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Commanding Officer

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Commanding Officer  
Submarine Maintenance Engineering,  
Planning and Procurement (SUBMEPP) Activity  
Attn: Code 1832JM  
P.O. Box 2500  
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## JOINT FLEET MAINTENANCE MANUAL

### FOREWORD

#### LISTING OF APPENDICES.

- A Master List of References
- B Responsibilities

1 MANUAL DEVELOPMENT. The development of the Joint Fleet Maintenance Manual has been a dedicated effort by all Naval Type Commanders to establish a single, unified source of maintenance requirements across all platforms.

2 VOLUME TOPICS. The Joint Fleet Maintenance Manual is made up of seven distinct volumes.

- Volume I - New Construction
- Volume II - Integrated Fleet Maintenance
- Volume III - Deployed Maintenance
- Volume IV - Tests and Inspections
- Volume V - Quality Maintenance
- Volume VI - Maintenance Programs
- Volume VII - Contracted Ship Maintenance

3 PURPOSE. This manual serves as:

- a. A standardized, basic set of minimum requirements to be used by all Type Commanders and subordinate commands.
- b. Clear, concise technical instructions to ensure maintenance is planned, executed, completed and documented within all Fleet commands.
- c. A vehicle for implementing Regional Maintenance policies across all platforms.
- d. A comprehensive set of process descriptions for use by schools such as Surface Warfare Officer School (SWOS), Senior Officer Ship Maintenance and Repair Course (SOSMRC), Engineering Duty (ED), Technical Training, etc.

4 CANCELLATION. The Joint Fleet Maintenance Manual supersedes all existing Type Commander Maintenance and Quality Assurance manuals and all associated correspondence and clarifications thereto. The following is a list of manuals that are cancelled as a result of this manual:

- a. COMNAVAIRLANTINST 4700.1/COMNAVAIRPACINST 4700.1 (Naval Air Force Ship Material Manual)
- b. COMNAVSURFLANTINST 9000.1 (Naval Surface Force, U.S. Atlantic Fleet, Maintenance Manual)
- c. COMNAVSURFPACINST 4700.1 (Naval Surface Force, U.S. Pacific Fleet, Maintenance Manual)
- d. COMSUBLANT/COMSUBPACINST 4790.4 (Submarine Force Maintenance Manual)
- e. COMNAVAIRLANTINST 9090.1/COMNAVAIRPACINST 9090.1 (Naval Air Force Quality Assurance Manual)
- f. COMSUBLANT/COMSUBPACINST 4855.2 (Submarine Force Quality Assurance Manual)
- g. COMNAVSURFLANT/COMNAVAIRLANTINST 4855.3/COMNAVSURFPAC/COMNAVAIRPACINST 4855.3 (Nuclear Surface Forces Afloat Quality Assurance Instruction)
- h. COMNAVSURFPACINST 4855.1 (Naval Surface Force, U.S. Pacific Fleet, Quality Assurance Manual)

- i. COMNAVSURFLANTINST 9090.1/COMNAVSURFPACINST 4855.22 (Naval Surface Force Quality Assurance Manual)
- j. COMNAVSURFLANTINST 9090.2 (IMA Quality Assurance Manual)
- k. CINCLANTFLT/CINCPACFLTINST 4355.1 (Quality Assurance Program)
- l. COMSUBPACINST 4855.3 (Deep Submergence Systems Quality Assurance Manual)

## 5 DISCUSSION.

5.1 Platform Considerations. Throughout this manual, certain requirements apply only to specific platforms. To point these out, the terms (Submarines only), (Aircraft Carriers only), (Surface Ships only), and specific hull designators (e.g., DDG, SSN) are used in parentheses within the paragraph to which they apply. The term "Surface Ship" applies to all ships and craft except submarines and deep submersibles. When no specific platform is mentioned, the requirements apply to all platforms. In this context, the term "Submarine Force" applies to all ships under the responsibility of Submarine Forces, Atlantic and Pacific Fleets; the term "Aircraft Carriers" applies to all ships under the responsibility of Naval Air Forces, Atlantic and Pacific Fleets; and the term "Surface Force" applies to all ships under the responsibility of Naval Surface Forces, Atlantic and Pacific Fleets.

5.2 Maintenance Considerations. In the development of this manual, considerable effort was put forth to standardize work practices, incorporate accepted Regional Maintenance philosophies, and make allowances for future changes resulting from new Regional Maintenance policies. With respect to this, the term Intermediate Maintenance Activity (IMA) has been replaced by Fleet Maintenance Activity (FMA) to reflect the fact that under Regional Maintenance the responsibility for, and the management of, repair facilities has moved to the Fleet.

5.3 Terminology Considerations. Use of the term "Type Commander/Immediate Superior in Command (TYCOM/ISIC)" throughout this manual is defined as follows:

- a. For Submarine and Surface Forces, the "TYCOM/ISIC" refers to the Squadron or Group.
- b. For Aircraft Carriers, the "TYCOM/ISIC" refers to the Type Commander for maintenance issues.
- c. For Submarine and Surface Forces, the term "ISIC", used by itself, refers to the Squadron or Group. The term "ISIC" does not apply to Aircraft Carriers for maintenance issues, but refers to the Permanent Battle Group Commander for operational issues and non-maintenance certifications.

## 5.4 Administrative Considerations.

5.4.1 Master List of References. Appendix A of this foreword is a Master List of References used throughout the manual. This Master List should be reviewed to ensure that the necessary technical manuals, instructions, etc. are readily available prior to using the manual.

5.4.2 Table of Responsibilities. Appendix B provides a table of responsibilities associated with specific positions/functions located within the manual. Each position listed identifies the major responsibilities for that position and provides a link to the Chapter/paragraph where the responsibility is detailed.

5.4.3 Acronyms. Acronyms used in a particular volume are contained in the List of Acronyms at the front of each volume. Acronyms appearing four or more times in a chapter or those considered "common acronyms" (i.e., words that are known better by their acronym than by their spelled out word, for example, CD-ROM) will be spelled out the first time an acronym is used within a chapter, and the acronym listed in parentheses after the word. Terms not meeting these conditions will not be considered as acronyms within the text and the words will be spelled out.

5.4.4 Appendices. Numerous chapters throughout this manual contain Appendices for the purpose of providing further detail or examples of required reports/correspondence. In all cases the Appendices are intended as examples only and may not reflect the most current guidance or format. Higher authority source documents should be consulted. Sample correspondence provided as Naval messages may be communicated in letter format to facilitate timely transmission by electronic facsimile.

**APPENDIX A**

**MASTER LIST OF REFERENCES**

2M Marine Corps TM 5895-45/1B - Standard Maintenance Practices 2M Electronic Assembly Repair

5 CFR 2635 - Standards of Ethical Conduct for Employees of the Executive Branch

10 USC 1724 - Defense Acquisition Workforce Improvement Act (DAWIA)  
10 USC 2306 - Kinds of Contracts  
10 USC 7311 - Repair or Maintenance of Naval Vessels: Handling of Hazardous Waste

29 CFR 1910 - Occupational Safety and Health Standards

31 USC 1301(a) - Application  
31 USC 1341 - Limitations on Expending and Obligating Amounts  
31 USC 1342 - Limitation on Voluntary Services  
31 USC 1349 - Adverse Personnel Actions  
31 USC 1517 - Prohibited Obligations and Expenditures  
31 USC 1518 - Adverse Personnel Actions  
31 USC 1535 - Agency Agreements

41 USC 23 - Orders or Contracts for Material Placed with Government-owned Establishments Deemed Obligations  
41 USC 254 - Contract Requirements

CLF/CPFINST 4720.3 - Management of Afloat Combat Systems and C4I Installations and Improvements

CNAFINST 3500.71 - Flight Deck Certification

CNAP/CNALINST 9210.4 - Nuclear Propulsion Note 9200-2

COMFLTFORCOM 181810Z Mar 03 - Establishment of Regional Maintenance Centers  
COMFLTFORCOM R291336Z Dec 03 - Fleet Technical Assistance Policy

COMLANTFLTINST 3500.18 - Certification and Readiness of Aviation Facilities in Naval Ships Operating Aircraft  
COMLANTFLTINST 4100.3 - Navy Energy Usage Reporting System (NEURS)  
COMLANTFLTINST 4700.1 - Navy Afloat Maintenance Training Strategy (NAMTS) Job Qualification Requirements (JQR) Management  
COMLANTFLTINST 4700.10 - Policies and Procedures for Fleet Technical Support (Cancelled)  
COMLANTFLTINST 5400.2 - U.S. Atlantic Fleet Regulations

COMLANTFLT OPORD 2000

COMLANTFLT/COMPACFLTINST 4720.3 - Management of Afloat Combat Systems and C4I Installations and Improvements  
COMLANTFLT/COMPACFLTINST 5450.89/5450.120 - Mission, Functions and Tasks of the Fleet Technical Support Centers, Atlantic (FTSCLANT) and Pacific (FTSCPAC)

COMNAVAIRFORINST 4700.23 - Aircraft Carrier Maintenance Support Centers (MSC) Policy and Procedures  
COMNAVAIRFORINST 4720.2 - Naval Aviation Maintenance Program  
COMNAVAIRFORINST 9640.1 - Control of Habitability Improvements in Aircraft Carriers

COMNAVAIRLANTINST 3400.4 - Air Department Standard Operating Procedures  
COMNAVAIRLANTINST 3500.20 - Aircraft Carrier Training and Readiness Manual  
COMNAVAIRLANTINST 4790.34 - Electrostatic Discharge (ESD) Control Program  
COMNAVAIRLANTINST 4790.40 - Aircraft Launch and Recovery Equipment Maintenance Program (ALREMP) Management Teams  
COMNAVAIRLANTINST 4790.42 - CV/CVN Intermediate Maintenance Activity (IMA) Module Test and Repair Facility (MTRF)

