NSWC Carderock Division
Infrastructure Division
Building 42, West Bethesda, MD 20817

1 June 2026
SPECIFICATION # TBD

Building 4E Crane 0018 Repair

AT THE
NAVAL SURFACE WARFARE CENTER CARDEROCK DIVISION
9500 MacArthur Blvd, West Bethesda, MD 20817

1. PROJECT DESCRIPTION

The following items are the requirements for the subject project.

Building 4E is located at the eastern end of the David Taylor Model Basin (Building 4). The David Taylor Model Basin is used for Navy research, development, testing, and engineering purposes. Building 4E houses testing and administrative space and serves as the eastern entrance to Building 4. Building 4E Crane 0018 located on the south end of the building has been badly damaged due to a fire that requires extensive repairs and replacements.

2. TIME FOR COMPLETION

All work shall be completed by the Contractor within the period of performance listed as follows from the date of award:

All work shall be completed by the Contractor 60 calendar days.

3. PROJECT POINTS OF CONTACT: The Government points of contact for this project are as noted –

3.1. **NSWCCD Contracting Officer (KO)**
Mrs. Marlanea Kirkbride, (240) 643-3464
Marlanea.m.kirkbride.civ@us.navy.mil
NSWC Carderock, West Bethesda, MD 20817

3.2. **NSWCCD Contracting Officer's Representative (COR)**
Ibrahim Bunduka
(240) 340-9287
ibrahim.bunduka.civ@us.navy.mil
NSWC Carderock, West Bethesda, MD 20817

4. GENERAL

Contractor shall perform the work in accordance with all current applicable building codes including those associated with Tri-Services, Federal, State and local codes, standards, regulations and ordinances, except where specifically stated herein including, but not limited to:

- 29 CFR 1910.179 — General Industry: Overhead and Gantry Cranes
- 29 CFR 1926 (Subpart N) — Construction: Helicopters, hoists, Elevators, and Conveyors
- 29 CFR 1926 (Subpart K) — Construction: Electrical
- IBC 2024 — International Building Code
- FC 1-300-09N — Navy and Marine Corps Design Procedures
- EPA SPCC (40 CFR 112) — Spill Prevention and Environmental Protection
- NFPA 1 — Fire Code
- NFPA 30 — Flammable and Combustible Liquids Code
- NFPA 70 — National Electric Code
- EM 385-1-1 — USACE Safety and Health Requirements Manual
- UFC 1-200-01 — DOD Building Code
- UFC 3-20-07N — Weight Handling Equipment
- UFC 3-501-01 — Electrical Engineering
- UFC 3-600-01 — Fire Protection Engineering for Facilities

4.1 Field investigations must adhere to FC 1-300-09N, ensuring comprehensive data collection and assessment of existing site conditions and utilities. Compliant construction schedules should outline major activities, critical paths, impacts on building occupants and customer operations, weather considerations, administrative submittal timelines, material lead times, trade interfaces, and environmental permits for air quality and hazardous waste.

5. SCOPE OF WORK

The Contractor shall provide all parts, labor, equipment, transportation, tools, disposal of materials and all work according to this Statement of Work. The contractor shall field verify locations, sizes and quantities of work required for the project.

5.1. Structural Floor Load Analysis & Rigging Plan

5.1.1. Acknowledging that the new hoist (Unit ID C0018) and associated installation materials are already on-site at Carderock, the Contractor shall immediately verify that the current staging footprint does not exceed the allowable floor load limits of BLDG 4 East End. Furthermore, the Contractor shall conduct a structural floor load analysis covering the intended path of travel and the designated active work areas..

5.1.2. The study shall evaluate whether the existing floor slab and underlying structure can safely withstand the concentrated and distributed loads of the Contractor's installation equipment (e.g., mobile cranes, A-frame gantries, heavy forklifts, and man-lifts) combined with the dynamic loads of moving the staged materials and lowering the damaged equipment.

5.1.3. The Contractor shall submit a formal Floor Load & Rigging Staging Plan, stamped and signed by a licensed Professional Engineer (PE) specializing in Structural Engineering. The plan must include:

- Verification that the current on-site material storage is within safe structural limits.
- Calculations of maximum anticipated wheel, outrigger, and dead loads for all installation machinery to be brought into the building.
- A map identifying the approved equipment path-of-travel and any required load-mitigation measures

5.2. Removal of Damaged Equipment

5.2.1. The Contractor shall safely disconnect, disassemble, and remove the damaged existing hoist, trolley system (Unit ID C0018), and the associated pendant festoon system. All removed equipment shall be disposed of or recycled in strict accordance with federal, state, and local environmental regulations.

