

## PERFORMANCE WORK STATEMENT (PWS)

### 1.0 PROJECT TITLE:

\*\*\*\*\* Sanitary Space(s) Millennium Upgrade; accomplish.

### 2.0 BACKGROUND:

Existing shipboard sanitary space(s)

2-64-6-L  
03-124-9-L  
02-86-6-L  
03-108-4-L  
03-89-7-L

LAV units, WC's, Shower partitions and related fixtures and fittings are badly deteriorated and in need of replacement.

### 3.0 SCOPE:

Remove existing Lav units, WC assemblies and Shower partitions. Template from existing and reinstall upgraded Millennium material IAW the references below.

#### **03-89-7-L**

**A:** Disconnect electrically and mechanically and remove the two each existing lavatory assemblies and foundations. Disconnect and retain all piping connections up to the faucet connections for reuse. Remove the existing hand soap dispenser and retain for reinstallation. Existing soap dispensers shall be inspected for suitability prior to reinstallation. Provide and install new two each single bowl lavatory assemblies with foundations which are to include counter, sink, faucet assembly, back panel, mirror, shelf and light IAW 505-7050020-B and assembly Plan 505-7101179 Rev-B. Include all miscellaneous hardware and consumables required to install the above units. Electrically and mechanically reconnect the lavatory assemblies and test for proper operation.

**B:** Document existing water closet enclosure dimensions and label plate details from the existing water closet enclosures prior to removals. Protect vitreous china toilets from industrial damage prior to any removals. Remove the three existing water closet enclosure assemblies. Water closet assemblies include all partitions, end panels, stiles, doors and associated supporting

brackets and hardware including toilet paper holders and sanitary napkin disposal boxes. Remove and grind flush all unused attachments to deck and bulkhead areas previously used to support water closet enclosure assemblies. Using the dimensions of the existing water closet enclosure as a guide fabricate and install a new water closet enclosure assembly IAW Drawing 505-7101179. Utilize Drawing MILMOD-001 for material requirements and details of new stile fabrication and installation in lieu of the stile details shown in 505-7101179. Provide and install new multi roll toilet paper holders and sanitary napkin disposal boxes as required. Install new label plates IAW documented removals.

### **03-108-4-L**

**A:** Disconnect electrically and mechanically and remove the one each existing lavatory assemblies and foundations. Disconnect and retain all piping connections up to the faucet connections for reuse. Remove the existing hand soap dispenser and retain for reinstallation. Existing soap dispensers shall be inspected for suitability prior to reinstallation. Provide and install new one each single bowl lavatory assemblies with foundations which are to include counter, sink, faucet assembly, back panel, mirror, shelf and light IAW 505-7050020-B and assembly Plan 505-7101179 Rev-B. Include all miscellaneous hardware and consumables required to install the above units. Electrically and mechanically reconnect the lavatory assemblies and test for proper operation.

**B:** Document existing water closet enclosure dimensions and label plate details from the existing water closet enclosures prior to removals. Protect vitreous china toilets from industrial damage prior to any removals. Remove the three existing water closet enclosure assemblies. Water closet assemblies include all partitions, end panels, stiles, doors and associated supporting brackets and hardware including toilet paper holders and sanitary napkin disposal boxes. Remove and grind flush all unused attachments to deck and bulkhead areas previously used to support water closet enclosure assemblies. Using the dimensions of the existing water closet enclosure as a guide fabricate and install a new water closet enclosure assembly IAW Drawing 505-7101179. Utilize Drawing MILMOD-001 for material requirements and details of new stile fabrication and installation in lieu of the stile details shown in 505-7101179. Provide and install new multi roll toilet paper holders and sanitary napkin disposal boxes as required. Install new label plates IAW documented removals.

**C:** Document existing shower enclosure dimensions prior to removal. Provide temporary support for shower mixing valve assemblies during removal of shower components. Remove two each shower divider partitions and two each end panels. Retain existing square tubing header and stiles for showers. Template from existing, fabricate and install new two each shower divider partitions and two each shower end panels. Shower end panels to be fabricated of 316L Stainless Steel with a #4 Finish on the outside. Fabricate and install new mixing valve brackets for support of mixing valves on new partitions, new hand grabs and soap trays IAW 505-7101179.

**03-124-9-L**

**A:** Disconnect electrically and mechanically and remove the one each existing lavatory assemblies and foundations. Disconnect and retain all piping connections up to the faucet connections for reuse. Remove the existing hand soap dispenser and retain for reinstallation. Existing soap dispensers shall be inspected for suitability prior to reinstallation. Provide and install new one each single bowl lavatory assemblies with foundations which are to include counter, sink, faucet assembly, back panel, mirror, shelf and light IAW 505-7050020-B and assembly Plan 505-7101179 Rev-B. Include all miscellaneous hardware and consumables required to install the above units. Electrically and mechanically reconnect the lavatory assemblies and test for proper operation.

**02-84-6-L**

**A:** Disconnect electrically and mechanically and remove the two each existing lavatory assemblies and foundations. Disconnect and retain all piping connections up to the faucet connections for reuse. Remove the existing hand soap dispenser and retain for reinstallation. Existing soap dispensers shall be inspected for suitability prior to reinstallation. Provide and install new one each single bowl and one each three bowl lavatory assemblies with foundations which are to include counter, sink, faucet assembly, back panel, mirror, shelf and light IAW 505-7050020-B and assembly Plan 505-7101179 Rev-B. Include all miscellaneous hardware and consumables required to install the above units. Electrically and mechanically reconnect the lavatory assemblies and test for proper operation.

## **2-64-6-L**

**A:** Disconnect electrically and mechanically and remove the seven each existing lavatory assemblies and foundations. Disconnect and retain all piping connections up to the faucet connections for reuse. Remove the existing hand soap dispenser and retain for reinstallation. Existing soap dispensers shall be inspected for suitability prior to reinstallation. Provide and install new one each single bowl, four each two bowl and two each three bowl lavatory assemblies with foundations which are to include counter, sink, faucet assembly, back panel, mirror, shelf and light IAW 505-7050020-B and assembly Plan 505-7101179 Rev-B. Include all miscellaneous hardware and consumables required to install the above units. Electrically and mechanically reconnect the lavatory assemblies and test for proper operation.

### **4. APPLICABLE DOCUMENTS:**

#### 4.1 NAVSEA Standard Items

- (a) 505-7101179 Rev B, Sanitary Space Details "New Millennium Head" (W/Honeycomb Panels)
- (b) 505-7050020-Rev B, Plumbing Fixture Supports.
- (c) MILMOD-001 Modifications to Millennium Style Water Closet Assy. (attached)
- (d) 505-8400731, Sanitary Space Upgrade Piping Details
- (e) 505-7050009 Rev C, Typical Arrangement of Plumbing Fixtures and Accessories
- (f) 505-7050017 Rev A, Arrangement Plumbing Fixture Supports 01 Level
- (g) 505-7050018 Rev A, Plumbing Fixture Supports 02 Level
- (h) 108-7050175 Rev C, 02 Lvl Plating & Long'l Fr 40-1/2 - 56-1/4
- (i) 605-1927788 Rev N, PSNS Type Drawing Label Plates
- (j) NAVSEA T9074-AS-GID-OIO/271, "Requirements for Non-Destructive Testing Methods"

- (k) S0400-AD-URM-010/TUM (NAVSEA Tag-Out Users Manual)
- (l) GSO-2004, section 631 and section 634
- (m) COMNAVSEASYS COM Technical Specification 9090.310E.

## **5.0 GENERAL REQUIREMENTS**

**5.1 Access and Clearance.** The Contractor is responsible for obtaining personnel clearance and access to all work areas aboard ship. Visit Requests should be submitted to the PSNSY HM&E AIT/CCT Coordinator \*\*\*\* via e-mail: \*\*\*\*\*.

**5.2 Tools and Equipment.** The Contractor is responsible for providing all tools and equipment required to perform work.