COMNAVAIRLANTINST 9080.2 - Conduct of Trials and Inspections Incident to Construction, Overhauls or Availabilities of Nuclear Powered Aircraft Carriers (CVN)  
COMNAVAIRLANTINST 9090.2 - Conduct of Shipyard Trials and Inspections Incident to Service Life Extension Program (SLEP), Overhauls or Availabilities of Conventionally Powered Aircraft Carriers

COMNAVAIRLANTINST 13640.2 - Naval Aircraft Carrier Metrology and Calibration Program  
COMNAVAIRLANTINST 13640.3 - Naval Aviation Metrology and Calibration Program  
COMNAVAIRLANTINST 13650.1 - Individual Material Readiness List (IMRL) Program

COMNAVAIRPACINST 3400.4 - Air Department Standard Operating Procedures  
COMNAVAIRPACINST 3500.20 - Aircraft Carrier Training and Readiness Manual  
COMNAVAIRPACINST 4790.39 - Aircraft Launch and Recovery Equipment Maintenance Program (ALREMP) Management Teams  
COMNAVAIRPACINST 4790.54 - CV/CVN Intermediate Maintenance Activity (IMA) Module Test and Repair Facility (MTRF)

COMNAVAIRPACINST 13640.2 - Naval Aircraft Carrier Metrology and Calibration Program  
COMNAVAIRPACINST 13640.3 - Naval Aviation Metrology and Calibration Program

COMNAVSEASYS COM WASHINGTON DC 03004Z FEB 09 - SISCAL Policy Guidance - Level 2 Calibrations  
COMNAVSEASYS COM WASHINGTON DC 031440Z MAR 03 - Submarine Industrial EMC and EMI Control Interim Guidance

**COMNAVSUBFORINST C3500.2 - Continuous Training Manual**

COMNAVSUBFORINST 5400.25 - Standard Submarine Supply Department Organization and Regulations Manual  
COMNAVSUBFORINST 5400.29 - Standard Submarine Navigation/Operations Department Organization and Regulations Manual  
COMNAVSUBFORINST 5400.39 - Standard Submarine Organization and Regulations Manual (SORM)  
COMNAVSUBFORINST 5400.40 - Standard Submarine Combat Systems Department Organization and Regulations Manual (SSN)  
COMNAVSUBFORINST 5400.41 - Standard Submarine SSBN 726 Class Weapons Department Organization and Regulations Manual  
COMNAVSUBFORINST 5400.47 - Standard Submarine Combat Systems Department Organization and Regulations Manual (SSGN)

COMNAVSUBFOR OPORD 2000

COMNAVSURFLANTINST 3502.2 - Surface Force Training Manual  
COMNAVSURFLANTINST 3540.18 - Engineering Department Organization and Regulation Manual (EDORM)  
COMNAVSURFLANTINST 4400.1 - Surface Force Supply Procedures  
COMNAVSURFLANTINST 4700.4 - Fleet Introduction Handbook

COMNAVSURFORINST 3540.1 - Engineering Operations Assessment, Training and Certification for Conventionally Powered Surface Ships  
COMNAVSURFORINST 3540.2 - Surface Force Engineering Readiness Process

COMNAVSURFOR NOTICE 4701 - Surface Ship Maintenance Validation, Screening and Brokering  
COMNAVSURFOR NOTICE 4702 - Surface Ship Work Package Preparation  
COMNAVSURFOR NOTICE 4703 - Surface Ship Maintenance Placement Oversight Business Rules

COMNAVSURFPACINST 3501.4 - Aviation Readiness Evaluation (ARE) and Certification of Aviation Facilities Onboard COMNAVSURFPAC Ships  
COMNAVSURFPACINST 3502.2 - Surface Force Training Manual  
COMNAVSURFPACINST 3540.13 - Engineering Department Organization and Regulation Manual (EDORM)  
COMNAVSURFPACINST 4400.1 - Surface Force Supply Procedures

COMPACFLTINST 4100.3 - Navy Energy Usage Reporting System (NEURS)  
COMPACFLTINST 4341.1 - Fleet Technical Assistance (FTA) Program (Cancelled)  
COMPACFLTINST 4700.5 - Navy Afloat Maintenance Training Strategy (NAMTS) Job Qualification Requirements (JQR) Management  
COMPACFLTINST 4710.6 - Policy for Accomplishment of Ship Repair Work in WESTPAC  
COMPACFLTINST 5400.3 - U.S. Pacific Fleet Regulations  
COMPACFLTINST 9830.1 - Certification of Aviation Facilities in Naval Ships Operating Aircraft

COMPACFLTINST 4700.5/COMLANTFLTINST 4700.1 - Navy Afloat Maintenance Training Strategy (NAMTS) Job Qualification Requirements (JQR) Management

COMPACFLT OPORD 201

COMSEVENTHFLT OPORD 201

COMSUBFORINST C5400.30 - Engineering Department Organization Manual  
COMSUBFORINST C9460.3 - Coordinated Submarine Radiated Noise Analysis  
COMSUBFORINST C9460.4 - Submarine Towed Array Operations

COMSUBLANTINST 3540.10 - Periodic Monitoring of Submarines and Support Facilities  
COMSUBLANTINST 4406.1 - Submarine Supply Procedures Manual  
COMSUBLANTINST 4419.1 - Module Screening and Repair Activity (MSRA) Repairables Management Procedure  
COMSUBLANTINST 5400.4 - Submarine Force, U.S. Atlantic Fleet Regulations  
COMSUBPACINST 3540.10 - Periodic Monitoring of Submarines and Support Facilities  
COMSUBPACINST 4406.1 - Submarine Supply Procedures Manual  
COMSUBPACINST 4419.1 - Submarine Tender Supply Management Procedures for AN/BSY-1 Repairables  
COMSUBPACINST 5400.7 - Submarine Force, U.S. Pacific Fleet Regulations  
COMSUBPACINST C5400.30 - Engineering Department Organization Manual  
COMSUBPACINST 9460.4 - Submarine Towed Array Operations

COMSUBLANTNOTE C3120 - Submarine Operating Restrictions and Depths Authorizations  
COMSUBPACNOTE C3120 - Submarine Operating Restrictions and Depth Authorizations  
COMSUBPACNOTE 9086 - COMSUBPAC Engineering Notes and Technical Notes

DCAAM 7640.1, July 2004 Edition - DCAA Contract Audit Manual (CAM) Chapter 9-1004.2

DD Form 1638 - Report of Disposition of Contractor Inventory

DFARS 201.4 - Deviations From the FAR  
DFARS 206.302-2 - Unusual and Compelling Urgency  
DFARS 211 - Describing Agency Needs  
DFARS 217.71 - Master Agreement for Repair and Alteration of Vessels  
DFARS 217-7104 - Clauses

DFARS 219 - Small Business Programs  
DFARS 222 - Application of Labor Laws to Government Acquisitions  
DFARS 222.101 - Labor Relations  
DFARS 245.301 - Definitions  
DFARS 245.302 - Providing Facilities  
DFARS 245.505 - Records and Reports of Government Property  
DFARS 245.6 - Reporting, Redistribution and Disposal of Contractor Inventory  
DFARS 245.608-70 - Contractor Inventory Redistribution System (CIRS)  
DFARS 245.7001 - Selection, Appointment and Termination  
DFARS 245.7002 - Duties and Responsibilities of Plant Clearance Officers  
DFARS 252 - Solicitation Provisions and Contract Clauses  
DFARS 252.217-7012 - Master Ship Repair Agreement (MSRA) and MSMO Liability and Insurance Clause  
DFARS 252.217-7015 - Compliance With OSHA Regulations

DFARS Part 217 - Special Contracting Methods  
DFARS Part 245 - Government Property

DoD 5520.22 - National Industrial Security Program Operating Manual  
DoD Financial Management Policies and Procedures Regulation 7000.14-R – Volume 1, Chapter 9  
DoD Financial Management Regulation 7000.14-R - Volume 4, Chapter 20  
DoD Financial Management Regulation 7000.14-R - Volume 4, Chapter 21  
DoD Financial Management Regulation 7000.14-R - Volume 12, Chapter 9  
DoD 7000.14-R - Volume 14 - Administrative Control of Funds and Anti-Deficiency Act Violations  
DoD Automation Resources Manual 7950.1-M  
DoD Directive 5000.1 - The Defense Acquisition System  
DoD Directive 5500.7 - Standards of Conduct  
DoD Directive 7200.1 - Administrative Control of Appropriations  
DoD Directive 7220.1 - Regulations Governing the Use of Project Orders  
DoD Financial Management Policy Manual  
DoD Manual 4161.2 - Manual for Performance of Government Property Administration  
DoDINST 5000.2 - Operation of the Defense Acquisition System  
DoD-STD-2003 - Military, Standard, Electric Plant Installation Standard Methods for Surface Ships and Submarines

FAR 4.802 - Contract Files  
FAR 6.302-2 - Unusual and Compelling Urgency  
FAR 9.1 - Responsible Prospective Contractors

FAR 11.104 - Use of Brand Name or Equal Purchase Descriptions  
FAR 14.201-1 - Uniform Contract Format  
FAR 14.204-1 - Records of Invitations for Bids and Records of Bids

FAR 42.2 - Contract Administration Services  
FAR 42.201 - Contract Administration Responsibilities  
FAR 42.3 - Contract Administration Office Functions  
FAR 42.302 - Contract Administration Functions

FAR 45.102 - Policy  
FAR 45.301 - Definitions  
FAR 45.302 - Providing Facilities  
FAR 45.303 - Providing Material  
FAR 45.306 - Providing Special Tooling  
FAR 45.307 - Providing Special Test Equipment  
FAR 45.310 - Providing Agency Peculiar Property  
FAR 45.4 - Contractor Use and Rental of Government Property  
FAR 45.5 - Management of Government Property in Possession of the Contractor  
FAR 45.6 - Scope of Subpart