5.3. Installation

5.3.1. The Contractor shall install a new Navy-compliant hoist and trolley system matching the technical specifications of the existing hoist (C0018). The Contractor shall replace the damaged pendant festoon system with a new, fully compatible system, ensuring seamless integration and full operational capability with the new hoist and trolley.

5.4. Technical Specifications

5.4.1. Hoist Type: 3-ton Work Rated VFD controlled hoist

5.4.2. Lift: 41 feet

5.4.3. Speed:

- Hoist Speed 15 FPM (VFD Controlled 2-Step INF. VAR)
- Trolley speed 50 FPM (VFD Controlled 2-Step INF. VAR)

5.4.4. Reeving: 2PD
5.4.5. Rope Diameter: 5/16”
5.4.6. Hoist motor HP: 3
5.4.7. Trolley Motor HP: 2 @ .5
5.4.8. Voltage: 208V – 3PH – 60H
5.4.9. Enclosure: NEMA 12
5.4.10. Hoist Duty: H4
5.4.11. Prepare and submit a Crane Alternation Request (CAR) to the Navy Crane Center for approval.

5.5. Deliverables to be Provided:
5.5.1. Shop Repair Order (SRO)
5.5.2. Hook NDT Documentation and hook ID numbers
5.5.3. MISR (Annual Inspection)
5.5.4. Crane Condition Inspection Report (CCIR)
5.5.5. Certificate of Load Test (COT)
5.5.6. Hoist Compliance Certificates
5.5.7. Wire Rope Certification
5.5.8. Wire Rope Breaking Strength Certification for each replaced wire rope
5.5.9. Complete set of integrated wiring schematics
5.5.10. Product Data

THE FOLLOWING APPLIES TO ANY CONSTRUCTION TAKING PLACE:

6. OCCUPANCY OF PREMISES

Building(s) will be occupied during performance of work under this Contract. Before work is started, arrange with the Contracting Officer’s Representative (COR) a sequence of p means of access, space for storage of materials and equipment, and use of approaches, corridors, and stairways. The construction schedule is to be submitted to the Government prior to mobilization for approval.

7. EXISTING WORK

In addition to FAR 52.236-9 Protection of Existing Vegetation, Structures,Equipment, Utilities, and Improvements: Remove or alter existing work in such a manner as to prevent injury or damage to any portions of the existing work which remain. Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as approved by the Contracting Officer. At the completion of operations, existing work must be in a condition equal to or better than that which existed before new work started.

8. DAMAGES

The Contractor shall be responsible for repairing or replacing, at its own expense, any damage to existing structures, utilities, landscaping, or other property resulting from the Contractor's operations under this contract. This includes damage to property outside the immediate work area, EXCEPT in cases where the damage is caused solely by a latent differing site condition (as defined by FAR 52.236-2) that could not have been reasonably discovered despite diligent site investigation by the Contractor. The Government reserves the right to determine whether the damage was caused by a latent differing site condition.

9. LOCATION OF UNDERGROUND UTILITIES

Obtain digging permits, if required, prior to start of excavation and comply with Installation requirements for locating and marking underground utilities. Contact local utility locating service a minimum of 48 hours prior to excavating, to mark utilities, and within sufficient time required if work occurs on a Monday or after a Holiday.

9.1. Notification Prior to Excavation
9.1.1. Notify the Contracting Officer’s Representative (COR) at least 48 hours prior to starting excavation work.

10. SUBMITTALS

Proposed material submittals required of the Contractor shall be made allowing sufficient time for processing, review, approval, and procurement before the Contractor is ready to use the material. Submittal review and approval is 14 working days upon receipt of the submittal. The Contractor shall certify on all submittals that the material being proposed conforms to contract requirements. In the event of any variance, the Contractor shall state specifically which portions vary, and request approval of a substitute. The Contractor shall also certify that all contractor-furnished equipment can be installed in the allocated spaces. Incomplete submittals and submittals with inadequate data will be rejected. When required, catalog data shall consist of printed pages on permanent copies of manufacturer's catalogs. Three (3) copies of the following submittal(s) are required:

Submittal Requirements

a. Provide cover sheets for all documents, which must include Work Order Number, project details, and submission date. Bind the Basis of Design, drawings, specifications, calculations, O&M manuals, cost estimates, and reports separately.

b. Submit half-size (11 x 17 inches) prints for hardcopy working drawings, including project and vicinity reference maps.

c. Final drawing set must be full-size (22 x 34 inches) and in electronic format (Adobe PDF and AutoCAD DWG).

SD-01 Preconstruction Submittals:

10.1. Construction plans and specifications
10.2. Construction schedule
10.3. Certificates of Insurance
10.4. Surety Bonds
10.5. List of proposed Subcontractors
10.6. Proposed product data
10.7. Submittal Register
10.8. Request for Information (RFI) Log
10.9. Health and Safety Plan
10.10. Work Plan
10.11. Quality Control (QC) Plan

SD-02 Shop Drawings

Drawings, diagrams and schedules specifically prepared to illustrate some portion of this work.

Diagrams and instructions from a manufacturer or fabricator for use in producing the product and as aids to the Contractor for integrating the product or system into the project.

Drawings prepared by or for the Contractor to show how multiple systems and interdisciplinary work will be coordinated.

SD-03 Product Data

Catalog cuts, illustrations, schedules, diagrams, performance charts, instructions and brochures illustrating size, physical appearance and other characteristics of materials, systems or equipment for some portion of the work.

Samples of warranty language when the contract requires extended product warranties. **Document the factory Parts and contractor labor Warranty in writing.**

SD-04 Test Reports

Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified requirements. (Testing must have been within three years of date of contract award for the project.)

Report which includes findings of a test required to be performed by the Contractor on an actual portion of the work or prototype prepared for the project before shipment to job site.

Report which includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation.

- Investigation reports.
- Daily logs and checklists.
- Final acceptance test and operational test procedure.

SD-05 Certificates

Statements printed on the manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements. Must be dated after award of project contract and clearly name the project.

Document required of Contractor, or of a manufacturer, supplier, installer or Subcontractor through Contractor, the purpose of which is to further quality of orderly progression of a portion of the work by documenting procedures, acceptability of methods or personnel qualification.

- Confined space entry permits.
- Text of posted operating instructions.

SD-06 Manufacturer's Instructions

Preprinted material describing installation of a product, system or material, including special notices and (MSDS) concerning impedances, hazards and safety precautions.

SD-07 Closeout Submittals –the following must be provided to the government:

Documentation to record compliance with technical or administrative requirements or to establish an administrative mechanism.

Special requirements necessary to properly close out a construction contract. Record Drawings and as-built drawings must be provided to the government. Also,submittal requirements necessary to properly close out a major phase of construction on a multi-phase contract.

11. UTILITY OUTAGE REQUESTS AND UTILITY CONNECTION REQUESTS

Schedule work to minimize outages. For utility outages and connections required during the execution of work that affect existing systems, schedule outside the regular working hours or on weekends, as approved by the Contracting Officer. Schedule utility outages and connections to minimize disruption to the Government. No additional payment will be provided for utility outages and connections required to be performed outside the regular work hours.

Submit requests for utility outages and connections in writing to the Contracting Officer for approval at least 5 calendar days in advance of the time required. In each request, state the system involved, area involved, approximate duration of outage, and the nature of work involved.

12. CONFINED SPACE ENTRY

Contractor operations which involve work or entry in a confined space is to be governed by **29 CFR 1910, 29 CFR 1926, the U.S. Army Corps of Engineers Manual EM 385-1-1, Safety and Health Requirements Manual, dated September 15, 2008, and NAVSEA Technical Manual S6470-AA-SAF-010, Naval Sea Systems Command Gas Free Engineering Program, dated 15 October 2006.**

12.1. A confined space shall be defined as any space having limited openings for entry and exit, not intended for continuous occupancy, and having unfavorable natural ventilation or an atmosphere that could contain or have produced dangerous concentrations of airborne contaminants or asphyxiates including toxic or disease producing contaminants or is oxygen deficient. Confined spaces may include, but are not limited to, storage tanks, holds of vessels, manholes, process vessels, bins, boilers, ventilation or exhaust ducts, sewers, underground utility vaults, tunnels, pipelines, trenches, vats and open top spaces more than 4 feet in depth such as pits, tubs, vaults and vessels, or any place with limited ventilation.