**5.3 Quality Assurance.** The Contractor is responsible for the quality of all work performed in accordance with the SOW. Quality Assurance verification will be performed by a qualified specialist and will be documented on approved forms. The Contractor will provide a copy of all required artisan certifications to the Government AIT Manager a minimum of 21 days prior to the commencement of work. The Contractor will provide (2) copies of a final report to the Government AIT Manager, including copies of all verification documents, NDT results, and certificates of conformance, within 72 hours of work completion.

**5.4 Testing.** All testing will be the responsibility of the Contractor. This includes provisioning of properly calibrated and certified instruments and equipment. When applicable, NDT of welds will be performed. The Contractor will provide a Certificate of Conformance to the Government AIT Manager in accordance with NAVSEA T9074-AS-GID-OIO/271, "Requirements for Non-Destructive Testing Methods".

**5.5 Electrical/Electronics.** The Contractor is responsible for identifying and performing connections to shipboard power sources to provide electrical power for tools and equipment required to perform the work. The Contractor is responsible for the disconnect and reconnect of all electrical equipment associated with the statement of work in accordance with S0400-AD-URM-010/TUM (NAVSEA Tag-Out Users

Manual). Electrical systems are to be de-energized prior to, and during the performance of, work. WAFs will be submitted, and approval obtained, prior to the commencement of work on electrical systems.

- 5.6 Piping/Plumbing.** The Contractor shall provide qualified personnel for the performance of work required for the disconnect and reconnect of effected piping on plumbing/piping systems. Blanking and tagging to be in accordance with NAVSEA standard item 009-24. WAFs will be submitted, and approval obtained, prior to the commencement of work on plumbing/piping system.
- 5.7 Heating, Ventilation, and Air Conditioning (HVAC).** The Contractor shall provide qualified personnel for the performance of work on HVAC, if required. WAFs will be submitted, and approval obtained, prior to the commencement of work on HVAC systems, including ductwork.
- 5.8 Fire Watch.** Fire Watches will be provided for the performance of all hot work, i.e., welding, cutting, and grinding. Two (2) certified Fire Watches will be provided during each day of hot work. Fire Watching duties will include adjacent boundary compartments. The Fire Watches will be responsible for providing all fire suppression devices/equipment required for the performance of their duties. WAFs will be submitted, and approval obtained, prior to the commencement of hot work operations.
- 5.9 Paint Testing/Abatement.** The Contractor will perform a certified paint analysis of all areas which will be disturbed by work a minimum of 21 days prior to the commencement of work. This includes opposing surfaces where hot work will be performed. A certified analysis report will be submitted to the AIT Government Manager a minimum of 14 days prior to the commencement of work. In the event that the paint analysis report specifies an abatement requirement, the Contractor will provide a certified abatement team to remove the paint in the specific areas identified by the report (required for work scope). Paint abatement must be completed prior to the commencement of work. All hazardous paint abatement requirements discovered during installation period will be the subject of a separate cost proposal above and beyond the basic scope of work.
- 5.10 Painting.** Painting will be performed in accordance with GSO-

2004, Section 631. At a minimum, all surfaces disturbed during work will be painted. This includes opposing boundary surfaces affected by hot work. WAFs will be submitted, and approval obtained, prior to the commencement of any painting.

- 5.11 Decking.** Decking will be performed in accordance with GSO-2004, section 634. Existing decking will be repaired in areas disturbed during the course of the work.
- 5.12 Insulation/Lagging.** The Contractor is responsible for the removal of insulation/lagging which will be affected by work. This includes insulation/lagging on opposing boundary surfaces in adjacent compartments that may be affected by hot work. All areas of insulation/lagging that were removed as a result of performing work will be replaced by qualified personnel. Bare surfaces will be treated with corrosion preventive paint prior to the reapplication of insulation/lagging. The reapplication of insulation/lagging will be performed prior to final painting.
- 6.0 Technical Requirements:** The contractor shall provide the following engineering and technical skills required to accomplish installation and checkout onboard CV /CVN Aircraft Carriers IAW NSTM 9090.310 Series.
- 6.1 Method of Surveillance** The government will monitor and assess the contractor's performance against the Acceptable Quality Level per paragraph 1.5.4. of Technical Specification 9090.310E. PSNS will provide some over sight via the project's Habitability Coordinator and the HM&E AIT/CCT Coordinator.
- 6.2 Equipment & Material Procurement.** The contractor shall procure all equipment and material that is designated as Installing Activity Furnished (IAF) in the applicable documents for CVN-76, as directed by the government.
- 6.2.1 Acceptable Quality Level.** Ability to procure IAF equipment & materials to meet 100% of system functionality.
- 6.3 Installation Schedule.** The availability for the CVN-76 is expected to run from \*\*\* to \*\*\*. The contractor should plan to begin work at the opening of the availability and be completed to support crew move aboard by \*\*\*, three weeks prior to the end of the availability in order to accommodate the System Operational Verification Testing (SOVT).