FAR 52.232-16 - Progress Payments Clause  
FAR 52.245-2 - Government Property (Fixed Price Contracts)  
FAR 52.245-4 - Government-Furnished Property (Short Form)

FAR 203

FAR Part 1.3 - Agency Acquisition Regulations  
FAR Part 1.4 - Deviations  
FAR Part 1.6 - Career Development, Contracting Authority and Responsibilities  
FAR Part 2.1 - Definitions  
FAR Part 9 - Contractor Qualifications

FAR Part 14 - Sealed Bidding  
FAR Part 15 - Contracting by Negotiation  
FAR Part 16 - Types of Contracts

FAR Part 31 - Contract Cost Principles and Procedures

FAR Part 42 - Contract Administration and Audit Services  
FAR Part 43 - Contract Modifications  
FAR Part 44 - Subcontracting Policies and Procedures  
FAR Part 45 - Government Property  
FAR Part 46 - Quality Assurance  
FAR Part 49 - Termination of Contracts

FAR Part 52 - Solicitation Provisions and Contract Clauses

Federal Acquisition Regulation (FAR)

FGC 2200 - Outfit Logistics Support Requirements

Fleet Modernization Program (FMP) Management and Operations Manual - Revision 2  
Fly-By-Wire Ship Control System Certification Boundary Book (ship specific)

FMP Manual Section 4-11 - Procedures for Ships Selected Records

INSURVINST 4730.1 - Material Inspections (MI) of Surface Ships  
INSURVINST 4730.2 - Trials and Material Inspections of Submarines  
INSURVINST 4730.3 - Trials of Surface Ships  
INSURVINST 4730.8 - Reports of Trials, Material Inspections and Survey Conducted by INSURV  
INSURVINST 4730.11 - Preparation of Deficiency Forms  
INSURVINST 4730.24 - Main Battery Gun Live Firing Demonstration During Material Inspections

Integrated Project Teams for Aircraft Carrier Maintenance Handbook

LPD 17 MOGAS System Technical Manual

Maintenance Index Page 4722/007 - Passive Countermeasure System (PCMS)

Maintenance Plan 4100-02-01 - Command and Control System (CCS) Electromagnetic Interference (EMI) Testing

MIL-HDBK-263 - Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies and Equipment  
MIL-HDBK-773 - Electrostatic Discharge Protective Packaging

MIL-P-24534 - Planned Maintenance System: Development of Maintenance Requirement Cards, Maintenance Index Pages, and Associated Documentation

MIL-S-24340 - Polyurethane (Polyether Base) Deck Sealing Compound

**MIL-STD-130 - Identification Marking of U.S. Military Property**

MIL-STD-413 - Visual Inspection Guide for Elastomeric O-rings

MIL-STD-438 - Schedule of Piping, Valves, Fittings, and Associated Piping Components for Submarine Service

MIL-STD-767 - Cleaning Requirements for Special Purpose Equipment, Including Piping Systems

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

MIL-STD-792 - Identification Marking Requirements for Special Purpose Components

MIL-STD-1330 - Standard Practice for Precision Cleaning and Testing of Shipboard Oxygen, Helium, Helium-Oxygen, Nitrogen and Hydrogen Systems

MIL-STD-1388 - Logistic Support Analysis

MIL-STD-1627 - Bending of Pipe or Tube for Ship Piping Systems

MIL-STD-1680 - Installation Criteria for Shipboard Secure Electrical Information Processing Systems

MIL-STD 1686 - Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment

MIL-STD-1689 - Fabrication, Welding and Inspection of Ship's Structures

MIL-STD-2039 - Field Changes and Field Change Kit Preparation

MIL-STD-2132 - Nondestructive Examination Requirements for Special Applications

MIL-STD-2179 - Brush Electroplating on Marine Machinery

MIL-V-24624 - Valves, Butterfly, Wafer and Lug Style

MS 6310-081-015 - Submarine Preservation

N6-NTSP-S-70-8003 - Navy Training System Plan (NTSP) for Electromagnetic Interference (EMI) Control

NASM 7838 - Bolts, Internal Wrenching

National Archives and Records Administration General Records Schedules, General Records Schedule 8 - Stores, Plant and Cost Accounting Records

National Fire Protection Association Codes and Standards 306 - Standards for the Control of Gas Hazards on Vessels

NAVAIR 00-25-100 - Naval Air System Command Technical Manual Program

NAVAIR 01-1A-23 - Electronic Assembly Repair Standard Maintenance Practice

NAVAIR 13-1-6.1 - Aviation Crew Systems, Chapter 7 (LRU 13/A)

NAVAIR 17-1-124 - Microminiature Component Repair Set

NAVAIR 17-1-127 - Periodic Proofload Testing of Weapons Support Equipment W/IPB

NAVAIR 17-35MTL-1 - Metrology Requirements List

NAVAIR 17-35NCA-1 - Navy Calibration Activity (NCA) List

NAVAIR 17-35QAL-15 - Naval Aircraft Carrier (METCAL) Program Manual

NAVAIR 17-600-141-6-1 - Microminiature Repair Status Pre-operational Check List

NAVAIR 17-600-141-6-2 - Microminiature Repair Station

NAVAIR AD-700A1-MDB-000 - Recovery Assistance Traversing (RAST) System

NAVAIR A6-332AO-GYD-000 - Laboratory and Aviators Breathing Oxygen Field Guide

NAVAIRINST 3120.1 - Lead Systems Command Procedures and Responsibilities for Certification of Aviation Facilities and Equipment in Naval Ships Operating Aircraft

NAVSEA S9086-ZN-STM-000 - NSTM Chapter 772 (Cargo and Weapons Elevators)

NAVSEA S9086-7G-STM-000 - NSTM Chapter 997 (Drydocking of Naval Vessels)

NAVSEA S9086-7G-STM-010 - NSTM Chapter 997 (Docking Instructions and Routine Work in Dry Dock)

NAVSEA 0348-LP-159-1000 - Freeze Sealing Manual (Nuclear)

NAVSEA 0387-LP-046-8000 - System Hydrostatic Test Requirements

NAVSEA 0900-LP-001-7000 - Fabrication and Inspection of Brazed Piping Systems

NAVSEA 0900-LP-016-7008 - Submarine Antenna Technical Documentation

NAVSEA 0900-LP-083-0010 - Naval Shipyard Quality Program Manual

NAVSEA 0900-LP-095-4010 - Ship Test and Evaluation Planning Guide

NAVSEA 0902-018-2010 - General Overhaul Specifications for Deep Diving SSBN/SSN Submarines (DDGOS)

NAVSEA 0924-LP-062-0010 - Submarine Safety (SUBSAFE) Requirements Manual

NAVSEA 0948-LP-045-7010 - Material Control Standard

NAVSEA 0989-028-5000 - Manual for Control of Testing and Plant Conditions (Nuclear)

NAVSEA 0989-031-4000 - Reactor **Plant** Instrumentation and Control Equipment Maintenance

NAVSEA 0989-064-3000 - Cleanliness Requirements for **Naval** Nuclear Plant Maintenance by Forces Afloat

NAVSEA 0989-LP-026-1000 - A4W/A1G Reactor Plant Manual

NAVSEA 0989-LP-030-7000 - Lifting Standard

NAVSEA 0989-LP-037-2000 - Commissioned Submarine General Reactor Plant Overhaul and Repair Specifications

NAVSEA 0989-LP-040-6000 - Air Flask Inspection and Maintenance Requirements (Nuclear)

NAVSEA 0989-LP-043-0000 - Commissioned Surface Ship General Reactor Plant Overhaul and Repair Specification

NAVSEA 0989-LP-058-0000 - AS/AD Tender Nuclear Support Facilities Preventive Maintenance Index

NAVSEA 0989-LP-058-1000 - Destroyer Tender and Submarine Tender Nuclear Support Facilities Overhaul and Repair Specification

NAVSEA 0989-LP-062-4000 - Naval Nuclear Quality Control Manual for Shipyards

NAVSEA 250-1500-1 - Welding Standard

NAVSEA 389-0153 - Radiological Controls

NAVSEA 389-0288 - Radiological Controls

NAVSEA 389-0317 - Procedures for Maintenance and Repair of Naval Reactor Plants (Nuclear)

NAVSEA 392-0755 - Seal Welding Manual (Nuclear)

NAVSEA 4350.2 - Contract Work Onboard Nuclear-Powered Ships

**NAVSEA S0005-AA-GYD-030 - Guide for User Maintenance of NAVSEA Technical Manuals; NAVSEA Technical Manual Management Program**

NAVSEA S0300-B2-MAN-010 - Supervisor of Shipbuilding, Conversion and Repair Operations Manual

**NAVSEA S0400-AD-URM-010/TUM - Tag-Out Users Manual**

NAVSEA S0600-AA-PRO-230 - Underwater Ship Husbandry Manual, Chapter 23: Submarine Predeployment Noise Inspections

NAVSEA S0600-AA-PRO-280 - Underwater Ship Husbandry Manual, Chapter 28: Pollution Prevention

NAVSEA S5475-AL-PRO-010 - Principles and Procedures for Magnetic Treatment of Ships

NAVSEA S6152-B1-CAT-010 - Laundry and Dry Cleaning Equipment Catalog

NAVSEA S6161-Q5-CAT-010 - Naval Shipboard Food Service Equipment Catalog

NAVSEA S6470-AA-SAF-010 - Gas Free Engineering Manual

NAVSEA S8800-00-GIP-000 - Handbook for Fleet Maintenance Activity Technical Library Personnel

NAVSEA S9002-AK-CCM-010/6010 - Industrial Ship Safety Manual for Submarines

NAVSEA S9008-AA-PRO-010 - Lifeboat, Inflatable, MK6, MK7, and MK8 Inspection, Test and Repair Procedures

NAVSEA S9040-AA-GTP-010 - Shipboard Systems Certification Requirements for Surface Ship Industrial Periods (Non-Nuclear)

