
NFO	Nevada Field Office
NLV	North Las Vegas Facility
NNSA	National Nuclear Security Administration
NNSS	Nevada National Security Site
PULSE	Primary Underground Laboratory Subcritical Experimentation.
RCM	Radiological Control Manual
RGD	Radiation-Generating Devices
RPP	Radiation Protection Program
RSLA	Remote Sensing Lab at Andrews AFB, Maryland
RSLN	Remote Sensing Lab at Nellis AFB, North Las Vegas, NV
RWP	Radiological Work Permit
SME	Subject Matter Expert
SOW	Statement of Work

Acronym	Definition
SSSP	Site-Specific Safety Plan
STL	Special Technologies Lab at Santa Barbara, CA
STR	Subcontract Technical Representative

B-1 SCOPE AND BACKGROUND

1. Background

The Nevada National Security Site (NNSS) is a U.S. Department of Energy, National Nuclear Security Administration (NNSA) installation, operated by Mission Support and Test Services, LLC (MSTS or 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.

The MSTS 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).

MSTS's Building Program is currently planning for an increase in modernization in the form of new building projects that will be performed under an accelerated schedule.

PROJECT BACKGROUND –This project includes the design and construction efforts for the New Mercury Essential Services Complex which consists of:

New Mercury Essential Services Complex Collaboration Center Facility Building No. 5 [23-464]

New Mercury Essential Services Complex Cafeteria Facility Building No. 6 [23-465]

New Mercury Essential Services Complex Administrative Support and Storage Facility Building No. 7 [23-466]

2. Objective

MSTS requires the services of an experienced SUBCONTRACTOR to provide a full range of Architect/Engineer (A/E) professional design services, and Construction Services as requested by MSTS. This Master Agreement Statement of Work (SOW) provides the framework of service options from which CONTRACTOR may issue individual Task Order Releases authorizing the SUBCONTRACTOR to perform work.

3. Description of Work

The SUBCONTRACTOR shall provide technically qualified resources that work as a part of a team under the direct oversight of MSTS. SUBCONTRACTOR resources shall be responsible for independently planning, organizing, and performing a wide variety of non-hazardous specialized administrative/technical duties in support of the successful completion of goals and deliverables. Additionally, the SUBCONTRACTOR shall furnish all necessary labor, technical and professional services, supervision, materials, tools, equipment, consumables, and payment of any applicable taxes to perform all operations necessary and required to perform the scope as directed by MSTS.

Unless otherwise approved, the SUBCONTRACTOR shall work in accordance with MSTS subcontract requirements,

Specifically, SUBCONTRACTOR shall provide the following for MSTS:

This scope of work includes the performance of A/E professional design services (Assessments, Title I, II, and III, including reviews and Project Management), preconstruction management services, procurement and management of construction execution services (including but not limited to civil, architectural, structural, mechanical, electrical, plumbing, building controls, quality control, testing and balancing, commissioning, tenant fit-out, and warranty work related to Building Projects). MSTS will define project specific information and requirements within each respective Task Order Release.

General Design Requirements

- Design packages shall provide all necessary design details and data necessary to execute the design intent needed for a complete building system and include design construction drawings which illustrate the construction scope of work and support the required American Association of Cost Engineers (AACE) estimate class. Where applicable, design packages shall include preliminary design criteria, alternative construction solutions available, and recommendations for construction. Design packages shall also include relevant performance standards, construction specifications, layouts, drawings, commissioning and other documents.
- Design documents shall indicate the design basis for each project. The design basis shall include the functional and technical requirements, commissioning requirements, and alternative construction solutions available.
- Design documents shall comply with Task Order Release requirements and the review recommendations made by MSTS. The Subcontractor shall refer to technical and functional requirements, including but not limited to: Codes and Standards, Substitutions, Submittals, and Environmental, Safety and Health (ES&H) specifications.
- Deviations from requirements, regulations, codes, standards, and guidelines shall require advance authorization from MSTS in writing.

Assessments

- Visit each project site to research site requirements for coordination of construction efforts, perform field investigations, and meet with MSTS Technical Representatives and their teams.

Design Reviews

- When required by individual Task Order Release(s), SUBCONTRACTOR shall, at a minimum, review progress with MSTS at 10%, 30%, 60% and 90% design completion. Subcontractor shall initiate the next phase of work only upon receipt of MSTS written approval.
- SUBCONTRACTOR shall review drawings and specifications, with the provision of cost estimates as requested by MSTS in its Task Order Release to incorporate design review comments at each phase of the project.
- For ease of review, the Subcontractor shall provide PDF copies of all documentation.

Title I - Preliminary Design Activities and Deliverables

- Drawings: Provide preliminary drawings including site plans, floor plans, all elevations, cross sections and other drawings needed to illustrate the size, character, interior arrangements, and quality of work of the projects. Define essentials of structure type, mechanical and electrical and controls systems, and other systems as needed for complete installation. Drawings shall clearly delineate the scope of work.
- Calculations and Modeling: Provide preliminary design calculations and modeling to support the preliminary design.
- Commissioning Plan:
 - Provide design basis and system descriptions for building systems to be commissioned.
 - Develop and provide detailed Master Equipment List (MEL) and Instrumentation and Controls table which identify the required Building Automation System (BAS)/Building Management System (BMS) points for each building.
 - Provide commissioning schedule identifying dates, logic, and duration for commissioning activities (by system).
 - Identify activities for Testing & Balancing, Prefunctional, Functional, and Start-Up Activities

Title II - Final Design Activities and Deliverables

- Drawings: Provide final design detailed working drawings compatible with AutoCAD systems .dwg format. Final issuance of 100% drawings and specifications shall occur upon final signatures by MSTS.
- Calculations and Modeling: Final civil, structural, mechanical, and electrical design calculations and modeling results.

- Commissioning Plan: Provide detailed commissioning plans for Building Systems (as detailed within Title I - Preliminary Design Activities and Deliverables).

Design Drawings

- All drawings shall be computer-aided design/drafting (CADD) system compatible with AutoCAD, latest revision.
- The SUBCONTRACTOR shall provide complete reproducible, scaled drawings, which include all information necessary to adequately describe construction requirements. Drawing title blocks shall allow room for MSTs approval signatures and for the application of engineering stamps. All design drawings shall be stamped by licensed professional engineers. The A/E shall provide a record set of "as-built" drawings, of the type specified by MSTs showing construction as actually accomplished.
- Design drawings must include required information specifying the date of issuance, revision date, revision number.
- Revisions to design drawings must include the clouding, numbering, and notes detailing revisions.

Specifications

- The SUBCONTRACTOR shall provide draft specifications during Title I that include all general and required data for long lead material procurements. In addition, the Subcontractor shall alert MSTs to any recommended equipment which might require a Buy-American Act Waiver.
- During the Title II phase, the SUBCONTRACTOR shall submit complete technical specifications, with Title II drawings. The specification package shall also address requirements for general conditions, including but not limited to: safety, environmental, work control, quality, security, and operations and maintenance data requirements.
- The SUBCONTRACTOR shall adhere to MSTs code of record, functional and technical requirements documents, and any other special provisions specified in subsequent Task Orders.

Specification Requirements for Operations and Maintenance Data

- The SUBCONTRACTOR shall be responsible for providing all available information and data required for proper building system(s) operation and maintenance.
- The SUBCONTRACTOR shall provide warranties for installed systems/equipment. Unless stated otherwise in the Task Order Release, the warranties shall, at a minimum, comply with warranty requirements stated in MSTs General Provisions.
- The SUBCONTRACTOR shall perform all required start-up tests and procedures, complete all troubleshooting prior to final acceptance, and train all designated site personnel in the operation and maintenance of all building systems.
- The SUBCONTRACTOR shall submit plans and procedures to accomplish startup and commissioning activities to MSTs for review.
- The SUBCONTRACTOR shall include activities, within the construction execution schedule, that specify submission of O&M Manuals, training manuals, and training activities (per definable feature of work).
- The SUBCONTRACTOR shall record training classes and provide a digital (CD/DVD/electronic format) of all training activities prior to final acceptance as part of closeout requirements.
- The SUBCONTRACTOR shall provide the quantity of physical and electronic copies of O&M Manuals, Training Manuals, Training Videos, Product Data Sheets, Warranties, etc., as specified within each task order award.