12.2. The Contractor and any subcontractors shall have a written confined space entry procedure or plan which shall include, as a minimum, the training of personnel concerning procedures to be followed for entering and working in confined spaces, the specific training and certifying of selected personnel for classification of spaces, identification and evaluation of potential hazards and atmospheric monitoring, the designated attendant outside the work space, the Contractor's emergency response plan, a hazard reduction plan, entry permit procedures and identification of approval authority for entry permits.

12.3. Prior to entering a confined space, the work environment shall be tested by a competent, trained person using properly calibrated and approved equipment, to determine the extent of the potential hazards. If the atmosphere cannot be determined by testing, it must be classified as immediately dangerous to life or health. In addition, no one shall enter a confined space where a known explosive or oxygen enriched atmosphere exists. The evaluation of the confined space shall consider the potential for evolution of toxic substances as well as oxygen content. Testing for atmospheric conditions shall be performed prior to each entry and on a continuous or frequent (as stipulated in the confined space entry plan) basis while personnel are working in confined spaces. Navy gas free engineering personnel are not available to perform gas free engineering services for Contractor operations.

12.4. The Contractor is responsible for taking any and all task specific precautions related to the specific type of operation or work being conducted in the confined space.

12.5. The Contractor shall notify the Maryland Commissioner of Labor and Industry orally prior to the start of any work to be performed in a confined space as defined in Maryland Occupational Safety and Health Law. Within 24 hours of the oral notification, the Contractor shall submit written notification to the Maryland Commissioner of Labor and Industry and furnish a copy of this notification to the Contracting Officer.

13. CONTRACTOR'S DAILY REPORT

The Contractor will be required to submit a "Daily Report to the Inspector" on the form provided by the Government. The form shall be completed daily and delivered to the Contracting Officer. Reports are due the following day no later that 10:00AM. Data to be reported includes data on workers by classification, the move-on, and move off of construction equipment furnished by the prime and subcontractor or furnished by the Government, and materials and equipment delivered to the site.

14. SUPERVISION

The contractor shall provide qualified supervision for all work performed on-site. The contractor shall submit a resume for government approval demonstrating relevant qualifications, certifications, and experience in federal construction projects for the proposed superintendent prior to start of work. They must also provide an alternate Superintendent's Resume and certifications for government approval prior to start of work. The Superintendent is to make regular visits to oversee project progress, coordinate activities, and ensure compliance with the contract requirements. In addition, the contractor shall designate a Site Safety and Health Officer (SSHO) and a Construction Quality Manager (CQM), who may be the same individual based on Government approval, but not the same employee as the superintendent. They are to be present on-site at all times during active work. The Contractor must also submit a resume for the SSHO/CQM for government approval demonstrating relevant qualifications, certifications, and experience in federal construction projects. The contractor shall also submit a resume and certifications for an Alternate SSHO/CQM for government approval. The SSHO/CQM is responsible for enforcing all safety and quality standards daily, conducting inspections, safety orientations, and preparing necessary documentation to ensure strict compliance with federal regulations such as EM 385-1-1 and applicable quality control plans. Failure to maintain qualified supervision and safety oversight as described may result in corrective actions and project delays.

15. CERTIFIED PAYROLL REPORT

Contractor must provide a certified payroll report to be in compliance with Department of Labor requirements for federal work sites under the Davis –Bacon Act for prevailing wage for the work performed for all workers who worked on the site. it is mandatory for covered contractors and subcontractors performing work on Federally financed or assisted construction contracts to respond to the information collection contained in 29 C.F.R. §§ 3.3, 5.5(a). The Copeland Act (40 U.S.C. § 3145) contractors and subcontractors performing work on Federally financed or assisted construction contracts to "furnish weekly a statement with respect to the wages paid each employee during the preceding week." U.S. Department of Labor (DOL) regulations at 29 C.F.R. § 5.5(a)(3)(ii) require contractors to submit weekly a copy of all payrolls to the Federal agency contracting for or financing the construction project, accompanied by a signed "Statement of Compliance" indicating that the payrolls are correct and complete and that each laborer or mechanic has been paid not less than the proper Davis-Bacon prevailing wage rate for the work performed. DOL and federal contracting agencies receiving this information review the information to determine that employees have received legally required wages and fringe benefits.