**NAVSEA S9040-AC-IDX-010 - Ships 3-M Reference Information CD**

NAVSEA S9073-A2-HBK-010 - Resilient Mount Handbook

NAVSEA S9073-A4-SNC-010 - USS LOS ANGELES (SSN 688) Class Acoustic Stealth Manual

NAVSEA S9073-AF-SNC-010(C) - Ship Noise Control

NAVSEA S9073-AW-SNC-010 - Ship Acoustical Surveys for Submarines

NAVSEA S9078-AA-HBK-010 - Distributed Isolation Material (DIM) Mount Design Handbook

NAVSEA S9081-AB-GIB-010 - Reliability Centered Maintenance Handbook

NAVSEA S9095-AD-TRQ-010/TSTP - Total Ship Test Program Manual

NAVSEA S9165-AC-HBK-010 - Submarine Sonar Dome Handbook

NAVSEA S9213-33-MMA-000 - Radiological Controls for Ships

NAVSEA S9213-45-MAN-000 - Naval Nuclear Material Management

NAVSEA S9221-C1-GTP-010 - Main Boiler Repair and Overhaul (VOL I)

NAVSEA S9221-C1-GTP-020 - Main Boiler Repair and Overhaul (VOL II)

NAVSEA S9221-D2-MMA-010 - Steam Generating Plant Inspection (Non-Nuclear)

NAVSEA S9223-AF-MMO-010 - Submarine Main Storage Battery Technical Manual

NAVSEA S9233-CJ-HBK-010 - U.S. Navy Diesel Engine Inspectors Handbook, Part 1 (Inspection Procedures)

NAVSEA S9233-CJ-HBK-020 - U.S. Navy Diesel Engine Inspectors Handbook, Part 2 (Technical Information)

NAVSEA S9313-AM-MMO-010 - Lead-Calcium Alloy Acid Type U.S. Submarine Main Storage Battery  
TRIDENT 1 Type SCC-57

NAVSEA S9425-CF-STD-010 - Submarine Antenna/Periscope and Mast Materials

NAVSEA S9425-CG-STD-010 - Installation Standards for Submarines

NAVSEA S9475-AC-PRO-010 - Degaussing Forms, Records and Reporting Procedures

NAVSEA S9505-AF-MMA-010 - Submarine Non-Nuclear Piping Systems Test Manual

NAVSEA S9505-AM-GYD-010 - Submarine Fastening Criteria (Non-Nuclear), Description, Design and Maintenance

NAVSEA S9510-AB-ATM-010 - Nuclear Powered Submarine Atmosphere Control Manual, Volume 1

NAVSEA S9510-AB-ATM-020/(C) - Nuclear Powered Submarine Atmosphere Control Manual, Volume 2

NAVSEA S9515-A1-MMO-010/020/030 - Automated Electrolytic Oxygen Generator (AEOG) Treadwell Corporation Preliminary Technical Manual, Volumes 1, 2 and 3

NAVSEA S9515-AA-MMO-010 - Electrolytic Oxygen Generator 6L16; Vol 1

NAVSEA S9515-AA-MMO-021 - Electrolytic Oxygen Generator 6L16; Vol 2, Chapter 5, Part I

NAVSEA S9515-AA-MMO-022 - Electrolytic Oxygen Generator 6L16; Vol 2, Chapter 5, Part II

NAVSEA S9515-AA-MMO-030 - Electrolytic Oxygen Generator 6L16; Vol 3

NAVSEA S9515-AA-MMO-040 - Twelve-Pulse Hexagon Power Supply for Electrolytic Oxygen Generator, 6L16; Installation, Operation & Maintenance

NAVSEA S9515-AL-MMA-010/020 - Integrated Low Pressure Electrolyzer (ILPE) Preliminary Technical Manual, Volumes 1 and 2

NAVSEA S9520-AA-MMA-010 - Repair of Submarine Seawater Ball Valves (Non-Nuclear)

NAVSEA S9522-AA-HBK-010 - Description, Operation and Maintenance Handbook for Magazine Sprinkler Systems

**NAVSEA S9534-AD-MMA-010 - Steam Reboiler Maintenance**

NAVSEA S9553-BS-OMP-010 - Oxygen Generating Plant (OGP) Preliminary Technical Manual, Volumes 1 and 2

NAVSEA S9560-CH-SCB-010 - VIRGINIA Class Submarine Fly-By-Wire Ship Control System Certification Boundary Book

NAVSEA S9560-CK-SCB-010 - SEAWOLF Class Submarine Fly-By-Wire Ship Control System Certification Boundary Book

**NAVSEA S9587-AT-MMA-010 - Electronic Controls Charging System Tech Manual**

NAVSEA S9587-B1-MMA-010 - Catapult Steam Support Systems for CV/CVN Class Ships; Description, Operation and Maintenance

NAVSEA S9592-AP-MMM-A30 - Dry Deck Shelter System SSN 688 Class Host Ship Operating and Emergency Procedures, Volume III

NAVSEA S9592-B3-MAN-010 - Dry Deck Shelter Systems Scope of Certification Notebook, Volume I

NAVSEA S9594-AE-GTP-010 - Disabled Submarine/Requirements for Employment of U.S. Navy Submarine Rescue Systems

NAVSEA S9600-AD-GTP-010 - U.S. Navy Shipboard Furniture Catalog

NAVSEA S9810-AA-GTP-010 - Intermediate Maintenance Activity Work Center Requirements Manual

NAVSEA S9AA0-AB-GOS-010 - General Specifications for Overhaul of Surface Ships (GSO) 2004 Edition

NAVSEA S9SSN-W4-SSM-PA0/C688CLV7 - SSN688 Class Ship Systems Manual, Vol 7

NAVSEA SE004-AK-TRS-010 - Standard Maintenance Practices 2M Electronic Assembly Repair

NAVSEA SE300-AZ-MMA-010 - Description, Operation and Maintenance SSN 21 Class Sonar Bow Dome

NAVSEA SE300-MA-MMA-011 - Glass Reinforced Plastic (GRP) Bow Sonar Dome

NAVSEA SE400-DA-MMO-010 - Passive Countermeasure System (PCMS) Technical Manual

NAVSEA SG420-AP-MMA-010 - Periodic Testing Arrangements for Ordnance Handling Equipment

NAVSEA SI 0009-60 - Ship Repair Scheduling

NAVSEA SI 009-01 - General Criteria; Accomplish

NAVSEA SI 009-04 - Quality Management System

NAVSEA SI 009-07 - Procedures and Equipment Required for the Prevention of Fire

NAVSEA SI 009-08 - Fire Fighting and Fire Prevention

NAVSEA SI 009-99 - Private Shipyard Contractual Item to Provide Departure Reports

NAVSEA SL720-AA-MAN-010/020 - Fleet Modernization Program (FMP) Management and Operations Manual

NAVSEA SL720-AA-MAN-030 - Navy Modernization Process Management and Operations Manual

NAVSEA SS500-AQ-MMO-010 - Operation and Maintenance Manual for U.S. Navy Two-Man Open Diving Bell

NAVSEA SS521-AA-MAN-010 - U.S. Navy Diving and Manned Hyperbaric Systems Safety Certification Manual

NAVSEA SS521-AG-PRO-010 - U.S. Navy Diving Manual

NAVSEA SS750-AA-MMA-010 - Submarine Rescue Chamber (SRC), Modernized 850 Ft

NAVSEA SS800-AG-MAN-010/P-9290 - System Certification Procedures and Criteria Manual for Deep Submergence Systems

NAVSEA ST000-A-IDX-010 - Test, Measurement and Diagnostic Equipment Index (TMDEI)

NAVSEA ST700-AA-LST-010 - Navy Calibration Activity (NCA) List

NAVSEA ST700-AM-GYD-010 - Metrology and Calibration (METCAL) Laboratory Requirements and Certification Guide

NAVSEA ST700-AM-PRO-010 - Test and Monitoring Systems (TAMS) Program Operations and Procedures

NAVSEA Standard Work Item 077-01 - Hazardous Waste Produced on Naval Vessels; control

NAVSEA T0300-AA-MMI-010 - Commercial Industrial Services (CIS) Manual

NAVSEA T9044-AD-MAN-010 - Requirements Manual for Submarine Fly-By-Wire Ship Control Systems

NAVSEA T9074-AS-GIB-010/271 - Requirements for Nondestructive Testing Methods

NAVSEA T9074-AD-GIB-010/1688 - Requirements for Fabrication, Welding and Inspection of Submarine Structure

NAVSEA T9512-AC-TRQ-010 - SS/SSN/SSBN Submarine Snorkel Systems

NAVSEA TE000-AA-MAN-010/2M - Certification Manual for Miniature/Microminiature (2M)/Module Test and Repair (MTR) Program

NAVSEA TL710-AB-MAN-010 - Depot Modernization Period (DMP) Procedures Manual

NAVSEA TW024-AA-ORD-010 - Unserviceable, Suspended, and Limited Use Ammunition

NAVSEA Technical Publication T-9630-AB-MMD-010/ALL USN HULLS Revision 2 - Corrosion Control Assessment and Maintenance Manual for Corrosion Control Information Management System (CCAMM for CCIMS)

NAVSEA Technical Specification 9090-100 - Planning Yard (PY) Representatives

NAVSEA Technical Specification 9090-310 - Ship Alteration Accomplishment by Alteration Installation Teams (AIT)

NAVSEA STD DWG 213-4362626 - Lagging and Insulation Schedule for Reactor Plant Systems

NAVSEA STD DWG 407-5287556 - Electronics Material Officer's Guide to Shipboard Electromagnetic Interference Control

NAVSEA STD DWG 514-8316912 - CVN 68 Reboiler Strength and Integrity Inspection

NAVSEA STD DWG 709-5549373 - Weapons Handling Equipment SSN 688 Class Test Loads/ Methods and Inspection Procedures