Estimating

- Develop independent budgetary construction estimates and final construction estimates. Construction estimates shall meet AACE Class 3 (Budget, Authorization, or Control) requirements at 60% design completion and AACE Class 1 (Check Estimate and/or Bid Tender) requirements at 90% design completion. As the design progresses, the cost estimates shall be kept current, reflecting design changes and up-to-date cost data.

Construction Management

- During the performance of the A/E Task Order Release(s), the SUBCONTRACTOR shall have created designs, specifications and estimates in accordance with A/E requirements in order to support follow-on construction management and build activities. During the Construction Management Task Order Release(s), the SUBCONTRACTOR shall provide construction management support to complete the work summarized below. Refer to Special Provisions in subsequent Task Order Release(s) for minimum codes, standards and other requirements to be applied to this work.
- Provide daily construction supervision on a full-time basis on the construction site and oversee and assure compliance with MSTS ES&H requirements
- Execute required installation, final testing, and commissioning efforts. Also conduct a final inspection and obtain MSTS concurrence of project completion.
- Conduct pre-final and final punchlist inspections, coordinated with and attended by MSTS personnel
- Conduct a final inspection and obtain MSTS concurrence of project completion.
- The SUBCONTRACTOR shall provide all record documents as required by the Task Order Release, including, but not limited to, as-built drawings and specifications and as-built CADD documents and specifications.

Construction Phase: The following are potential Construction activities which may be requested under a subsequent Task Order Release(s):

- Site Work and Preparation
- Geotechnical Investigation, Utility Locates, Ground Penetrating Radar
- Tree, shrub removal, other landscaping preparation
- Shoring and underpinning
- Excavation support system
- Earthwork: grading, excavating, backfilling and compaction, base course, soil stabilization, vibro-flotation, slope protection, soil treatment
- Paving and Surfacing: Walk, road, and parking paving, curbs, surfacing, pavement repair, pavement marking
- Site preparation activities for Piped Utility: trenching for conduit installation, cabling, removal of old conduit and utility lines, water distribution, or Fuel and Gas Distribution
- Site preparation for Sewage, Drainage, Stormwater systems, including land clearing, excavation, grading, and soil treatment
- Installation of transmission and distribution lines
- Substructure: Concrete Work, Foundation pouring, structural bases, basement construction, roads, concrete pipes, and other relevant applications.
- Shell: Structural element or framing work, any work requiring carpentry, metallurgy, welding, and pertaining to any external or internal load-bearing component that is essential to the stability of a building, facility, or structure, including, but not limited to, foundations, subfloors, floors, walls, roofs, columns, beams, or any external and internal component that forms part of external walls or roof.
- Utility Infrastructure Installation and Connection of Gas (including process gas and vacuum), Water (including chilled water and deionized water), Sewage/Waste, Electrical system: Work includes layout of basic lines, rough-in installation stage, ductwork installation, utility inspection support, endpoint device installation.
- HVAC: Installation of energy supply delivery systems, heat generating systems, cooling generating systems, distribution systems, terminal and package units, controls and instrumentation, systems testing and balancing, other HVAC systems and equipment (including exhaust and HEPA filtration systems).
- Masonry: brick or stone masonry for external and internal building structures

- Insulation, weatherproofing, sound-proofing material installation.
- Interiors: Interior construction, final drywall installation, trim, stairs, and interior painting.
- Fire Protection: Installation of fire alarm and detection systems, fire suppressions water supply and equipment, standpipe systems, sprinklers, and fire protection systems.
- SUBCONTRACTOR shall provide construction documents, redlines, as-builts, and shop drawings, and design calculations for fire alarm, life safety, and fire suppression systems
- Electrical: Installation of electrical service and distribution, lighting and branch wiring, communications and security, and other electrical systems.
- SUBCONTRACTOR shall provide electrical design calculations and one-line diagrams showing locations of instrumentation and controls for integration with site BAS/BMS system
- Equipment & Furnishings: Installation of equipment and furnishings. (including tenant fit-out)
- SUBCONTRACTOR shall provide spare parts and materials as specified by individual task order.
- Fuel for SUBCONTRACTOR equipment provided at SUBCONTRACTOR'S cost.
- SUBCONTRACTOR shall protect the materials, equipment, and work at all times during its performance of construction work. Additionally, CONTRACTOR may task SUBCONTRACTOR to warehouse materials and equipment. SUBCONTRACTOR shall store materials and equipment in accordance with all MSTS warehousing and storage requirements.
- SUBCONTRACTOR shall utilize the following NNSS aggregate and cementitious materials:
 - Civil Underground Cast-in-Place Structures, Cast-in-Place Vehicular, Pedestrian, and Ornamental Paving, Cast-in-Place Structural Foundations, Cast-in-Place Structural Slabs, Columns, and Beams, Masonry Grout
 - Aggregate
 - a. 6" Minus Pit Run Aggregate
 - b. 3" Minus Pit Run Aggregate
 - c. Rip Rap
 - d. NDOT NNSS Type II Aggregate
 - e. 3/4" Washed Aggregate
 - f. 3/8" Washed Aggregate
 - g. Washed Sand
 - Concrete
 - a. Cast-in-Place Concrete
 - Contractor shall utilize pre-approved and tested mix designs available from the NNSS Concrete Batch Plant
 - If specified and approved mix design is not available, contractor is required to submit new mix designs utilizing NNSS aggregate for testing, sampling, and approval a minimum of 45 calendar days prior to use.

- o Concrete Masonry Units
 - a. TBD

Commissioning Phase:

- SUBCONTRACTOR, shall assist with, or develop and execute a project commissioning plan outlining specific commissioning activity, schedule, checklists and supporting specification documents. SUBCONTRACTOR shall provide qualified and licensed representatives to support CONTRACTOR for inspections, testing, verification and walk throughs as requested by CONTRACTOR to approve work performed.
- Commissioning services may include, but is not limited to: HVAC, electrical, lighting, and acoustics.
- Mechanical/HVAC Commissioning – SUBCONTRACTOR shall complete the required commissioning checklists, and schedule commissioning of the systems with the CONTRACTOR Start-Up and Commissioning Authority and make adjustments to the systems until the systems pass the required tests including, but not limited to, equipment startup, testing, adjusting and balancing, demonstration of performance, calibration, sequence of operations, capacity verification, and communications interface with the existing building control and monitoring system.
- Energy Assessments – Assist Start-Up and Commissioning Authority or assigned energy assessor with facility walk-throughs and audits of air leakage, heat loss prevention, air quality, heating, cooling and hot water equipment efficiency, other building performance improvement measures.
- Submit the commissioned systems and equipment submittals to the Start-Up and Commissioning Authority to review for completeness and applicability. Obtain validation from the Start-Up and Commissioning Authority that the systems and equipment provided meet the requirements as stated with each respective Task Order Release and design intent, particularly as they relate to functionality, energy performance, water performance, maintainability, sustainability, system cost, indoor environmental quality, and local environmental impacts.

Project Closeout and Occupancy Process Support

- SUBCONTRACTOR shall provide services to support construction project completion activities to document project completion and compliance to contractual or regulatory requirements. Such tasks for closeout and occupancy includes, but are not limited to:
 - Punch list reviews, Work Acceptance Walk throughs
 - Document lists – manuals, warranties, as-builts, final accounting
 - Master Equipment List (MEL) - Specific to each Task Order Release, SUBCONTRACTOR shall develop an editable, electronic spreadsheet based on the equipment in the Operation and Maintenance Manuals that contains the information required to start a preventive maintenance program. As a minimum, provide list of system equipment, location installed, warranty expiration date, manufacturer, model, and serial number. This list shall include instrumentation and controls information.
 - Claim or security interest release documentation and support, to include certificates of payment to tiered subcontractors.
 - Support with final acceptance documentation
 - Permits or Certificate of Occupancy documentation support
 - Warranty Information: Provide warranties in compliance with requirements described in each individual Task Order Release. List and explain the various warranties and clearly identify the servicing and technical precautions prescribed by the manufacturers or contract documents to keep warranties in force. Include warranty information for primary components of the system. Provide copies of warranty documents to CONTRACTOR representatives.
 - Extended Warranty Information: List all warranties for products, equipment, components, and sub-components whose duration exceeds one year. For each warranty listed, indicate the applicable specification

section, duration, start date, end date, and the point of contact for warranty fulfillment. Also, list or reference the specific operation and maintenance procedures that must be performed to keep the warranty valid. Provide copies of warranty documents.