16. SECURITY REQUIREMENTS

Site access is controlled by the onsite Naval Surface Warfare Center Security Requirements. Contractor personnel working at NSWC must be fully identified and approved. Contractors will complete Department of the Navy Local Population ID Card/Base Access Pass Registration Form SECNAV 5512/1 for all employees, staff, sub-Contractors personnel, etc., who will require access. Forms must be approved by local Department of Defense Security Office prior to access.

Contract personnel are expected to perform work during normal NSWC duty hours. If work must be performed otherwise, permission must be obtained from the Security Office through the Contracting Officer's Representative. Contractor personnel must confine themselves to the work sites specified in their contract. Visiting other areas is prohibited. Alcoholic beverages, weapons, cameras, sound recorders, proscribed drugs and explosives are prohibited on NSWC property. Use of Government property without prior written approval of the Contracting Officer (KO) is prohibited.

16.1. Employee Listing

The Contractor shall maintain a current Employee List and submit monthly to the COR. The list shall include employee's name, supervisor, company, and level of security clearance.

16.2. Vehicles

The company name shall be displayed on each of the Contractor's vehicles in a manner and size that is clearly visible. All vehicles shall display a valid state license plate that complies with State Vehicle Code. Vehicles shall meet all other requirement of the State Vehicle Code, such as safety standards, and shall carry proof of insurance and state registration, if applicable.

NSWC personnel will arrange for special contractor parking if required. Contractor personnel must not park in numbered spaces, areas reserved for car pools, or other prohibited areas. Posted speed limits and traffic restrictions must be observed at all times. Accidents or problems of a security/safety nature must be

reported to the onsite personnel immediately.

Pursuant to federal regulations, all personnel and vehicles on NSWC property are subject to search by authorized personnel at any time.

16.3. Passes & Badges

Contract personnel are expected to perform work during normal NSWC duty hours. If work must be performed otherwise, permission must be obtained from the Security Office through the Contracting Officer's Representative (COR). The Government will provide the necessary SECNAV 5512 upon request. Contractor must submit their base access request forms NLT than 72 hours in advance to the day of arrival. Any delays to the schedule due to improper base access requests are not at the fault of the government.

Contractor personnel working on station for less than five days may be required to log in and out at the Visitor's Center each day and will not be issued an Extended Entry Contractors Badge.

Personnel not requiring network access shall submit a Defense Biometrics Identification (DBIDS) badge application. Upon adjudication and a favorable background check, the contractor shall be granted a DBIDS badge.

Contractor personnel shall wear their CAC or DBIDS badge on their outer most layer of clothing above the waist. CACs shall be visible at all times unless connected to a work station. CACs shall be removed from work stations every time personnel leave their work station. Lost or stolen CACs/DBIDS shall be reported to the contractor's Cognizant Security Officer, the COR, and the Security Division immediately. Contractor personnel shall maintain control of their CAC/DBIDS at all times, both onsite and offsite. CACs/DBIDS shall not be photographed or photocopied. CACs/DBIDS shall only be used by those to which they are assigned and shall not be shared.

All contractor's personnel are required to display the NSWC issued identification badge on their person at all times while present at the laboratory. Access to NSWC property will not be allowed without this identification badge. The badge is to be displayed on the person outer clothing, above the waist and in full view. Identification badges and vehicle passes issued to contractor personnel remain the property of the U.S. Government and must be surrendered upon completion of the contractor at the termination of individual employment, and when requested by the Government.

16.4. Access to Buildings

The Contractor shall monitor and control access into restricted areas under their responsibility, allowing only those individuals who have been properly cleared into restricted areas or other controlled access areas. The Contractor shall comply with security requirements, plus those imposed by the installation Commander at all times. Personnel with access to special areas will have the appropriate screening and/or security clearance, and personnel requiring routine access to restricted areas will wear special badges authorizing access for those areas. Contractor personnel shall not enter restricted or controlled areas or installation facilities unless specifically authorized in performance of their duties. The Contractor shall secure all buildings and facilities entered during non-duty hours and will secure all building and facilities under the Contractor's cognizance at the end of each work day or shift period.

16.5. Access Arrangements

The Contractor shall make all arrangements through the Contracting Officer's Representative (COR) necessary to obtain access to buildings, facilities and other work areas, and when necessary, arrange for them to be opened and closed by the controlling authority. The Government may issue keys to the Contractor. The Contractor shall use due diligence and be responsible for compromised security systems to include replacement costs that result from its action or inaction.