NAVSEA STD DWG 709-5549374 - Weapons Handling Equipment SSBN 726 Class Test Loads/Methods and Inspection Procedures

NAVSEA STD DWG 709-6633924 - Vertical Launch System Weapons Handling Equipment SSN 688 Class Test Loads/Methods and Inspection Procedures

NAVSEA STD DWG 709-6726350 - Weapons Handling Equipment SSN 21 Class Test Loads/Methods and Inspection Procedures

NAVSEA STD DWG 803-5000902 - Safety Net, Deck Edge, Steel Frame and Nets

NAVSEA STD DWG 803-5184097 - Safety Net, Deck Edge, Aluminum Frame and Nylon Nets

NAVSEA STD DWG 803-5959209 - Aircraft Deck Tiedown Fittings

NAVSEA STD DWG 804-1213717 - Vehicle Tiedown Deck Fittings

NAVSEA STD DWG 804-5184163 - Trunk Safety Nets

NAVSEA STD DWG 805-1639000 - Deck Screw Reversible Eyebolts

NAVSEA STD DWG 805-1645271 - Portable Davits

NAVSEA STD DWG 805-1916300 - Aircraft Securing and Engine Run-up Fittings

NAVSEA STD DWG 805-2276338 - Cleats

NAVSEA STD DWG 805-921806 - Installation of Planking on Deck Plating

NAVSEAINST 3151.1 - Diving and Manned Hyperbaric Systems Certification Program

NAVSEAINST 3960.4 - Implementation of Total Ship Test Program for Ship Production

NAVSEAINST 3960.5 - Policy on Ship Testing

NAVSEAINST 4130.9 - Configuration Control Procedures For Preparation of Ordnance Alterations (ORDALTS) to Expendable and Non-Expendable Items

NAVSEAINST 4200.17 - Contracting Officer's Representative

NAVSEAINST 4280.2 - Master Agreement for Repair and Alteration of Vessels, Master Ship Repair Agreement (MSRA) and Agreement for Boat Repair (ABR)

NAVSEAINST 4355.7 - Nondestructive Test (NDT) Examiner Qualification and Requalification

NAVSEAINST 4441.2 - Changes to Coordinated Shipboard Allowance List (COSAL); Procedures for

NAVSEAINST 4700.6 - Guarantee Engineer and Industrial Availability Quality Assessment

NAVSEAINST 4700.17 - Preparation and Review of Trouble Reports

NAVSEAINST 4710.13 - Government Man-day Rates for Use in Private Sector Ship Overhaul and Repair, Planning, Programming and Budgeting

NAVSEAINST 4710.6 - Submarine Advanced Equipment Repair Program (AERP); Assignment of Responsibilities for and Administration of  
 NAVSEAINST 4710.8 - Cost and Performance Reporting for CNO Scheduled Ship Maintenance Availabilities  
 NAVSEAINST 4710.9 - Requirements for Turnover of Planning Products and Specification Package  
 NAVSEAINST 4720.14 - Temporary Alterations to Active Fleet Submarines; Control of  
 NAVSEAINST 4720.15 - Machinery Alterations on HM&E Equipment and Systems  
 NAVSEAINST 4720.23 - Deep Submergence Systems Temporary Modifications

**NAVSEAINST 4730.1 - Shipyard Inspection and Required Conditions of Propulsion Plant Systems (Non-Nuclear) on Nuclear Powered Submarines**

NAVSEAINST 4730.2 - Shipyard Inspection and Required Conditions of Propulsion Plant Systems (Non-Nuclear) for Nuclear Powered Surface Ships  
 NAVSEAINST 4734.1 - NAVSEA Test, Measurement, and Diagnostic Equipment (TMDE) and Calibration Programs

NAVSEAINST 4790.8 - Ship's Maintenance and Material Management (3-M) Manual  
 NAVSEAINST 4790.14 - Ship Departure and Alteration Completion Reports  
 NAVSEAINST 4790.16 - SSBN Extended Operating Cycle (EOC) Program; Policy, Procedures and Responsibilities for  
 NAVSEAINST 4790.17 - Fleet Test and Repair of Shipboard Electronic Equipment  
 NAVSEAINST 4790.19 - Submarine Engineered Operating Cycle (SEOC) Program  
 NAVSEAINST 4790.23 - Baseline Project Management Plan (BPMP)

NAVSEAINST 5370.1 - Standards of Conduct and Statements of Affiliations and Financial Interests  
 NAVSEAINST 5400.95 - Waterfront Engineering and Technical Authority Policy  
 NAVSEAINST C5511.32 - Safeguarding of Naval Nuclear Propulsion Information  
 NAVSEAINST 5730.1 - Legislative and Congressional Matters

NAVSEAINST 7500.1 - Audits of NAVSEA by External Audit Organizations

NAVSEAINST 9070.1 - Standard Specification for Ship Repair and Alteration Committee  
 NAVSEAINST C9073.2 - Acoustical Survey of Submarines  
 NAVSEAINST C9094.2 - Submarine Valve Operation Requirements for Builders and Post-Overhaul Sea Trial Test Dives  
 NAVSEAINST C9096.2 - Weight and Stability Requirements for Active Submarines

NAVSEAINST 9210.31 - Government Procurement Quality Source Inspection Actions for Shipyard Procedure of Material Under NAVSEA 08 Cognizance  
 NAVSEAINST C9210.4 - Changes, Repairs and Maintenance to Nuclear Powered Ships  
 NAVSEAINST 9210.14 - Changes to Submarine Tenders and Destroyer Tenders with Nuclear Support Facilities, Requirements Concerning  
 NAVSEAINST 9210.23 - Requirements for Naval Nuclear Work at Naval Activities and Private Shipyards - Certification of Work Accomplishment and Data Retention of Associated Records and Retention of Design Records  
 NAVSEAINST 9210.30 - Procedures for Administration of Nuclear Reactor Plant Preventive Maintenance and Tender Nuclear Support Facilities Preventive Maintenance on Ships  
 NAVSEAINST 9210.31 - Government Procurement Quality Source Inspection Actions for Shipyard Procedure of Material Under NAVSEA 08 Cognizance  
 NAVSEAINST C9210.34 - All Nuclear Projects - Material Identification and Control Requirements for Naval Nuclear Reactor Plant Piping Systems  
 NAVSEAINST 9210.39 - Submarine Nuclear Propulsion Plant Operator Welders: Procedures for Maintenance of Qualification  
 NAVSEAINST 9210.41 - All Naval Nuclear Propulsion Plants - Use of Standard Lubricants and Penetrating Fluid; Requirements for  
 NAVSEAINST 9210.45 - Reactor Plant Welding and Nondestructive Testing Personnel  
**NAVSEAINST 9254-1 - Eddy Current Inspection of Condensers and Reboilers on Nuclear Vessels**

NAVSEAINST 9304.1 - Shipboard Electrical Cable and Cableway Inspection and Reporting Procedures  
NAVSEAINST 9593.1 - Certification Program for Sewage Marine Sanitation Devices in U.S. Navy Surface Ships and Craft

NAVSHIPS 0900-070-6010 - Material Control Standard  
NAVSHIPS 0948-045-7010 - Material Identification and Control (MIC) for Piping Systems

NAVSO P-1000 - Navy Comptroller Manual  
NAVSO P-3006 - Financial Management of Resources Operations and Maintenance, (Shore Activities)  
NAVSO P-3635 - Federal Acquisition Regulation, Section 13, Chapter 312  
NAVSO P-3013-2 - Financial Management of Resources Operating Forces Procedures

NAVSUP 484 - Supply Afloat Fleet and Field Packaging Procedures  
NAVSUP 5009 (DLAM 4215.1) - Management of Defense-Owned Industrial Plant Equipment  
NAVSUP Publication 485 - Afloat Supply Procedures  
NAVSUP P2003 - Navy Stock List of Forms and Publications  
NAVSUPPUB 437 - Material Required Delivery Date Processing

NMCARS 5201 - Federal Acquisition Regulations System  
NMCARS 5219.2 - Special Contracting Policy  
NMCARS 5219.7 - The Small Business Subcontracting Program

NMCARS 5233 - Protests, Disputes and Appeals  
NMCARS 5233.9000 - Documentation of Significant Contract Events  
NMCARS 5242 - Contract Administration and Audit Services  
NMCARS 5245.302 - Providing Facilities  
NMCARS 5245.505 - Records and Reports of Government Property  
NMCARS Part 5245 - Government Property

NSTR-99 - Qualification Examination Requirements for Nondestructive Test Personnel

NSWC Philadelphia ltr 9320, Ser 934/010 dated 19 Mar 2001, titled Shipboard Circuit Breaker Maintenance and Overhaul Policy  
NSWCCD-71-TR-2001/020 - February 2001 USS SEAWOLF (SSN 21) Class Acoustic Stealth Manual

NSWCCD-SSES 933-GGTB 4 - General Gas Turbine Bulletin Number 4 (Marine Gas Turbine Operating Data Report)  
NSWCCD-SSES 9332-GGTB 11 - General Gas Turbine Bulletin Number 11 (Gas Turbine Fleet Representatives)  
NSWCCD-SSES 9352-GGTB 0 - General Gas Turbine Bulletin Number 0 (Technical Directive Zero Index)

NUSC 551 - Handbook for Submarine Antenna Systems

NWP 1-03.1 - Naval Warfare Publication Operational Report

Occupational Safety and Health Act of 1970

ONRINST 5400.1 - Obtaining Waivers Under Office of Naval Research Designation as a Reinvention Laboratory

OPNAV 43P6 - MEASURE Users Manual

OPNAVINST 3000.12 - Operational Availability of Equipments and Weapons Systems  
OPNAVINST C3000.5 - Operation of Naval Nuclear Powered Ships  
OPNAVINST 3120.28 - Certification of the Aviation Capability of Naval Ships Operating Aircraft  
OPNAVINST 3120.32 - Standard Organization and Regulations of the U.S. Navy

