

SPECIFICATION for a
Shop 26A Delta Pier Vertical Storage Lift
(Project #783-831)
12 Aug 2016

1 **SCOPE**

This specification reflects those characteristics that are essential to the minimum needs of the government for a Vertical Storage Lift. The scope of work shall include the "Turn-Key" set-up, operational testing and training of the equipment as specified herein. This lift shall store various types of materials/components/parts used in the maintenance/repair of submarines at the pier. The Vertical Storage Lift shall have the capability to store bulky, heavy and dissimilar parts, with fast storage and retrieval times. The lift shall have a computerized lift/extractor at the center of the cabinet, with storage shelves/containers in front and behind the extractor. An operator shall be able to store/retrieve an item via a push button controller, using a micro-processor controller, mounted on a swivel arm. Each container/shelf shall be able to hold a minimum of 1,378 lbs, with the total system being able to hold a minimum of 88,000 lbs. The Vertical Lift Storage Lift shall be designed in accordance with requirements identified in these specifications, and shall meet all safety requirements as outlined in enclosure 1. It is the government's intent that a single (primary) contractor be awarded this contract and be responsible for the accomplishment of all work detailed by this specification.

2 **APPLICABLE DOCUMENTS**

The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on the date of an invitation for bids or a request for proposals shall apply.

2.1 **SAFETY REQUIREMENTS**

- Safety Requirements For The Puget Sound Naval Shipyard And Intermediate Maintenance Facility (PSNS & IMF), Bangor Site

A copy of this document is attached to this specification (See Enclosure 1).

2.2 **ADDITIONAL SAFETY REQUIREMENTS** In addition to the safety requirements specified in Paragraph 2.1, the following is requisite:

2.2.1 The equipment and its component parts shall be in compliance with applicable CFR 29, Part 1910 Regulation and Standards. By definition, any equipment will be deemed acceptable and approved by PSNS&IMF if it meets specific OSHA conditions outlined in OSHA Part 1910; Subparts "O" and "S". Specifically, equipment will be "Accepted" by PSNS&IMF if it has been inspected and found by a Nationally Recognized Testing Laboratory (NRTL) to conform to specified plans or procedures of applicable codes.

2.2.2 Prior to delivery, installation, and acceptance, the contractor shall provide an OSHA compliance report (see Enclosure 1, para. b. Compliance with OSHA) documenting tests and evaluations performed. Failure to provide this report will delay acceptance of the equipment and may result in rejection for failure to comply with the terms of this contract (see Enclosure 1 for specific OSHA Compliance Report content).

2.3 **ENVIRONMENTAL COMPLIANCE REQUIREMENTS**

- Environmental Compliance Requirements For The Puget Sound Naval Shipyard And Intermediate Maintenance Facility (PSNS & IMF), Bangor Site

2.4 **GENERAL ENVIRONMENTAL REQUIREMENTS**

2.4.1 **Hazardous Material Control** shall include the following:

2.4.1.1 Estimated Contractors Hazardous Material Inventory (CHMI) Table provides quantities of each hazardous material to be used on this project. Copies of all SDS's will be submitted to the Base Environmental Office (BEO) and be kept on site where the work is being performed.

2.4.1.2 Contractor shall not use Hazardous Material (HM) composed of any of the following chemicals or substances: Leads, chromium, mercury, phenols, trichloroethylene, chlorofluorocarbons, halon, PCBs, asbestos, silica sand (for use as blasting agent), Class I ODS, radioactive materials or instruments capable of producing ionizing radiation, and chemicals listed in 40 CFR 355.50 Appendix B.

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2.4.1.3 If additional HM is required for this project, an SDS shall be submitted to the BEO for approval before the HM is brought on board Naval Base Kitsap Bangor. The contractor shall not bring on board Naval Base Kitsap Bangor any HM until approved by the BEO. All containers of hazardous material shall be resealed, placed in a secure area while on base, and transported off base for reuse of material at other contractor projects. The Contractor shall not generate any contractor generated hazardous or dangerous waste on this project.

2.4.2 **Waste Control** shall include the following:

2.4.2.1 A trained individual from the shop with a current Waste Originator certification must be present for each shift that hazardous waste is produced.

2.4.2.2 The shop shall submit completed NBK Bangor Waste Information Specification (WIS) forms for all waste, hazardous and non-hazardous, expected to be encountered during the course of this project. The BEO will provide final waste designation along with WIS instructions. If additional wastes are produced after this plan is approved, waste is encountered not identified, or changes occur to waste streams that have already been assigned a WIS number, a new or updated WIS's for each waste stream must be submitted to the BEO for designation.

2.4.2.3 A hazardous waste label must be affixed to the appropriate container upon the first addition of waste. If more than 55 gallons of Dangerous Waste (DW) or 1 quart of Extremely Hazardous Waste (EHW) is produced, the date must be filled in on the label. All containers must be under the control of the shop and located in the same area the waste is generated.

3 **REQUIREMENTS:**

3.1 **GENERAL DESCRIPTION OF SYSTEM** - This specification covers the minimum government requirements for a "Turn-Key" Vertical Storage Lift.

3.2 **WORK INCLUDED** - The Contractor shall be responsible for the following:

- Design, manufacture, test and groom all equipment required to provide a complete system and in accordance with the requirements specified herein.
- All shipping, crating, and rigging costs associated with the transport and delivery of the equipment specified herein.
- Installation in our facility of the specified equipment with the features identified in this specification. This includes connection of the equipment to required available utilities.
- Provide training to personnel on the proper operation and maintenance of the installed equipment and its component parts.

3.3 **WORK NOT INCLUDED** - The government/receiving activity will provide:

- Air, electrical and other utilities services (within 20 feet) as required for the proper operation of the equipment unless otherwise stated herein.

3.4 **CONDITIONS OF SERVICE AND PERFORMANCE** - The following service and operational conditions shall apply to the equipment delivered under this specification.

3.4.1 **Environmental Conditions** - The specified equipment will be operated in a dust laden indoor industrial environment, and shall be capable of continuous operation over an extended period of time with minimal maintenance and upkeep. The unit shall be designed to operate in a non-air conditioned manufacturing building in an industrial environment.

- Temperature Range: 15 to 110 °F
- Relative Humidity: up to 100% Non-Condensing

3.4.2 **Electrical** - The proposed system shall not require more than 60 AMPS of 480 VAC, single phase, 60 Hz electrical power, in its fully configured and operational state.

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3.4.3 **Compressed Air** - Compressed air available for air-actuated mechanisms is 90 pounds per square inch gage and 100 cubic feet per minute (nominal). If the proposed system requires more air than indicated above, the excess capacity shall be provided as part of the equipment. Any proposed compressed air system shall include a regulator(s) and a filter(s) with an automatic drain.

3.6 **GENERAL EQUIPMENT REQUIREMENTS:**

3.6.1 **Standard, Off The Shelf Components** - All materials and parts comprising the system shall be new, of current design and manufacture, and shall not have been in prior service except as required for factory testing. Standard, off the shelf components with proven reliability shall be used wherever possible to increase performance reliability and reduce costs. The system components shall be one of the manufacturer's current production models which, on the day this solicitation is issued, has been designed, engineered and sold, or is being offered for sale through advertisements or manufacturer's published catalogs or brochures. System components such as a prototype unit, pre-production model, or experimental unit DO NOT qualify as meeting this requirement. The system shall be complete, so that when connected to the utilities identified herein, it can be used for the function for which it is designed and constructed.

3.6.2 **Painting** - All surfaces shall be painted in conformance with the manufacturer's standard practices and good workmanship. Painting shall result in a highly wear-resistant finish, which guarantees continued protection to the surfaces covered against the specified environment under all service conditions. The manufacturer's standard color shall be provided. **Lead base or chromium base paints are prohibited.**

3.6.3 **Caution - Warning Plates** - Corrosion resistant "Caution" or "Warning" plates shall be securely attached to system components in visible locations, with any safety precautions to be observed by the operator or maintenance personnel permanently marked on the plates.

3.6.4 **Identification Plate** - An identification plate shall be furnished with the system. A nameplate shall be affixed to each major component of the system showing the manufacturer's name, equipment model, year of manufacture, and any other pertinent information for identifying the part as a unique component of the system.

3.6.5 **Emergency Stop Button** - The equipment specified herein shall each be provided with an emergency stop button at the operator's station. Replace the existing emergency stop button. This stop button shall be the mushroom type, shall be colored red, and shall be labeled as such. When activated, the emergency stop button shall disconnect all electrical power to the equipment such that the all operations or functions will immediately stop or cease. If the machine utilizes a Programmable Logic Controller (PLC), a "pad lockable" emergency stop button shall be installed (instead of a regular emergency stop button).

3.6.6 All **Electrical Components** including motors, starters, relays, switches, and wiring shall conform to and be located in accordance with the applicable NFPA, NEMA, and ANSI standards for the intended application.

3.6.6.1 **Motors** - Motors (if required) shall be rated for continuous duty. Motors shall be equipped with ball bearings of the sealed and permanently lubricated type. All electrical motors shall meet NEMA-MG1 requirements.

3.7 **EQUIPMENT TO BE PROVIDED - One (1) Vertical Storage Lift (McManus Brothers, Inc., Hanel Lean Lift Vertical Lift Module, Model Lean Lift 3060-635/75/625/40, or equal)** to include the following minimum (or equal) features (with all dimensions being +/- 3 inches):

3.7.1 **The Lift shall fit in a warehouse space that is approximately 120" ~~134.06"~~ wide by 84" ~~88.19"~~ deep by 200" ~~218.8"~~ high. All sides of the module shall be enclosed, and powder coated in light grey (or similar color).**

3.7.2 The systems shall have the capability to store parts/tooling, with 36 pans. Each pan shall have a minimum width of approximately 120", a minimum of depth of approximately 24" and a height of approximately 3" and shall be galvanized, with approximately a 1 inch double floor and a 4.72" fixed front and rear wall. Each pan shall have a minimum payload capacity of 1,378 lbs. Each pan shall be a galvanized, un-slotted pan.

3.7.3 The extractor shall be driven by a four corner, metal chain drive system. This design ensures precise alignment of the extractor when retrieving or returning a pan. It also allows you to place all of the weight in one corner of a pan since it eliminates the tilting and skewing of shelves and containers that could lead to "crashes" caused by lateral tolerances of center supported or belt driven systems

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- 3.7.4 End Frames: The end frames shall be a one piece continuous, non-modular structure.
- 3.7.5 The front and back storage locations shall have the capability to automatically adjust for optimum storage of parts due to the integrated slot wall support design of the upright. The pans/storage locations shall have supports that are positioned approximately every 3 inches, to allow for storage flexibility of various height parts.
- 3.7.6 The system shall automatically adjust the shelf/container height, performed via an advanced microprocessor, and on-board height sensing feature. This shall occur without the need for mechanical or electronic adjustments, and without operator intervention (allowing for optimal storage of parts).
- 3.7.7 The system shall have an Eco-mode programmable energy saving feature that will power down the inactive carousel after a predetermined time of inactivity in four stages or levels. Level 1, the background lighting of the TFT display is turned off. Level 2, the components of the electrical control system are turned off. Level 3, the lighting is dimmed. Level 4, the carousel is turned off at the main switch.
- 3.7.8 The system shall have an optimization run feature with access priority that when activated will relocate the most often used pans or parts closest to the access opening ultimately reducing retrieval times and allowing for increased productivity. It will also create additional space by moving the pans together whenever space opens up between them due to the removal of larger items from a pan.
- 3.7.9 Self-monitoring LVS light curtain shall be installed at the operator access opening. This shall provide safety features that protect the operator from injury when the shelf/container is moving. This feature shall stop the shelf/container from moving, when an operator's hand/arm is in danger of injury.
- 3.7.10 A Multi-layer safety system with a safety bypass system must provide redundant backups for all safeties, height sensors, positioning, and memory to eliminate down time. Backups to include:
- 3.7.11 Safety System Bypass – If the light barrier fails the system will work by operating with the door closed.
- 3.7.12 Height detection override – The unit can still operate if the height the detection fails.
- 3.7.13 Positioning System – System operation can continue utilizing the backup positioning sensors.
- 3.7.14 Access Point Sensor System – The backup sensor allows continued operation if the first sensor fails.
- 3.7.15 Extractor (Lifting Platform) Sensor System – The backup extractor sensor is allows continued operation the first sensor fails.
- 3.7.16 Extractor (Lifting Platform) Limit Switch – Provided the first extractor limit switch at the top or bottom of the storage space fails, the backup limit switch takes over.
- 3.7.17 Shelf Memory – Safe unit operation can be continued without changing the inventory heights if shelf memory fails.
- 3.7.18 Drive Catch (Fingers for engaging shelf travel) Sensor – The second drive catch sensor is activated in a failure with the first sensor.
- 3.7.19 The system must provide at least 4 fail-safe overrides to ensure continuous operation that are easily activated by the operator via a micro-processor control system.
- 3.7.20 Lockable sliding door(s), with keys shall be provided (so stored parts can be secured).
- 3.7.21 An emergency stop button(s) shall be provided at the operator's station that is of the mushroom type and colored red.
- 3.7.22 An operator lighting system shall be provided (i.e. full width florescent lighting) above the access opening.
- 3.7.23 Quality and durable construction of all system components. System structural components shall be rigid and stable.
- 3.7.24 An operator interface station (controller) shall be provided on the Lift that is easy to use, to store/retrieve parts. It shall be a Firmware-based unit, with no moving parts, utilizing industrial-grade compact flash memory

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that is insensitive to dust, dirt, and extreme temperature ranges, to provide high data security with no need for connection to a computer. The Microprocessor control system shall be a standalone database with a full-color touch-screen control and keypad with integrated real-time data browser, providing part and description search, order details, and space utilization information. Transaction logging feature shall provide data on the date, time, processing user, transaction type, quantity transacted, and affected storage location of each pick or put-away process. Provide inventory control features as a standalone unit and can be easily interfaced with external devices such as barcode reader, ID badge readers, and printer. These interfaces/ports will be on the unit already allowing the government to simply plug in a device and have that device work. The control system shall include part number, description, and minimum inventory level, File download capability eliminating the manual entry of information. The system shall be capable of processing kitting or job requests. It shall have the capability to send information to a desktop or printer and receive information from a bar code scanner. It shall also have the capability to hook a computer to it through an Ethernet connection allowing you to work at your desk or at the Lift itself. The controller shall also provide the following functions and capacities: Job management – priority controlled processing with acknowledgement of the quantity actually withdrawn; Storage strategies such as FIFO, FIFO with re-storage, selective access to storage locations, fixed location storage and random storage; Storage location unit size; Automatic size dependent storage location search (free space search); Minimum inventory feature with low stock warning and printout of a reorder recommendation list; Quantity factor and availability check for pick lists; Order picking can be sequential or route optimized (shortest route between all of the units); Storage data retrievable via web browser, partially editable

3.7.25 Each system shall have soft starts and stops.

3.7.26 The operator work surface height shall be approximately 35 inches, with an access opening clear height of approximately 29 inches.

3.7.27 The system shall include an actual weight scale in the opening that weighs the pan at the opening and will not move the pan from the opening if it is overweight. This feature shall not allow a shelf or the total Vertical Lift Storage Module to be overloaded (i.e. via a warning system provided to the operator).

3.7.28 Operations Journal Logging – which shall allow for tracking each transaction (storage to a new location, storage to an existing location, and retrieval).

3.7.29 Item Pool Management – which shall allow descriptive data and reorder points to be electronically sent to the unit, rather than having to type this information at the controller. Also allows for storage of this data without having a storage location assigned within the unit.

3.7.30 Access Code Management – which shall provide individual username/password functionality with the ability to control shelf access to specific users.

3.7.31 Eco-Drive Energy Saving System that converts the kinetic energy of the descending extractor into electrical energy and feeds it back into the electrical supply system. The system returns up to 40% of the energy used for the upward run.

3.7.32 Led light bar with compartment and depth indicators every 6” across the opening to let you know which row an item is in and how many containers back it is. The depth indicator will be numeric. This feature directs the operator to the item assuring that the proper item is picked.

3.7.33 The contractor shall remove/relocate existing overhead heater and light fixtures and electrical conduits/wiring (that feed these fixtures), which interfere with the location of the lifts. The contractor shall coordinate with Authority Having Jurisdiction (AHJ) for HVAC, Fire, and Electrical installation, modifications and outages. The contractor shall coordinate all required outages, inspections, and testing (if required) directly with the AHJ. The contractor shall comply with all required Naval Base Kitsap Safety, Environmental, Quality Control, Base Security, Waste Management and Disposal, and other construction Coordination for required outages, inspections, and testing (if required). Other required minor modifications to the area shall be provided to make the lift function properly (as designed).

3.7.34 The contractor shall provide a stand-alone desktop computer and printer (one computer and one printer) that shall allow an operator to conduct searches on the housed inventory and create printed reports of transactions

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that show date and time, quantities transacted as well as knowledge of the operator who conducted these transactions. Provided equipment (desktop and printer) shall "not" have the capability to be connected into the government's computer network/internet. The computer shall be an Acer Aspire (or equal) AZ3-710-UR52 All in one desktop, with a keyboard and mouse; Intel Core i5-4590T Quad-core 2 Ghz Processor; 23.8" Full HD (1920 x 1080) 16:9 integrated monitor; 8 GB, DDR3L SDRAM; 1 TB HDD. The printer shall be a HP (or equal) Black & White laser printer

3.8 The equipment shall be Nationally Recognized Testing Laboratory (NRTL) inspected and certified (by an OSHA authorized third party). An NRTL certification report shall be provided. If the equipment type/model has already been NRTL inspected and certified, a certification report or documentation mounted on the equipment (which acknowledges it is NRTL certified) shall be provided.