17. PHYSICAL SECURITY

Physical security is defined as that part of security concerned with physical measures designed and placed to safeguard personnel; to prevent unauthorized access to installations, equipment, material and documents and to safeguard them against espionage, sabotage, damage and theft. Many buildings require some level of physical security. When required, integrate physical measures into the site, building, room or area as applicable. DoD requirements for physical security related to specific assets are documented in DoD publications, directives, manual and instructions. The Services have related documents that implement the DoD policy for the Services.

18. SMOKING RESTRICTIONS

The bearing and use of lighted cigarettes, cigars, pipes, or any tobacco product is prohibited in the following

areas:

18.1. All buildings including private offices, lobbies, and restrooms
18.2. Alleys and passages between buildings
18.3. Stairways and ramps leading to building entries and exits
18.4. Within 20 feet of building entries and exits
18.5. Within 20 feet of heating, ventilation, and air conditioning intake ducts
18.6. Hazardous areas containing flammable liquids, gases, vapors, and all other locations where there is a collection of readily ignitable combustible material

19. STATION PERMITS

Permits are required for, but not necessarily limited to, welding, brazing and burning. Permits must be requested by the Contractor, from the Contracting Officer's Representative (COR) and the Fire Department authority in compliance with all Federal, State and local requirements and ordinances. Permits should be posted in a conspicuous location in the construction area.

20. STORM PROTECTION

If a warning of gale force winds is issued, take precautions to minimize any danger to persons, and protect the work and any nearby Government property. Precautions shall include, but not be limited to, closing openings, removing loose materials, tools, and equipment from exposed locations, and removing or securing scaffolding and other temporary work. Close openings in the work if storms of lesser intensity pose a threat to the work or any nearby Government property.

21. ASBESTOS AND LEAD MATERIAL

If material is encountered which may contain asbestos and or lead and must be disturbed, do not touch the material. Should the discovery of such suspected material affect the contractor's planned work schedule, the contractor shall redirect the work crew to other portions of the unaffected work and modify the schedule at no additional cost to the Government. The Contracting Officer shall be notified immediately, in writing, regarding the discovery of the suspected material and of any adverse impact the Contractor may expect to incur due to this situation. Within 14 calendar days, the Contracting Officer will perform laboratory tests to determine if there is asbestos or lead. If asbestos or lead is not a danger, the Contracting Officer will direct the Contractor to proceed in the identified area without change.

22. SAFETY REQUIREMENTS

In order to provide control for protection of the life and health of employees, and other persons; avoid work interruptions in the performance of this contract; the Contractor shall comply with all pertinent provisions of the 29 CFR 1910 General, and with any additional measures the Contracting Officer may determine to be reasonably necessary. Copies of this manual may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. Additionally, it is the Contractor's responsibility to familiarize himself with the latest version of the **Army Corps of Engineers Manual, EM 385-1-1**, and incorporate those general and additional safety requirements into daily working procedures that will provide safe working conditions during performance of this Contract. Copies of this manual may also be found online.

22.1. Safety Plan: Submit in writing a safety plan for preventing accidents prior to mobilization and meet in conference with the Contracting Officer to discuss and develop mutual understandings relative to the overall safety program, pursuant to the Contract Clause entitled "Accident Prevention." The safety plan shall include provisions to deal with hazardous materials, pursuant to the Contract Clause entitled "Hazardous Material Identification and Material Safety Data." With respect to hazardous materials, the plan will consist of (but is not limited to):

22.1.1. An index of hazardous materials to be introduced to the site
22.1.2. A plan for protecting personnel and property during the transport, storage, and use of the materials
22.1.3. Procedures for spill response and disposal
22.1.4. Safety Data Sheets (SDS) for materials listed in the index of the plan and not required in the technical section of the specification.

22.2. Lockout Or Tagout Procedure

The Contractor shall perform this work in accordance with 29 CFR 1910.147, The Control of Hazardous Energy and the following general requirements.

22.2.1. Preparation: Make a survey to locate and identify all isolating devices to be certain which switches, valves, or other energy isolating devices apply to the equipment to be locked or tagged out. More than one energy source such as electrical, mechanical, or others may be involved.

22.2.2. Sequence of Lockout/Tagout Procedure

- Notify all affected personnel that a lockout/tagout system is going to be used and the reason

therefor. The authorized personnel shall know the type and magnitude of energy that the machine or equipment uses and shall understand the hazards thereof.