OPNAVINST 3120.33 - Submarine Extended Operating Cycle (SEOC) Program  
OPNAVINST 3150.27 - Navy Diving Program  
OPNAVINST 3540.3 - Naval Nuclear Propulsion Examining Boards  
OPNAVINST 3540.4 - Propulsion Examining Boards for Conventionally Powered Ships  
OPNAVINST 3960.16 - Navy Test, Measurement, and Diagnostic Equipment (TMDE) Automatic Test Systems (ATS), and Metrology and Calibration (METCAL)

OPNAVINST 4000.57 - Logistic Support of the TRIDENT and POSEIDON Fleet Ballistic Missile (FBM) Systems  
OPNAVINST 4100.11 - Navy Energy Usage Reporting System (NEURS)  
OPNAVINST 4614.1 - Uniform Material Movement and Issue Priority System  
OPNAVINST 4700.7 - Maintenance Policy for U.S. Naval Ships  
OPNAVINST 4700.8 - Trials, Acceptance, Commissioning, Fitting Out, Shakedown and Post Shakedown Availability of U.S. Naval Ships Undergoing Construction or Conversion  
OPNAVINST 4700.38 - Berthing and Messing During CNO Scheduled Maintenance Availabilities  
OPNAVINST 4720.2 - Fleet Modernization Program (FMP); Policy For  
OPNAVINST 4730.5 - Trials and Material Inspections (MI) of Ships Conducted by the Board of Inspection and Survey  
OPNAVINST 4770.5 - General Policy for the Inactivation, Retirement and Disposition of United States Naval Vessels  
OPNAVINST 4730.7 - Material Inspection of Submarines Conducted by the Board of Inspection and Survey  
OPNAVINST 4780.6 - Policy for Administering Service Craft and Boats in the U.S. Navy  
OPNAVINST 4790.4 - Ships' Maintenance and Material Management (3-M) Manual  
OPNAVINST 4790.15 - Aircraft Launch and Recovery Equipment Maintenance Program (ALREMP)

OPNAVINST 5090.1 - Environmental and Natural Resources Program Manual  
OPNAVINST 5100.19 - Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat  
OPNAVINST 5100.20 - Shipboard Heat Stress Control and Personnel Protection

OPNAVINST 5100.23 - Navy Occupational Safety and Health (NAVOSH) Program Manual  
OPNAVINST 5420.53 - General Precept for the Conduct of Trials and Material Inspections of Ships and Service Craft  
OPNAVINST C5510.93 - Navy Implementation of National Policy on Control of Compromising Emanations

OPNAVINST C8950.2 - Magnetic Silencing

OPNAVINST 9070.2 - Signature Control Policy for Ships and Craft of the U.S. Navy  
OPNAVINST 9080.3 - Procedures for Tests and Trials of Navy Nuclear Powered Ships Under Construction, Modernization, Conversion, Refueling and Overhaul  
OPNAVINST 9110.1 - Policy Concerning Submarine Test and Operating Depths  
OPNAVINST C9210.2 - Engineering Department Manual for Naval Nuclear Propulsion Plants  
OPNAVINST 9220.2 - U.S. Navy Boiler Water and Feedwater Test and Treatment Program (Nuclear Excluded)  
OPNAVINST 9220.3 - Propulsion and Auxiliary Plant Inspection and Inspector Certification Program  
OPNAVINST 9233.1 - U.S. Navy Diesel Inspection and Inspector Training and Certification Program  
OPNAVINST 9640.1 - Shipboard Habitability Program

OPNAVINST 11010.20 - Facilities Project Instruction Manual

OPNAVNOTE 4700 - Representative Intervals, Durations, Maintenance Cycles, and Repair Mandays for Depot Level Maintenance Availabilities of U.S. Navy Ships  
OPNAVNOTE 4710 - Fleet Depot Maintenance Schedule  
OPNAVNOTE 4780 - Service Craft and Boats Accounting Report (SABAR)

OSHA 29 CFR 1915 - Confined and Enclosed Spaces and Other Dangerous Atmospheres in Shipyard Employment

Public Law 97-114 - DoD Appropriations Act

SECNAV M-5210.1 - Records Management Manual  
SECNAVINST 4855.3 - Product Data Reporting and Evaluation Program (PDREP)  
SECNAVINST 5400.15 - Department of the Navy Research, Development and Acquisition, and Associated Life Cycle Management Responsibilities  
SECNAVINST 5430.92 - Assignment of Responsibilities to Counteract Fraud, Waste and Related Improprieties within the Department of the Navy  
SECNAVINST 5510.30 - Department of the Navy Personnel Security Program  
SECNAVINST 5510.36 - Department of the Navy Information Security Program Regulation  
SL720-AA-MAN-010 - Fleet Modernization Program (FMP) Management and Operations Manual

SOBT Video SVT-GT-9336 - Submarine Preservation

SPCCINST 4440.376 - Supply Policies and Procedures for Naval Reactor Plant Parts and Material  
SPCCINST 4440.482 - Pipe, Fittings, Fasteners  
SPCCINST 4441.170 - COSAL Use and Maintenance Manual

SSN 21-081-PMS350L-035 - Rotatable Pool Management Plan for the SEAWOLF Class SSN

SSPINST 4720.1 - Policies and Procedures for Alteration of Strategic Weapon System Equipment  
SSPINST 5600.11 - Preventive Maintenance Management Program for Strategic Weapon Systems Equipment and Associated Material  
SSPINST 8950.2 - Procedure for Fleet Ballistic Missile (FBM)/Strategic Weapons System (SWS) Components During Flash-Deperm Treatment of an SSBN

STARS Users Manual (FMSO P-104)

SUBMEPP Technical Specification 4730-012-0624 - Submarine Electromagnetic Compatibility (EMC) Survey Manual

SUBMEPP Test Procedure 441-5-7001 - SSN 688 Class Submarine, Systems EMI Measurements, Dockside  
[SUBMEPP 9086-008-814 - TRIPER Information Notebook](#)

SWT 077-01 - Hazardous Waste Produced on Naval Vessels; control  
SWT 857-01 - Temporary Galley and Messing Facilities; provide  
SWT 857-011 - Temporary Off Ship Berthing Equivalent to BOQ/BEQ; provide

The North American Industry Classification System (NAICS)

Title 10 U.S. Code - Armed Forces

TL130-A1-HBK-010 - MSC Procedures Manual - Maintenance Support Center Library Procedures Manual

TMIN SL700-AB-GYD-010 - Pictorial Guide for Painting Ship's Interiors

URO-MRC 003

U.S. Navy Regulations Article 1115

**Type Commander (TYCOM)**

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
FWD-7.3.2	Life Cycle Maintenance Process for JFMM	<ul style="list-style-type: none"> <li>• Review and evaluate JFMM changes (21 days)</li> <li>• Notify Fleet Commanders of changes which affect ship and personnel safety</li> <li>• Review ACNs and forward to Fleet Commanders</li> <li>• Review and endorse all change packages</li> <li>• Designate representatives of JFMM BOD</li> <li>• Identify changes to JFMM distribution list</li> </ul>
II-I-3.3.6.2	Maintenance Policies and Procedures	<ul style="list-style-type: none"> <li>• Coordinate scheduling of availabilities with Fleet Commander</li> <li>• Initiate required budgetary actions</li> <li>• Coordinate work assignments between FMA and industrial activity</li> <li>• Seek resolution of technical problems and coordinate requirements for modernization and repair</li> <li>• Authorize AWP's prepared by SUBMEPP</li> <li>• (Submarines) Coordinate interface 3-M system with PMR scheduling and feedback</li> <li>• Designate representative for WDC/PRC and pre-arrival conference</li> <li>• Recommend to CNO any high priority fleet modernization</li> <li>• (Submarines) Send a Sea Trials Support Services message, if required</li> <li>• (Submarines) For minor maintenance availabilities, send a Waiver of Escort Requirements message when requested by the ISIC</li> <li>• Conduct QA audit of Ship's Force and FMA CWPs</li> <li>• (Submarines) For major availabilities send message for Fast Cruise, Sea Trials and Unrestricted Operations</li> <li>• (Submarines) For availabilities less than six months issue required message for Sea Trials</li> </ul>
II-I-3.3.6.3	Maintenance Policies and Procedures	<ul style="list-style-type: none"> <li>• Assist TYCOM and SUBMEPP in preparation of AWP</li> <li>• Monitor corrective maintenance action taken</li> <li>• Schedule and conduct inspections of Forces Afloat</li> <li>• Monitor progress of CNO maintenance availabilities</li> <li>• Ensure that a MOA is executed prior to availability start</li> </ul>
II-I-3.6.8.3.11d	Availability Completion Prerequisites	<ul style="list-style-type: none"> <li>• Issue message to the ship certifying the FBW SCS and authorizing FBW SCS unrestricted use</li> </ul>

