



01 OCT 2019

From: Director, NAVSEA Standard Specification for Ship Repair and Alteration Committee (SSRAC)

Subj: FISCAL YEAR 2021 NAVSEA STANDARD ITEMS AND APPENDIX 4-E

Ref: (a) COMUSFLTFORCOMINST 4790.3

(b) NAVSEAINST 9070.1

Enclosure (1) NSIs Summary of Change FY21

Enclosure (2) Volume VII Appendix 4-E Summary of Change FY21

1. Per references (a) and (b), the Fiscal Year 2021 (FY21) NAVSEA Standard Items (NSI) and Volume VII Appendix 4-E, are available on the official SSRAC Web site at:

<http://www.navsea.navy.mil/Home/RMC/CNRMC/OurPrograms/SSRAC.aspx>

2. The *FY-21* Standard Items and Standard Phraseology must be invoked in *FY-21* CNO availabilities with an availability start date in *FY-21* that are not at the 100% D Level Maintenance Work Package Lock Milestone and in all other (CMAV and emergent) procurements issued after *01 March 2020*. Work items that have been previously planned utilizing *FY-20* Standard Items and Standard Phraseology, only need updated to reflect the *FY-21* if they are not at the 100% D Level Maintenance Work Package Lock Milestone.

FY21 NSIs that are required by CNRMC: Enclosure (1) NSIs Summary of Change FY21

3. Requests for deviations from this requirement must be submitted via e-mail and routed to CNRMC (C200) for adjudication and approval. A separate deviation request must be submitted for each availability and must fully explain the reason(s) for the deviation (i.e., why deviation is required, how planning would be affected, how availability would be impacted, etc).

4. SSRAC and RMC Coordinators are responsible for advising users within their command of this notice. Code 400 Contracts Department is responsible for advising Master Ship Repair (MSR) Contractors and Agreement for Boat Repair (ABR) Contractors under their cognizance of the availability of these products.

5. The requirements of this letter do not authorize any change in terms, conditions, delivery schedule, price, or amount of any Government contract. In the event you consider the requirements represent a change for which an equitable adjustment is in order, you are to advise the Contracting Officer of the particular technical or contractual requirements regarded as changed, and take no action with regard to such changed requirements until notified in writing of the Contracting Officer's response.

6. Point of Contact for further information is Mr. Dale Hirschman, Technical Director, 757-400-0020, [dale.hirschman@navy.mil](mailto:dale.hirschman@navy.mil).

Distribution:  
SSRAC E-Mail

  
Dale Hirschman



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**009-01 General Criteria; accomplish**

3.2.6.1 Added “and”.. Standard Item and paragraph number..

3.4.3.5 Deleted “3.4.3.5 Date scheduled to be ordered.” Renumbered the following paragraphs.

**009-02 Environmental Compliance Report for Material Usage; accomplish**

3.4 Added Provide “a deviation request for each coating that thinning is required to the SUPERVISOR.”

Attachment: Added Attachments A and B to 009-02 from old 009-97.

**009-03 Toxic and Hazardous Substance; control**

4.2 Reworded for clarification.. 4.2 The debris from ventilation cleaning may contain toxic or hazardous substances.

**009-04 Quality Management System; provide**

3.3 Grammatical correction “all” to “any”

3.5 4E the wording...Added .. , including the planned implementation date, Deleted .. and include the planned implementation date...

3.10.1 Deleted ..one legible copy, in hard copy or approved transferrable media of..

3.10.1.1 (NEW) Use NMD, or approved Web interface, to perform all TIP functions for contracts managed in NMD.

3.10.1.2 (NEW) 3.10.1.2 Submit one legible copy of the initial TIP, in hard copy or approved transferrable media that can be sorted (e.g., Excel spreadsheet) for contracts not managed in NMD.

3.10.1.3 (NEW) 3.10.1.3 Submit one legible copy, in hard copy or approved transferrable media that can be sorted (e.g., Excel spreadsheet) of an updated TIP when requested by the SUPERVISOR not to exceed one per week for contracts not managed in NMD.

3.11.1 Added .. unique identification of test equipment used,..

3.11.3 Added.. Test or inspection records will clearly identify each location or component when multiple locations or multiple components are listed on a single record.

3.17 Added .. (Not required for availabilities scheduled 9 weeks or less.)

3.17 Deleted “either” replaced with “one”



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3.17.2 (Reworded) 3.17.2 If work is incomplete or complete with discrepancies, supporting rationale and impact statement with recovery plan must be provided to the SUPERVISOR using one of the methods from 3.17.1. Upon completion of work or correction of discrepancies, an updated status must be submitted to the SUPERVISOR.

4.3 Deleted .. test memo, planning/design memo..( NAVSEA contract clause alignment)

### **009-08 Shipboard Fire Protection and Fire Prevention; accomplish**

2.1 Added 2.1 Standard Items. Renumbered references and references throughout body of NSI.

3.6.12 (NEW) 3.6.12 Provide Fire Department Connections (FDC) at the temporary firemain manifold located on the pier.

3.6.12.1 (NEW) 3.6.12.1 Consult with local F&ES providers to determine the type of fitting and threads they require for the FDC(s), and to provide input on its pier location. The FDC shall at a minimum consist of two 2 ½ inch or one 4 inch or larger connection.

3.6.12.2 (NEW) 3.6.12.2 Install an UL312 listed check valve in line with each FDC.

3.6.12.3 (NEW) 3.6.12.3 Post a diagram at each FDC that indicates which portions of the temporary firemain it services.

3.7.1.2 (NEW) Provide a telephone on the QD, to the extent practicable, any time contractor work or location of the vessel (shipyard, Naval or contractors facility) affects the ship's casualty reporting system (ship's telephone).

3.22 (NEW) Comply with requirements of 2.1 when temporary services cannot be routed through interior and exterior installed shipboard openings (see note 4.7). Added 2.1 and Note 4.7

3.22.1 Deleted when new 3.22 created. (3.22.1 Submit one legible copy, in hard copy or approved transferrable media, of each approved deviation to the SUPERVISOR.)

3.27 (NEW) Provide a plan for protecting permanently installed fire detection devices to the SUPERVISOR for approval prior to commencing work that has the potential to damage or render fire detection devices nonresponsive.

4.7 (NEW) 4.7 When accomplishing access cuts is required; the use of Category II Standard Item 009-05 of 2.1 "Temporary Access, accomplish" will be specified in the work item.

### **009-09 Process Control Procedure (PCP); provide and accomplish**



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3.6 (NEW) Submit one legible copy, in hard copy or approved transferrable media, of the completed process control documentation to the SUPERVISOR within 3 days of completion of the PCP or a minimum of 5 days prior the scheduled key event to which the PCP is tied. Documentation includes only completed OQE forms, signature records, or other recorded data obtained in the course of executing the PCP. Any previously submitted reports required by the body of the PCP or the associated Work Item do not require re-submission.

### **009-10 Asbestos-Containing Material (ACM); control**

3.1.1 (NEW) Material containing asbestos that requires removal for interference must be disposed of in accordance with 3.6.

### **009-12 Weld, Fabricate, and Inspect; accomplish**

2.17 (NEW) 2.17 TO300-AU-SPN-010, Fabrication, Welding and Inspection of Small Boats and Craft, Aluminum Hulls

2.18 Added NEW REF **2.18 S9086-RK-STM-010/CH-505**

3.1 Added "and 2.17" .. of 2.2 through 2.12 and **2.17...**

3.4 ADMIN Changed 3.4.9 to 3.4.7

3.5 Now reads, "The use of a permanent backing strap in accordance with Section 11, Paragraph 11.1 of 2.2 is *specifically* prohibited *for ships* unless detailed in the original weld joint design or when authorized by the SUPERVISOR. *The use of a permanent backing strap is acceptable for small boats and crafts, in accordance with 2.4 and 2.17.*"

3.6.2 Added the word "Class" for clarification.

3.6.7 Added NEW **3.6.7 Invocation of Operational Pressure Test Option for Piping Systems in accordance with 2.18:**

3.6.7.1 Added NEW **3.6.7.1 Nondestructive Magnetic Particle and Liquid Penetrant testing accomplished to satisfy Operational Pressure Test Option requirements of 2.18 and not already required by 3.6.2.2. - (I)**

3.8 Added "and 2.17"

4.1 ADMIN Changed 3.5 to 3.4.7

4.2 (NEW) 4.2 For Navy boats and craft all paragraphs apply except the following: 3.4.2.1, 3.4.2.2, 3.4.3, 3.4.4, 3.4.5, 3.4.6, and 3.6.6.

Table 2 Added "\*" above "(HY-80/100, HSLA-80 AND STS)", in the "LINE" row, column B, on pages 11 and 12.



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#### Table 4 (NEW) Updated

Attachment A Rearrange in accordance with AI 92 to consolidate all boats and crafts under one section per TWH. Added BOATS and CRAFTS sections with addition of new Boats and Crafts provided.

#### **009-15 Rotating Machinery; balance**

3.2.1.6 Deleted “and a vibration survey report in accordance with 009-104 of 2.1.”

3.2.8 (NEW) 3.2.8 Accomplish vibration testing and analysis in accordance with NAVSEA Standard Items. (See 4.2)

4.1.2 Corrected 4.1.2 SUPERVISOR must forward as-found/final balance result and shipboard vibration and analysis report to NAVSEA 05Z22 and NSWCPD Code 412.

4.2 (NEW) 4.2 If vibration testing and analysis is required, the use of Standard Item 009-104 “Machinery Vibration and Analysis; accomplish” of 2.1 will be specified in the Work Item.

#### **009-17 Rotating Electrical Equipment; repair**

3.1.1 Added another sentence to paragraph.. *Record data in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.1.2 Added to 3.1.2.. *Record list of accessories in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.2 Added another sentence to paragraph.. *Record data in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.3.1 Added another sentence to paragraph.. *Record data in Attachment C or equivalent form that contains the requirements of Attachment C.*

3.3.2 Added another sentence to paragraph.. *Record data in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.4 Added another sentence to paragraph.. *Record data in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.5 Added another sentence to paragraph.. *Record data in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.6 Added another sentence to paragraph.. *Record data in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.7 Added another sentence to paragraph.. *Record data in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*



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3.4.3 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.4.4 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.4.5 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.4.7 Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.6 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.9 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.10 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.11 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.12 Changed 2.9 to 2.10 ..Paragraph 7-4.1.3 of 2.10...

3.15 Changed re-machine to machine

3.17.1.5 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.18.3 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.19 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.20 To Read... of the *assembled* vaneaxial/tubeaxial fan...and Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.21 Clarified paragraph numbers.

3.22 Added another sentence to paragraph.. Record data *in Attachment B-2 and C or equivalent form that contains the requirements of Attachment B-2 and C*

3.23 **2.10** is for correct DC motors. And Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*



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3.23.1 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.23.2 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.23.3 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.24 To read... Submit one legible copy, in hard copy or approved transferrable media, of a report listing *results of requirements and* data recorded in *3.1.1, 3.1.2, 3.2, 3.22, and 3.23* through 3.23.3 to the SUPERVISOR.

Added (NEW) *Attachments B-1 and B-2.*

**009-24 Authorization, Control, Isolation, Blanking, Tagging, and Cleanliness; accomplish**

3.1.4.7 (NEW) *When testing is completed and recorded in accordance with 009-04 of 2.1, the WAFCOR must verify Block 16 has been signed by the RA responsible for the work and then sign Block 18 for the RA to allow closure of the WAF by the S/F Watch/Duty Officer. The S/F Watch/Duty Officer will be the final signature in Block 18 and officially closes the WAF. Operational testing associated with Dock Trials or Sea Trials, and controlled by formal test program, does not have to be complete prior to closing the WAF.*

3.5.1 Added... Attachment A must be retained with contractor's inspection records and made available to the SUPERVISOR upon request.

3.5.1.1 Deleted... Submit one legible copy, in hard copy or transferable media, of the Accountability of Temporary Blanks and Plugs Check-Off Sheet (Attachment A) to the SUPERVISOR upon each satisfactory tank closing to document blanks/plugs were removed.

3.5.3 (NEW) 3.5.3 Verify all temporary blanks and plugs installed in the performance of work under each Work Item have been removed and documented on the Attachment A associated with that Work Item.

3.5.3.1 (NEW) 3.5.3.1 Attachment A must be retained with contractor's inspection records and made available to the SUPERVISOR upon request.

3.6 Changed reinstalled to installed.

**009-25 Structural Boundary Test; accomplish**

2.2 Added Ref 2.2 S9086-RJ-STM-010/CH-504, Pressure, Temperature, and other Mechanical and Electromechanical Measuring Instruments



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3.1.1 (NEW) Install two independent pressure gauges. Each test gauge must conform to gauge range and graduation shown on 504-3.5.1 and 504-6.1.5 of 2.2.

3.1.1.1 Deleted 3.1.1.1 Gauge range must be such that the test pressure is in the middle third of the scale.

3.1.6.1 (NEW) 3.1.6.1 Use compressed air at a pressure not to exceed max tank test pressure and hold a minimum of five minutes to demonstrate that air escapes and overflows are clear.

3.2.1 (NEW) 3.2.1 Install two independent pressure gauges. Each test gauge must conform to gauge range and graduation shown on 504-3.5.1 and 504-6.1.5 of 2.2.

3.2.1.1 Deleted 3.2.1.1 Gauge range must be such that the test pressure is in the middle third of the scale.

3.2.7.1 (NEW) 3.2.7.1 Use compressed air at a pressure not to exceed max tank test pressure and hold a minimum of five minutes to demonstrate that air escapes and overflows are clear.

### **009-33 Rotating Electrical Equipment; rewind**

3.1.1 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.1.2 Added...Record list of accessories *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.2 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.3 Reworded for clarity.. Matchmark, disassemble, inspect, measure, *and test* the equipment *removed in 3.1* using 2.2 and 2.4 through 2.8 for guidance.

3.3.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.1.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.2 Added another sentence to paragraph.. Record winding data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*





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3.3.2.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.5 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.3.6 Added another sentence to paragraph.. Record data *in Attachment C or equivalent form that contains the requirements of Attachment C.*

3.3.7 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.3 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.4 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.5 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.6.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.6.2 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.6.3 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.9 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.10 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.11 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.15 Changed re-machine to machine...

3.17.1.5 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*



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3.18 Added another sentence to paragraph.. Record data *in Attachment C or equivalent form that contains the requirements of Attachment C.*

3.18.2 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.19 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.20 To Read... of the assembled vaneaxial/tubeaxial fan... and Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.22 Added another sentence to paragraph.. Record data *in Attachment B-2 and C or equivalent form that contains the requirements of Attachment B-2 and C.*

3.23 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.23.1 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.23.2 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.23.3 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.24 Added paragraph numbers for clarification...3.24 Submit one legible copy, in hard copy or approved transferrable media, of a report listing data recorded in **3.1.1**, **3.1.2**, **3.2**, **3.22** and **3.23** through **3.23.3** to the SUPERVISOR.

Added (NEW) *Attachment B-1 and B-2*

**009-40 Contractor Crane, Multi-Purpose Machine and Material Handling Equipment at a Naval Facility; provide**

3.7.1 Added the word critical for clarification.

3.7.2 (NEW) 3.7.2 Notify SUPERVISOR of each critical lift no later than five days prior to the planned event.

3.7.3 (NEW) 3.7.3 Submit one legible copy, in hard copy or approved transferrable media, of Attachment A to the SUPERVISOR, upon request.

**009-53 Bolted Bonnet, Globe, Globe Angle, and Globe Stop Check Valve Shop Repair; accomplish**



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3.2.3 Added “hard -faced” for clarification. Deleted “or gate”.

3.2.3.1 Deleted “or gate”.

3.3.4 Deleted “or gate”.

3.3.4.2 Deleted 3.3.4.2 Transfer line for gate valve shall not exceed 3/16 inch in width and shall appear within the lower 75 percent of the gate seating surface. Renumbered para.

Deleted checkpoints (V)(G) or (I)(G) "SEAT TIGHTNESS" (See 4.4)

3.5.2 Deleted 3.5.2 Test for seat tightness alternately on each side of gate for double seated valves, and on outboard side only on single seated valves, with the opposite side open for inspection.

3.5.2.1 Deleted 3.5.2.1 Do not exceed handwheel closing force specified in Table 505-11-2 of 2.6.

3.5.2.2 Deleted 3.5.2.2 Test shall be continued for a minimum of 3 minutes if there is no evidence of leakage, or in the event of visible leakage, until accurate determination of leakage can be made.

3.5.2.3 Deleted 3.5.2.3 For each hard seated valve, maximum allowable leakage: 10 cubic centimeters (cc) per hour, per inch of nominal pipe size; 10cc maximum per hour for each valve size less than 1-1/2 inches.

3.5.2.4 Deleted 3.5.2.4 For each soft seated valve the maximum allowable leakage rate is none. Renumbered the remaining para.

4.1 Deleted 4.1 “and 3.5.3”

### **009-60 Schedule and Associated Reports for Availabilities Over 9 Weeks in Duration; provide and manage**

3.8.4.1 Deleted “re” changed reinstallation to installation.

3.8.4.2 Deleted “re” changed reinstallation to installation.

Table 2 ID to Para Number Administrative to align with NMD

Table 2 3.9.5 Deleted “re” changed reinstallation to installation.

Table 2 Deleted 3.3 Critical Path Network\*.pdf from 3.95 and 3.96

4.1.2 Deleted “re” changed reinstall to install.

### **009-70 Confined Space Entry, Certification, Fire Protection, Fire Prevention and Housekeeping for Unmanned Vessels; accomplish**



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2.4 Deleted 2.4 NFPA Standard 51B, Standard for Fire Prevention During Welding, Cutting, and Other Hot Work (deleted from 009-07 as well)

3.3 Corrected to 2.4 .. as described in 2.2, and 2.4.

3.3.1 Deleted ..and 2.4..

3.7 Added "safety". Accomplish a *safety*, fire prevention, and housekeeping inspection,..

3.7.3 Added "safety". ..accomplish a *safety*, fire prevention, and housekeeping inspection,..

### **009-71 Piping System; test**

2.1 Changed to 2.1 "Standard Items" then references renumbered.

2.3 Deleted 2.3 S9074-AR-GIB-010/278, Requirements for Fabrication Welding and Inspection, and Casting Inspection and Repair for Machinery, Piping, and Pressure Vessels

2.4 Deleted 2.4 T9074-AS-GIB-010/271, Requirements for Nondestructive Testing Methods

2.5 Deleted 2.5 MIL-STD-2035, Nondestructive Testing Acceptance Criteria

3.1 Reworded...3.1 Accomplishment of testing of each new and disturbed piping systems must be in accordance with 2.1 and 2.2. (See Note 4.2)

Deleted (I) "LIQUID PENETRANT INSPECTION" or "MAGNETIC PARTICLE INSPECTION"

3.1.2 Deleted 3.1.2 Accomplish liquid penetrant or magnetic particle test on root layer of all P-1 and/or P-LT welded joints in accordance with Paragraph 505-11.1.2.6.a(1) of 2.1, and the requirements of 2.3 and 2.4 in systems which exceed the reduced energy criteria of operating conditions of 200 degrees Fahrenheit or 500 PSIG. The accept or reject criteria must be in accordance with Class One of 2.5. (See 4.2)

Deleted (I) "LIQUID PENETRANT INSPECTION"

3.1.3 Deleted 3.1.3 Accomplish liquid penetrant tests on final layer of all P-1 and/or P-LT welded joints in accordance with Paragraph 505-11.1.2.6.a(1) of 2.1 and the requirements of 2.3 and 2.4 in systems which exceed the reduced energy criteria of operating conditions of 200 degrees Fahrenheit or 500 PSIG. The accept or reject criteria must be in accordance with Class One of 2.5. (See 4.2)

Deleted (I) "LIQUID PENETRANT INSPECTION"



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3.1.4 Deleted 3.1.4 Accomplish liquid penetrant tests on final layer of all Class P-2 welds in accordance with Paragraph 505-11.1.2.6.a(2) of 2.1 and the requirements of 2.3 and 2.4 in systems which operate above 200 degrees Fahrenheit. The accept or reject criteria must be in accordance with Class 2 of 2.5. (See 4.2)

Renumbered paragraphs after deletions.

4.2 (NEW) If nondestructive testing of new and disturbed piping systems is required the use of Standard Item 009-12 “Weld, Fabricate, and Inspect; accomplish” of 2.1 will be specified in the work item.

### **009-72 Physical Security at a Private Contractor Facility; accomplish**

3.5 First sentence changed to read. 3.5 Prepare an itemized statement of cost incurred for the work covered by this Standard Item that was necessary to meet Force Protection Conditions different from that specified in the solicitation. ...

Attachment A 1.c. Added to Attachment A 1.c. ... New security and perimeter fencing must have a minimum fence fabric height of 7 feet, excluding top guard. Fence height including top guard outriggers must be a minimum of 8 feet. Modifications to existing fences are not required, provided the existing fencing is in good repair and has a minimum fence fabric height of 6 feet, excluding top guard.

### **009-74 Occupational, Safety and Health Plan; accomplish**

3.11.3 Added “safety”. ...*safety*, fire prevention, and housekeeping inspection,

### **009-77 Cofferdam Installation; accomplish**

Deleted (I)(G) “COFFERDAM INSPECTION”

3.4 Deleted 3.4 Verify cofferdams (plug, patch, dry chamber, or stern tube seal) and associated hardware are constructed in accordance with 2.2, the approved cofferdam design, and rigging plan installed in 3.2 have been removed. Renumbered paragraphs.

Attachment B 5.6.2 changed Reinstallation to Installation.

### **009-81 Compartment Closeout; accomplish**

3.2 Last sentence changed to read 3.2 ... This inspection *is* not required for *each* compartment covered by 009-117 of 2.1.

3.2.1 Added to 3.2.1 ... Stage 3 through Stage 7 testing need not be complete prior to compartment inspection.



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4.6 (NEW) 4.6 Testing Stages defined in 009-67 Integrated Total Ship Testing; manage, of 2.1.

### **009-84 Threaded Fastener Requirements; accomplish**

3.5 Deleted 3.5 Torque wrenches will be selected in such a manner that the required final torque falls within 20 percent to 90 percent of the torque wrench range.

Attachment A 4. (NEW) 4. Self-locking nuts must have prevailing torque in accordance with 2.2. Cuts, tears, or looseness in self-locking elements or the adjacent metal is not acceptable.

Attachment A 4.1 Deleted ... (i.e., positive reinstallation, breakaway, running)...

### **009-107 Piping System Cleanliness Restoration and Flushing (Non-Nuclear); accomplish**

4.3 Admin Change 3.11 to 3.14

### **009-113 Rotating Electrical Equipment with a Sealed Insulation System (SIS); rewind**

3.2.1 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.2.2 Added another sentence to paragraph.. Record list of accessories *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.4 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.5.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.1.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.1.2 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.2 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.2.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.2.2 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*



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3.5.2.3 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.5 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.6 Added another sentence to paragraph.. Record data *in Attachment C or equivalent form that contains the requirements of Attachment C.*

3.5.7 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.8 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.9 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.10 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.11 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.12.1 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.13 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.17 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.18 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.19 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.20 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.21 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.5.22 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*



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3.6 Deleted 3.6 Submit one legible copy, in approved transferrable media, of a report listing data recorded in 3.2.1, 3.2.2, 3.4, 3.5.1, 3.5.1.1, 3.5.1.2, 3.5.2 through 3.5.2.3, 3.5.5, 3.5.6, 3.5.8 through 3.5.11, 3.5.12.1, 3.5.13, and 3.5.17 through 3.5.22 to the SUPERVISOR. And renumbered.

3.10.1 Change 3.11.1.1 to 3.10.1.1

3.10.1.5 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.11 Added another sentence to paragraph.. Record data *in Attachment C or equivalent form that contains the requirements of Attachment C.*

3.12 Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.13 Clarification 3.14 Accomplish an operational test, *of the assembled* vaneaxial/tube axial fan,... and Added another sentence to paragraph.. Record data *in Attachment B-1 or equivalent form that contains the requirements of Attachment B-1.*

3.14 Clarification of paragraphs. 3.14 Submit one legible copy, in approved transferrable media, of a report listing data recorded in **3.5.1, through 3.5.2.3, 3.5.5 through 3.5.13, 3.5.17 through 3.5.22, 3.10.1.5, and 3.11 through 3.13** to the SUPERVISOR.

3.15 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.16 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.16.1 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.16.2 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.16.3 Added another sentence to paragraph.. Record data *in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.*

3.17 Reworded to include correct paragraphs... 3.17 Submit one legible copy, in hard copy or approved transferrable media, of a report listing data recorded in **3.2.1, 3.2.2, 3.4, 3.15, and 3.16 through 3.16.3** to the SUPERVISOR.

### **009-117 Combat Systems, Light-Off Support; provide**

3.2.3.1 (NEW) 3.2.3.1 Acceptance criteria is completion of 3.2.3.2 through 3.2.3.3.





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4E Summary of Change

## SEC II

D.1. Added Note and D.1.a NOTE: THE ADDITION OF INSPECTIONS OR TESTS (CHECKPOINTS) TO NAVSEA STANDARD ITEMS THAT WILL GLOBALLY AFFECT THE NAVSEA STANDARD ITEMS ARE NOT AUTHORIZED WITHOUT WRITTEN APPROVAL FROM THE SSRAC DIRECTOR. THESE CHANGES MUST BE SUBMITTED IN ACCORDANCE WITH THE SSRAC PROCESS FOR FINAL ADJUDICATION AND IMPLEMENTATION INTO FUTURE NAVSEA STANDARD ITEMS.

- a. Requests for deviations from Standard Items must be submitted in writing and routed to the SSRAC Director for adjudication and approval. A separate deviation request must be submitted for each availability and must fully explain the reason(s) for the deviation (i.e., why deviation is required, how planning would be affected, how availability would be impacted, etc). The RMC retains the authority to make changes to work items in a non-precedent setting situation. This does not include requests for deviation to technical requirements which may require a Departure From Specification (DFS). For instances when a DFS is required, the requirements of the Joint Fleet Maintenance Manual (JFMM) must be followed.

F. Added MSWTs to para.

## SEC IV

H. Deleted BSWTs Added CSWTs, to read: H. Planner's Notes should be used to explain "fill in the blank" information on MSWTs, CSWTs, SWTs, and LWTs. Planner's Notes may also be used to provide other types of | information that may be of value to the Planner, for example:

## SEC VII

A.2 (NEW) A2. When preparing SIs and LSIs reference revision designations (letters and/or numbers) will not be included.

B.2.c.(1) Deleted "Firemain Piping," and " • Quantity (25 FT), 8 Inch IPS Piping, 70/30 CUNI, CL 200, MIL-T-16420, 6 Inches Downstream Of The First Flange Downstream of Valve FM-256 To 6 Inches Upstream Of The Second Flange Downstream Of Valve FM-256"

B.3.c (3) Deleted and replaced with new verbiage.

(Deleted) "(3) Basic Government specifications (including the GSO, NSTMs,etc.), standards(including MIL, DOD, etc.), or NAVSEA Standard Plans shall be referenced without



Enclosure (2)

## 4E Summary of Change

prefix zeroes or suffix letters or numbers which identify revisions or amendments, i.e., MIL-STD XXX, followed by the title. For example:

MIL-STD-777, Schedule of Piping, Valves, Fittings, and Associated Piping Components for Naval Surface Ships

S9AA0-AB-GOS-010, General Specifications for Overhaul of Surface Ships (GSO)

S9086-RK-STM-010/CH-505, Piping Systems”

(NEW) “(3) Reference Titles within Work Items will:

(a) Appear as they appear on the reference document (i.e. Drawing Title Block, Technical Manual title).

(b) Capitalize the first letter of each word in a title with the exception of articles and short prepositions.

(c) Note the revision designation (letter and/or number) of each reference. If the reference is the first issuance, do not use Rev Ø, Rev – or Rev to indicate this.

(d) Examples include:

2.1 Standard Items (FY19)

2.2 MIL-STD-2003A, Electric Plant Installation Standard Methods for Surface Ships and Submarines

2.3 S9086-RK-STM-010 Rev 5/CH-505, Piping Systems

2.4 SL460-AA-HBK-010 Rev 1, Handbook for Inspection, Packaging, Handling, Storage, and Transportation

2.5 S9169-AE-SSM-010, LPD 17 Class Equipment Manual for Advanced Enclosed Mast/Sensor (AEM/S Mast)

2.6 807-5037131 Rev C, Antenna Group OE-373A/SPS-48E Outline and Installation Drawing”

B.3.c(8) Deleted PMS 400 to read: Appropriate Program Office...

B.3.c(9) (NEW) (9) A "zero-tier reference" is a specification, standard, drawing that is cited in the contract (including its attachments). A "first-tier reference" is either: (1) a specification, standard, or drawing cited in a zero-tier reference, or (2) a specification cited in a first tier drawing. All zero-tier and first tier references are mandatory for use. All lower tier references must be used for guidance only.



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B.4.d Changed list to “listed”

B.4.d.(1) (NEW) (1) In paragraph 3, once you have identified the location and equipment listed in 1.2 and 1.3, it is not necessary to repeat that identification throughout the requirements, unless different actions are being accomplished.

B.4.k.(2) Reworded added new NOTE, (2) In order to invoke inspections and tests requiring annotation with (I), (V), or (G) symbols, the following criteria must be met:

B.4.k.(2)(k) Deleted “re-“ from the fourth and fifth bullets

B.6.c Deleted PMS 400 replaced with “Activities may utilize the *appropriate Program Office* approved 4720/3 as a Reference for ShipAlt/AER, or repair kits.”

D. Added “Development” D. **DEVELOPMENT USE OF TEMPLATES(MSWT/CSWT/SWT/LWT/BWST):**

D.1. (NEW) D.1. When the use of an MSWT is directed it must be employed verbatim to ensure full completion of Class Maintenance Plan (CMP) Mandatory Technical Requirements (MTRs), except as exempted in Paragraph 2 below. Whenever an applicable CSWT is available, it must be used verbatim except as exempted in Paragraph 2 below. In the absence of a CSWT, an applicable SWT must be used verbatim except as exempted in Paragraph 2 below. LWTs must not be used for coast wide solicitations. If a MSC Template does not exist for the Expanded Ship Work Breakdown Structure (ESWBS) being addressed by a tasked WN, previously executed Work Items for the same or similar work may be reviewed as a starting point. Once identified, the applicable portions of that Work Item must be transferred to a BWST. The planner will make intentional selections thoroughly reviewing the copied information, ensuring it conforms to required technical (NSI) and contractual (4E) standards. This BWST will then be submitted as a proposed MSC template to the Local Standards Coordinator for review.

D.2 added NEW Note. **NOTE: THE ADDITION OF INSPECTIONS OR TESTS (CHECKPOINTS) TO MASTER SPECIFICATION CATALOG TEMPLATES (E.G., MSWT, CSWT, SWT) THAT WILL GLOBALLY AFFECT THE TEMPLATES ARE NOT AUTHORIZED WITHOUT WRITTEN APPROVAL FROM THE SSRAC DIRECTOR. THESE CHANGES MUST BE SUBMITTED IN ACCORDANCE WITH THE MSC PROCESS FOR FINAL ADJUDICATION AND IMPLEMENTATION INTO FUTURE TEMPLATES.**

D.4 Added NEW Note. **NOTE: WHEN CONVERTING A TEMPLATE TO A WORK ITEM, NO ADDITIONAL INSPECTIONS OR TESTS (CHECKPOINTS) WILL BE ADDED THAT ARE NOT IN COMPLIANCE WITH 4E.**



Enclosure (2)

## 4E Summary of Change

D.5.b. Reworded last sentence, Replaced stud thread protrusion must be a minimum of one full thread and not more than 10 full threads beyond the nut face.

E.7.a. (NEW) 7.a. Overlays must not be used on Work Items supporting work on non-nuclear surface ships, small boats and crafts.

G (NEW) DO use "must" when the provision is mandatory; "may" when the action is discretionary (non-mandatory); "will" denotes a required action in the future; "should" when the action is recommended and "must not" when the action is prohibited.

H. Changed "Shall be" to "Must be"

H.1. (NEW) PREFERRED NOT PREFERRED

Assemble	Re-Assemble
Assembly	Re-Assembly
Install	Re-Install
Installation	Re-Installation

### A-Phraseology

009-13 Gage to Gauge

009-45 Deleted 009-51 from NOTE and the "re"

009-79 Admin OWENED to OWNED

009-124 Admin SPAY to SPRAY

### B-Phraseology

B20e Deleted, same as B17e

B44c Changed, Accomplish the requirements of *Chapter \_\_\_\_ of 2. \_\_.*

B44e (NEW) Install each new hose assembly in accordance with Chapter \_\_\_\_ of 2. \_\_.

B44d (NEW) Install a new CRES identification tag on each flexible hose assembly engraved in accordance with Chapter \_\_ of 2. \_\_.

B44f (NEW) Use each existing flexible hose end fitting where identified acceptable after inspection in accordance with 2. \_\_.



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4E Summary of Change

**F-Phraseology**

F15a to read; NOTE: USE FOR REPLACE WITH NEW, INSTALL OR *INSTALL OF REMOVED* - EQUIPMENT.

HOOK-UP DATA COVERED BY 009-73.

F15b and NOTE Deleted

F37a Deleted

F37b Deleted