- If the machine or equipment is operating, shut it down by the normal stopping procedure such as depressing stop button, open toggle switch, etc.
- Operate the switch, valve, or other energy isolating devices so that the equipment is isolated from its energy source. Stored energy such as in charged capacitors, springs, elevated machine members, rotating flywheels, hydraulic systems and other pressurized air, gas, steam, or water systems etc. must be dissipated or restrained by methods such as repositioning, blocking, or bleeding down the stored energy.
- Lockout and/or tagout the energy isolating devices with assigned individual locks, tags, or additional safety measures as may be required.
- After ensuring that no personnel are exposed, and as a check on having disconnected the energy sources, operate the push button or other normal operating controls to make certain the equipment will not operate. CAUTION: Make sure the operating controls are returned to the ANEUTRAL@ or AOFF@ position after the test.
- The equipment is now locked out or tagged out.

22.2.3. Restoring Machines or Equipment to Normal Production Operations.

- After the servicing and/or maintenance is complete and equipment is ready for normal production operations, check the area around the machines or equipment to ensure that no one is exposed.
- After all tools have been removed from the machine or equipment, guards have been reinstalled, and personnel are in the clear, remove all lockout and tagout devices. Operate the energy isolating devices to restore energy to the machine or equipment.

22.2.4. Procedure Involving More Than One Person: In the preceding steps, if more than one individual is required to lockout or tagout equipment, each shall place his/her own personal lockout or tagout device on the energy isolating devices. When an energy isolating device cannot accept multiple locks or tags, a multiple lockout or tagout hasp shall be used. If a single lock is used to lockout the machine or equipment, the single key shall be placed in a lockout box or cabinet which allows the use of multiple locks to secure it. Each employee shall then use his/her own lock to secure the box or cabinet. As each person no longer needs to maintain his/her lockout protection, only that person shall remove his/her lock from the box or cabinet.

23. ENVIRONMENTAL PROTECTION REQUIREMENTS

Provide and maintain, during the life of the contract, environmental protection. Plan for and provide environmental protective measures to control pollution that develops during normal construction practice. Plan for and provide environmental protective measures required to correct conditions that develop during the construction of permanent or temporary environmental features associated with the project.

23.1. Comply with Federal, state, and local regulations pertaining to the environment, including but not limited to, water, air, soil, and noise pollution.

23.1.1. Preserve the natural resources within the project boundaries and outside the limits of permanent work. Restore to an equivalent or an improved condition upon completion of work. Confine construction activities to within the limits of the work indicated or specified.

23.1.2. Protect existing trees which are to remain and which may be injured, bruised, defaced, or otherwise damaged by construction operations. Remove displaced rocks from uncleared areas. Remove trees and other landscaped features scarred or damaged by equipment operations. Replace them with equivalent undamaged trees and landscape features at no additional cost to the Government. Obtain Contracting Officer approval of replacement items and methods.

23.1.3. Prevent oily or other hazardous substances from entering the ground, drainage areas, storm drainage system, or local bodies of water.

23.1.4. Provide for temporary protection of erodible soils by using silt fences, berms and other suitable methods to control runoff from the construction operations. Provide permanent protection at the end of the project by establishing vegetation and mulch. Provide new seeding and mulch to stabilize area where ground is disturbed. Include topsoil or nutriment during the seeding operation and water in place as necessary to establish a suitable stand of grass.

23.1.5. Pickup solid wastes daily and place in covered containers which are regularly removed by the

Contractor from Government property. Do not prepare or cook food on the project site. Prevent contamination of the site or other areas when handling and disposing of wastes. At project completion, leave the areas clean.

23.1.6. Handle generated hazardous waste in accordance with 40 CFR 262. Dispose of hazardous waste in accordance with Federal, State, and local regulations including 40 CFR 263 and 40 CFR 264. Take precautions to prevent spills of oils and hazardous material. In the event of a spill, immediately notify the Contracting Officer and initiate containment operations utilizing personnel properly trained and protected for such situations.

23.1.7. Keep dust down at all times, including during nonworking periods. Sprinkle or treat, with dust suppressants, the soil at the site, and other areas disturbed by operations. Dry power brooming will not be permitted. Instead use vacuuming, wet mopping, wet sweeping, or wet power brooming. Only wet cutting will be permitted for cutting concrete, and bituminous concrete.