Section	Area of Responsibility	Responsibility
II-I-3.6.8.4.1c	Responsibilities for trials and inspections	<ul style="list-style-type: none"> <li>• Schedule Fleet Commander PORSE</li> <li>• Provide Fast Cruise, Sea Trial and completion prerequisites to the ship</li> <li>• Assign material representatives to embark for trials</li> <li>• Inform CNO and Fleet Commander of trials</li> <li>• Provide escorts as required</li> <li>• Conduct ship salvage inspection</li> <li>• Approve Sea Trial Agenda</li> <li>• Report crew readiness and request authorization for critical ops</li> <li>• Report status of SUBSAFE boundary conditions and authorization of Sea Trials</li> <li>• Report status of SUBSAFE certification and authorize URO to test depth</li> <li>• Authorize underway operation of the FBW SCS</li> <li>• Issue a message to the ship authorizing FBW SCS unrestricted use in support of submarine unrestricted operations</li> </ul>
II-II-2.5	Milestones	<ul style="list-style-type: none"> <li>• Obtain technical adjudication for any Baseline AWP items prior to the removal of any Baseline AWP item from the work package.</li> </ul>
IV-2.4.1	FMA Assessment	<ul style="list-style-type: none"> <li>• Promulgate assessment schedule</li> <li>• Forward precepts letter or message to FMA's Commanding Officer</li> <li>• Conduct in-brief and out-brief with designated personnel</li> <li>• Issue assessment report</li> </ul>
IV-5.3.1	Marine Sanitation Devices	<ul style="list-style-type: none"> <li>• Ensure surface ships participate in pollution abatement program</li> <li>• Ensure MSD systems are properly installed, operated and maintained</li> </ul>
IV-16.2.3	Aircraft Launch and Recovery Systems	<ul style="list-style-type: none"> <li>• Provide ALRE Maintenance Management Teams to conduct assist visits and annual audits of all units</li> </ul>
IV-17.3.3	Steam Catapult Inspection	<ul style="list-style-type: none"> <li>• Provide or arrange for certified SGPIs to perform inspections</li> <li>• Coordinate inspections of all catapult accumulators and support systems</li> <li>• Assist COs in arranging for corrective action of deficient items</li> <li>• Review the SCIRMIS</li> </ul>
IV-26.2.1	Board of Inspection and Survey Material Inspections Policy	<ul style="list-style-type: none"> <li>• Act as cognizant authority for conduct of INSURV inspections</li> <li>• Nominate active ships for MIs by the INSURV board</li> <li>• Schedule inspections/assessments within 60 days of MI</li> </ul>

Section	Area of Responsibility	Responsibility
IV-27.3.3	Steam Reboiler Inspection	<ul style="list-style-type: none"> <li>• Arrange for certified SGPIs to perform inspections</li> <li>• Schedule inspections of all Steam Reboilers and support systems. Coordinate the inspections.</li> <li>• Assist Commanding Officers in arranging corrective action of deficient items beyond the capability of Ship's Force to perform. Monitor follow-up action to correct deficiencies.</li> <li>• Review the RIRMIS to ensure deferred inspection deficiencies are entered into the CSMP</li> </ul>
V-I-1.3.1	Organizational Responsibilities	<ul style="list-style-type: none"> <li>• (Submarines) Obtain NAVSEA approval for exception to REC requirements</li> <li>• Administer a departure from specification system</li> <li>• Perform assessment of nuclear FMAs annually</li> <li>• (Submarines) Perform assessment of ISICs annually</li> <li>• Perform assessment of FMA's non-nuclear programs annually</li> <li>• Perform random, unannounced assessments and monitor visits</li> <li>• Review and evaluate FMA and ISIC reports of corrective actions</li> <li>• (Submarines) Maintain system to provide SUBSAFE certification</li> <li>• Provide annual self evaluation of QA program</li> <li>• Evaluate and analyze proposed changes to this volume</li> <li>• (Submarines) Perform annual SUBSAFE/Scope of Certification awareness training</li> <li>• (Submarines) Develop and implement necessary instructions and procedures to meet requirements of reference (a)</li> <li>• (Submarines) Maintain FBW SCS certification</li> <li>• Approve at-sea testing developed by the ISEA following Upgrades/Alterations or Major Repair Work</li> <li>• Issue a message to the ship certifying the FBW SCS and authorize FBW SCS unrestricted use in support of Submarine unrestricted operations</li> </ul>
V-I-9.3.4	Assessments	<ul style="list-style-type: none"> <li>• Conduct annual assessments of ISICs and FMAs</li> </ul>

Section	Area of Responsibility	Responsibility
V-III-1.2.1	Organizational Responsibilities	<ul style="list-style-type: none"> <li>• Obtain SCA approval for REC requirements in SOC systems</li> <li>• Administer DFS system</li> <li>• Perform assessment of ISICs responsible for DSSs annually</li> <li>• Perform random, unannounced Sustaining Activity Quality Assurance assessments</li> <li>• Review and evaluate Sustaining Activity reports of corrective action</li> <li>• Recommend to SCA suspension and reinstatement of DSS certification</li> <li>• Perform annual SOC awareness training</li> </ul>
VI-4.8a	Shipboard Electromagnetic Compatibility	<ul style="list-style-type: none"> <li>• Coordinate to identify, solve and correct operational EMI deficiencies</li> <li>• Arrange for SEMCIP services when required</li> <li>• Review and authorize documents prepared by technical agencies</li> <li>• Evaluate comments and recommendations regarding EMI reduction</li> <li>• Ensure FMA and RMC have technicians to support EMI surveys</li> </ul>
VI-5.2.4	Deficiency Documentation and Reporting	<ul style="list-style-type: none"> <li>• Validate, screen and broker all 4790/2Ks</li> <li>• Broker all 4790/2Ks associated with any outstanding C3/C4 CASREP during the next scheduled maintenance availability</li> <li>• Approve any planned delay of action on a CASREP</li> <li>• Enforce compliance with the policy of updating a CASREP</li> </ul>
VI-6.4.2	Industrial Plant Equipment	<ul style="list-style-type: none"> <li>• Review PEPs for technical accuracy and completeness</li> <li>• Review PEPs for conflicts with other maintenance actions</li> <li>• Prioritize PEPs and evaluate each project to ensure compatibility with capability requirements and site configuration</li> <li>• Forward approved requests and return unapproved requests</li> <li>• Schedule annual assessment and coordinate repairs</li> </ul>
VI-8.2.2	Miniature/Micro-miniature Electronic Repair Program	<ul style="list-style-type: none"> <li>• Coordinate and manage 2M program</li> <li>• Monitor effectiveness of 2M program</li> <li>• Implement progressive repair procedures</li> <li>• Coordinate logistic support, outfitting requirements and deployment priorities</li> <li>• Monitor 2M certification status</li> <li>• Schedule 2M certifications in conjunction with CSRR</li> <li>• (Aircraft Carriers) Conduct MTRF in accordance with reference (e)</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-9.2.2	Metrology and Calibration Program	<ul style="list-style-type: none"> <li>• Assign a METCAL program single point of contact</li> <li>• Submit TAMS allowance change requests to TAMS allowance manager</li> <li>• Redistribute excess TAMS</li> <li>• Provide properly trained personnel to authorized calibration activities</li> <li>• Periodically perform Quality Assurance reviews of laboratories</li> <li>• Manage calibration overflow program</li> <li>• Ensure Regional Loan Pools are established</li> <li>• Evaluate FMA/Regional Calibration Laboratories</li> <li>• Coordinate for SCAT assignments and SPETERL revisions</li> <li>• Assign Fleet Commander representatives</li> </ul>
VI-11.5.1	Maintenance, Repair and Overhaul of Service Craft, Landing Craft and Small Boats	<ul style="list-style-type: none"> <li>• Coordinate all aspects of advanced planning</li> <li>• Authorize all new industrial work items</li> <li>• Authorize growth in existing industrial work item</li> <li>• Provide funding for authorized work</li> <li>• Monitor and approve changes in established milestones</li> <li>• Direct action when quality or completeness of industrial activity work is in question</li> </ul>
VI-12.3.2.1	Degaussing (ships with installed degaussing systems)	<ul style="list-style-type: none"> <li>• Monitor degaussing readiness of assigned ships</li> <li>• Ensure ships "check range" as required</li> </ul>
VI-16.2.2.1.3	Habitability Improvement/ Self Help Responsibilities	<ul style="list-style-type: none"> <li>• Develop Five Year Plan, establish priorities for attainment of standards</li> <li>• Plan, schedule, coordinate and monitor projects</li> <li>• Authorize, budget and fund habitability program</li> </ul>
VI-19.2.1.1	Ship Maintenance and Material Management	<ul style="list-style-type: none"> <li>• Maintenance Data System</li> <li>• Planned Maintenance System</li> <li>• Alteration Management System</li> <li>• (Submarines) TFBR History/Tracking Program</li> <li>• Maintenance Resource Management System</li> <li>• PMR Scheduling System</li> <li>• CSMP</li> <li>• SNAP I/II/III Organizational Maintenance Management System</li> <li>• TRIDENT Logistical Data System/MRMS Interface</li> <li>• Master Job Catalog</li> </ul>
VI-24.7.1	Periodic Maintenance Requirement Program	<ul style="list-style-type: none"> <li>• Provide overall scheduling system for accomplishment of PMRs</li> <li>• Perform periodic audits of ISICs and FMAs</li> <li>• Provide guidance to ISICs when deviation is required</li> </ul>
VI-25.3.1	Unrestricted Operations	<ul style="list-style-type: none"> <li>• Perform periodic audits of ISICs and FMAs</li> <li>• Provide guidance to ISICs when deviating from schedules due to DFS requests</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-27.3.1	Scheduled Preservation Upkeep Coordinated Effort	<ul style="list-style-type: none"> <li>• Administer the SPRUCE program</li> <li>• Maintain and distribute file of SPRUCE lessons learned</li> </ul>
VI-31.3.4	Surface Ship Maintenance Placement and Oversight Business Rules	<ul style="list-style-type: none"> <li>• Establish force maintenance policies and directives</li> <li>• Provide list of Fleet Alteration requirements for execution year as input to RMC business plan</li> <li>• Issue spending controls to RMC and update on quarterly basis</li> <li>• Has authority to recapture spending controls previously issued, as a last resort</li> <li>• Funds will be provided early enough to avoid premiums</li> <li>• If not funding an availability, must approve removal of funds before RMC initiates this action</li> <li>• Evaluate Maintenance and Modernization Business Plan adjustment requests</li> <li>• Evaluate RMCs end of quarter financial status report</li> </ul>
VI-33.3.2	Ship Maintenance	<ul style="list-style-type: none"> <li>• Execute ship maintenance in accordance with Fleet and TYCOM policies and directives</li> <li>• Develop a BAF percentage for CNO availabilities to account for local business conditions</li> <li>• Make any additional adjustments to controls based on MFOM prioritization of the work package, risk analysis and BCA</li> </ul>
VI-33.3.3	Ship Maintenance	<ul style="list-style-type: none"> <li>• Establish Force maintenance policies and directives and authorize the RMC to execute them</li> <li>• Provide the RMC with Target Controls in March of each year</li> <li>• Ensure that established modernization plan is accurate and issue Fleet Alteration Letters of Authorization</li> <li>• Establish the percentage of CNO Availability and CM funding controls to be allocated to the MFOM Funding Distribution Pools</li> <li>• Final approval of MMBP</li> </ul>
VI-37.5c	Regional Maintenance Center Passive Countermeasure System Support Requirements	<ul style="list-style-type: none"> <li>• Coordinate in identifying, solving and correcting PCMS deficiencies</li> <li>• Arrange for PCMS maintenance services when required</li> <li>• Review and authorize documents that contain procedures relative to PCMS</li> <li>• Evaluate comments and recommendations regarding Fleet PCMS program</li> </ul>
VI-38.3.1	DSS Hull Integrity Procedures	<ul style="list-style-type: none"> <li>• Perform periodic audits of ISICs and FMAs</li> <li>• Provide guidance to ISICs for DFS request and resolution</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-40.5.1	(SUBS) Messages	<ul style="list-style-type: none"> <li>• Review (SUBS) message traffic</li> <li>• Assist and support the ISIC</li> <li>• Track (SUBS) messages initiated by the TYCOM department generating the message</li> <li>• Track (SUBS) messages generated by submarines under its cognizance</li> </ul>
VI-41.3.4.1	Availability Coordination	<ul style="list-style-type: none"> <li>• Assigns scheduled and year long CM and Emergent Maintenance Availabilities</li> <li>• Provides oversight on Ashore Ship Maintenance Manager recommended brokering of work</li> <li>• Funds CNO and CM Depot Availability Contracts</li> <li>• Authorizes growth and new work</li> <li>• Acts on contract cost performance concerns</li> <li>• Resolves CNO availability scheduling issues</li> <li>• Approves other contracting vehicles, as applicable</li> <li>• Authorizes maintenance below MFOM threshold as funding permits</li> <li>• Chairs post availability "Hot Wash" meetings</li> <li>• Makes determination of urgent and compelling circumstances when necessary</li> </ul>
VI-42.6.2	Material Assessment	<ul style="list-style-type: none"> <li>• Schedule and authorize material assessments</li> <li>• Define the scope of material assessment</li> <li>• Provide funding for execution and support</li> <li>• Conduct periodic reviews of the material assessment process</li> <li>• Establish standards of effectiveness to ensure program improvement</li> <li>• Evaluate unit's ability to self assess and report training deficiencies</li> </ul>