- Training: If requested, and prior to acceptance of the facility by the Beneficial Occupancy Representative, provide comprehensive training for the systems and equipment specified in the technical specifications. The training must be targeted for the building maintenance personnel, and applicable building occupants. Instructors must be well-versed in the systems that they are presenting. Training must be recorded for future review by personnel.

Other Requirements

- The SUBCONTRACTOR may be required to have and maintain an office within approximately 75 miles of the site for the duration of the work. This office may be that of the SUBCONTRACTOR's Lower-tier Subcontractors or teaming partners. CONTRACTOR will make the sole determination of when such requirement shall apply.
- The SUBCONTRACTOR shall provide support from the perspective of what is in the best interest and/or offers optimal value for the CONTRACTOR and its client.
- Title to construction documents, plans, including drawings, and specifications shall pass to the CONTRACTOR (Government) on completion of the Task.
- Earned Value Management (EVM) is a systematic approach to the integration and measurement of cost, schedule, and technical (scope) accomplishments on a project or task. MSTS may require their transactions to support EVM and Project Assessment Reporting. If required, the SUBCONTRACTOR shall provide information and data to support the site's EVM and Project Assessment Reporting.
- If requested by CONTRACTOR, SUBCONTRACTOR shall assist with and provide Value Engineering techniques for project cost reduction or savings. CONTRACTOR technical representatives will specify process for Value Engineering technique submissions in Contractor RFPs and transactions.

Disciplines/Construction/Specialty Trades

- The SUBCONTRACTOR shall appoint a Task Order Manager as the primary interface to MSTS Procurement Specialist and STR for each Task Order Release.
- The SUBCONTRACTOR and/or its Lower-Tier Subcontractors shall have available personnel with applicable state license or apprenticeship requirements covering the full range of technical disciplines and specialties to perform construction services to include but not limited to the following:
 - Project/Task Order Manager
 - Construction Manager
 - Superintendent
 - Project Manager
 - Project Controls Specialist
 - Quality Control Manager
 - Safety Representative
 - Construction Trades – (Subject to Davis Bacon Act (DBA) and Project Labor Agreement (PLA))
 - Boilermaker
 - Carpenter - (Includes Drywall Finishing/Taping, Drywall Hanging, and Metal Stud Installation (Excludes Form Work)
 - Carpenter – (Form Work)

- Electrician
- Elevator Mechanic
- Ironworker – Structural
- Laborer (Mason Tender - Cement/Concrete)
- Plasterer
- Pipefitter
- Sprinkler Fitter (Fire Protection Equipment/Sprinklers)
- Sheet Metal Worker (Including HVAC Duct and Unit Installation)
- Cement Mason / Concrete Finisher / Bricklayer
- Plasterer
- Glazier
- Laborer (Common or General)
- Heavy Equipment Operator
- Painter (Brush and Roller)
- Painter (Spray Paint)
- Roofer
- Welder

3.1. Task(s)

The following tasks are anticipated to be issued under the Master Agreement via Task Order Release:

- Task 1: New Mercury Essential Services Complex - Preconceptual Site Plan – AE
- Task 2: New Mercury Essential Services Complex - Civil Design – AE
- Task 3: New Mercury Essential Services Complex - Civil Execution – Construction
- Task 4: New Mercury Essential Services Complex Collaboration Center Facility Building No. 5 [23-464] - AE & Construction
- Task 5: New Mercury Essential Services Complex Cafeteria Facility Building No. 6 [23-465] – AE & Construction
- Task 6: New Mercury Essential Services Complex Administrative Support and Storage Facility Building No. 7 [23-466]. – AE & Construction
- Task 7: New Mercury Essential Services Complex - Site Integration Activities - AE/Construction
- Task 8: New Mercury Essential Services Complex – Parking Lot AE/Construction

3.2. Sequencing

Task	Estimated Award	Design Complete	Construction Completion	Additional Requirements
Task 1 - New Mercury Essential Services Complex - PRECONCEPTUAL DESIGN	February 2026	Not to exceed 2 Months from Award	Not to exceed 2 Months from Award	Start design for Tasks 1-4 at the same time (design work for Tasks 5A and 6A are desired ASAP, but award date is TBD)

Task 2 - New Mercury Essential Services Complex - CIVIL DESIGN	February 2026	Not to exceed 3 Months from Award	Not to exceed 3 Months from Award	
Task 3 - New Mercury Essential Services Complex - CIVIL EXECUTION	February 2026	NA	Not to Exceed 5.5 months from Civil Design Completion	Prioritize Civil for Task 4 Foundation Scope to be completed first so foundation design and execution can be worked subsequently without any delays
Task 4 - New Mercury Essential Services Complex - Collaboration Center 23-464 DESIGN/CONSTRUCTION	February 2026	Not to Exceed 5 months from Award	Target 12-month Construction Duration	Foundation and necessary utility design must be completed at the same time as the civil design is complete so that execution of foundation work can commence seamlessly (before total design is complete)
Task 5A - New Mercury Essential Services Complex - Cafeteria (Building 2) 23-465 - DESIGN and FOUNDATION CONSTRUCTION	March 2026	Not to Exceed 5 months from Award	NA	Complete foundation and necessary utility design first (preferably within 1-2 months of award) so foundation work may commence as soon as possible
Task 6A - New Mercury Essential Services Complex - Administrative Support (Building 3) 23-466 - DESIGN and FOUNDATION CONSTRUCTION	March 2026	Not to Exceed 5 months from Award	NA	Complete foundation and necessary utility design first (preferably within 1-2 months of award) so that foundation work may commence as soon as possible
Task 5B - New Mercury Essential Services Complex - Cafeteria (Building 2) 23-465 - REMAINING CONSTRUCTION	Targeting Award Subsequent to IFC Design (Provide 2-month advance notice prior to start of construction)	NA	Target 12-month Construction Duration	Generally targeting 12 months construction
Task 6B - New Mercury Essential Services Complex - Administrative Support (Building 3) 23-466 - REMAINING CONSTRUCTION	Targeting Award Subsequent to IFC Design (Provide 2-month advance notice prior to start of construction)	NA	Target 12-month construction Duration	Generally targeting 12 months construction

	notice prior to start of construction)			
Task 7 - New Mercury Essential Services Complex - Site Integration Activities - OPTIONAL TASK ONLY IF NEEDED	NA	NA	NA	
<u>Task 8 - New Mercury Essential Services Complex - Parking Lot AE/Construction</u> OPTIONAL TASK ONLY IF NEEDED	<u>NA</u>	<u>NA</u>	<u>NA</u>	

3.3. *Required Points of Contact or Key Personnel Qualifications*

The identified SUBCONTRACTOR's personnel will have site-dedicated key personnel for specific positions, including, but not limited to: Construction Managers, Project Managers, Superintendents, Quality Representative, and Safety Representative. Such personnel shall be responsible for the management and execution of the Master Agreement and Task Order Release(s).

If required by the individual Task Order Release(s), SUBCONTRACTOR shall assign additional personnel as required for CONTRACTOR specific projects.

The SUBCONTRACTOR's key personnel shall remain assigned to the project through completion unless they leave the SUBCONTRACTOR's employment, in which case the SUBCONTRACTOR shall submit the qualifications of its replacement personnel for CONTRACTOR review and approval prior to proceeding with such replacement.

Project Manager (PjM)/Task Order Manager (TOM)

- Minimum of five (5) years of experience in project management activities associated with large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement
- Serves as the primary point of contact to the CONTRACTOR throughout the lifecycle of the task order and is responsible for reporting on task order milestones and deliverables.

Construction Manager

- Minimum of ten (10) years of experience managing large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.
- Serves as the primary point of contact to sub-tier subcontractors, and CONTRACTOR. This position is responsible for pre-construction, mobilization, construction, and closeout activities and primarily oversees the site superintendent and sub-tier subcontractors.

Engineering Disciplines

- Minimum of five (5) years of experience in design work associated with large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.

Site Superintendent

- The construction superintendent shall be in residence at the jobsite, including overtime hours and shift work hours, when work is being performed by the Subcontractor or its lower-tier subcontractors. If the Subcontractor's superintendent leaves the jobsite while work is being performed, MSTS Representative reserves the right to stop all work. Any costs that the Subcontractor might incur due to said stoppage will be solely at the Subcontractor's expense. The construction superintendent shall be responsible for assuring work is performed in accordance with all Task Order Release requirements and effectively directing and coordinating all trades to assure safe and efficient progress of the work. The construction superintendent shall be knowledgeable of the project's requirements and hazards and have full authority to act on behalf of the Subcontractor. The construction superintendent shall make frequent and regular inspections of the construction jobsite to identify and correct any instances of noncompliance with requirements. During the periodic absences of the Safety Officer, the Construction Superintendent may serve as the Safety Officer, provided he or she does not perform construction work during the same timeframe.
- At all times during performance of this Subcontract and until the work is completed and accepted, the SUBCONTRACTOR'S superintendent shall directly supervise and oversee the Work at the worksite or assign and have at the worksite another qualified representative of the SUBCONTRACTOR (in the superintendent's temporary absence) who is satisfactory to the Procurement Specialist and who has authority to act for the SUBCONTRACTOR.

Quality Representative

- The quality representative can be a corporate resource that oversees work on this project on a part-time basis and can delegate full-time responsibility to other individuals.

Safety Representative

- SUBCONTRACTOR shall provide full-time Safety Representative, overseeing safety program implementation and reporting while physical work is in progress. Safety Representative shall liaise with CONTRACTOR subcontract technical representative (STR) and CONTRACTOR Project Manager (PJM) while engaged with the project.
- SUBCONTRACTOR Safety Representative, or delegated personnel, must submit daily report to CONTRACTOR STR and PJM.
- SUBCONTRACTOR Safety Representative must develop and sign all Job Hazard Analysis (JHAs) as part of Site-Specific Safety Plan (SSSP). SSSP is prerequisite formal submittal required for each Task Order.

3.4. Lower-Tier Subcontracts

The SUBCONTRACTOR shall ensure that LOWER-TIER SUBCONTRACTORS performing elements of the Subcontracted Scope of Work at sites controlled/managed by the CONTRACTOR or NNSA adhere to the SUBCONTRACTOR'S Site-Specific Safety Plan (SSSP). The SUBCONTRACTOR is responsible for ensuring that its LOWER-TIER SUBCONTRACTORS are included in the SUBCONTRACTOR'S SSSP and that they comply with all the requirements of this Subcontract.

If, after award, the SUBCONTRACTOR proposes to use any new LOWER-TIER SUBCONTRACTORS not listed in initial subcontract, the SUBCONTRACTOR shall notify the MSTS's Procurement Specialist at least 10 business days before the proposed start date of the new LOWER-TIER SUBCONTRACTOR. The SUBCONTRACTOR will submit any required LOWER-TIER SUBCONTRACTOR'S, forms and documentation including "Safety and Health History" for CONTRACTOR review and acceptance. LOWER-TIER SUBCONTRACTORS shall not perform any work prior to the CONTRACTOR'S approval in writing provided by the Procurement Specialist.

3.5. Acceptance Criteria

- The SUBCONTRACTOR shall complete work in accordance with the requirements, drawings, and specifications as stated in Task Order Release(s). Work shall be consistent with sound industry practices and meet the code requirements specified.
- The SUBCONTRACTOR is responsible for selecting qualified personnel to perform the required services, overseeing performance, and assuring the quality meets the CONTRACTOR expectations.
- The SUBCONTRACTOR shall maintain professional working relationships with CONTRACTOR personnel, client agency personnel, other CONTRACTORS and their personnel, and other stakeholders associated with work performed on the transactions. The SUBCONTRACTOR shall not perform in a manner that provides an appearance it is directing other entities or taking actions that have an appearance to bind or make commitments on behalf of a CONTRACTOR.
- The SUBCONTRACTOR is responsible for the safe and secure accomplishment of services, whether performed by its own personnel or team members, including its LOWER-TIER SUBCONTRACTORS.
- The SUBCONTRACTOR shall provide sound advice from the perspective of what's in the best interest and/or offers the optimal value for the CONTRACTOR.
- The SUBCONTRACTOR shall be required to provide and maintain bonding requirements as specified in the Master Agreement and each respective Task order Release.
- The SUBCONTRACTOR shall maintain insurance coverage as identified within the terms of the Master Agreement.
- The SUBCONTRACTOR shall provide all management, administrative, clerical, and supervisory functions required for the effective and efficient performance of transactions.

- The SUBCONTRACTOR shall adhere to the same professional and ethical standards of conduct required of CONTRACTOR personnel. The SUBCONTRACTOR shall not:
 - Discuss with unauthorized persons information obtained in the performance of work under a Task Order Release(s);
 - Conduct business not directly related to the work;
 - Use computer systems and/or other CONTRACTOR facilities for company or personal business; or
 - Recruit on a CONTRACTOR site or otherwise act to disrupt CONTRACTOR business.
- The SUBCONTRACTOR shall be responsible for protecting all Unclassified Controlled Nuclear Information (UCNI) and Controlled Unclassified Information (CUI), and materials in connection with the performance of the work under this Master Agreement. UCNI and CUI will be protected in accordance with the DOE/NNSA directives.
- Submittals shall be accurate, legible, and reproducible. Before delivery, the Subcontractor shall review its work products, as applicable, for technical adequacy, completeness, and appropriate content. All submittals and formal documents provided to the CONTRACTOR must be accompanied by required transmittal documentation.
- A Further specific Acceptance Criteria applicable to the scope will be addressed in each Task Order Release.

3.6. *Site Coordination Requirements*

3.6.1. **Building Occupancy Inspection Requirements**

Construction trailers are required to meet the relocatable structure requirements of International Building Code (IBC-2024) and will need to have a Beneficial Occupancy Inspection (BOI) performed in order to receive a Certificate of Occupancy per CD-5400.003. The BOI will use a graded approach for the inspection itself but documentation for the structures themselves, a full site plan, and structural anchorage/support will be required. The plan will need to be reviewed by the Building Authority (BA) and other appropriate SMEs before a BOI can be requested.

Facilities including manufactured structures, mobile homes, trailers, semi-trailers, modular-type structures, factory-assembled structures, cargo containers, hazardous materials or flammable liquid storage containers, air supported/inflated structures, tent/membrane, and cloth/rib structures. This term does not apply to trailers and cargo containers that are being used in the transportation mode for conveying materials while on site, or to prefabricated buildings that are permanently located, such as "Butler" or "Strand Steel" buildings.

Engineering Programs - BA-Relocatable Structures provides a breakout of what is required for relocatable structures at the site. Note that since these meet the IBC and ABA definition of construction trailers, they are accepted from meeting the accessibility requirements therein, but not other requirements. Most municipalities have some kind of permitting requirement for construction trailers so your subcontractor will probably be familiar with these and should have the required manufacturer and tie down information readily available. Please make sure to contact Fire & Rescue for their specific requirements for these structures since they may need the building numbers (provided by Facilities Information Management System (FIMS)) installed on the exterior of the trailers based on a previous walkdown.

Note that all applicable Environmental, Emergency Planning, and ES&H requirements for construction trailers will also need to be met and these departments should be contacted for those if they have not already. An NNS Construction Office and Equipment Trailer Permit Application must be submitted for each trailer over 120sf at least 28 days before the trailer is planned to be on site (see submittal register).