23.1.8. Make the maximum use of low-noise emission products, as certified by the EPA. Blasting or the use of explosives is prohibited.

23.2. OZONE DEPLETING SUBSTANCES (ODS)

The use on station or the removal off station of Class I ODS's is strictly prohibited without the prior knowledge and consent of the Contracting Officer. ODS's are generally found in refrigerants, firefighting agents, and solvents. The Contractor shall use only those products that are approved and listed by the EPA Significant New Alternatives Program (SNAP). Any Class II ODS shall be used only when specified by the Government. When ODS's of any class are used or saved for reuse, the Contractor shall list this amount in pounds on the "Daily Report to Inspector" form and the Contractor's invoice. The Contractor shall not knowingly vent or otherwise dispose of any ODS in a manner which would permit their release into the environment. ODS's shall be captured and recycled in conformance with all applicable Federal, State, and local regulations. The Contractor shall furnish a material safety data sheet to the Government representative prior to use of any ODS or SNAP product on station.

24. TRANSPORTATION ON STATION

No employee of the Contractor shall be allowed to operate a privately owned vehicle on Station other than for ingress and egress. All private vehicles shall be parked in an area designated by the Contracting Officer's Representative (COR) and remain until the end of the work shift at which time they shall be driven directly to the gate for exit from the station. Any desired transportation of personnel, supplies or equipment on station by the Contractor shall be accomplished by the use of one (1) registered vehicle furnished by the Contractor and operated by an assigned driver appointed by and responsible to his "Supervisor".

25. STORAGE OF MATERIALS AND EQUIPMENT

Government furnished storage facilities are not available to the Contractor in the work site (building 15); however, an outdoor laydown area and additional inside area will be available. The Contractor shall provide suitable storage facilities as approved by the Contracting Officer if he intends to leave materials and equipment in this area overnight or on weekends. The security of the Contractor's property or his personnel's property shall be the full responsibility of the Contractor. The Government will accept no liability in case of loss due to fire or theft.

26. AVAILABILITY OF UTILITY SERVICES

The Government will furnish water, electric lights, and power in the quantity not to exceed the amount necessary for the normal prosecution of the work, at the nearest available outlet. The Contractor shall make all piping and wiring connections thereto and shall extend the services to the site of the work. On completion of the work, all such temporary connections shall be removed by the Contractor and any removed or damaged portions of the Government services at the points of connection shall be repaired or replaced.

26.1. Other Utilities: The Contractor shall make arrangements to obtain all utilities not furnished by the Government, at his/her own expense.

26.2. The Government will not provide refuse facilities. The contractor will be required to dispose of all garbage and other waste materials generated by his work at a licensed off-site landfill.

27. INSPECTION

All work is subject to inspection by a designated Government Representative during performance of specified work, and upon completion of the job. Additionally, the system will require commissioning by the Authority Having Jurisdiction (regional NAVFAC FPE) after construction is complete and prior to project closeout.

28. GOVERNMENT REPRESENTATIVE

The work will be under the general direction of a designated Government representative. This designated person has complete charge of and exercises full supervision over the work in so far as it affects the interests of the Government.

Any claim for time extension, cost modification, or other formal contracting action shall be submitted to the Contracting Officer. The provisions of this paragraph or provisions elsewhere in this Contract regarding supervision, approval, or direction by the Contracting Officer or the designated person shall not relieve the Contractor of responsibility for accomplishing the work, with regard to sufficiency or time of performance, except as otherwise provided.

29. ORAL MODIFICATION

No oral statement of any person other than the Contracting Officer, or his representative, as provided in the clause in the Contract entitled "Changes", shall in any manner of degree modify or otherwise affect the terms of this Contract.

30. WORK SCHEDULE

All work shall be performed during normal working hours, between 6:30 AM and 3:00 PM, Monday through Friday, except (a) federal holidays, or (b) other days so designated by the Commanding Officer. Any work other than these hours or weekend work will be permitted only when advance written approval has been issued by the Government. The main rear commercial entrance located off McArthur Blvd. will be closed at 2:00 PM each day. Contractor personnel need to contact the NDW Police at (301) 227-1502 to leave by this gate after 2:00 PM. Contractor personnel are cautioned that driving large commercial vehicles on the Clara Barton Parkway is prohibited.

END OF STATEMENT OF WORK