3.9 **CONTRACTOR INSTALLATION AND SET-UP SERVICES TO BE PROVIDED** - The specified equipment and all associated equipment shall be assembled, installed, set-up and tested by the contractor in the area(s) designated as its functional work area by the Receiving Activity Point of Contact. The contractor shall provide all personnel, and supplies necessary for the complete installation and set-up of the proposed system (except as noted elsewhere in this specifications). The contractor shall install a 200 amp power panel (in the room where the vertical lift shall be located). The new 200 amp power panel shall have the capability to power the vertical lift and have the capability to install (at a future date) at least three additional breakers, to supply power for future projects in the area. The contractor shall install approximately 100 feet of conduit and wiring, connecting the building's electrical power panel, to the new 200 amp power panel, and then connecting the 200 amp power panel to the new Vertical Storage Lift. If required, the contractor shall provide/replace an appropriate sized breaker (in the buildings electrical power panel). If an electrical outage is required, the contractor shall complete the necessary outage request(s) and secure approval for the outage, which includes paying a nominal amount for the base operating contractor to secure the utilities. An electrical power disconnect box for the lift shall be provided and installed by the contractor in the vicinity of the lift. The contractor shall relocate/reposition the overhead lighting (so the room shall continue to have sufficient lighting), and move a wall mounted heater. The overhead lighting and heater need to be relocated/repositioned/moved to make room for the new Vertical Storage Lift. All electrical work shall include the contractor providing and installing all required conduit, wiring, bracing, conduit fasteners etc. The contractor shall follow all applicable codes, when installing electrical services. Installation also includes properly mounting the Vertical Storage Lift to the existing concrete floor (with anchor bolts). Installation shall include all additional minor items required to properly install the new Vertical Storage Lift.

3.9.1 **Coordination** - The Contractor shall contact the Receiving Activity Point of Contact with a proposed installation schedule (at least one week before the installation starts). The installation schedule shall be subject to review and approval of the Receiving Activity Point of Contact. Approval of installation schedule shall not relieve the Contractor of any responsibility for performance in accordance with the contract. The Contractor shall coordinate the site preparation and the delivery of materials in a manner which causes minimum disruption/interference with the activity's normal business routine.

3.9.2 **Work Process** - The Contractor shall provide a field supervisor to direct set up and testing. The field supervisor shall have full authority to implement his field decisions in an expeditious manner. No work shall be accomplished when the field supervisor is not in the immediate work area.

3.9.3 **Methods And Schedules** - The work shall be executed in a manner and at such times as to cause the least practicable disturbance to the occupants of the pier/dry-dock/buildings and normal activities of the activity. Before starting any work, the sequence of operations and methods of conducting the work shall have been reviewed and approved by the activity.

3.9.4 **Lifting And Rigger Services** - The contractor shall provide all material handling equipment necessary to unload the specified equipment, transport it to the installation site and any other equipment (such as forklifts, man-lifts, etc.) necessary for continuous support of the removal, transportation and installation of the specified equipment, and shall provide qualified personnel to operate it by the contractor. No cranes shall be used (or forklifts used as a crane).

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3.9.5 **Contractor Site Visit** - The contractor shall make a site visit to the facility prior to submitting a bid. This shall include viewing the existing facility, utilities, etc. The contractor shall have a complete understanding of the requirements for the demolition/installation of the specified equipment (prior to bidding on this project).

3.10 **INSTALLATION SUPPORT SERVICES PROVIDED BY THE GOVERNMENT** - The activity will provide the following in support of the installation:

3.10.1 **Receiving Activity Point Of Contact** - Upon contract award, the receiving activity (Puget Sound Naval Shipyard & Intermediate Maintenance Facility, at Bangor) shall designate a Receiving Activity Point of Contact who shall be responsible for appropriate surveillance and coordination of all services to be performed under this contract. The Receiving Activity Point of Contact shall serve as the contractor's primary contact for all interaction with Government activities.

3.10.2 **Utilities** - Reasonable amounts of water, shop air (80-90 psi) and electricity shall be made available adjacent (within 50 feet) to the assembly site at no cost to the contractor (for temporary use during the installation of the specified equipment). The Contractor shall be responsible for any costs incurred in connecting, converting and transferring the utilities to the work site.

3.10.3 **Storage** - Lay-down area will be provided within the vicinity of installation site for storage of Contractor materials and tools. The Government does not accept responsibility for security of Contractor's materials or tools. The area must be kept clean and orderly, free of rags, paper and other debris. Failure to maintain area in a clean condition may result in the loss of the area. The Contractor shall be responsible to restore the storage area to original condition after use.

3.10.4 **Disposal Of Waste** - Puget Sound Naval Shipyard and Intermediate Maintenance Facility is the owner of all waste (hazardous or otherwise) generated within its facilities. This includes waste generated by contractor personnel while working at Puget Sound Naval Shipyard and Intermediate Maintenance Facility. All waste generated by this contract shall be turned over to the activity for disposal prior to the end of the work shift.

3.11 **ON-SITE PERSONNEL TRAINING SERVICES TO BE PROVIDED** - Within five (5) working days after satisfactory completion of acceptance testing of the system, the services of a qualified representative(s) shall be provided for specialized training to familiarize receiving activity personnel with the equipment and to help ensure reliable performance and maximum service life, during normal usage. All training shall be provided by a factory authorized distributor. Training services shall be rendered at Puget Sound Naval Shipyard and Intermediate Maintenance, Bangor Site Facility. Training shall be scheduled by mutual agreement between the Contractor and the Receiving Activity Point of Contact. Two (2) weeks prior to the start of any training, the contractor shall provide a course outline for government review and comment. Training sessions shall be provided separately for each group/type of government personnel. The contractor shall provide all training manuals and guides. The government shall provide classroom space in close proximity to the equipment/shop (if needed). The entire contractor cost of providing the training (including travel, per diem, etc.) shall be covered by this contract. The training shall apply to personnel as follows:

3.11.1 **Operator Personnel** – Training shall be provided for personnel for a total period of 12 hours, minimum. This training shall include preparation of equipment for operation and actual, safe operation of the equipment. This shall include hands-on inventory data input and other data management system features training.

3.11.2 **Maintenance Personnel (Mechanical/Pneumatic)** - Training shall be provided for personnel at a journeyman mechanic level for a period of 2 hour minimum. This training shall include trouble-shooting and methods of correction if the equipment malfunctions, with particular emphasis on minimizing equipment down time.

3.11.3 **Maintenance Personnel (Electrical/Electronic)** - Training shall be provided for personnel at a journeyman mechanic level for a period of 2 hour minimum. This training, with respect to equipment/controls/drives/interface units and related components, shall include trouble-shooting and methods of correction should equipment malfunction, with emphasis on minimizing equipment down time

3.12 **TECHNICAL DATA TO BE PROVIDED**

3.12.1 **Operator / Maintenance / Repair Manuals** - The equipment shall be furnished with three (3) hard copies of the manufacturer's standard Operation, Maintenance, and Repair Manual(s), bound in durable three ring

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binder(s). The manuals shall include all mechanical and electrical schematics showing discrete components/block diagrams/wiring diagrams with inputs and outputs identified/system electrical interface documents and drawings for the specific model of all machine equipment/drives/controls supplied. The information contained in the manual(s) shall reflect the unit and its components in the "as built" configuration. The information contained in the manual(s) shall be adequate to permit trouble shooting and repair of the equipment by journeymen level personnel. The information contained in the manual(s) shall be in the English language. The information contained in the manual(s) shall be in imperial units of measure.

3.12.2 **OSHA Compliance Report** – As outlined in paragraph 2.2 and Enclosure 1, Safety Requirements For The Puget Sound Naval Shipyard And Intermediate Maintenance Facility (PSNS & IMF), Bangor Site

3.12.3 **NRTL Certification Report** – As outlined in paragraph 2.2.1 and paragraph 3.8

3.13 **WARRANTY** - Supplies and services furnished shall be covered by warranty from defects in design, materials and workmanship. The warranty shall be the manufacturer's standard commercial warranty, which shall conform to all the requirements of the contract. Acceptance of the manufacturer's standard commercial warranty shall not minimize the rights of the Government under clauses in the contract, and in any conflict that arises between the terms and conditions of the contract and manufacturer's warranty, the terms and conditions of the contract shall take precedence. The warranty period shall be for 3 years. The warranty period shall commence from the date of acceptance. All warranty work shall be provided by a factory authorized distributor.

4 **QUALITY ASSURANCE PROVISIONS**

4.1 **RESPONSIBILITY FOR INSPECTION** - The Contractor shall be responsible for the performance of all inspection requirements (examinations and tests) as specified herein. The Government reserves the right to perform any of the inspections set forth in this specification, where such inspections are deemed necessary to assure supplies and services conform to the prescribed requirements.

4.2 **RESPONSIBILITY FOR COMPLIANCE** - All items shall meet all requirements of this specification. The inspection(s) set forth in this specification shall become part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspections, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements; however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.3 **INSPECTION/TESTING AT ORIGIN** - Basic performance tests (prior to shipment) shall be conducted by the manufacturer on the primary equipment and all associated equipment to the extent practicable, to demonstrate functionality, to ensure contract requirements are being met. The tests may be performed by the Contractor, either by personnel of their service organization directly, or by an independent testing agency. The contractor shall contact the government two (2) weeks before the completion of the manufacturing of the specified equipment. This shall allow the government the option of sending their technical representative(s) to witness the tests, and to ensure contract requirements are being met, prior to shipment of the unit to the government.

4.4 **INSPECTION/TESTING AT DESTINATION**

4.4.1 **Initial Test And Grooming** - The equipment delivered with the system shall be inspected by the Government for mechanical and electrical integrity as follows: All welds shall be inspected for integrity and appearance. Surfaces shall be examined for sharp edges and burrs. Fasteners shall be checked for tightness and if fixed to prevent loosening due to vibration. Paint will be checked for flaking and blistering. Electrical requirements shall be examined for compliance to the National Electrical Code, (NFPA 70/79). The fit of parts shall be observed, with particular reference to the interchangeability of those that are likely to require replacement. Faults will be duly recorded and presented to the contractor for rectification.

4.4.2 **Operational Tests** - Upon satisfactory completion of the tests above, the equipment shall be set up for an operational test and evaluation. The contractor shall demonstrate the ability of the equipment to perform as required in this specification. All equipment functions shall be exercised to the extent necessary to prove proper operation in accordance with specification requirements. The system shall function, without failure, for the duration of this test

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period. If a failure occurs during the test period, repairs shall be immediately affected by the Contractor, and the tests shall be restarted from the first test. Three failures without completion of the test period shall be considered cause for rejection of the system. For the purpose of this test, a "failure" is defined as any equipment malfunction, which requires remedial action to restore the system to full operation in accordance with contract specifications.

4.5 **PROVISIONS FOR REPAIR AND RETEST** - In the event of a test failure, the contractor, at their discretion, may elect to correct the failed condition and request a retest of the system (vs. shipping the equipment back to the manufacturer for repairs).

4.6 **FINAL ACCEPTANCE** - Final acceptance shall be upon satisfactory completion of installation, inspection and testing of the system (as outlined in this specification).

5 **DELIVERY**

5.1 It is required that all goods and services provided by this solicitation be delivered prior to 120 days of contract award.

5.2 The Surveillance Officer shall be notified no less than 48 hours prior to the arrival at the site of the specified equipment and/or contractor personnel.

5.3 Material transportation from the manufacturer's facility to the work site shall be the responsibility of the contractor. Limited secured storage areas at the facility will not permit the Government to store material for extended periods of time. Early shipment of materials, without the permission of the receiving activity shall be refused.

5.4 **Packing Material** - The use of shredded paper, whether newspaper, office scrap, computer sheets, or wax paper, in packing material for shipment to Navy activities, is prohibited.

5.5 It is the Government's intent that the Contractor delivers a fully operational and functional system meeting the requirements stated herein prior to acceptance by the receiving activity and final payment by the government. Delivery of this system shall occur when all deliverable items of this contract have been received, installed and made operational **and** the contractor has demonstrated and the receiving activity has confirmed that the system meets or exceeds the requirements set forth in this specification and is ready for Government use.

6 **GENERAL NOTES**

6.1 **RESPONSE TO REQUEST** - As a part of the response to this request, descriptive literature (in accordance with FAR 52.214-21) shall be furnished in sufficient detail to show that the proposed design will meet these specifications. Vendor submittals shall include brochures of the model being submitted, assembly sketches with critical dimensions, sketches (with dimensions) of all tooling provided, statements of compliance with specification, and performance statements with special attention to the key performance criteria stated herein.

6.2 **ADMITTANCE TO THE WORK SITE:**

6.2.1 Upon contract award, employees or representatives of the Contractor (including sub-contractors) who may require access to the Receiving Activity's facility and shall be admitted to the work site only after they have been issued a security pass/ID badge.

6.2.2 Contractor personnel requiring access inside of PSNS & IMF, Bangor Site facilities shall complete and submit a "Foreign Ownership, Influence or Control (FOCI) Questionnaire". The contractor can receive a blank copy of the questionnaire from, and then submit the completed questionnaire to PSNS & IMF Security Assistant, Larry Schofield; larry.schofield@navy.mil. FOCI Questionnaires must be sent a of minimum (5) business days before arrival.

6.2.3 Contractor personnel visiting for less than five days (including one-day visits), shall contact the Receiving Activity Point of Contact to schedule a visit(s), and shall provide the following information:

- * Full Legal Name
- * US Citizen (Yes/No)
- * Company Name

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6.2.4 Contractor personnel visiting for five or more days shall request security badge requests through the on-line Base Authorization and Visit Request (BAVR) computer system. Go on line to "<https://www.bavr.cnmc.navy.mil/>", and submit a request for a badge, a minimum of five business days prior to arrival. The "Command you are visiting" is: NAVIMFAC. The "Sponsor E-Mail" for an on-line badge should be: larry.schofield@navy.mil (Larry Schofield, 360-315-1187). In the "Purpose of Visit" box, please add the person and the building you are visiting. If the BAVR computer system doesn't work, all visiting personnel shall contact the Receiving Activity Point of Contact to schedule a visit(s), and shall provide the following information:

- * Full Legal Name
- * US Citizen (Yes/No)
- * Company Name

6.2.5 Securing security badges shall require visiting personnel to make daily stops at security pass/ID building (located next to the base's main gate) to pick-up a daily security/ID badge. To avoid having to pick-up a security/ID pass daily, and to secure a longer term security pass/ID badge, visiting personnel would need to secure a RAPIDGate pass (for access to the perimeter gates). Information about RAPIDGate passes can be found at the following web site: <http://www.RAPIDGate.com>. There are costs associated with securing RAPIDGate passes. The RAPIDGate pass "sponsor" (and POC for security questions) for our location (NAVIMFAC, also called PSNS & IMF, Bangor Site) is Larry Schofield, larry.schofield@navy.mil, 360-315-1187. Contact information regarding RAPIDGate passes information/questions is Email: info@eidpassport.com; Phone: Toll Free 1-855-243-8343; Local: 1-503-924-5300.

6.2.6 Contractor personnel requiring Pier/Waterfront Restricted Area access are required to have a BAVR Badge. A BAVR request must be submitted a minimum of five business days before arrival. Government unescorted access will be given to only those contractors with a security clearance / BAVR approval for Pier/Waterfront Restricted Area workspaces/facilities; All others will require authorized escorts. Contractor personnel may be required to hire (pay for) escorts (when visiting the Pier/Waterfront Restricted Areas). Please contact the Receiving Activity Point of Contact for information about securing authorized escort services.

6.2.7 A Security Pass/ID Badge is obtained by visiting the Security Pass/ID building (located next to the base's main gate), and showing one of the following original documents:

- * Certified Birth Certificate
- * UNEXPIRED Passport/Passport Card
- * Alien Registration Card
- * Enhanced Driver's License
- * Naturalization Papers
- * Statement of Birth Born Abroad

Note: If a document does not have a photo, state-issued photo identification (i.e. Drivers License or ID cards) must also be shown.

6.2.8 **Notice:** Persons who are currently on probation or parole from a felony conviction, or has a past gross misdemeanor or felony in the past ten years cannot qualify for security clearances, and will be denied access to the activity

6.2.9 It shall be the Contractor's responsibility to collect and account for all identification passes issued to their personnel at the expiration of the contract or when access is no longer required.

6.2.10 **Foreign Nationals or Affiliations** - Foreign Nationals (non U.S. Citizens) or persons affiliated with, or employed by, a foreign, or foreign owned company will not be granted access without proper Commanding Officer's written approval.

6.2.11 **Identification.** All Contractors shall clearly identify themselves as contractor personnel.

6.3 RESTRICTIONS:

6.3.1 **Parking** - Vehicles and equipment required by the Contractor to complete this contract must be registered with Security. Forms for obtaining vehicle passes and permits may be obtained from the Receiving Activity Point of Contact. Parking is available at or near the work site or at other authorized areas on the station. Contractor vehicles

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must be marked on the outside with the company name or logo or both. Failure to comply will result in ticketing and/or loss of vehicle privileges.

6.3.2 **Regular Working Hours** - All work is to be performed during PSNS & IMF, Bangor Site's regular work hours from 6:30 a.m. to 3:00 p.m., Monday through Friday except for Federal Holidays. If the Contractor desires to work on Saturdays, Sundays, holidays, or outside the regular or specified hours/days, the Contractor shall submit a request to the Receiving Activity Point of Contact, for approval a minimum of two (2) working days prior to the anticipated work date. In no event shall a Contractor carry on work outside the hours and days specified in the contract without prior approval.

6.3.3 **Restricted Colors** - PSNS & IMF, Bangor Site uses the colors magenta and yellow to identify specially controlled materials. The Contractor is specifically prohibited from using magenta and yellow colored plastic wrapping materials or bags, tape, or other covering materials.

6.3.4 **Radio Restrictions** - Operation of privately owned citizens band or amateur radio equipment (receive and transmit) within the geographic limits of the activity is prohibited. All radio equipment installed in privately owned motor vehicles must be turned off upon entering the premises.

6.3.5 **Contractor Electronic Devices** – Use of such devices, including cell phones, and computers shall not be capable of photography or digital recording by contractor personnel at PSNS & IMF, Bangor Site is restricted. This includes personally owned Portable Electronic Devices (PEDs) that are used for storing data, including but not limited to removable storage devices (e.g. memory sticks rewriteable CDs and DVDs, Zip and floppy disks). Contractors requiring such devices in the performance of this contract shall have the equipment inspected and approved by the PSNS & IMF Information Assurance office, located in Bremerton, WA. If this equipment is needed, it must comply with the photography regulations. Please contact Aaron Young at 360-315-5112, aaron.c.young@navy.mil to make a request. Please allow 5 business days for appointments with PSNS & IMF cyber security to be made.

6.3.6 **Photography/Recording** - Contractor personnel are prohibited from having personal reproduction equipment of any kind, including but not limited to photocopying, copying, and/or recording devices. This includes photographic equipment, tape recorders, or other recording devices in their possession while inside the Operations Area (OA). Contractors requiring the use of photographic equipment in PSNS & IMF, Bangor Site spaces must request authorization through the IMF security office. Please contact Aaron Young at 360-315-5112, aaron.c.young@navy.mil to make a request.

6.3.7 **Prohibited Items** - The items listed below are prohibited (and includes any other item, which the possession of is prohibited by Federal, State or municipal law, Department of Defense or Department of Navy instruction directive or policy).

6.3.7.1 Weapons or other dangerous materials of any kind, including by not limited to firearms, ammunition, knives (blades longer than 3-inches), explosives, incendiaries, personal defense aerosols/sprays.

6.3.7.2 Alcoholic Beverages of any kind and illegal to include marijuana.

7 **PERSONAL HEALTH AND SAFETY**

7.1 The Contractor shall provide their employees with all necessary safety equipment during the performance of work on this contract, and ensure their employees follow safe work practices. All contractor personnel shall have in their possession and shall properly wear OSHA approved personnel protective safety equipment (i.e. hard-hats, steel-toe safety shoes, safety glasses and hearing protection). The Contractor shall provide all appropriate safety barricades, signs, and signal lights required to properly isolate the area of work.

7.2 All Contractors shall clearly identify themselves as contractor personnel.

7.3 **Medical Treatment.** Government emergency vehicles and medical personnel shall only be used in emergency situations affecting contractor personnel whose life may be in danger or who are seriously injured.

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Government facilities may be used in these instances as the first point of treatment. Transfer to a non-Government medical treatment facility shall be made as soon as possible and as determined by attending medical authorities.

8 WORK SITE INFORMATION

8.1 **Regular Working Hours/Shifts.** Regular working hours is normally 8 hours (0630-1500), with a 30-minute lunch break, Monday through Friday. Working hour variations may be requested by contractor personnel, and approved by the Receiving Activity Point of Contact.

8.2 **Holidays and Shutdown Periods.** All shutdown periods, when directed by the Commanding Officer, are normally associated with holidays or inclement weather. Naval Base Kitsap policy is to continue operations during adverse weather. Severe weather may cause an electrical power outage, or snow, ice, or wind conditions may cause the base to remain closed. Other shutdown periods may be declared by Executive Order. Contact the Surveillance Officer regarding severe weather or Executive Order shutdown information. The contractor shall not be required to work during designated shutdown periods. Holidays observed by the contractor shall include all legal holidays observed by the Government. These holidays are:

New Year's Day	Labor Day
Martin Luther King Day	Columbus Day
President's Day	Veterans' Day
Memorial Day	Thanksgiving Day
Independence Day	Christmas Day

8.3 Overtime is not authorized. Overtime is defined as hours worked in excess of the employee's normal workweek. The normal workweek is defined as forty (40) hours.

8.4 Nothing contained in the specifications shall relieve the Contractor from complying with applicable Federal, state, and local laws, codes, ordinances, and regulations, including the obtaining of licenses and permits that may be required for the Contractor or Subcontractor(s) to perform a particular function, such as hazardous waste handling or disposal, for example.

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ENCLOSURE 1

**SAFETY REQUIREMENTS FOR THE PUGET SOUND NAVAL SHIPYARD AND INTERMEDIATE
MAINTENANCE FACILITY, BANGOR SITE**

SCOPE

These specifications provide safety information and procedures required for any work performed at Puget Sound Naval Shipyard and Intermediate Maintenance Facility (PSNS & IMF), Bangor Site. This does not include additional safety requirements from Naval Base Kitsap at Bangor which is the host activity at Bangor.

APPLICABLE DOCUMENTS

The following documents form a part of this specification. Unless otherwise indicated, the issue in effect on the date of a request for proposals or request for quotes shall apply.

National Fire Protection Association (NFPA)

NFPA 54	National Fuel Gas Code
NFPA 70	National Electric Code
NFPA 79	Electrical Standards for Industrial Equipment

Code Of Federal Regulations

29 CFR 1910	Occupational Safety and Health Standards
29 CFR 1915	Occupational Safety and Health Standards for Shipyard Employment
29 CFR 1926	Safety and Health Regulations for Construction

(Application for copies should be addressed to Superintendent of Documents, Government Printing Office, Washington, DC 20402)

Washington State Administration Code (WAC)

WAC 173-60	Maximum Environmental Noise Levels
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I. GENERAL REQUIREMENTS

- a. All documentation/correspondence and/or communication specified in these specifications shall be submitted to the Contracting Officer or their designated Government Representative.
- b. **Mutual Understanding Meeting. Prior to commencing work:** The Contractor shall meet in conference with the Contracting Officer, and other necessary Government personnel to discuss and develop mutual understandings regarding administration of the Safety Program, methods and schedules, security, and any other subject necessary for a smooth and successful operation.
- c. **Environmental & Safety Compliance, General Awareness Training, and Regulatory Interface**
 1. Contractors working at the PSNS & IMF are required to perform their work in compliance with all Federal, State, and local regulations pertaining to the environment at all times.
 2. The contractor is responsible for complying with the safety regulatory notices or orders, including payment of any fines attributable to the contractor's conduct, regardless of whether or not the contractor is the name recipient of the notice, order, or fine.

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3. The contractor is responsible to perform all duties and responsibilities for environmental and safety compliance set forth in this contract. The Contracting Officer can use failure to comply with the responsibilities for environmental and safety requirements as a basis for termination for default.

4. Failure to comply with or repeated violations of local, state, or Federal regulations can result in the violator(s) losing their access to PSNS & IMF or the operation being suspended until the Contractor can provide properly trained personnel. Certification of training shall be presented upon request by the Contracting Officer. The contractors (including its employees) loss of access to PSNS & IMF will not be considered by the Contracting Officer as a basis for an adjustment to the contract for additional costs incurred by the contractor.

5. The contractor shall be responsible for conducting routine inspections of the work and storage areas to maintain compliance with the cleanliness and safety requirements associated with this contract.

d. Definitions – Technical:

1. **Contractor.** The term Contractor refers to both the prime Contractor and subcontractors. The prime Contractor shall ensure that his/her subcontractors comply with the provisions of this contract

II. HEALTH AND SAFETY

a. Personal Health And Safety

Contractor work performed at PSNS & IMF is typically in an industrialized area and is subject to OSHA Standards. The contractor shall conduct all work in a safe manner and shall provide all necessary safety equipment.

The contractor shall make the maximum use of low-noise emission equipment as certified by the Environmental Protection Agency. Applicable regulatory requirements for maximum environmental noise levels are published in the Washington Administrative Code, WAC 173-60. The contractor shall provide hazardous noise signs and label equipment wherever work procedures and equipment produce sound-pressure levels greater than 84 dB(A) steady state and/or 140 dB peak sound pressure level for impact or impulse noise, regardless of the duration of the exposure.

b. Compliance With OSHA

Contractor's personnel shall perform all work in accordance with the most current OSHA rules and regulations issued by the Department of Labor, as applicable.

For all electrical equipment installation, the equipment and its component parts shall be in compliance with the applicable OSHA regulations in accordance with CFR Title 29, Chapter XVII, Part 1910 and installed in accordance with NEC/NFPA requirements. Approval shall be as specified under the "Approval" and "Acceptance" criteria in the OSHA regulations Subpart "O", Machinery and Machine Guarding paragraph 1910.212 and Subpart "S" Electrical, paragraph 1910.303 and paragraph 1910.399. After equipment delivery and installation, and prior to testing, the contractor shall provide an OSHA Compliance Report. Failure to provide this compliance report will delay acceptance of the equipment, and could result in rejection for failure to comply with the terms of the contract. This report documents the results of all tests performed, provides an assessment of the equipment performance for compliance with the contract requirements, and forms a basis for recommending a safety certification. The report, test and evaluation shall be a composite of those inspection requirements specified in the contract. The report shall be prepared in an orderly manner to clearly and accurately set forth the collected data and conclusion resulting from these inspection requirements, opinions and subjective conclusions shall be clearly identified. The report shall include, but is not limited to, the following:

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- * List of all tests performed and by whom witnessed.
- * List of data used for evaluation.
- * Tabulation of all discrepancies related to specification performance requirements.
- * Description of limitations revealed by data utilized.
- * Actions taken to mitigate each discrepancy and limitation.
- * Recommendations for subsequent actions.
- * Summary conclusions.
- * Manufacturer Certification that equipment has been manufactured and installed in compliance with OSHA CFR 1910.399 (per definition of “acceptable”).

The contractor shall ensure all hazardous material (e.g. hydraulic oil, lubricants, grease, ink, paint, etc.) that is delivered with the equipment, is properly labeled and a Material Safety Data Sheet (MSDS) for each hazardous material is provided, as outlined in OSHA paragraph 1910.1200. MSDS(s) shall be delivered to the Receiving Activity Point of Contract/Surveillance Officer (who will deliver the MSDS(s) to the appropriate Hazardous Material Coordinator for addition of the material to the shop Authorized Use List, and possibly have the material labeled (by the government) with a Hazardous Material barcode).

c. PCB Certification

Provide written certification from the manufacturer that any new equipment provided by this contract contains no detectable PCBs (less than two (2) parts per million (ppm)). The certification shall be on the manufacturer’s letterhead and signed by a company official who is empowered to provide same. **PCB Label Plate** – A label plate containing the PCB Certification information shall be permanently affixed to the equipment in the vicinity of the manufacturer’s identification plate. The certification label shall be engraved or etched on wear and corrosion resistant material.

d. Safety Equipment

During the performance of work under this contract, all contractor personnel shall have in their possession and shall properly wear OSHA approved personnel protective safety equipment (i.e. hard-hats, steel-toe safety shoes, safety glasses and hearing protection).

The Contractor shall provide all appropriate safety barricades, signs, and signal lights.

e. Safety Inspections

The contractor’s workspace may be inspected periodically for compliance with OSHA Standards.

Abatement of violations will be the responsibility of the contractor and/or the Government as determined by the Contracting Officer.

The Contractor shall provide assistance to the Safety Office escort and the federal OSHA inspector if a complaint is filed. Fines levied on the Contractor by federal OSHA offices due to safety/health violations shall be paid promptly by the Contractor.

f. Energy Control

Prior to commencement of ashore work, the contractor shall provide their 29 CFR 1915.89 compliant program/procedures to the Government's Representative. The contractor is required to meet with the Government's Representative and all affected Lockout-Tags-Plus Coordinators to discuss and coordinate lockout/tags-plus interfacing and work requirements.

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The contractor shall notify all employees working in the area that Hazardous Energy Control work will be performed.

Contractor personnel shall ensure Hazardous Energy Control training is current and complies with 29 CFR 1915.89.

Equipment provided by the contractor shall provide energy isolating devices (e.g. safety switches valves, etc.) to protect personnel from Hazardous energy. These energy isolating devices shall be designed and manufactured such that they can be locked to prevent inadvertent operation or unauthorized change. The contractor shall ensure all energy isolating devices installed or modified are capable of being locked. To include, but is not limited to, manual, mechanical and electrical devices.

Contractor personnel are required to know and understand all energy sources associated with their work, the means to control these sources of energy and to render the system inoperative before work can begin.

Government organizations representatives shall ensure adherence to the "Organizations that issues contracts" section located in OSHE Control Manual Chapter 250 Hazardous Energy Control.

Government representatives shall also make certain all contractors understand "Contractors and other Non-Shipyard Government Organizations Shall" section of the OSHE Control Manual Chapter 250 Hazardous Energy Control.

Contractor personnel are also required to know the Hazardous Energy Control policy that PSNS & IMF employees are working to.

g. Audible Noise Levels

The peak audible noise emitted by the equipment being installed by the contractor shall not exceed 84 decibels at the operators work position, nor at any other point at a distance of three feet from the equipment, as measured on the "A" weighed scale of a standard sound level meter under all operating and service conditions.

h. Accident Reporting

The contractor shall submit to the Contracting Officer, using the cognizant regulatory agencies prescribed forms, exposure data and all accidents resulting in death, trauma, or occupational disease. Accident reports shall be submitted within 24 hours of their occurrence.

The contractor shall submit to the Contracting Officer a full report of damage to Government property or equipment by Contractor employees. Damage reports shall be submitted within 24 hours of the occurrence.

i. Emergency Medical Care

Only emergency medical care is available in Government facilities to contractor employees who suffer on-the-job injury or disease. Care will be rendered at the rates in effect at the time of treatment. Reimbursement shall be made by the contractor to the Naval Regional Medical Center Collection Agent upon receipt of statement.

j. Fire Protection

The contractor and his employees shall know where the fire alarms are located and how to turn them on. The contractor shall handle and store all combustible supplies, materials, waste, and trash in a manner that prevents fire or hazards to persons, facilities, and materials. Contractor employees operating critical equipment shall be trained to properly respond during a fire alarm or fire.