3.7. Site Conditions and Known Hazards (Facility Specific)

Site facility specific conditions/requirements and known hazards are as incorporated in this SOW.

3.7.1. Asbestos	
<input checked="" type="checkbox"/>	It is NOT expected.
<input type="checkbox"/>	<p>It IS expected that asbestos-bearing materials will be encountered during the performance of this work.</p> <ol style="list-style-type: none"> a. The SUBCONTRACTOR shall submit an Asbestos Abatement Plan for STR approval prior to start of work, which meets all the criteria of OSHA 29 CFR 1926.1101, "Asbestos." The Asbestos Abatement Plan shall identify the procedures that will be used to remove and dispose of all asbestos-containing materials that may be encountered during work performed under this Subcontract. These items include, but are not limited to, piping insulation, floor tiles, ceiling tiles, and boilers. b. Supervision of the asbestos abatement work shall be performed by a federal, state, or local accredited/licensed competent person (as defined by OSHA 29 CFR 1926.1101) employed by the SUBCONTRACTOR and who will be at the worksite(s) at all times. c. Installation of asbestos containing material (ACM) in newly constructed facilities is prohibited. For all new facilities, certify that no ACM was used for building construction.
3.7.2. Silica	
<input type="checkbox"/>	It is NOT expected.
<input checked="" type="checkbox"/>	<p>It IS expected that silica-bearing materials will be encountered during the performance of this work and all activities that may potentially generate respirable silica.</p> <ol style="list-style-type: none"> a. A SUBCONTRACTOR with employees potentially exposed to respirable crystalline silica (RCS) above 25 micrograms per cubic meter of air (25 ug/m³) as an 8-hour time-weighted average under any foreseeable conditions shall comply with the 29 CF 1910.1053, "Respirable Crystalline Silica," and/or 29 CFR 1926.1153, "Respirable Crystalline Silica." b. The SUBCONTRACTOR shall submit a Written Silica Exposure Control Plan (if applicable) to the CONTRACTOR for review and approval as part of the SSSP. <p><i>NOTE: The CONTRACTOR's RCS Occupational Exposure Limit is 25 ug/m³ as opposed to OSHA PEL of 50 ug/m³.</i></p>
3.7.3. Toxic Metals (Lead, Cadmium, Mercury)	
<input checked="" type="checkbox"/>	It is NOT expected. However, since painted surfaces typically contain lead chromates, and many metals contain hexavalent chromium, the subcontractor is required to notify the STR prior to cutting, burning, welding or polishing of metal or painted surfaces.
<input type="checkbox"/>	<p>It IS expected.</p> <ol style="list-style-type: none"> a. A SUBCONTRACTOR with employees working in toxic metals contaminated areas shall submit a Written Toxic Metals Exposure Control Plan in accordance to the appropriate section of 29 CFR 1910 to the STR for review and approval as part of the SSSP. b. All SUBCONTRACTOR employees working under the accepted Written Toxic Metals Exposure Control Plan shall have been trained in accordance with the plan. Training records shall be submitted to the STR prior to the start of work.
3.7.4. Hoisting and Rigging	
<input type="checkbox"/>	It is NOT anticipated that Hoisting and Rigging will occur during performance of the work. However, if the Subcontractor's chosen means and methods include hoisting and rigging activities then all applicable requirements shall apply.
<input checked="" type="checkbox"/>	<p>It IS anticipated that Hoisting and Rigging will occur during performance of this work.</p> <ol style="list-style-type: none"> a. The SUBCONTRACTOR shall provide the resources necessary for inspection, certification, and maintenance of rigging and lifting equipment as well as monitor all lifts to ensure that regulatory

	<p>lifting practices are followed by the MSTS Lifting SME.</p> <p>b. The SUBCONTRACTOR shall submit its 29 CFR 1926.1400, Subpart CC, "Cranes and Derricks in Construction" compliant program as part of the ES&H program.</p> <p>c. The SUBCONTRACTOR shall designate a qualified supervisor to determine the methods and develop plans for rigging operations to ensure safe lifts.</p> <p>d. The SUBCONTRACTOR shall ensure all crane operations maintain minimum safe distances from all high voltage lines, as determined by the CONTRACTOR. Twenty feet is required for voltages up to 350 kV. At voltages greater than 350 kV, the distance shall increase as required.</p> <p>e. Cranes (Mobile) - The SUBCONTRACTOR shall provide the resources necessary for inspection, certification, and maintenance of rigging and lifting equipment and shall monitor all lifts to ensure that acceptable lifting practices are followed.</p> <p>f. Lift Plan requirements</p> <p>i) Lift plans are required to be submitted to the CONTRACTOR for concurrence. The SUBCONTRACTOR shall submit a detailed rigging plan with all applicable supporting calculations to the CONTRACTOR for review and acceptance prior to the lift. A Formal Lift Plan will be required for the following activities:</p> <ul style="list-style-type: none"> • Excess of 5 tons • Lift classified as critical (exceeding 75% of crane capacity chart) • Any two-crane lift or any lift over operating or occupied facilities, process pipe racks or near power lines) • High value or long lead time item <p>ii) The SUBCONTRACTOR shall designate a qualified supervisor to determine the methods and develop plans for rigging operations to ensure safe lifts.</p> <p>iii) The SUBCONTRACTOR is required to meet DOE Standard DOE-STD-1090-2020, "Hoisting and Rigging" for lift classification and lift plan requirements.</p>
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3.7.5. Radiological Contamination

It is **NOT** expected.

<input type="checkbox"/>	<p>It IS anticipated that work may be performed in radiological areas.</p> <p>a. The SUBCONTRACTOR shall abide by the requirements of the current version of the NNSR Radiation Protection Program (NNSR RPP) as implemented with the NNSR Radiological Control Manual (NNSR RCM).</p> <ul style="list-style-type: none"> • The NNSR RPP can be downloaded from the following web address: https://www.osti.gov/servlets/purl/1435448 • The NNSR RCM can be downloaded from the following: https://www.osti.gov/servlets/purl/1895616 <p>b. The SUBCONTRACTOR shall abide by the CONTRACTOR'S radiological postings.</p> <p>c. The SUBCONTRACTOR shall make arrangements with the CONTRACTOR'S Radiological Control Division to develop adequate controls, prescribe protective measures, and generate required Radiological Work Permit (RWP) necessary to demonstrate compliance with the NNSR RPP.</p> <p>d. The SUBCONTRACTOR shall comply with all RWPs approved by the CONTRACTOR controlling the work performed by the SUBCONTRACTOR.</p> <p>e. The SUBCONTRACTOR shall provide a list of all equipment and materials expected to be utilized in areas controlled for radiological purposes and shall additionally disclose all heavy equipment to be brought on NNSA/NFO-managed property to the CONTRACTOR'S STR (to be provided to the Radiological Control Division), prior to arrival on NNSA/NFO property.</p> <p>f. All SUBCONTRACTOR-owned/rented equipment and vehicles brought onto NNSA/NFO property are subject to radiological survey at any time during the contract period.</p> <ul style="list-style-type: none"> • All SUBCONTRACTOR-owned/rented heavy equipment utilized for soil disturbing or building
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	<p>demolition activities are required to undergo baseline and re-entry radiological surveys upon arrival at NNSA/NFO property or prior to use at the work site, as directed by the CONTRACTOR'S Radiological Control Division.</p> <ul style="list-style-type: none"> • All SUBCONTRACTOR-owned/rented equipment and vehicles are required to undergo radiological evaluation prior to removal from the work site and/or NNSA/NFO property. • All SUBCONTRACTOR-owned/rented equipment and vehicles brought onto NNSA/NFO property that cannot meet established radiological release requirements shall not be removed from NNSA/NFO property. <p>g. SUBCONTRACTOR shall require dosimeters, if used at the worksite, are exchanged by CONTRACTOR, as required, by the CONTRACTOR's Radiological Control Division.</p> <p>h. Upon completion of work, the SUBCONTRACTOR returns the dosimeters to the CONTRACTOR.</p> <p>i. When required, the SUBCONTRACTOR shall ensure radiobioassay samples from their employees are submitted to the CONTRACTOR'S Radiological Control Division and/or RWP.</p> <p>j. If the SUBCONTRACTOR is expecting to bring radioactive material/radioactive sources (including those contained within equipment) or radiation-generating devices (RGDs) onto NNSA/NFO property:</p> <ul style="list-style-type: none"> i) The SUBCONTRACTOR shall maintain radioactive material/radioactive sources per the CONTRACTOR'S direction. ii) The SUBCONTRACTOR shall provide a planned schedule of moves or advise the CONTRACTOR'S STR (to be provided to the Radiological Control Division), in writing, prior to moving any radioactive source to, around, or away from CONTRACTOR-managed property. Prior approval to move such radioactive sources onto or from CONTRACTOR-managed property must be received from the CONTRACTOR'S Radiological Control Division. <ul style="list-style-type: none"> (1) The SUBCONTRACTOR shall notify the CONTRACTOR'S Radiological Control Division immediately after they bring radioactive material/radioactive sources onto CONTRACTOR-managed property so a pre-use radiological survey can be performed by the CONTRACTOR. (2) The SUBCONTRACTOR shall notify the CONTRACTOR'S STR prior to removing radioactive material/radioactive sources from CONTRACTOR-managed property so a post-use radiological survey can be performed by the CONTRACTOR. iii) The SUBCONTRACTOR shall provide to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) prior to arriving onsite, a copy of the current applicable radioactive material license (Nuclear Regulatory Commission or applicable state reciprocity) or other approval to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) that gives the SUBCONTRACTOR authority to possess and operate the radioactive source/radioactive material or RGD (copy of current License for Industrial Radiography per 10 CFR 34, "Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations,") along with procedures for operating the device. <ul style="list-style-type: none"> (1) The SUBCONTRACTOR shall have adequate controls, protective measures, and work control documents/procedures/permits as required under their approved radioactive material license (Nuclear Regulatory Commission or applicable state reciprocity) or other approval for all operations associated with SUBCONTRACTOR-owned radioactive material/radioactive sources or RGDs. (2) The SUBCONTRACTOR shall provide current leak test results, training records for RGD Operations, and source certificate/nominal activity sheets to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) prior to the radioactive source arriving on NNSA/NFO-managed property. (3) The SUBCONTRACTOR shall provide special form certificates, Department of Transportation shipping papers, and radioactive source container certifications, to the
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	CONTRACTOR'S STR (to be provided to the Radiological Control Division) upon entry to NNSA/NFO-managed property. (4) The SUBCONTRACTOR shall provide or make arrangements for transportation of radioactive source/radioactive materials in compliance with Department of Transportation regulations. (5) The SUBCONTRACTOR shall have a worker radiation safety plan as specified in 10 CFR 39, "Licenses and Radiation Safety Requirements for Well Logging," including Operating and Emergency procedures and Incident Reporting procedures.
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B-2 TECHNICAL SPECIFICATIONS

SPEC NUMBER	TITLE	REV	PAGES
TRD-220-000	New Mercury Essential Services Complex Design Build Technical Requirements Document	0	285

Additional Technical Specifications will be defined in each Task Order Release Statement of Work, as applicable.

B-3 DRAWINGS

Drawings will be defined in each Task Order Release Statement of Work, as applicable.

DRAWING NUMBER	TITLE	REV	PAGES
NA			

B-4 PLACE OF PERFORMANCE

1. Delivery Location

Delivery location will be Nevada National Security Site Receiving Warehouse 160 Mercury, NV 89023.

2. Work Location:

Work will be performed at the locations specified in each respective Task Order Release. For any work performed on the NNTS site or in an MSTS controlled facility, the provision of the On-Site services shall apply to this subcontract.

3. Site Access and Work Hours

The standard work week for this SUBCONTRACT will be Monday – Thursday 6 am – 4:30 pm with one-half hour designated for unpaid period for lunch.

Access to a specific facility, if applicable, will be identified in the Task Order Release.

Work performed outside normal operating hours shall be coordinated and/or approved through the STR and/or the Procurement Specialist prior to performing work.

4. Badging

Any on-site work will be coordinated with the STR in accordance with the SOW and site-specific training requirements. The SUBCONTRACTOR shall wear a MSTS issued security badge identifying themselves. A minimum of fourteen (14) working days advance notice is needed for site badging. SUBCONTRACTOR employees shall be required to submit to vehicle searches and not personally carry or transport certain prohibited articles.

B-5 CLEARANCE REQUIREMENTS

The following access authorization or clearance requirements are required.

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 MSTS and DOE.
- N/A

B-6 SPECIAL REQUIREMENTS

1. Qualifications, Licensing, Certifications

In order to determine the SUBCONTRACTOR qualified to perform the scope of work as outlined, the SUBCONTRACTOR must have the following qualifications:

1. Experience - SUBCONTRACTOR shall have the following job experience
 - 1.1. Subcontractor shall possess a minimum of ten (10) years in performing A/E design, turn-key construction services (including construction management), training and warranty repair for projects similar in size, scope and complexity as contemplated under the Agreement. In addition, SUBCONTRACTOR'S key personnel shall possess the following:
 - 1.1.1. Construction Manager: Minimum of ten (10) years of experience managing large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.
 - 1.1.2. Project/Task Order Manager: Minimum of five (5) years of experience in project management activities associated with large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.
 - 1.1.3. Superintendent: Minimum of five (5) years of experience managing large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.
 - 1.1.4. Quality Control Manager (QCM): Minimum of seven (7) years of experience in Quality Assurance / Quality Control. Quality Control Manager shall have minimum ACI Concrete Field Testing Technician - Grade 1 certification and Certified Quality Inspector (CQI) certification, USACE QAQC certification (or equivalent). QCM must be familiar with United States Gypsum (USG) five levels of finish and use of a hygrometer for moisture testing prior to installation of wall and floor finishes. Quality Control Manager must have good vision acuity (20/40 or better) and properly perceive color (or pass color perception testing). Inspection disciplines required may include Civil/Structural; Geometric Dimensioning & Tolerancing; Instrumentation; Material; Mechanical; Pressure Testing; or Welding and Nondestructive Examination.
 - 1.1.5. Safety Representative: Shall possess one of the following listed Requirement I and meet the

criteria listed in Requirement II and Requirement III:

- Requirement I
 - A degree in Occupational Safety OR
 - Hold the designation of a Certified Safety Professional OR
 - Hold the designation of an Associate Safety Professional with a minimum of 1-year documented safety experience AND
- Requirement II: Occupational Health and Safety Technician or Construction Safety and Health Technician certification in addition to three (3) years of experience in the field providing safety duties.
- Requirement III: Documented five (5) years full-time safety experience (100% safety work). A list of projects and description of duties where person was a full-time safety professional will be provided by the Offeror.

2. Licenses – SUBCONTRACTOR shall have the following job-specific licenses:

2.1. Subcontractor shall be in full compliance and adhere to all licensing requirements for A/E and construction in the State of Nevada.

3. Certifications – SUBCONTRACTOR shall have the following job-specific certifications:

3.1. Subcontractor shall adhere to all certification requirements as driven by final Issue for Construction design and specifications.

In addition to the above, the SUBCONTRACTOR shall provide qualified personnel throughout the period of performance of the Subcontract. SUBCONTRACTOR shall be responsible for ensuring its personnel meet and/or maintain current and valid training requirements, certifications and are fully capable to complete the duties described through the entirety of the Subcontract period of performance.

2. MSTS Provided Training

The SUBCONTRACTOR and its personnel will be required to attend the following site-specific training in the course of this work scope. NOTE site access maybe delayed until training is complete or renewed. The SUBCONTRACTOR shall contact the STR to coordinate scheduling of training. See Section B-4, paragraph 4 Badging.

DESCRIPTION	DURATION	FREQUENCY
CONTRACTOR's Lockout/Tagout/Tagging Authority Process (1E00W448)	1.0 Hours	730 days
CONTRACTORS Excavation Penetration Process (Briefing 1E00W752)	0.5 Hours	One time only
NNSS Site Access Safety Orientation (1E00W102)	0.5 Hours	One time only
Protective actions (WBT 1REMPAW1)	0.5 Hours	365 days
Work Location Emergency Response Plan, Including Evacuation Alarms and Accountability (1REM050000)	3.0 Hours	One time only
Initial Security Briefing. DOE O 470.4B, "Safeguards and Security Program" (1S000110) as well as DOE O 470.4B Chg. 3 (Ltd.Chg.)	1 Hours	One time only
Any other training identified in Exhibit E, or subsequent Task Orders	NA	NA

3. Government Assets

3.1. Use of Government Vehicles

<input checked="" type="checkbox"/>	There is NO anticipated need for any SUBCONTRACTOR employees to use a Government-furnished vehicle in the performance of this SOW. The SUBCONTRACTOR's employees, therefore, are specifically prohibited from driving any Government-furnished vehicles under the performance of this SOW unless this SOW is formally so modified by the parties and the employee(s) will present a valid driver's license to the STR for review.
<input type="checkbox"/>	One or more SUBCONTRACTOR employees will have access to Government-furnished vehicles while performing this SOW.
3.2. Government Property	
<input checked="" type="checkbox"/>	Government Property NOT anticipated to be furnished to or acquired by the SUBCONTRACTOR under this SOW.
<input type="checkbox"/>	Pursuant to Federal Acquisition Regulation (FAR) 52.245.1 – Government Property, the following Government-owned property will be furnished to the SUBCONTRACTOR. The SUBCONTRACTOR shall be responsible for managing the Government-Furnished Property (GFP) below and/or Contractor-Acquired Property (CAP) as required in accordance with FAR 52.245-1. A list of the property to be furnished to the SUBCONTRACTOR can be found in Appendix Choose an item, along with any special technical and/or handling instructions.

4. Permits

Except for permits furnished by the MSTS the SUBCONTRACTOR shall, without additional expense to the MSTS be responsible for obtaining any and all necessary licenses and permits.

The MSTS will without cost to the SUBCONTRACTOR, furnish the permits listed below. All such MSTS-furnished permits are available for examination at the project office of MSTS during regular business hours.

[When applicable, each Task Order Release will identify the permits to be furnished by MSTS. Such MSTS furnished permits will be provided without cost to the SUBCONTRACTOR. All such MSTS-furnished permits are available for examination at the project office of MSTS during regular business hours.

The SUBCONTRACTOR shall also be responsible and liable for all materials delivered and Work performed until completion and acceptance of the entire Work, except for any completed unit of Work which may have been accepted under the SUBCONTRACTOR.

5. Quality Assurance (QA)

The work as described has been identified to be.	
<input type="checkbox"/>	<p>SAFETY CLASS/SAFETY SIGNIFICANT SERVICES AND/OR COMMODITIES (NUCLEAR/RADIOLOGICAL)</p> <p>This PO is related to items or services used in support of the nuclear and/or radiological mission(s) of the Nevada National Security Site, therefore:</p> <p>The SUBCONTRACTOR shall implement and maintain a Quality Assurance (QA) program in accordance with at least one the following quality assurance criteria and requirements:</p> <ul style="list-style-type: none"> • ASME NQA-1 (2015) quality assurance requirements for nuclear facility applications • ASME NQA-1 (2008 with 2009 addenda) quality assurance requirements for nuclear facility applications • Equivalent program authorized in writing by the contractor's quality assurance organization <p>In addition, the subcontractor shall be responsible for:</p> <p>Price Anderson Amendments Act (PAAA)</p> <p>The item or service identified in the purchase order agreement is being procured by a contractor to the</p>

	<p>Department of Energy (DOE)/National Nuclear Security Administration (NNSA). This item or service is intended to be used in the performance of activities that (1) prevent or mitigate radiological or harm to the worker, the public or the environment or (2) provide a healthful and safe workplace for DOE/NNSA contractor personnel. Therefore, the SUBCONTRACTOR is responsible for assuring that the items or services provided under this purchase agreement meet the stated requirements.</p> <p>SUSPECT/COUNTERFEIT ITEMS</p> <p>The SUBCONTRACTOR will take positive measures to ensure that only new, unused equipment/material from acceptable sources is provided under this subcontract. Notwithstanding, any other provisions of this subcontract, should any suspect/counterfeit items or components be found within or on this equipment during contractor receipt inspection, subcontractor shall, at its expense, promptly replace such items or components.</p>
<input checked="" type="checkbox"/>	<p><u>GENERAL SERVICES AND/OR COMMODITIES</u></p> <p>This PO is for items or services that support the mission(s) of the Nevada National Security Site, therefore:</p> <p>SUSPECT/COUNTERFEIT ITEMS REQUIREMENTS:</p> <p>The SUBCONTRACTOR will take positive measures to ensure that only new, unused equipment/material from acceptable sources is provided under this subcontract. Notwithstanding, any other provisions of this subcontract, should any suspect/counterfeit items or components be found within or on this equipment during contractor receipt inspection, subcontractor shall, at its expense, promptly replace such items or components.</p> <p>These requirements shall be flowed down to all levels of subcontractors as it pertains to this procurement activity.</p>

B-7 ENVIRONMENTALLY PREFERABLE PRODUCTS

MSTS is 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 SUBCONTRACTOR. When designing materials and/or supplying materials to be used onsite as part of a subcontract SOW, 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.** MSTS supports efforts that reduce or eliminate environmental hazards, conserve environmental resources, minimize life-cycle cost and liabilities. Towards the end, the acquisition cycle is viewed as an important key in understanding what is brought onto the Site as well as identifying what can be reused/recycled. Focus is directed on recycled-content, biobased-content, ozone-depleting substances, and other environmental impacts. Specific additional clauses are included in this solicitation that address potential requirements and preferences based on the nature of the item being considered for purchase.
- **Water Efficient Plumbing Products.** When purchasing commercially available, off-the-shelf water consuming products, products must meet EPA's WaterSense standards (<http://www.epa.gov/watersense>).
- **Non-Toxic or Less Toxic Alternatives**
- **Green Certified Products.** (e.g., Design for Environment, Green Seal)
- **Bio-Based Products.** MSTS will give preference to acquiring Department of Agriculture designated biobased products. For more information to this program, see www.biopreferred.gov.
- **Energy Efficient Products.**
 - EPA Energy Star® When purchasing commercially available, off-the-shelf energy-consuming products, products must be Energy Star rated (www.energystar.gov).
 - Federal Energy Management Program designated products When purchasing commercially available,

off-the-shelf energy-consuming products, products must use no more than one watt of standby power as defined and measured by International Electrotechnical Commission (IEC) code 62301 or otherwise met [FEMP specifications](#) for low standby power consumption. If FEMP has not specified a standby power level for a product category, the item shall be the lowest standby power consumption available.

- **Energy Efficient Electronics.** When purchasing the following products, EPEAT ratings will apply:
 - Desktop and Notebook Computers – must meet the EPEAT silver rating or higher
 - Displays, Monitors, Integrated Desktop Computers, Workstation Desktops, Thin Client, Workstation Notebooks, and/or Tablet Notebooks – must meet the EPEAT silver rating or higher
 - Fax Machines, Multifunction Devices, and Printers – must meet the EPEAT bronze rating or higher
 - Copiers and Digital Duplicators – must meet the EPEAT silver rating or higher
- **Reuse of Leased IT Electronic Equipment** In accordance with DOE Order 436.1, Departmental Sustainability, MSTS is striving to reduce or eliminate environmental hazards, conserve environmental resources, minimize life-cycle cost and maximize operational sustainability through the incorporation of electronics stewardship practices thereby minimizing the economic and environmental impacts of managing toxic by-products and hazardous wastes generated in the conduct of site activities. Therefore, MSTS requires that at the end of the lease period, the equipment is to be reused, refurbished, donated, or recycled using environmentally sound management practices.

B-8 MEETINGS

After subcontract award, a Subcontract Kickoff Meeting, is requested, which may be a conference call, an internet meeting, or a meeting to be held at MSTS. The time, date, and agenda for the meeting will be provided to the SUBCONTRACTOR by MSTS.

The SUBCONTRACTOR shall interface with various MSTS (and other) organizations through MSTS' Procurement Specialist (or STR for in-scope work), as required, or at points and frequency determined by the Procurement Specialist.

MSTS will issue meeting notices and prepare an agenda and minutes for each meeting addressed in this Section. When applicable, minutes will identify action items, assigned actioner, and due dates. The purpose of the meetings is the exchange of work-related information. The person or persons designated by the SUBCONTRACTOR to attend all meetings shall have all required authority to make decisions and commit SUBCONTRACTOR to technical decisions made during meetings.

Subsequent Task Order Releases may specify additional meeting requirements as needed.

FREQUENCY	DURATION	TITLE	DESCRIPTION / PURPOSE
Once	1 Hour	Master Agreement Kickoff Meeting	After Master Agreement award, a Subcontract Kickoff Meeting is requested, which may be a conference call, an internet meeting, or a meeting to be held at MSTS. The time, date, and agenda for the meeting will be provided to the SUBCONTRACTOR by MSTS.
Once for each task order	1 Hour	Task Order Kickoff Meeting	Kickoff meeting upon receiving task order release for each task.
Weekly	30 Minutes	Weekly Design Status Meeting	Microsoft Teams meeting to update MSTS on design status, action items, and deliverables
Weekly	30 Minutes	Weekly Construction Status Meeting	Microsoft Teams meeting to provide construction status update, review RFI's,

FREQUENCY	DURATION	TITLE	DESCRIPTION / PURPOSE
			Change Orders, 3-week look a head, etc.

B-9 SUBMITTALS

Appendix See B-10 , *Submittal Register*, identifies deliverables due during the execution of this subcontract and the recipient.

B-10 APPENDIX

The SUBCONTRACTOR shall be responsible for completion of specific design and construction milestones in accordance with each project schedule or preparation and delivery of documents and reports required by each Task Order Release. In addition to the below the Submittals required per Appendix A, each Task Order Release will identify the applicable Submittal requirements, format for delivery, delivery schedule and points of contact for receipt.

The CONTRACTOR shall include review times and response to review comments for Submittals specified in each respective Task Order Release. Unless otherwise stipulated, the SUBCONTRACTOR shall provide the submittals for inspection and acceptance to the Procurement Specialist and Subcontract Technical Representative (STR) or their designee.

Specific Task Orders may require submittals and will be specified at that time. Each Task Order will contain a submittal register listing required submittals

Submittals and associated documents generated under this Master Agreement and each Task Order Release are deemed to be the property of the CONTRACTOR and therefore, the CONTRACTOR will have unlimited rights. The SUBCONTRACTOR shall neither retain nor reproduce for private or commercial use any deliverables without prior consent of the CONTRACTOR'S authorized representative identified under the Task Order Release. The SUBCONTRACTOR agrees not to assert any rights at common law or in equity or establish any claim to statutory copyright in such data. These rights are not exclusive and are in addition to any other rights and remedies to which the CONTRACTOR is otherwise entitled. The SUBCONTRACTOR is responsible for obtaining from its LOWER-TIER SUBCONTRACTORS all data and rights necessary to fulfill its obligations to the CONTRACTOR under each respective Task Order Release.

In addition to the below, each Task Order Release will identify the required schedule and submittal requirements for the documents to be provided in support of the Work. The SUBCONTRACTOR shall meet the required schedule and provide the documents specified in accordance with the following submittals.

**APPENDIX A
SUBMITTAL REGISTER**

Section A: Purchase Order/Subcontract Information

Subcontractor Name: <i>TBD</i>	Project SOW Master Agreement - New Mercury Essential Services Complex A-E, and Construction Services
Purchase Order and Release Number: <i>TBD</i>	Requisition Number: <i>REQ-0019949</i>

Section B: Submittal Delivery Requirement

Submittals shall be electronically, unless otherwise noted, to: *Procurement Specialist; JUSTICAL@nv.doe.gov and Subcontract Technical Representative; Not Disclosed*

Section C: Submittal Requirement Details

NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
001.	Subcontract Schedule	<i>Section 3.2</i>	No later than 10 calendar days from date of award, update <i>insert SOW required frequency</i>	Procurement Specialist STR	Prior to the start of work
002.	Service Contract Reporting Requirements	<i>Master Agreement</i>	<i>Annually by October 15</i>	Procurement Specialist STR	As specified in special condition titled, "Service Contract Reporting Requirements" of the Master Agreement
003.	Certified Payroll Reporting - Davis Bacon Reporting Requirements	<i>Master Agreement</i>	Weekly	Procurement Specialist STR	As specified in "Wage Requirements (Construction) Statute" of the Master Agreement
004.	Subcontract Hours, FRM-1253	<i>Master Agreement</i>	On or prior to the 28 th of the month	STR	
005.	Monthly Total Recordable Incident Rate (TRIR) and Days Away, Restricted or Transfer Case Rate (DART):	<i>Master Agreement</i>	On or prior to the 28 th of the month	STR	

APPENDIX A
 SUBMITTAL REGISTER

Section A: Purchase Order/Subcontract Information

Subcontractor Name:	TBD	Project SOW	Master Agreement - New Mercury Essential Services Complex A-E, and Construction Services
Purchase Order and Release Number:	TBD	Requisition Number:	REQ-0019949

Section B: Submittal Delivery Requirement

Submittals shall be electronically, unless otherwise noted, to: *Procurement Specialist; JUSTICAL@nv.doe.gov and Subcontract Technical Representative; Not Disclosed*

Section C: Submittal Requirement Details

NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
006.	Injury/Illness Infraction Report, FRM-0018	Master Agreement	Immediately	STR	The SUBCONTRACTOR is required to report all job-related injuries and illnesses, regardless of severity,
007.	Meeting Minutes	Section B-8	Weekly.Monthly as required by the Task Order Release	Procurement Specialist STR	any comments
008.	An NNSS Construction Office and Equipment Trailer Permit Application for Each Trailer over 120sf	Section 3.6	at least 28 days before the trailer is planned to be on site		
009.	Design Packages	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
010.	Cost Estimates	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
011.	Drawings, Calculations and Modeling	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
012.	Construction Schedules	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
013.	Commissioning Plans	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
014.	Master Equipment List and Instrumentation and Controls Table	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
015.	Commissioning Schedule	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
016.	Specifications	Section 3	As stated in the Task Order Release	Procurement Specialist STR	

**APPENDIX A
SUBMITTAL REGISTER**

Section A: Purchase Order/Subcontract Information

Subcontractor Name: <i>TBD</i>	Project SOW	Master Agreement - New Mercury Essential Services Complex A-E, and Construction Services
Purchase Order and Release Number: <i>TBD</i>	Requisition Number:	<i>REQ-0019949</i>

Section B: Submittal Delivery Requirement

Submittals shall be electronically, unless otherwise noted, to: *Procurement Specialist; JUSTICAL@nv.doe.gov and Subcontract Technical Representative; Not Disclosed*

Section C: Submittal Requirement Details

NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
017.	Start-Up and Commissioning Procedures	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
018.	O&M Manuals	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
019.	Warranties for Installed Systems	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
020.	Training Records, Manuals, Videos and Data Sheets	Section 3	As stated in the Task Order Release	Procurement Specialist STR	
021.	Site Specific Safety Plan (SSSP)	Exhibit E	30 days prior to the start of fieldwork	Procurement Specialist STR	

*NLT = No Later Than
NTP = Notice to Proceed
TLO = Transmittal Letter Only*

APPENDIX B
TECHNICAL REQUIREMENTS DOCUMENT (TRD)

Appendix B, New Mercury Essential Services Complex Design Build Technical Requirements Document (TRD) No. TRD-220-000, Rev. 0 dated 07/21/2025 shall be used for all Task Order Releases issued against the Master Agreement. As applicable, each Task Order will specify the applicable sections of the TRD.

In resolving conflicts, discrepancies, errors or omissions Appendix B shall take precedence over Exhibit B – Statement of Work.