**6.4 Ship Check.** The successful bidder shall make arrangements through the Contracting Officer to schedule a ship check with representatives from the government's technical team, typically the Government AIT manager and the Technical Point of Contact (TPOC). During the ship check the contractor and the Government team can walk through the ship's spaces that are going to be modified and identify any potential issues and get answers to any questions. The ship check should be scheduled as soon as possible after contract award.

**6.5 Installation.** For CVN-76, the contractor shall perform Regional Maintenance and Modernization Coordination Office (RMMCO), HM&E AIT/CCT check in/out, install all furnishings, electrical, and sanitary space materials identified in applicable documents. The contractor shall coordinate with the sponsor's on-site representative and the In-Service Engineering Authority (ISEA) to redline the installation drawings to show As-Built configuration.

**6.5.1 Acceptable Quality Level.** Ability to perform installation according to installation drawings to meet 100% of system functionality.

**6.6 System Checkout.** The contractor shall conduct a system checkout with the Government AIT Manager and vessel representative of all the installed equipment.

**6.6.1 Acceptable Quality Level.** Ability to conduct system checkout on installed hardware and to correct any installation deficiencies to meet 100% of system functionality.

## **7.0 PROGRAM MANAGEMENT REPORTS:**

The contractor shall provide the following (CDRLS): A001: Liaison Action Record (LAR) A002: Work Schedule A003: Expenditure Report A004: Final Report A005: Progress Review Report A006: RMMCO Check-In A007: RMMCO Check-Out A008 Condition Report A009: As Built Drawings A010: Artisan List

## **8.0 GOVERNMENT FURNISHED MATERIAL**

**8.1** The government will provide facilities and ships access, technical information, as required for the performance of

this task.

**8.2** The government will provide rigging and craning services pierside in support of the alteration. The contractor will be required to provide laborers to support the rigging services.

**9.0 CONTRACTOR FURNISHED MATERIAL**

**9.1** Unless otherwise instructed, the contractor shall provide all consumable material to support the installation.

**9.2** The contractor is responsible for stowage and security of his materials onsite during the execution of the alterations.

**10. Best Value** This is a Best Value requirement with price, past performance and relevant experience are the primary evaluation factors. Significant importance will be given to the contractor past performance and relevant experience in millennium sanitary system upgrades with at least five (5) years experience in the design and fabrication of Shipboard S4 and millennium sanitary systems. Contractor must also demonstrate at least two projects within the last two (2) years where they acted as the prime manufacturer of assemble components and installation. The sanitary system, including material and workmanship, shall be warranted from defects for a minimum period of one year from completion of installation. Without this experience, an offeror will be deemed technically unacceptable. As a minimum, the offeror shall provide a summary of two projects completed within the last 5 years. The summary shall include the following information for the relevant experience projects:

- Customer Name
- Scope of Work Performed
- Date/Period Work Performed
- Name/Telephone/e-mail of customer contact

**11.0 Security.** Work performed under this contract is unclassified.

**12.0 Place of Performance.** Contractor's local facilities and onboard \*\*\*\*\*

**13.0 Travel.** The contractor is authorized to conduct travel in support of the requirement outlined above, and in accordance with the Joint Travel Regulations (JTR).

**14.0 Technical Representatives.** The technical representative for this task: