

GENERAL REQUIREMENTS

1. SCOPE

1.1 Scope. This standard specification describes the general requirements for the Contractor to conduct availabilities of Coast Guard vessels.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740 STD, Welding and Allied Processes, 2001 Edition

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 1001 STD, Temporary Hull Accesses, 2001 Edition

Code of Federal Regulations (CFR), Title 29 (Labor), Subtitle B (Regulations Relating to Labor), Part 1910 - Occupational Safety and Health Standards for Shipyard Employment, 1 Jul 2000 Edition

Code of Federal Regulations (CFR), Title 29 (Labor), Subtitle B (Regulations Relating to Labor), Part 1915 - Occupational Safety and Health Standards for Shipyard Employment, Subpart B (Confined and Enclosed Spaces and Other Dangerous Atmospheres in Shipyard Employment), 1 Jul 2000 Edition

Code of Federal Regulations (CFR), Title 29 (Labor), Subtitle B (Regulations Relating to Labor), Part 1915 (Occupational Safety and Health Standards for Shipyard Employment), Subpart I - Personnel Protective Equipment (PPE), 1 Jul 2000 Edition

Code of Federal Regulations (CFR), Title 29 (Labor), Standard 1926.62 (Lead), SubPart D (Occupational and Health Controls), 1 Jul 2000 Edition

Code of Federal Regulations (CFR), Title 40 (Protection of Environment, Chapter I - Environmental Protection Agency, 1 Jul 2000 Edition

The Residential Lead-Based Paint Hazard Reduction Act of 1992, Title X

National Fire Protection Association (NFPA), 70, National Electric Code (NEC), 1999 Edition

National Fire Protection Association (NFPA), 312, Fire Protection of Vessels During Construction, Repair, and Lay-Up, 2000 Edition

3. REQUIREMENTS

3.1 General. The Contractor shall conduct the availability as specified herein and in the text of the specification.

3.2 Order of precedence. The Contractor shall be aware that in the event of a conflict between the text of the specification and the applicable references, order of precedence shall be as listed below. Nothing in these documents, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

1. The text of the specification.
2. Other contract documents.
3. Drawings.
4. Publications and industry standards.
5. Federal and military specifications and standards.

3.3 Planning document. The Contractor shall accomplish the following:

3.3.1 Provide a legible Planning Document with the following characteristics:

- Graphical (see Fig. 1 below) in format.
- Shows overall period of performance for each CLIN, with start and stop dates of major sub-tasks.
- Due dates for Critical Inspection Reports (CIR) and any events requiring Coast Guard Inspector presence.

3.3.2 Submit 3 copies to the COR at the Arrival Conference and at all weekly Progress Meetings. A separate document, specifically prepared for the Government is not desired or required. A copy or summary of the Contractor's internal scheduling document is preferred.

restore removed interferences upon completion of work. The Contractor may exercise the discretion to work around certain interferences, when possible, so long as the specified work is successfully accomplished.

3.6.1 Requirements for handling of restricted interferences.

Before removing restricted interferences (see 5.1.19 (Restricted interferences)), submit to the COR a written plan for the removal of said interferences, 48 hours before removal process is begun. Ensure the plan includes:

- Procedures for removing the interferences.
- Time at which interferences will be restored.
- Alternate arrangements, as necessary, to minimize the crew's inconvenience, or to alleviate the hazardous conditions.

3.6.2 Labeling and stowing requirements. The Contractor may stow removed interferences onboard the vessel; however, location and condition of stowage shall be approved by the COR. When stowing onboard the vessel is not practical, the Contractor shall stow interferences in a suitable shore side stowage. Ensure that all stowed items are tagged with removable tags, or stenciled with paint, with the following information:

- Vessel name.
- Location from which items have been removed.

3.6.3 Safety measures. Exercise the below-specified safety precautions, to eliminate hazardous conditions, during the following conditions:

- When hatches or scuttles and lifelines or liferails are removed as interferences.
- When electrical circuits serving ladders and passageways are removed or disconnected as interferences.

3.6.3.1 Temporary covers for deck openings. Install a suitable plate or cover over each resulting deck opening, to prevent injury to personnel, and protect the vessel's interior spaces and equipment against outside contamination. When covering a deck opening left from a removed hatch or scuttle, ensure that the cover is configured to allow normal passage of ship's personnel and equipment.

3.6.3.2 Temporary lines or rails. Install temporary lines or rails to replace all removed lifelines or liferails.

3.6.3.3 Temporary lighting. Install temporary lighting circuits, and equip all lamps used in temporary lighting with suitable fixtures or lampholders with guards.

3.6.3.3.1 Protect flexible cords and cables from damage by avoiding pinch points and routing to eliminate tripping hazards. Do not route lighting cords through watertight access.

3.6.3.3.2 Install suitable disconnecting switches or plug connectors, to permit disconnection of ungrounded conductors in each temporary lighting circuit.

3.6.4 System restoration. Ensure that all ship spaces or compartments, components, or equipment damaged or exposed by interference removals are restored to original conditions in form, fit, function, and appearance. Renew the following components or disturbed portions of systems, as applicable, when reassembling or reinstalling affected systems:

- Gasket materials.
- Insulation material previously installed with adhesive.
- Deck covering systems.

3.7 Pier or wharf facility. Unless in drydock or at the vessel's home pier, the Contractor shall provide a secure pier or wharf during the performance period of the contract. The pier or wharf shall have adequate clearance to safely accommodate the vessel being moored.

3.7.1 Water depth. Ensure that water depth is sufficient at the pier to ensure the vessel's lowest underwater appendage clears the bottom by at least two feet at:

- Ordinary low water mark on non-tidal rivers
- Mean low tide conditions for tidal rivers and other navigable waterways (Bay, Lake, etc.)

3.7.2 Construction. Ensure that the pier or wharf is adequately constructed and conditioned to support weight-handling gear such as cranes, forklifts, and delivery vehicles, necessary for the completion of the specification requirements; and load limitations are clearly identified and marked in a conspicuous location.

3.7.3 Collision protection. Provide a fender system to prevent the vessel's sides from chafing and colliding with the pier or wharf while moored at the Contractor's facility. Ensure that no other vessel is moored alongside the vessel without specific permission from the COR.

3.8 Vessel access. The Contractor shall provide a minimum of two means of access or egress to the vessel, at the Contractor's facility, in accordance with 29 CFR 1915, and summarized as follows:

3.8.1 Gangways. At a minimum, gangways shall:

- Have adequate walking surface width and strength and be safely secured.
- Have a railing, with a mid-rail, on each side of the gangway, and a turn table if necessary.
- Have substantial steps properly secured and equipped with at least one handrail, when the upper end of the gangway rests on or is flush with the top of the bulwark of the dock.
- Have nets or other suitable protection on both sides, when there is a danger of personnel falling between the ship and the dock.
- Be kept properly trimmed at all times.
- Be adequately illuminated for its full length.

3.8.2 Gangway alternative. If gangways are not practicable, propose a an alternative for COR approval.

3.8.3 Obstructions. Do not lay obstructions on or across the means of access/egress. Do not pass loads or cargo over the means of access/egress while personnel are on them.

3.9 Sewage and sanitary facilities. When the shipboard sewage and sanitary drain systems are shutdown for any repairs required by the contract specification package, provide the following, within the Contractor's facility, for the Ship's Force use only:

3.9.1 Shower and sink facilities. Provide a clean, secure, well-lit, and climate controlled shower and sink facility within a five minute walk of the vessel. For vessels with a mixed gender crew, provide separate shower and sink facilities for each gender. The shower and sink facility shall:

3.9.1.1 Furnishings. Have the following furnishings:

- Two shower stalls with privacy screens.
- Two sinks, with fresh hot and cold water.
- At least two private toilets.
- Four lockers and four chairs.
- Electrical convenience GFI receptacles, in accordance with the NFPA 70, National Electric Code (NEC).

3.9.1.2 HVAC. Be equipped with heating, filtered ventilation, and air conditioning to maintain interior temperatures in the 65 to 78 degree Fahrenheit range, and have local climate control for the user.

3.9.1.3 Maintenance and security. Be cleaned by the Contractor at least once daily and be lockable from the inside. Provide two keys for locking the facilities to the COR.

3.9.2 Portable toilets. When permanent facilities are not available, provide the number of portable toilets specified in Table I below. Clean and empty the portable toilets daily, and locate the portable toilets as close as reasonably possible to the vessel, but not to exceed 100 yards from the vessel and from the office space (if provided).

TABLE I. PORTABLE TOILETS.

VESSEL		PORTABLE TOILETS (QTY)
LENGTH (feet)	TYPE	
65	WLI	2
	WLR	2
	WYTL	2
75	WLIC	2
	WLR	2
82	WPB	2
87	WPB	2
100	WLI	2
	WLIC	2
110	WPB	2
133	WLM	3
140	WTGB	2
160	WLIC	2
175	WLM	4
180	WLB	5
210	WMEC	5
225	WLB	5
270	WMEC	5
290	WAGB	5
295	WIX	3
378	WHEC	5

3.10 Coast Guard inspection. For work requiring Coast Guard presence during a test or inspection, the Contractor shall provide at least 24 hours notice to the COR.

3.11 Reports. The Contractor shall submit all written Condition-found reports as follows:

3.11.1 Critical Inspection Reports (CIR). When a CIR is specified in a work item, provide it to the COR within the first 25 percent of the availability contract period.

3.11.2 Unexpected conditions. Provide a report within 24 hours of discovery of the unexpected conditions.

3.11.3 Routine inspection reports. Provide all other inspection reports specified in individual work items within the first 40 percent of the original availability contract period.

3.11.4 Minimum inclusions. Include the following details as a minimum in each condition-found report to facilitate the contract-change process:

- Sequential number to indicate order of submission.
- The Contract Line Item Number (CLIN), SubCLIN (e.g. "AA"), and title to which the condition-found report relates. For example, the first condition-report submitted may be for:
0001(AA) Propulsion Shaft (Remove, Inspect, and Install)
- A clear description of the condition found, including but not limited to frame numbers, part numbers, materials, and dimensions as appropriate.
- A recommended repair to correct the defective condition, including but not limited to frame numbers, part numbers, materials, and dimensions as appropriate.
- Indication whether Coast Guard contractual action is required or if the report is provided "for information only." When Coast Guard action is required, indicate the response time needed to avoid a contract extension and how many additional days past the scheduled completion date the added work will require.
- Space on the form for the Coast Guard EO or EPO to make comments.
- Signature of the Contractor Ship Superintendent, including date of signature and condition-found report submission.

3.12 Contractor-furnished materials. The Contractor shall ensure that all Contractor-furnished materials are new, unused, and have unexpired shelf-life dates. Utilize recoverable materials as practicable in accordance with the Environmental Protection Agency (EPA) guideline recommendations.

3.13 Protective deck covering material. The Contractor shall provide suitable protective deck covering material over all

vessel interior passageways, work areas, and living spaces used to access work sites on the vessel, with the following characteristics:

- Fire resistant.
- Able to protect the deck from any contractor work.
- Durable.
- Anti-slip and anti-trip.
- Quick and easy to fit and remove.
- Waterproof and resistant to moisture and chemicals.
- Environmentally friendly and re-usable.
- Tear-resistant (does not rip when walked on).

3.14 Asbestos abatement compliance. When removing asbestos-containing materials, the Contractor shall comply with the personnel health and safety requirements of CFR Title 29, Part 1915, Subpart B, CFR Title 40, Chapter I, and all other applicable Federal, state, and local regulations. When there are conflicts among Federal, State and local laws, the more stringent shall apply.

3.15 Lead abatement compliance.

3.15.1 Personnel health and safety. The Contractor shall be aware that lead-based paint (LBP) is, as defined in the Residential LBP Hazard Reduction Act, applied paint or other surface coatings that contain lead in excess of 1.0 milligram per centimeter squared, or 0.5 percent lead by weight, or 5,000 parts per millions (ppm); consequently, the Contractor shall comply with applicable Occupational Safety and Health Administration (OSHA) requirements contained in 29 CFR 1915.1025 and 29 CFR 1926.62, and all other applicable state and local safety and health regulations during the removal of said coating.

3.15.2 Environmental protection.

3.15.2.1 Pre-LBP removal. During removal of the LBP, the Contractor shall comply with all applicable portions Federal regulations that govern emissions into ambient air and water, as outlined 40 CFR Subchapter C (Clean Air Act), 40 CFR Subchapter D (Clean Water Act), respectively; in addition to all applicable state and local regulations.

3.15.2.2 Post-LBP removal. After the LBP has been removed from the substrate, the Contractor shall handle, store, test, and dispose of the debris in accordance with all applicable sections of 40 CFR 240 through 278, in addition to all other state and

local regulations. Submit a copy of all waste disposal manifests to the COR within 24 hours after disposal.

3.16 Assignment of fire watch personnel. Before beginning any hot work (see subsection 5.1 (Definitions)), the Contractor shall:

3.16.1 Contractor provided Fire Watch Personnel. When required by the specification work item(s), provide all Fire Watch Personnel and required equipment, on a per job basis, in accordance with NFPA 312, Chapter 2 (Construction, Conversion, and Repair). Ensure that all Contractor welders, brazers, and cutters check in with the COR, with their Contractor-provided fire watch.

3.16.2 Coast Guard Fire Watch Personnel. When Contractor-provided fire watches are not specified, all Contractor welders, brazers, and cutters are to check in with the COR for assignment of a Coast Guard fire watch, prior to the start of hot work. The Contractor shall provide portable fire extinguishers, on a loan basis, for use by each Coast Guard fire watch during hot work. Immediately replace those discharged with fully charged units. The Contractor shall notify the COR at least 24 hours before the requirement of any Fire Watch personnel.

3.16.3 Compliance. Firewatch personnel or Fire extinguishers shall be provided for all work as required by applicable law or regulation and any work activity meeting the definition of Hot Work (see 5.1.10 (Hot Work)). This requirement applies to all work under the scope of the contract, subsequently modified into the contract, and any contract extension periods granted.

3.17 Housekeeping. The Contractor shall accomplish the following:

3.17.1 Maintain good housekeeping conditions at all times. Maintain adequate aisles and passageways in all work areas. Ensure that all staging platforms, ramps, stairways, walkways, aisles, and passageways on vessels or dry docks are kept clear of all tools, materials, and equipment except those that are in use, and all debris such as welding rod tips, bolts, nuts, and similar material; ensure that hoses and electric conductors are elevated over or placed under the walkway or working surfaces or covered by adequate crossover planks.

3.17.2 Ensure that all working areas on or immediately surrounding vessels and dry docks, graving docks, or marine railways are kept reasonably free of debris, and construction material. Ensure that materials and debris do not present a hazard to personnel.

3.17.3 Take action to mitigate any slippery condition on walkways or working surfaces.

3.17.4 Maintain free access at all times to all exits and to all fire alarms or fire-extinguishing equipment.

3.17.5 Keep all oils, paint thinners, solvents, waste, rags, or other flammable substances in fire resistant covered containers when not in use.

3.17.6 Final cleanup/job-site cleanliness requirements. Following completion of work, the Contractor shall remove all debris, equipment, and material from the job site; restore all existing facilities affected by the work to their original condition.

3.18 Item/material disposal. During the availability, the Contractor shall dispose of, as scrap, all items or materials removed from the vessel that are not: Reinstalled, retained and shipped by the Contractor to a Coast Guard authorized facility, or turned over to the Coast Guard Inspector.

3.19 Restorations. The Contractor shall restore, renew, or repair all machinery, piping, wiring, insulation, paint work, deck coverings, and any other article or component removed, moved, disturbed, or damaged by the Contractor in accomplishing the work outlined in the specification package.

3.20 Operational testing. In the presence of the COR, Port Engineer, or Coast Guard Inspector, the Contractor shall:

3.20.1 Pre-test. When required by the work item, or when deemed necessary by the Contractor, perform an operational pre-test of all items or shipboard devices to be disturbed, used, repaired, or altered, to determine operational condition (see 5.2 (Equipment operation)).

3.20.2 Post-test. Thoroughly test and prove to be in satisfactory operating condition all items or shipboard devices that the Contractor disturbed, used, repaired, altered, furnished, or installed (see 5.2 (Equipment operation)).

3.21 Dock and sea trials. The Contractor shall conduct dock trials and sea trials as necessary to test the work performed in the contract. Provide a schedule of all planned dock and sea trials in the submitted planning document (see 3.3 (Planning document)). Include operational tests or inspections, as appropriate, of all machinery and equipment removed, moved, disturbed, or damaged by the Contractor in accomplishing the work

outlined in the specification package (see 5.2 (Equipment operation)).

3.22 Heavy weather plan. The Contractor shall provide a written plan, which will be in effect during gales, storms, hurricanes, and destructive weather as follows:

3.22.1 Submission. Submit a copy of the plan to both the KO and COR, no later than the start of the contract availability period. Ensure that the heavy weather plan designates responsibility and implements procedures for preventing damage to Coast Guard vessels. This includes periods:

- When vessels are physically located in private Contractor's shipyard;
- When work on vessels at Government facilities requires openings;
- When Contractor owned or furnished floating equipment is tied along side vessels.

3.22.2 Actions during specific weather conditions. The plan shall contain specific responsibilities and detailed actions to be taken during the conditions listed in Table II.

Table II. WEATHER CONDITIONS

WEATHER	CONDITIONS **	WINDS (hours)	ACTION
GALE STORM/ HURRICANE	IV	▶ 72	Review hazardous/destructive weather implementation plan
	III	▶ 48	Take preliminary precautions
	II	▶ 24	Take precautions to permit establishing an appropriate state of readiness on short notice
	I	▶ 12	Take appropriate precautions to minimize damage
THUNDERSTORM/ TORNADO (Lightning and thunder are also anticipated)	II	◀ 6	Take precautions to permit establishing an appropriate state of readiness on short notice
	I	◀ 0*	Take appropriate precautions to minimize damage

▶ Trend indicates a possible threat of destructive winds within the number of hours shown.

◀ Destructive winds accompanying the phenomenon indicated are reported or expected in the general area within the number of hours shown.

*IMMINENT

**NOTICE: The Vessel CO will set all conditions.

3.22.3 Minimum inclusions. Ensure the plan contains, as a minimum, the following information as dictated by conditions listed in Table II (Weather conditions):

3.21.3.1 Windborne staging. Steps to be taken to remove or secure staging items or equipment on vessel decks, pier or dry dock, including cranes, that could become windborne.

3.22.3.2 Damaging floating equipment. Protection of vessels from damage from other floating equipment, such as barges, doughnuts, work floats and other vessels.

3.22.3.3 Emergency shipboard systems. Provisions for security, emergency fire and flooding protection, emergency shipboard dewatering and firemain capability, electrical power generation, and communication.

3.22.3.4 Vessel securing. Steps to be taken to secure the vessel to the Contractor's pier or drydock, including the following:

- Size, type, and number of lines to be used to secure the vessel.
- Sketch, showing location of all securing devices, including fenders, bumpers, and camels.
- Method to be used to check tension and slack in lines during heavy weather.

3.22.3.5 Watertight openings. Assurance that all openings are made watertight.

3.22.3.6 Floating pier securing. Steps to be taken to secure floating piers during high winds or high tides.

3.22.3.7 Single point of contact. The name and telephone number (business and residential) of the Contractor's single point of contact, who has the authority to commit the contractor to take necessary actions as requested by the vessel's CO.

4. QUALITY ASSURANCE

4.1 Tests and inspections. The Contractor shall perform the tests and inspections required in the work items, in the presence of the Coast Guard Inspector. The Government reserves the right to perform any additional inspections deemed necessary to ensure the work conforms to the prescribed requirements.

5. NOTES

5.1 Definitions. For the extent of the ship repair availability, the Contractor shall refer to the following definitions whenever the terms are used in work items.

5.1.1 Blanking: Preclude the entry of foreign material, protect exposed threads or flanges, and remove blanks before reinstalling the system or component(s). Specific requirements of blanking equipment shall be in accordance with the individual work item(s).

5.1.2 Certify: Produce a printed certificate.

5.1.3 Condition-found report: A report submitted to the COR, either in written or electronic format, describing the condition(s) found while performing a task specified in the work item, such as an inspection. The Contractor is encouraged to generate and submit this in electronic format.

5.1.4 Commanding Officer (CO)/Officer in Charge (OinC): The senior officer/petty officer of a vessel.

5.1.5 COR: Contracting Officer's Representative; usually the Commanding Officer, Officer In Charge of a vessel, or another representative as designated by the Contracting Officer (KO).

5.1.6 Discard: Remove and dispose of as scrap.

5.1.7 Fabricate: Construct or make according to a plan or stated guide.

5.1.8 Fastener: Includes all components for securing. For example, for bolting, the term fastener shall include bolts, nuts, threaded studs, and washers. Welded Studs are defined in MLCA Standard Specification 0740_STD, Subsection 3.1.17 (Welded Stud Renewal).

5.1.9 Floating: The refloating and shifting of a vessel to an alternate docking position.

5.1.10 Hot work: Any activity involving riveting, welding, burning, the use of power-actuated tools or similar fire-producing operations. Grinding, drilling, abrasive blasting, or similar spark-producing operations are also considered hot work, except when such operations are isolated physically from any atmosphere containing more than 10 percent of the Lower Explosive Limit (LEL) of a flammable or combustible substance.

5.1.11 Inspect: Examine an object or a space for defects, abnormalities, or deviations from a prescribed standard.

5.1.12 Install: Permanently place in position, for example, by bolting or welding.

5.1.13 Interferences: "Interferences" is defined as any part of a vessel, whether permanently installed or portable, that must be moved or disturbed, to accomplish work specified a work item.

5.1.14 Open: To gain access or enter.

5.1.15 Reinstall: Replace after temporary removal.

5.1.16 Renew: Permanently remove an item and install a new, unused item, identical in form, fit, and function.

5.1.17 Repair: To correct an identified discrepancy to a given standard of performance.

5.1.18 Residual fluid and/or residues: Liquid, dirt, and other substance remaining after drainage or removal, such as in a tank after loss of suction by installed equipment.

5.1.19 Restricted interferences: Restricted interferences are systems, components of systems, and vessel components that are vital to the health, well-being, and feeding of the vessel's crew that, if removed, will result in a dangerous or hazardous condition to the vessel or the environment.

5.1.20 Vessels: Vessels are defined as Coast Guard cutters, tenders, boats, and barges.

5.2 Equipment operation. For all operational testing of equipment on the vessel, the Coast Guard will operate the vessel's machinery plant.

5.3 Vessel points of contact. At the Arrival Conference, the ship will provide lists of the following:

- Key personnel.
- Emergency phone numbers.
- Coast Guard Inspectors assigned to each work item.

5.4 Coast Guard Inspector responsibilities. Although the Contractor is responsible for applying appropriate quality assurance measures, the Coast Guard Inspector will be present to witness the accomplishment of these measures.