**Immediate Superior in Command (ISIC)**

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
I-2.5.1	Pre-Commissioning	<ul style="list-style-type: none"> <li>● Provide crew support prior to initial man-up</li> <li>● Conduct an inspection of the crew at the building yard</li> <li>● Conduct periodic monitoring of ships</li> <li>● Ensure personnel arrive in support of initial crew man-up</li> <li>● Conduct a Habitability Inspection</li> <li>● Make recommendations to the TYCOM for placing the ship "In Service"</li> <li>● Conduct a review of units to be established as Field Calibration Activities</li> <li>● Ensure that assigned New Construction Units operate and maintain installed diesel engines</li> <li>● (Nuclear Powered Ships only) Conduct a Pre-RSE of the Engineering/Reactor Department</li> <li>● (Nuclear Powered Ships only) Review Pre-RSE findings, the CO's training plan and progress evaluations</li> <li>● (Submarines only) Prior to Fast Cruise, report ship's preparations to assume responsibility for Re-entry Control</li> <li>● (Submarines only) Schedule salvage inspections</li> <li>● (Submarines only) Designate the salvage inspection team</li> <li>● For CVNs, conduct crew certification</li> <li>● For all other hulls, conduct Phase I crew certification</li> <li>● Conduct Phase II crew certification</li> <li>● Conduct a material inspection of the ship</li> <li>● Report satisfactory completion of the inspections to the TYCOM</li> <li>● Message reporting requirements</li> </ul>

Section	Area of Responsibility	Responsibility
II-I-3.6.1.2	Availability Execution	<ul style="list-style-type: none"> <li>• Authorize new items and growth industrial work items</li> <li>• Monitor and approve all changes in established milestones</li> <li>• Issue direction when the quality or completeness of industrial work is in question</li> <li>• Monitor off-ship crew messing and berthing arrangements</li> <li>• Notify the TYCOM when essential Ship's Force work cannot be completed on the scheduled contract date</li> <li>• (Surface Ships only) Assess and monitor shipboard conditions</li> <li>• (Submarines only) Assess and monitor shipboard conditions</li> <li>• Monitor Ship's Force preparations for LOA</li> <li>• (Nuclear Powered Ships only) Conduct a Pre-Critical Inspection of the Engineering Department</li> <li>• (Submarines only) Schedule a salvage inspection by the Forces Afloat</li> <li>• Conduct a formal Phase I crew certification inspection(s) of the Ship's Force</li> <li>• (Submarines only) Prior to Fast Cruise, conduct a formal audit of Ship's Force, Re-Entry Control, Departure from Specification Records and CSMP</li> <li>• Conduct Phase II crew certification</li> <li>• Conduct a material inspection of the ship</li> <li>• Report satisfactory completion of inspections to the TYCOM</li> <li>• Receive schedule and agenda of tests for Sea Trials for review and approval</li> <li>• (Submarines only) Prior to Sea Trials, report material certification of the ship by message</li> <li>• Monitor the progress of the availability</li> <li>• If required, initiate Operating Cycle Extension Assessment</li> </ul>
II-I-3.6.8.3b(5)(d) (Submarines Only)	Trials, Inspections and Certification Minor Availabilities	<ul style="list-style-type: none"> <li>• Perform 100% audit of FBW SCS Upgrades/Alterations or Major Repair Work</li> </ul>
II-I-3.6.8.3b(6)(c)	Trials, Inspections and Certification Minor Availabilities	<ul style="list-style-type: none"> <li>• Perform 100% audit of FBW SCS Upgrades/Alterations or Major Repair Work</li> </ul>
II-I-3.6.8.3.9	Sea Trials	<ul style="list-style-type: none"> <li>• Authorize the ship to get underway for Sea Trials. Notify TYCOM of satisfactory completion of Fast Cruise</li> </ul>
II-I-3.6.8.3.11c	Availability Completion Prerequisites	<ul style="list-style-type: none"> <li>• Certify to TYCOM material condition of parts of ship installed, repaired and/or tested by the ISEA activity</li> </ul>
II-I-3.6.8.4.1d	Fast Cruise	<ul style="list-style-type: none"> <li>• Perform 100% audit of FBW SCS Upgrades/Alterations or Major Repair Work</li> </ul>

Section	Area of Responsibility	Responsibility
II-I-3.6.8.4.7b(5)	Sea Trials	<ul style="list-style-type: none"> <li>• Designate a minimum of one officer qualified in submarines and ensure a sufficient number of officers qualified in submarines will be embarked during the escort duty</li> </ul>
II-I-4.4.1.1	Common Elements	<ul style="list-style-type: none"> <li>• Coordinate scheduling of availabilities at LMAs</li> <li>• Monitor corrective maintenance action</li> <li>• Schedule and conduct inspections</li> <li>• Monitor progress</li> <li>• Initiate budgetary actions for funding availabilities</li> <li>• Alterations identified by priority based on material availability</li> <li>• Identify routine packages</li> <li>• Review results of monitoring inspections and testing</li> <li>• Identify special evolutions</li> <li>• Issue availability planning message</li> <li>• (Submarines) Ensure PMR and URO MRC actions are identified</li> <li>• (Submarines) Send Sea Trials Support Services message</li> <li>• (Submarines) Provide updated Sea Trials Status</li> <li>• (Submarines) Identify key events for each CMAV</li> <li>• (Submarines) Monitor Ship and Executing Activity preparations to transition to a CMAV period</li> </ul>
II-I-4.5.4	Ship Certification Prior to Underway	<ul style="list-style-type: none"> <li>• Perform 100% audit of FBW SCS Upgrades/Alterations or Major Repair Work</li> </ul>
II-I-4.9.1	Interim Drydocking/Pre-Inactivation Restricted Availabilities (Submarines)	<ul style="list-style-type: none"> <li>• Authorize new items and growth industrial work items</li> <li>• Monitor and approve changes in established milestones</li> <li>• Issue direction when Industrial Activity work is in question</li> <li>• Notify TYCOM when Ship's Force work can not be completed</li> <li>• Periodically monitor and assess shipboard conditions</li> <li>• ISIC QA officer will conduct audit of Ship's Force Re-entry Control and Departure from Specification Records</li> <li>• Conduct material inspection prior to Fast Cruise</li> </ul>
IV-3.3.6	Boiler Inspections	<ul style="list-style-type: none"> <li>• Maintain overall cognizance of SGPI Program</li> <li>• Schedule routine inspections</li> <li>• Arrange for availability of SGPI during CAI</li> <li>• Monitor follow-up action</li> <li>• Assist COs in arranging for corrective action when requested</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
IV-14.2.3	Magazine Sprinkler Inspection Requirements	<ul style="list-style-type: none"> <li>• Ensure scheduling of Shipboard Explosive Safety Inspection</li> <li>• Follow-up on all discrepancies posted by verification activity</li> <li>• Act as sole grantor of all magazine sprinkler systems re-certification</li> </ul>
IV-18.3.1	Submarine Salvage Inspection	<ul style="list-style-type: none"> <li>• Submarine Salvage Inspection</li> </ul>
IV-21.2.1	Submarine Oxygen Generating Plants	<ul style="list-style-type: none"> <li>• Ensure assigned units are in compliance with paragraph 21.1.1</li> <li>• Conduct periodic inspections and audits</li> <li>• