DEPARTMENT OF THE NAVY
COMMANDER
NAVY REGIONAL MAINTENANCE CENTER
9170 SECOND STREET, SUITE 245
NORFOLK, VA 23511-2325

4790
C200/413
29 Sep 2021

MEMORANDUM

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

Subj: FISCAL YEAR 2023 NAVSEA STANDARD ITEMS AND APPENDIX 4-E

Ref: (a) COMUSFLTFORCOMINST 4790.3
(b) NAVSEAINST 9070.1

Encl: (1) NSIs Summary of Change FY23
(2) Volume VII Appendix 4-E Summary of Change FY23

1. Per references (a) and (b), the Fiscal Year 2023 (FY23) 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-23*** Standard Items and Standard Phraseology must be invoked in CNO availabilities with an availability start date in ***FY-23*** that have not reached the 100% D Level Maintenance Work Package Lock Milestone and in all other (CMAV and emergent) procurements issued after ***01 March 2022***. Work items that have been previously planned utilizing ***FY-22*** Standard Items and Standard Phraseology, only need to be updated to reflect the ***FY-23*** requirements if they have not reached the 100% D Level Maintenance Work Package Lock Milestone.

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. James A. Simmons, Technical Director, 757-400-0020, james.a.simmons3@navy.mil

SIMMONS.JAMES.A.1367221522
Digitally signed by SIMMONS.JAMES.A.1367221522
Date: 2021.09.29 15:34:26 -04'00'

J. A. SIMMONS

Copy To:
SSRAC email

NSIs Summary of Change FY23

009-01 General Criteria; accomplish

CP 377 Align with 4E 3.6.3 Work Items will normally reference the basic Government Specifications, Standards, or NAVSEA Standard Plans. ***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.***

CP 310 Clarify use of CFR module 3.2.8.1 Use ***the CFR module in*** NMD, for contracts managed in NMD. |

CP 312 Added new 3.17.1 and 3.17.2

3.17.1 Conduct formal shift turnover of each work item for each shift.

3.17.2 Shift turnover must include a walkthrough with oncoming and off going supervisors responsible for the execution of the work. (i.e., Hot Work locations and boundaries, list of trades or subcontractors, critical evolutions (i.e., single valve, dive operations, critical lifts), and government check points.

009-04 Quality Management System; provide

CP 261 Added the term "***Work Complete (WC)***" to 3.10.2.1

CP 362 Added Work Complete **(WC)** as a key event requiring certification.

CP 263 Added to 3.10.2.2 "***unique identifier (number) that is used in both the TIP and IPS of 009-60,"***

CP 264 Added **Work Complete (WC)** to 009-04 Attachment "A" Key Event list**.**

CP 267 Added two paragraphs 3.10.2.5

3.10.2.5 Each test and inspection must not be removed.

3.10.2.6 Never have line items removed under any circumstances.
All line items added to the TIP must remain on the TIP throughout the entire availability.
The use of a 3.10.2.5 status will determine their progress.

CP 313 Added clarifying statement in support of 3.10.1.

3.10.1.1 Use NMD, or approved Web interface, to perform all TIP functions for contracts managed in NMD. ***TIP development in NMD using a Web interface satisfies the requirements of 3.10.1.***

CP 315 Added new ***3.10.2.7 Provide unique identification of test equipment used.***

CP 339 Added unique serialization number.

3.11.1 Include the ship's name and hull number, Job Order and Work Item number, ***a unique serialization number,*** applicable PCP number, paragraph number, component identification, accept/reject criteria, date, time, unique identification of test equipment used, signature ***blocks for the Government and*** contractor authorized representatives who witnessed or performed the test or inspection. The signature occurs after the checkpoint is determined to be satisfactory or unsatisfactory and any exceptions are documented.

CP 411 3.17 Certify to the SUPERVISOR that work is completed technically correct with all required OQE. All supporting documentation must be submitted in support of the following ***applicable*** Key Events: Undocking (if applicable), PCD, C5ILO, ***WC***, DT, FC, ST, and AC. ***Applicable*** Key Event ties must also be annotated for each item in the TIP as required by 3.10.2.1. Deleted ***(Not required for availabilities scheduled 9 weeks or less.)***

CP 428 Admin added comas to 3.10.2.2

CP 503 Added new verbiage to 3.8 support new Attachment "E"

….. Final response must include preventive action for recurrence of identified nonconformance, root cause analysis ***using Attachment "E"*** and Objective Quality Evidence (OQE) for corrective action completed. ***When a corrective action response is unsatisfactory, revised response required within 3 business days unless otherwise specified by the SUPERVISOR.***

CP 603 Deleted Ref 2.3 renumbered references (throughout body as well), clarified wording in 3.2.1.2 and added new 3.2.1.3

3.2.1.2 Calibration intervals assigned to Measuring and Test Equipment used by the contractor for acceptance testing must meet those recommended in 2.7 ***and shall reflect TMDE end of period reliability of greater than 85%. TMDE reliability data must be provided upon request.***

3.2.1.3 Test uncertainty ratios must be greater than 4:1, or ensure a probability of false acceptance of 2% or less, and a probability of false rejections of 15% or less.

009-05 Temporary Access; accomplish

CP 007 Admin fixed reference title 2.4 S9086-DA-STM-010***/CH-100, Hull Structures***

CP 008 Admin Deleted "Reinstall" and made 4E compliant by changing to "Install".

3.14 ***Install*** the temporary access removed in 3.8 in accordance with the approved drawing or sketch.

CP 352 3.9 Added to 3.14 to capture bolted and riveted access.

3.14 ***Install*** the temporary access removed in 3.8 ***and 3.9*** in accordance with the approved drawing or sketch.

CP 353 Updated to clarify gasket material,

3.14.2.1 Use new gasket material ***in accordance with NAVSEA approved drawings.***

CP 354 Deleted "V" Check point, Added "chalk test" to 4.3, Modified 3.15 to read,

3.15 Accomplish a chalk test on structural closure in way of temporary access. ***In accordance with NAVSEA standard items. (See Note 4.3)***

CP 436, 542, 571, 572, 570 Changed 009-05 to ***CAT I***

009-07 Confined Space Entry, Certification, Fire Prevention and Housekeeping; accomplish

CP 341 Added New 3.1.3.7 and renumbered 3.1.3.8

3.1.3.7 Calibrate or bump test per manufacturer instructions, Competent Person test equipment before each shift's use. Retain records for a minimum of three months after the completion of the availability and provide copies to the SUPERVISOR upon request.

CP 419 Added two new paragraphs in regards to dust collectors.

3.16 Stage dust collectors off the ship.

3.16.1 Submit each request for deviation to the Supervisor for adjudication. Deviation request must include a written risk mitigation plan.

CP 584 Developed Commercial Item Description (CID) and technical guidance to allow limited use of FRG products.

3.6 Use fireproof or fire-retardant covering in accordance with MIL-C-24576, such as fireproofed canvas, fire-resistant synthetic fabrics, non-combustible fabrics, metal covers in accordance with ASTM D6413, or other suitable materials, to protect ship's equipment from falling sparks or other potential sources of fire. ***Install coverings prior to commencing hot work and maintain throughout the hot work evolution. Fire Retardant Gel (FRG) products in accordance with CID A-A-60022 may be used in conjunction with approved fireproof or fire-retardant covering for additional fire and thermal protection. FRG products cannot be used as stand-alone fire protection. Remove FRG residue from ship's equipment in accordance with SSPC-SP 1 at the completion of hot work.*** Proper documentation of fire retardancy must be available for review upon request.

3.6.9 FRG products may be used on welding blankets, curtains or pads when performing hot work in areas with combustible materials that are not movable (such as cable ways) and to protect equipment. Remove all non-stationary combustible material within 35 feet where possible. FRG or coated blankets, curtains or pads must not be used in direct contact of the backside of welds or in close proximity to welds. FRG or coated blankets, curtains or pads must not be placed closer than the minimum required stripback distance for heat sensitive material (e.g. paint) or 6" whichever is greater. For applications where stripback is not

required, FRG or coated blankets, curtains or pads must not be placed closer than 6" to a weld. FRG or coated blankets, curtains or pads must not be used in direct contact with materials to be welded that are subject to Hydrogen Induced Cracking (HIC), are hardenable, have toughness testing requirements, are subject to elevated preheat temperatures (>60°F minimum) or interpass temperature controls, or require specific welding procedure qualification involving high and low cooling rate testing (e.g. high carbon or alloy steel, HY steel, HSLA steel, and duplex stainless steels).

CP 608 Added new FSC meeting requirements,

3.17 Provide cognizant management representation to participate in reoccurring Fire Safety Council meetings.

3.17.1 Cognizant management representation must be prepared to address fire safety, work, and energy control problems, and offer a reasonable solution to each problem, which may have impact on fire safety posture during the availability.

3.17.2 The representative(s) must be authorized to make each management decision relative to each routine fire safety decision of the Fire Safety Council that, in good faith, commit the contractor.

CP 575 Deleted (See NOTE 4.6) and NOTE 4.6 009-88 changed to CAT I renumbered follow on paragraphs.

009-08 Shipboard Fire Protection and Fire Prevention; accomplish

CP 316 New paragraphs added to address backup firemains.

3.1.1 If the ship's fire main system is unable to meet the requirements listed below, a temporary firemain system must be provided or a shore firefighting supply must be connected to fulfill firemain system requirements.

3.1.1.1 Installed ship's fire main must maintain sufficient fire pumps to supply daily system cooling and flushing (i.e., auxiliary) loads plus the fire protection water supply requirements contained in Attachment A.

3.1.1.2 Installed available ship's fire pumps must be physically located in different spaces. For ships requiring more than four operational pumps, up to 25 percent may be collocated.

3.1.1.3 Fire pumps must be powered from different switchboards or have operable automatic or manual bus transfers.

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

CP 017 Added verification of lagging, and new NOTE.

3.2.3.1 ***The safety brief must include a hand-over-hand inspection and verification of the tagged-out piping/mechanical/ electrical system when accomplishing work in Collection, Holding, and Transfer (CHT) and Motor Gasoline (MOGAS) tanks, spaces, or associated piping, including Sewage or MOGAS contaminated tanks, spaces, and piping. (See NOTE***

4.2)

4.2 When accomplishing work in CHT and MOGAS tanks, spaces, or associated piping, including Sewage or MOGAS contaminated tanks, spaces, and piping, is required; the use of Category II Standard Item 009-88 of 2.1 "Collection, Holding and Transfer (CHT) and Motor Gasoline (MOGAS) Tanks, Spaces, and Piping, including Sewage or MOGAS Contaminated Tanks, Spaces, and Piping; certify" will be specified in the Work Item.

CP 018 Added, (See NOTE 4.3) to 3.1, and new NOTE in 4

4.3 For boats and craft 65 feet and less in length modify section 3.1 to "Submit one legible copy of each PCP, in approved transferrable media, to the SUPERVISOR once approved by contractor. For planned availabilities, submission must be no later than 24 hours prior to start of the required process, or as otherwise approved by the SUPERVISOR. Attachment A is provided as suggestion to be used for PCP development."

CP 415 UPDATE 9/16/21: Adds New Attachment "E", Adopt as modified and indicated on the attached Word version of 009-09. Add the new paragraph 3.6 as indicated and renumber the existing 3.6 as 3.7. This change also adds a new "Att E" which is also attached. See also attached file 415 009-09_FY2x PROPOSED REPORT CHANGE_southwell Rev1

3.6 Unless otherwise approved by the SUPERVISOR, complete and submit one legible copy of Attachment B in hard copy or approved transferrable media within three days of completion of production work and prior to equipment operation or testing.

CP 575 3.2.3.1 Deleted (See NOTE 4.2) and NOTE 4.2 009-88 changed to CAT I

009-11 Insulation and Lagging; accomplish

CP 468 Admin "and to &" 2.9 S4823-C-3160935, Fasteners for Insulation ***&*** Lagging"

009-12 Weld, Fabricate, and Inspect; accomplish

CP 022 Admin O to 0, 2.13 S9AA***0***-AB-GOS-010, General Specifications for Overhaul of Surface Ships (GSO)

CP 024 Admin added title, 2.18 S9086-RK-STM-010/CH-505, ***Piping Systems***

CP 026 Added appropriate paragraph from reference,

3.6.7.1 Nondestructive Magnetic Particle and Liquid Penetrant testing accomplished to satisfy Operational Pressure Test Option requirements ***in accordance with 11.2.1.6*** of 2.18 and not already required by 3.6.2.2. - (I)

CP 027 Added new NOTE 4.3,

4.3 For boats and craft 65 feet or less in length in lieu of welder and NDT inspector qualifications identified in Table 4 repair facilities may use commercial qualification/certification. Acceptable commercial standards are such as American Bureau of Shipping (ABS) American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) as selected by the repair facility. The repair facility is responsible for maintaining appropriate procedures, materials and personnel qualifications and record

keeping to show compliance, or if welding is subcontracted, for imposing the same requirements on the supplier.

CP 030 Admin added to Table 2, **** PARAGRAPH 3.8 Applies***

CP 317 Admin Table 4,

Table 4 Column C Line 7 should read:

TO300-AU-SPN-010,

SECTIONS 3.5.2.1, 5.4.***1***, 6.2, AND 7.2

Table 4 Column C Line 8 should read:

TO300-AU-SPN-010,

SECTIONS 3.5.2.4, 5.4.***3***, 6.4, AND 7.4

CP 318 Admin,

Table 4 Column C Line 10 should read:

TO300-AU-SPN-010

SECTIONS 3.5.2.***2***, 5.5.3.4, 6.3, AND 7.3

CP 355 Deleted duplication of SDV in Attacment A,

Seal Delivery Vehicle .....SDV……. 4

CP 356 Deleted "FOR CLASS P-3a SPECIAL CATEGORY" from Table one, column B, Line 9 and 10.

CP 446 Action previously taken FY22

CP 474 Corrected title of reference,

2.15 S9CG***0***-BP-SRM-010/CG-47CL, ***Inspection, Testing, Fabrication, and Welding for Aluminum Superstructures During Repair, Alteration, and Modernization, for CG-47 Class Ships***

CP 497/023 Corrected 2.16,

2.16 ***DM 10-623, SERMC, Quality Assurance Requirements for Welding 5XXX Series Aluminum Structures for CG-47 Class***

CP 585 Deleted "steam service:" from 3.6.2 to read,

3.6.2 Welding/brazing of Class P-1, P-LT, P-3a piping systems or Class A-F, A-1, A-2, A-3, A-LT, M-1, T-1 welding, and Class P-2.

009-13 Meter, Gauge, Switch, and Thermometer; repair

CP 032 Added New Note For Small Boats,

4.8 For boats and craft 65 feet or less in length gages and meters do not require calibration unless boat or class of boats has been issued a Calibration Requirement List (CRL) or required by 3-M or 3-M like system used as the Preventative Maintenance System (PMS) for the boat.

009-17 Rotating Electrical Equipment; repair

CP 033 Attachment "C" Correcting Arrow location. Added 3.23 ***(See NOTE 4.12),*** added new NOTE 4.12,

4.12 Checkpoints (V) (G) are required for only generators, motor-generator sets, and Service A motors identified in references 2.13 and 2.14.

CP 035 Added two new References,

2.13 T9070-A2-DPC-010/302-1, AC motor and controller application requirements

2.14 MIL-DTL-17060, Motors, alternating current, integral-horsepower, shipboard use

CP 036 3.23.1, change "two" to "2",

3.23.1 Accomplish the requirements of 3.23 twice for ***2*** speed motors, once while operating at low speed, and once while operating at high speed. Record data in Attachment B-2 or equivalent form that contains the requirements of Attachment B-2.

CP 378 Deleted "V" Check Point from 3.7,

(V) "VARNISH TEMPERATURE, VISCOSITY, AND GEL TIME TESTS"

CP 475 Changed 2.9 to read;

2.9 MIL-DTL-17060, ***Motors, Alternating Current, Integral-Horsepower, Shipboard Use***

009-18 Mine Warfare Ships Magnetic Material; control

CP 037 3.3 Corrected reinstalled to ***installed***. 4.2 Corrected reinstallation to ***installation***.

009-20 Government Property; control

CP 417 3.2.3 Clarifying GFM requirements, and new supporting subparagraphs.

3.2.3 ***Inspect GFP within 30 days of receipt or no later than 5 days of required use, whichever comes first, performing an inspection of the contents of the items shipped to verify:***

3.2.3.1 Identity/kind of the material: Verify the material within container, as well as P/N and/or NSN, meets the description provided on the shipping documentation and associated Work Item.

3.2.3.2 Count of material: Visually count all items and ensure it meets the quantity indicated on shipping documentation and associated Work Item.

3.2.3.3 Condition of the material: Perform visual verification of the physical appearance of material, ensuring the packaging and/or material is not damaged, which may result in a questionable or failed visual inspection.

009-23 Interference; remove and install

CP 039 3.2.4 reinstallation to ***installation***

3.5.1 reinstallation to ***installation***

3.5.3 reinstallation to ***installation***

3.5.8.1 reinstalled to ***installed***

3.5.10 reinstalling to ***installing***

3.6 reinstalled to ***installed***

CP 040 3.3.1 Reporting time changed from 14 to 5 days.

3.3.1 Submit one legible copy, in approved transferrable media, of a report listing previously damaged and deteriorated interferences to the SUPERVISOR within ***5*** days after removal.

CP 359 Added New paragraph 2.19 and renumbered remaining paragraphs.

3.1.19 Collection, Holding and Transfer (CHT)

CP 370 New Reference and Paragraphs to cover Adhesively Mounted Studs.

2.7 803-8436636, Studs, Adhesively Mounted

3.5.15 Accomplish the requirements of 2.7 for limited applications, subject to SUPERVISOR approval. When Adhesively Mounted Studs are used, each location of each stud and dates of installation must be documented for future maintenance.

3.5.15.1 Submit one legible copy, in approved transferrable media, of a report listing locations and dates of installation of Adhesively Mounted Studs installed to the SUPERVISOR. The report may be used for future maintenance.

CP 431 Added new 3.5.14, Deleted "tightness", from 3.6.

3.5.14 Accomplish the requirements of 009-25 of 2.1 for Disturbed Structural Boundary Test.

3.6 Align and accomplish appropriate strength, system cleanliness, and operational tests and | ensure that the ***installed*** interferences perform their normal functions within the system.

CP 470 corrected title to 2.6, 2.6 S9086-RK-STM-010/CH-505, ***Piping Systems***

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

CP 041 Admin Oto 0; 2.6 S9AA***0***-AB-GOS-010, General Specifications for Overhaul of Surface Ships (GSO)

CP 320 Deleted 2.11 802-5959353, MIL-STD-777D Modified for DDG-51 Class, Schedule of Piping, Valves, Fittings, and Associated Piping Components and where it was referenced to in 3.9.

Renumbered 2.12 to 2.11fixed associated paragraphs.

CP 384 Added to Serialization requirement to 3.5,

3.5 Complete and maintain a written record by work item using Attachment A (Accountability of Temporary Blanks and Plugs Check-Off Sheet), verifying installation and removal of temporary blanks/plugs used for Foreign Material Exclusion (FME), isolation of pressure boundaries, or hydrostatic testing. Location information must include the associated system/equipment name or tank number; frame, port or starboard, below or above water line. ***Serialization is required for temporary blanks used for isolation of pressure boundaries, or hydrostatic testing).***

CP 385 Added Attachment A or equivalent statements to following paragrphs.

3.5 Complete and maintain a written record by work item using Attachment A ***or equivalent contractor developed form that contains the all fields contained in attachment A*** (Accountability of Temporary Blanks and Plugs Check-Off Sheet), verifying installation and removal of temporary blanks/plugs used for Foreign Material Exclusion (FME), isolation of pressure boundaries, or hydrostatic testing. Location information must include the associated system/equipment name or tank number; frame, port or starboard, below or above water line. ***Serialization is required for temporary blanks used for isolation of pressure boundaries or hydrostatic testing.***

3.5.1 Ensure the Accountability of Temporary Blanks and Plugs Check-Off Sheet (Attachment A) ***or equivalent contractor developed form that contains the all fields contained in attachment A*** is at all tank closings; ensure the removal of blanks/plugs in tanks are verified

and documented via signature on the check-off sheet by Ship's Force representative and the SUPERVISOR prior to tank closing. Attachment A ***or equivalent contractor developed form that contains the all fields contained in attachment A*** must be retained with contractor's inspection records and made available to the SUPERVISOR upon request.

3.5.2 Maintain the Accountability of Temporary Blanks and Plugs Check-Off Sheet (Attachment A) ***or equivalent contractor developed form that contains the all fields contained in attachment A*** for the duration of the availability.

3.5.2.1 Maintaining the Accountability of Temporary Blanks and Plugs Check-Off Sheet (Attachment A) ***or equivalent contractor developed form that contains the all fields contained in attachment A,*** for material that has been removed from the ship is not required; however, that material must be entered in the Accountability of Temporary Blanks and Plugs Check-Off Sheet (Attachment A) ***or equivalent contractor developed form that contains the all fields contained in attachment A,*** when material is returned to the ship.

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, ***or equivalent contractor developed form that contains the all fields contained in attachment A*** ,associated with that Work Item.

3.5.3.1 Attachment A, ***or equivalent contractor developed form that contains the all fields contained in attachment A,*** must be retained with contractor's inspection records and made available to the SUPERVISOR upon request.

CP 471 Corrected reference title, 2.8 S9086-RK-STM-010/CH-505, ***Piping Systems***

CP 476 Corrected reference title, 2.3 9002-AK-CCM-010/6010, ***Industrial Ship Safety Manual for Submarines***

CP 478 Corrected reference title, 2.9 845-4612172, ***Hydrostatic Test Blanks-Flanged & Welded***

CP 533 Added guidance to 3.8 for cleanliness levels assigned in 2.6 and deleted 3.8.1-3.8.1.2

3.8 Maintain the cleanliness of new, modified, repaired and disturbed non-nuclear piping systems and components of nuclear and non-nuclear powered naval vessels in accordance with 2.6 through 2.8. Cleanliness levels must be as assigned in ***section 505j2*** of 2.6.

CP 597 Replacement of existing non-level temporary fasteners, plugs, etc blaze orange requirement to white.

3.7 Install and maintain blanks/plugs, nuts and bolts, painted ***white*** for use as FME immediately upon openings in equipment, valves, and piping systems not subject to pressure to prevent entry of foreign material and protect flanges and threaded areas. Existing system fasteners used for blanking that will be reused for installation are excluded from the requirement for ***white*** color

. FME may be used for systems normally under pressure but are tagged-out for maintenance. The use of cloth, polyvinyl sheet, paper, tape, and rubber sheeting as FME is prohibited. All FME material must be applied with care, without using excessive force, to avoid damage to surfaces/components being protected.

3.9 Install and maintain blanks/plugs, nuts and bolts, colored ***white*** that will be used for hydrostatic testing on equipment, valves, and piping systems in accordance with 2.9 to withstand maximum system pressure for systems which will serve as the primary or secondary barrier to support hydrostatic testing. Existing system fasteners used for blanking that will be reused for installation are excluded from the requirement for ***white*** color. Secure blanks in place with gaskets and fasteners in accordance with 2.10 or weld in place. Ensure welding requirements for blanks meet the same requirement as the piping welds, in accordance with 2.8, 2.***11***, and 009-12 of 2.1. The use of cloth, polyvinyl sheet, paper, tape, and rubber sheeting as blanks is prohibited. DC plugs, wood, or wood products are prohibited as blanks on pressurized systems, but may be used on non-pressurized systems to include gravity drain piping.

009-25 Structural Boundary Test; accomplish

CP 043 Admin changes,

3.1., change "two" to "2".

3.1.6.1, change "five" to "5"

3.2.1, change "two" to "2"

3.2.7.1 change "five" to "5"

3.7.3 change "three-fifths" to "3/5"

CP 598 Added to 3.7 , and deleted 4.2.

3.7 ***Prior to strength or compartment test,*** accomplish a chalk test of each knife edge and gasket on watertight doors, hatches, and scuttles.

CP 600 Air pressure change.

3.4.1 Use a one and one-half inch hose with a minimum nozzle diameter of one-half inch. Pressure at the nozzle must be ***no less than 50 PSIG*** at a maximum distance of 10 feet from the surface being tested.

009-26 Deck Covering; accomplish

CP 044 Admin use of each.

3.5.1.1 Chip and grind ***each surface*** flush and smooth in way of ***each removal.***

CP 045 Deleted Type I,

3.9.3.2 The use of a waterproof membrane is not required in areas where MIL-PRF-32584, Types II or III products are used ***as specified in Table 2.***

CP 046 Added to attachment G, 1. MIL-PRF-24667, Type XI nonskid must be installed in locations listed in Tables One and 2 ***and listed within 2.3.*** Exterior applications for MIL-PRF-24667, Type XI nonskid are located in Table 2 of 009-32 of 2.1.

Added New Reference ***2.3 OPNAV 5100.19, Navy Safety and Occupational Health Program Manual for Forces Afloat***

CP 427 Added New Note Table one Line 21 LATEX CONCRETE,
MIL-PRF-32584, TYPE VI, SEE NOTE (11) ***& (12)***

(12) Do not topcoat latex concrete installed in magazines and ammunition holds. For magazine areas without latex concrete, paint steel decks with the epoxy system of surrounding decks. Large magazine areas receive nonskid in accordance with MIL-PRF-24667 as directed by the SUPERVISOR. Small magazines areas are topcoated with haze gray #26270 MIL-PRF-24635 Type V/VI paint, with the exception of saluting charge and OTTO fuel magazines which are painted white, MIL-DTL-24441, tType IV, Formula 152.

CP 505 New direction for color coat Attachment C 1. E and F,

E. For complete replacement of color-flake deck coverings, apply base coat, color coat, color chips and sealer coat (as applicable for the specified Class) in accordance with NAVSEA-reviewed ASTM F-718s and/or manufacturer's instructions submitted in 3.2. Color chips must be applied to the color coat in an even distribution. ***The*** color chip area to total color coat area ratio ***must be installed in accordance with the color-flake percentage as specified on the QPL***. When multiple sealer coats are required, lightly abrade each sealer coat and solvent wipe the abraded surface before applying the next coat.

F. For resealing of color-flake deck coverings, abrade the existing sealer coat. Apply new color chips to maintain the chip coverage of the color coat. ***Apply*** sealer coat in accordance with NAVSEA-reviewed ASTM F-718s and/or manufacturer's instructions. Repair localized areas of torn, punctured or defective base coat to achieve a consistent appearance. When multiple sealer coats are required, lightly abrade each sealer coat and solvent wipe the abraded surface before applying the next coat.

009-33 Rotating Electrical Equipment; rewind

CP 109 CP 033 from 009-17 Attachment "C" Correcting Arrow location.

CP 135 Added New Reference and New Note 4.10, ***2.13 T9070-A2-DPC-010/302-1, AC MOTOR AND CONTROLLER APPLICATION REQUIREMENTS***

4.10 If having difficulty determining motor Service Class, utilize 2.13 as a guide.

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

CP 110 Deleted (V) "INSPECT CRANE" from 3.5.

CP 408 Admin Change Reference 2.6 to Reference 2.5 in paragraph 3.6.

009-56 Main Propulsion Boiler Wet Lay-Up; accomplish

CP 484 Admin added a – in reference number,

2.1 S9086-GX-STM-020/CH-220, Boiler Water/Feedwater Test and Treatment

009-57 Reduction Gear Security; accomplish

CP 268 New MRG enclosure requirement,

3.6.3 An enclosure is not required for work involving temporary MRG dehumidifier systems and extended lay-up. For work involving temporary MRG dehumidifier systems and extended lay-up in 3.1.2, ensure 3.3.5 and 3.3.5.1 are accomplished.

009-60 Schedule and Associated Reports for CNO Availabilities; provide and manage

CP 269 Added New paragraph,

3.1.1.3 When calling out the Key Events for any Work Activity, the following KE acronyms shall be used - AC, C5ILO, DT, FC, UD, PCD, WC, and ST.

CP 363 New Note 4.1.33,

4.1.33 CNRMC Instruction 4711.1 OPEN AND INSPECT REPORTS; POLICY provides guidance for the request and approval process for additional O&I milestones.

CP 593 Multiple paragraphs,

3.1.2.1 Assign each Work Activity with the appropriate predecessor and successor relationships within the contractor's scheduling software that establish the logic relationship between schedule Work Activities. Each activity must have at least one predecessor and one successor, with the exception of the Key Event Start Availability (which may have no predecessors) and the Key Event Complete Availability (which may have no successors). Each Event and Activity may have more than one predecessor and more than one successor. ***The majority of relationships within the detailed schedule should be Finish-Start however, work that is concurrent or in parallel should be scheduled as start-start or finish-finish accordingly.*** The use of scheduling Lags and Leads must be minimized.

Table 1

ICN / ***Task Number*** (as appropriate)	Industrial Control Number (ICN): AIM/PSS system identifier for naval shipyard and FMA work ***and for private shipyards the unique identifier (Task Number) from AIT, Government-Contracted Third Party Maintenance Providers, S/F, CIS, FMA, and other maintenance providers Plan of Actions and Milestones (POAM).***

3.1.8 Develop an export of the IPS data elements in a sortable/filterable spreadsheet format compatible with Microsoft Excel. ***The spreadsheet must include a column for each of these elements laid out in the order presented in table one from left to right. For AIT Installed alterations the Alt Type and Number should be entered in the Work Item Number field.***

3.3 Develop a Critical Path Network in Precedence Diagram Method (PDM) format that displays only the Critical Path ***sequences*** of the availability with associated Key Events and Milestones. Display Critical Path at the Work Activity level to provide visual representation of the logic relationships between displayed Work Activities.

3.6.1 The representative must meet with the ***SUPERVISOR,*** AIT, Government-Contracted Third Party Maintenance Providers, S/F, CIS, and FMA between contract award and A-0. Commencing at A-0, this engagement must occur daily to compare and coordinate programmed AIT, Government-Contracted Third Party Maintenance Provider, S/F, CIS, and FMA work with the IPS.

4.1.1 Critical Path Method: ***The critical path method is used to derive the critical activities —that is, activities that cannot be delayed without delaying the end date of the program. The amount of time an activity can slip before the program's end date is affected is known as "total float." Additionally, the critical path method*** used for planning and executing complex, interdependent projects that identifies the Critical Path to each Key Event and Milestone using automated Network Analysis Tools. ***Unless the IPS represents the entire scope of effort and the effort is correctly sequenced through network logic, the scheduling software will report an incorrect or invalid critical path. That is, the critical path will not represent the activities affecting the program finish date. With no accurate critical path, management cannot focus on the activities that will be detrimental to the program's key milestones and finish date if they slip.***

4.1.4 Integrated Production Schedule (IPS): A schedule used by the contractor as a means of planning, tracking, coordinating and de-conflicting work during the availability. It incorporates all work planned for accomplishment during the maintenance availability including; Alteration Installation Team (AIT), Government-Contracted Third Party Maintenance Providers, Ship's Force, Commercial Industrial Services (CIS), and Fleet Maintenance Activity (FMA) work

. ***An IPS connects all the scheduled work of the government and the contractor in a network, or collection of logically linked sequences of activities. The sequences clearly show how related portions of work depend on one another, including the relationships between the government and contractors.***

009-61 Shipboard Use of Fluorocarbons; control

CP 424 Updated 3.5, 3.8, New 3.8.1 and added to 4.1,

3.5 A certified technician must, as required by 2.3, pressure test the fluorocarbon charging and flushing handling equipment, i.e., hoses, piping, valves, fittings, and manifolds, using dry nitrogen with trace amounts of ***HFC-134a*** compound at 150 percent of charging equipment working pressure within 30 days prior to use aboard ship. Hold test pressure for 15 minutes. Allowable leakage: None.

3.8 A certified technician must, as required by 2.4, ensure that fluorocarbon gases are not vented to the interior of the ship or to the atmosphere when pressure is released from the system by utilizing ***recovery***/recycling equipment tested and certified by an Environmental Protection Agency (EPA) approved laboratory or organization.

3.8.1 ***All CFCs, HCFCs, HFCs, and Halons must be recovered for either recycling back into the same system/piece of equipment from which the material was recovered, collected for turn-in to the DoD ODS Reserve (CFC-11, CFC-12, CFC-114, R-500, R-502, HCFC-22, Halon 1211, and Halon 1301), or collected for eventual reclamation by an EPA-certified refrigerant reclaimer (for refrigerants not included in the ODS Reserve).***

4.1

Chlorodifluoromethane, Freon 22, R-22 (HCFC-22)
Hexafluoropropane, R-236fa (HFC-236fa)
R-404A, A blend of HFC-125, HFC-143a and HFC-134a
R-407A, A blend of HFC-32, HFC-125, and HFC-134a

009-63 Lubricating Oil and Hydraulic Fluid; analyze

CP 112 Added new Note 4.1, Added *(See NOTE 4.1) to 3.1, 3.5, 3.6, and 3.7.*

4.1 For boats and craft 65 feet or less in length modify sections 3.1, 3.5, 3.6 and 3.7 to include Original Equipment Manufacturer (OEM) laboratories, procedures, specifications and test results.

CP 582 Rewrite

009-67 Integrated Total Ship Testing; manage

CP 113 Admin O to 0,

2.2 S9AA***0***-AB-GOS-010, General Specifications for Overhaul of Surface Ships (GSO)

009-69 Heavy Weather/Mooring Plan; provide

CP 487 Deleted "Rev 3" From 2.1.

2.1 845-6686999 US Navy Vessel Water Depth, Mooring and Hull/Appendage | Clearance Requirements for Transit and Berthing

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

CP 575 3.1.1.1 Deleted (See NOTE 4.6) and NOTE 4.6 009-88 changed to CAT I

009-71 Piping System; test

CP 115 3.5 Change from "3.2 through 3.7.3" to "3.2 through 3.4".

3.5 Submit one legible copy, in approved transferrable media, reporting the results of the test listing the requirements of 3.2 through ***3.4***, including local(s) of the new and disturbed gravity drain/new and disturbed sounding tube piping to the SUPERVISOR.

CP 488 Corrected title in 2.2,

2.2 S9086-RK-STM-010/CH-505, ***Piping Systems***

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

CP 489 Corrected title in 2.1,

2.1 ***DODI 2000.16, DOD Antiterrorism (AT) Program Implementation: DOD Force Protection Condition (FPCON) System***

CP 606 Added reference 2.4, and Attachment A added f. ,

2.4 Performance Specification for the Antiterrorism / Force Protection Boat Barriers 20090329 PRF BB

f. Barrier design will be in accordance with Tables 8, 9, 10, and 11 of 2.4. Table 9 Maximum Survival SOW will be 64. Table 11 Stopping Capability SOW will be 520,000 ft-lbf or more and required percent of small boats of 65 feet or less stopped is 99% or greater.

009-73 Shipboard Electrical/Electronic Cable Procedure; inspect, test, install, remove, and repair

CP 328 Added New 3.3.3, edited 3.4.9, New 3.4.10, New 3.4.11, edited 3.6.2, Added New 3.6.3, and Added New 3.6.4.

3.3.3 Test each cable for conductor continuity, complete circuit, all swept electrical parameters, and bandwidth using a SCAT 4465 cable tester. Ensure cable connectors are tight.

3.4.9 Accomplish the requirements of ***3.3.2 through 3.3.1.4*** immediately prior to conductor or cable termination.

3.4.10 ***Accomplish requirement 3.3.2 immediately prior to conductor or cable termination except for cables conforming to MIL-DTL-24643/59 - 77.***

3.4.11 ***Accomplish requirement 3.3.3 for cables conforming to MIL-DTL-24643/59 - 77 after cable termination.***

3.6.2 Accomplish the requirements of ***3.3 through 3.3.1.4*** for disconnected cables.

3.6.3 ***Accomplish requirement 3.3.2 for disconnected cables except for cables conforming to MIL-DTL-24643/59 - 77.***

3.6.4 ***Accomplish requirement 3.3.3 for disconnected cables conforming to MIL-DTL-24643/59 - 77.***

009-74 Occupational, Safety and Health Plan; accomplish

CP 421 New 3.30 and 3.30.1 beefed up training requirements,

3.30 Comply with the requirements of 2.2 and 2.10 while operating a crane, multi-purpose machine, and material handling equipment that may be used in a crane-like application to lift a suspended load.

3.30.1 Report immediately to the SUPERVISOR, crane, multi-purpose machine, and material handling equipment that may be used in a crane-like application accidents on the vessel, in the dry dock or adjacent pier while at a non-government facility.

CP 581 Added clarification to 3.7,

3.7 Ensure Material Handling Equipment (MHE) ***is operated and maintained in accordance with 2.2 and manufacturer's specifications. Ensure*** Aerial Work Platforms (AWP) are operated and maintained in accordance with 2.3 and manufacturer's specifications.

009-75 Circuit Breaker; repair

CP 121 3.4 Reassemble to Assemble.

009-77 Cofferdam Installation; accomplish

CP 122 3.2 Corrects reference to Note 4.4 to correct Note 4.***3***.

CP 123 Added New Note

4.4 For boats and craft 65 feet or less in length in lieu of Commanding Officer approval in sections 3.2.2 SUPERVISOR will provide the government approval. In sections 3.3 and 3.4 notifications will be to SUPERVISOR vice Ship's Force.

009-83 Wire Rope Assembly; Fabricate

CP 490 Updated superseded MIL SPEC to, 3.1.6 ***BLOCKS - A-A-59985***

009-84 Threaded Fastener Requirements; accomplish

CP 125 Deleted 009-14 the NSI was deleted in FY19 CH-3.

CP 426 Added New Reference ***2.3 MIL-STD-777***

3.1.4.1 Utilize table one, 2.2 ***and 2.3,*** to select each replacement fastener when necessary.

CP 596 Change Temp Fasteners from blaze orange to white,

3.4.2 Paint temporary fasteners ***white*** unless an alternate color has been authorized by the SUPERVISOR. Minimum requirements for painting fasteners are as follows:

009-86 Recovery and Turn-In of Ozone Depleting Substance (ODS); accomplish

CP 425 Updated reference 2.2, added to 3.1 HCFC-22, updated 3.1.2, updated shipping address in 3.3, and, changed 4.1 to read.

2.2 Department of Defense ODS Reserve Customer Turn-In Procedures, Defense Logistics Agency, dated February 2021

3.1 Recover Chlorofluorocarbons (CFC) ***and HCFC-22*** refrigerants and halon materials listed in Attachment A that are not recycled back into the specific system's equipment from which they were removed as follows:

3.1.2 Recover other halon and CFC materials for turn-in to the DoD ODS Reserve at the Defense Depot Richmond VA (DDRV). ***All turn ins must be returned to DDRV unless the activity is in Japan, Hawaii or San Diego, California.*** Empty cylinders must be used to recover the materials. Empty recovery cylinders can be requisitioned through normal MILSTRIP stock ordering procedures from DDRV. ***The DDRV cylinders used for recovering refrigerants are painted orange, and Halons red. Both have yellow tops and dual port (two valves) to distinguish them from single port valve standard spec gas (virgin) cylinders.***

3.3

SW0400,

DLA DISTRIBUTION RICHMOND, ODSR

Cylinder Operations, Open Shed 6,

8000 Jefferson Davis Highway,

Richmond, VA 23297-5900

4.1 ***If your activity is personally transporting ODS to the DoD ODS Reserve, carriers making deliveries must use only Gate 13, located off State Route 150, Chippenham Parkway, (Exit 67 from I95), 1/4 mile west of U.S. Highway 1 and 301, Strathmore Road/DDRV/DSCR Exit, between 8:00 A.M. and 12:00 Noon, Monday through Friday, excluding holidays. (GPS users can enter "Strathmore Road and G Road" to locate this entrance) Carriers should contact Mr. Otis Dowdy for directions or upon arrival at the Depot at Work: 804-279-2821 or Cell: 804-543-4404. Please make sure the material is properly marked, palletized, and banded.***

009-87 Chemical Disinfection Procedure; accomplish

CP 442 Deleted 4.1 and moved to new 3.8,

3.8 Mixing or taking calcium hypochlorite in dry powder form aboard ship is prohibited.

009-88 Collection, Holding and Transfer (CHT) and Motor Gasoline (MOGAS) Tanks, Spaces, and Piping, including Sewage or MOGAS-Contaminated Tanks, Spaces, and Piping; certify

CP 504 Added for clarification to 3.1.1 and new 3.1.2, renumbered follow on paragraphs,

3.1.1 A National Fire Protection Association (NFPA) Certified Marine Chemist must be present ***and personally certify the initial opening or entry of CHT or MOGAS tanks and spaces and the initial opening of associated piping.***

3.1.2 Comply with subpart B of reference 2.2 for the reentry of CHT or MOGAS tanks and spaces and reopening of associated piping. Accomplish the requirements of 3.1.1 if the system was restored and opening or entry into the system is required.

CP 437, 573, 574, 575 Steering Committee AI Change 009-88 to **CAT I**

009-89 Contractor Furnished Anode Purchase and Inspection; accomplish

CP 520 Deleted 3.4, 3.6, and added new Note,

4.1 ***Anodes as defined in this NSI are hull, shaft, and rudder anodes. All equipment anodes shall be replaced in accordance with Original Equipment Manufacturr (OEM) guidance using only OEM approved anodes.***

009-95 Mechanically Attached Fitting (MAF); install

CP 491 Admin corrected title 2.2,

2.2 S9086-RK-STM-010/CH-505, ***Piping Systems***

009-103 Weight and Moment Change Data; provide

CP 331 NSTM Chapter 096 provides guidance for weight and moment reporting and was added as reference.

2.1 NAVSEA S-9086-C6-STM-000/CH 096, Naval Ships' Technical Manual

3.1.1 Maintain an account of weight and moment changes resulting from work accomplished during the availability ***in accordance with 2.1*** as follows:

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

CP 492 Admin 2.4 correct title,

2.4 S9086-RK-STM-010/CH-505, ***Piping Systems***

CP 534 Deleted reference 2.8, multiple changes throughout 3. And 4., please see 009-107 FY23

CP 601 Added new verbiage to multiple paragraphs, please see 009-107 FY23

Ex.. 3.2.1 Verify cleanliness in accordance with acceptance standards ***for each leg of the flush when multiple flushing legs are used or a single verification if one complete system flush is used.***

009-111 Schedule and Associated Reports for non-CNO Availabilities; provide and manage

CP 433 Added new Note to Table 1, and made multiple changes to Table 1 requirements,

Note: some requirements may be submitted as separate attachments as specified within the table.

CP 593 Update Notes section,

4.1.1 Critical Path Method: ***The critical path method is used to derive the critical activities —that is, activities that cannot be delayed without delaying the end date of the program. The amount of time an activity can slip before the program's end date is affected is known as "total float." Additionally, the critical path method*** for planning and executing complex, interdependent projects that identifies the Critical Path to each Key Event and Milestone using automated Network Analysis Tools. ***Unless the IPS represents the entire scope of effort and the effort is correctly sequenced through network logic, the scheduling software will report an incorrect or invalid critical path. That is, the critical path will not represent the activities affecting the program finish date. With no accurate critical path, management cannot focus on the activities that will be detrimental to the program's key milestones and finish date if they slip.***

4.1.4 Integrated Production Schedule (IPS): A schedule used by the contractor as a means of planning, tracking, coordinating and de-conflicting work during the availability. It incorporates all work planned for accomplishment during the maintenance availability including; Alteration Installation Team (AIT), Government-Contracted Third Party Maintenance Providers, Ship's Force, Commercial Industrial Services (CIS), and Fleet Maintenance Activity (FMA) work. ***An IPS connects all the scheduled work of the government and the contractor in a network, or collection of logically linked sequences of activities. The sequences clearly show how related portions of work depend on one another, including the relationships between the government and contractors.***

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

CP 033 from 009-17 Attachment "C" Correcting Arrow location.

CP 135 Added New Reference 2.12 and New Note 4.11,

2.12 T9070-A2-DPC-010/302-1, AC MOTOR AND CONTROLLER APPLICATION REQUIREMENTS

4.11 If having difficulty determining motor Service Class, utilize 2.12 as a guide.

CP 493 Admin Corrected Reference title 2.4,

2.4 ***S***9086-DA-STM-010-/CH-100, Hull Structures

009-120 Fact Finding and Critique of Unplanned Event; manage

CP 136 Added New Note to define Fires,

4.1.12 Fires are unintended states, processes, or instances of combustion in which fuel or other material is ignited and combined with oxygen, giving off smoke, sparks, or flame. Smoke or sparks may or may not be present. However, if unexpected smoke or sparks exist, a fire

should be assumed to exist (this is especially relevant to Class 'C' fires when the smoke or sparks cease after power is secured).

CP 605 Added to examples 1.3.2.2, and deleted ((Not administrative errors) from1.3.1.2,

1.3.2.2 - ***Breakdown in Work Control Tag Out processes not leading to personnel injury or equipment damage.***

009-122 Temporary Padeye; install and remove

CP 332 CP 360 CP 498 Multiple changes listed below,

2.4 ASME BTH-1-2017. Design of Below-the-Hook Lifting Devices

3.1 ***Design and*** fabricate each temporary padeye and rigging attachment in accordance with 2.2 ***through 2.4.***

3.1.1 Except as specified in 3.1.1.1, each temporary padeye for weight handling on surface ship and non-nuclear loads must be designed ***in accordance with 2.2 and 2.4.***

3.1.2 Submit one legible copy, in hard copy or approved transferrable media, of a report listing the design of each planned temporary padeye not in compliance with 2.2 ***and 2.4*** SUPERVISOR approval 7 days prior to planned installation. Include material specification, dimensional drawing(s), weld joint design, ***intended use,*** and installation location.

3.2 Install and inspect each temporary padeye in accordance with 2.2 ***through 2.4***.

3.3.1 For steel temporary padeyes with a Safe Working Load (SWL) over “2,000” ***pounds*** accomplish ***VT and*** MT in accordance with 2.3.

3.3.2 For steel temporary padeyes with a SWL “2,000” ***pounds and less*** | accomplish VT in accordance with 2.3.

3.3.***3*** For aluminum temporary padeyes with a SWL over “1,500” pounds accomplish ***VT and*** PT in accordance with 2.3.

3.3.4 For aluminum temporary padeyes with a SWL “1,500” pounds ***and less*** accomplish VT in accordance with 2.3.

3.5 ***(I) NON-DESTRUCTIVE TESTING***

3.5.1 ***Inspect each removal site in accordance with the requirements of 009-12 of 2.1, including Table 2 Columns A, B, or C, lines 6, 7, 10, and 11, in accordance with reference 2.3.***

3.5.1.1 ***Accomplish MT inspection in accordance with 009-12 of 2.1, including Table 2, Column B, line 11 for all temporary padeye removals from HY-80/100 and HSLA 100/115 primary structure (CVN only).***

3.5.2 Accomplish the welded repair requirements of 009-12 of 2.1, including Table 2, Column A, B, or C, lines One through 11 in accordance with reference 2.3.

009-123 Fiber Optic Component; inspect, install, repair, remove, and test

CP 140 3.4.3 Deleted the word "conventional"

CP 141 Added when required by 2.3,

3.4.16 Accomplish the tube seal verification test of Method 6J1 of 2.3 after installation of connectors, ***when required per 2.3,*** and for unused BOF tubes within BOF cables. Accomplish the ball bearing test of Method 6H1 of 2.3 for unused BOF tubes within BOF cables.

CP 351 Admin updated reference 2.6,

2.6 ***CNSSAM TEMPEST/01-13, (U) RED/BLACK Installation Guidance***

CP 142 Added new reference to 3.2.1, and new 3.2.1.1,

3.2.1 Submit one legible copy, in hard copy or approved transferrable media, of a report listing results of the requirements of 3.2 including cable installation conditions not in compliance with 2.3 ***and 2.6*** to the SUPERVISOR within 4 days of completion of inspections.

3.2.1.1 Report shall state if cable installation inspections resulted in no compliance issues.

009-124 Thermal Spray Nonskid Application; accomplish

CP 145 CP146 CP 147 CP 148 CP 149 CP 150 CP 151 CP 152 CP 345 CP 347 CP 348 CP 502 CP 531 Multiple changes to Body text, Attachment B, C, D, to many to list. (See Preliminarily Post markup)

009-125 Boats Less Than 65 Feet Long; accomplish

CP 597 Replacement of existing non-level temporary fasteners, plugs, etc blaze orange requirement to white.

3.6.4 Install and maintain each blank/plug, nut and bolt, painted ***white*** for use as FME immediately upon each opening in equipment, valve, and piping system not subject to pressure to prevent entry of foreign material and protect each flange and threaded area. Each existing system fastener used for blanking that will be reused for installation are excluded from the requirement for blaze orange color. FME may be used for each system normally under pressure but are tagged-out for maintenance. The use of cloth, polyvinyl sheet, paper, tape, and rubber sheeting as FME is prohibited. Each FME material must be applied with care, without using excessive force, to avoid damage to each surface/component being protected.

3.6.6 Install and maintain each blank/plug, nut and bolt, colored ***white*** that will be used for hydrostatic testing on each equipment, valve, and piping system to withstand maximum system pressure for system which will serve as the primary or secondary barrier to support hydrostatic testing. Each existing system fastener used for blanking that will be reused for installation are excluded from the requirement for ***white*** color. Secure each blank in place with gasket and fastener or weld in place. Ensure welding requirements for each blank meet the same requirement as the piping weld, in accordance with Ref 2.9 (NSTM 505). The use of cloth, polyvinyl sheet, paper, tape, and rubber sheeting as a blank is prohibited. Each DC plug, wood, or wood product is prohibited as a blank on each pressurized system, but may be used on a non-pressurized system to include gravity drain piping.

CP 333 Deleted 3.3.11 and moved it to 3.1.3,

3.1.3 Protect the boat and its equipment from damage.

CP 334 Changed to Attachment B,

3.10.2 Each fastener larger than 1/2-inch nominal diameter must be retained for reuse to the maximum extent possible. Reuse each existing fastener if the acceptance criteria of Attachment ***B*** and paragraph 075-8.3 of 2.7 are met.

CP 338 Fact-finding meeting when requested added,

3.7 Attend SUPERVISOR conducted fact-finding/investigative meetings when requested by the SUPERVISOR not to exceed 4 hours.

CP 368 Moved 3.6.2 to 3.6.4.3, renumber follow on paragraphs,

3.6.4.3 Verify each temporary blank and plug installed in the performance of work under each Work Item have been removed.

CP342 New 3.4 and 3.4.1,

3.4 Respond in writing to each SUPERVISOR issued Method B/C/D Corrective Action (CA) within 3 business days unless otherwise specified by the SUPERVISOR. Initial response must include immediate corrective action taken and a plan of action for CA completion, including estimated completion dates. Final response must include preventive action for recurrence of identified nonconformance, root cause analysis and Objective Quality Evidence (OQE) for corrective action completed. All follow up responses must be as specified by the SUPERVISOR.

3.4.1 Inform the SUPERVISOR when corrective actions are complete for each SUPERVISOR issued Method A (CA). Response required within 3 business days unless otherwise specified by the SUPERVISOR. Response must state that the non-conformance has been corrected.

CP 364 Added New 3.5, 3.5.1, 3.6, and 3.6.1,

3.5 Develop a Test and Inspection Plan (TIP) incorporating each Work Item in the job order or Statements of Work (SOW). The initial TIP must include all inspections and tests required by the contractor's Quality Assurance or Quality Management Plan as well as by symbols (I) (V) (Q) test/inspections and (G) government notification identified in the Work Item, and any additional tests and inspections the contractor deems necessary to substantiate product conformance.

3.5.1 Submit the initial copy of the TIP to the SUPERVISOR prior to start of productive work.

3.6 Test and Inspection records must include hull number, Job Order and Work Item number, component identification, accept/reject criteria, date, time, unique identification of test equipment used, and signature of the contractor's authorized representative who witnessed or performed the test or inspection. The signature occurs after the checkpoint is determined to be satisfactory or unsatisfactory and any exceptions are documented. The records must indicate the results of the test and or inspection accomplished.

3.6.1 Test and inspection records must be retained and made available to the SUPERVISOR as part of work completion certification.

Volume VII Appendix 4E Summary of Changes FY

SEC II

CP 375 New Definition for Template,

E. Templates - ***A preset 4E compliant, five-paragraph document that a planner will adjust, as allowed, creating a Work Item Specification for single or multiple ship classes which documents maintenance requirements tasked on validated Work Notifications. Templates standardize the development of repetitive Work Item Specifications for both Life Cycle and Corrective Maintenance. Additionally, templates increase the speed of planning by providing a reliable starting point for Work Item development which utilizes approved standard phrasing, standard formatting, appropriate references, and historically based Front Loads.***

CP 456 Admin, deleted "Work",

1. Standard Work Templates (SWTs) - ***Templates*** that are prepared for specific repairs, alterations, or to provide support for work frequently occurring in ship repair utilized across ship classes.

CP 457 Admin, deleted "Work",

2. Class Standard Work Templates (CSWTs) - ***Templates*** that are prepared for specific | repairs, alterations, or to provide support for work frequently occurring in ship repair utilized on a specific class of ship.

CP 458 Admin, deleted "templates",

3. Local Work Templates (LWTs) - ***Templates*** that are prepared to provide instruction or support for work frequently occurring in ship repair that is unique to a specific geographic location.

CP 459 Admin, deleted "Work",

5. Master Specification Work Templates (MSWT***s***) – ***Templates*** that are prepared to ensure full completion of specific Mandatory Technical Requirements (MTRs) within the Class Maintenance Plan (CMP) utilized on a specific class of ship.

SEC VII

CP 157 5.b Delete last two sentences of subparagraph b: "Likewise, Class 5 fits studs should not be removed from thier setting unless necessary due to damanged threads or incorrect length. Replaced stud thread protrusion must be a minimum of one full thread and not more than 10 full threads beyond the nut face." The reason for the deletion of these two sentences is because the NSI covers this requirement and if 009-84 requirement changes, then someone would have to know that the same requirement would need to be removed from 4E.

CP 304 B.2.b (1) Added Verbiage on the use of Ships Class Booklet for compartment nomenclature,

(1) Subparagraph 1.2.1 - A compartment designation must be listed when applicable. ***Compartment nomenclature used in this subparagraph must be obtained from the Ship's Booklet of General Plans (BGP) or Booklet of Deck Plans (BDP), as appropriate for class of ship and validated during a Ship Check. Appropriate amplifying location of work information e.g., deck, frame and longitudinal designations, must be used when a concise and explicit location can be readily identified. Examples are as follows but are not all inclusive:***

CP 305 Admin Added CH-505 to Example 2.3,

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

CP 306 Added new paragraph B.3.l,

l. Selected Record Drawings (SRDs) identified within the applicable Ships Drawing Index (SDI) must be considered for use as references within a Work Item. SRDs have the advantage of being regularly reviewed and updating by the assigned Ship Class Planning Yard. SRDs are therefore generally more reflective of a ship's current configuration. Non-SRDs and Installation DWGs can be used, but must be thoroughly ship checked to ensure adequacy.

CP 307 Added clarification to 4. Notes,

5. Paragraph 4 of the Work Item must always be NOTES and must contain information or explanations that do not lend themselves to inclusion in the REQUIREMENTS. These notes must not place requirements on the contractor ***and will not establish production work linkages of one Work Item to another within a Work Package (e.g. "Work in conjunction with ___.").***

CP 462 Added ATP,

(1) PCPs must be written for all non-nuclear surface ship systems and equipment listed in the most current version of CNRMC Instruction 4700.5_ Series (Guidance and Policy for Surface Ship Critical Systems and other Work Requiring Process Control Procedures ***(PCP) or Government Approved Technical Procedures (ATP)).***

CP 308 New Dos and Don'ts,

DON'T link Work Package Work Items through statements within Work Items (e.g. "Work in conjunction with ___.").

CP 309 New Paragraph 12,

12. Do not establish production work linkages of one Work Item to another within a Work Package. Such linkages can complicate the orderly solicitation, execution and administration of a Ship Repair and Modernization Contract.

CP 580 Added multiple to Dos and Don'ts Section,

DO *use the phrase "as designated by the SUPERVISOR" when providing Front Loads (accomplishing a defined quantity of a specific task) or Level of Effort (LOE) Growth Reservations (providing a number of man-days and material dollars) to accomplish anticipated not clearly defined repairs as follows:*

a. DO use an inspection and required contractor furnished reports when "as designated by the SUPERVISOR" is used to provide the medium for the SUPERVISOR to issue specific written designations for the contract record.

b. DO use and issue specific written designations, normally in response to contractor furnished reports, when "as designated by the SUPERVISOR" to document the authorized designations for the contract record.

c. DO use, maintain, and retain a written ledger of specific written designations when "as designated by the SUPERVISOR" to document the authorized designations for the contract record.

DO *use the phrase "when directed by the SUPERVISOR" if the start date for a Front Load statement (accomplishing a defined quantity of a specific task) or a Level of Effort (LOE) Growth Reservation statement (providing a number of man-days and material dollars) is not known as follows:*

a. DO use an inspection and required contractor furnished reports when "when directed by the SUPERVISOR" is used to provide the medium for the SUPERVISOR to issue specific written designations for the contract record.

b. DO use and issue specific written designations, normally in response to contractor furnished reports, when "when directed by the SUPERVISOR" to document the authorized designations for the contract record.

c. DO use, maintain, and retain a written ledger of specific written designations when "when directed by the SUPERVISOR" to document the authorized designations for the contract record.

DO *follow local NSA Technical Authority Review and Approval policies for Contractor Reports, LOE growth reservations, and Contract Changes.*

DON'T ***use oral designations for the contract record when "as designated by the SUPERVISOR" or "when directed by the SUPERVISOR" are used. Oral designations do not provide binding contractual documentation. Oral designations may constitute an unauthorized constructive change to the contract.***

Annex – A

CP 571 and 573 Added **009-05** Temporary Access; accomplish and **009-88** Collection, Holding and Transfer (CHT) and Motor Gasoline(MOGAS) Tanks, Spaces, and Piping, including Sewage or MOGAS-Contaminated Tanks, Spaces, and Piping; certify,

Both were changed to **CAT I** with invoking guidance of; Invoke for all solicitations. Not applicable to boats and craft 65 feet and less in length.

A-Phraseology

CP 572 and 574 Deleted from A-Phraseology **009-05** and **009-88,** both changed to **CAT I**

CP 376 Deleted from A25b Maintain test pressure for 15 minutes for temperature stabilization prior to start of test. Hold test pressure for 10 minutes.,

CP 463 Added "CRANE" to A83a,b, Note,

USE 009-09 PHRASEOLOGY IF A PROCESS CONTROL PROCEDURE (PCP) FOR FABRICATION OF ***CRANE*** WIRE ROPE ASSEMBLIES IS REQUIRED FOR THIS WORK ITEM

B- Phraseology

CP 303 New B54a, and b,

NOTE: B15a MUST BE A SUBPARAGRAPH TO

B54a.

Accomplish a pre-repair unobstructed flow test for each deck drain located in 1.2.

NOTE: PRE REPAIR UNOBSTRUCTED FLOW TEST

B54a

Accomplish a post-repair unobstruced flow test for each deck drain located in 1.2. No obstruction allowed.

NOTE: POST REPAIR UNOBSTRUCTED FLOW TEST

B54b

CP 464 Admin corrected title,

B44b-B44d MUST BE SUBPARAGRAPHS TO B44a.FOR REFERENCE USE S6430-AE-TED-010, TECHNICAL ***MANUAL*** FOR PIPING DEVICES ***AND*** FLEXIBLE HOSE ASSEMBLIES

B44a-d

CP 557 Deleted “s” from “condition” in B44a.

D-Phraseology

CP 560 Reworded D24,

Vee-out and weld ***a total of***___ linear feet of each deteriorated and damaged weld. Each area of repair ***may*** include deck, bulkhead, shell plating, and overhead of each space ***located*** in 1.2.

D24

CP 465 Fixed Color nomenclature,

Miscellaneous, Gloss, Bone White, Color No. 17886 of 2.__, MIL-PRF-24635

Brilliant Yellow, Color of 2.__, MIL-PRF-24635

Red, ***Gloss, OSHA Safety Red/DoT Highway Red,*** Color No. 11105 of 2.__, MIL-PRF-24635

Green, ***Gloss, Deep Green,***Color No. 14062 of 2.__, MIL-PRF-24635

Miscellaneous, Gloss, OHSA Black, ***ANA 515, 622,*** Color No. 17038 of 2.__, MIL-PRF-24635

Blue, ***Gloss, Light Blue,*** Color No. 15200 of 2.__, MIL-PRF-24635

F-Phraseology

CP 466 Admin,

Remove existing and install new each conductor identification sleeving conforming to SAE-***AS23053***, Class I, white, marked with indelible ink.

G-Phraseology

CP 467 Added temperature to Note for G10a,

FOR REFERENCE USE 804-1385781, HANGERS, PIPE, FOR SURFACE SHIPS ***TEMPERATURE TO 425 °F***.

CP 563 Added verbiage to accomplish alignment during 'Strain-Free' requirements, and adjustment of the 1st or adjacent hanger to equipment during the repair process,

Align the piping to each. Piping must be supported independently and must not impose a strain. ***Accomplishment of alignment by adjustment of the first adjacent hanger is to be considered within the scope of the work.***

G9a

Align the piping to each. Piping must be supported independently and must not impose a strain on the equipment. ***Accomplishment of alignment by first adjustment of the adjacent hanger is to be considered within the scope of the work.***

G9b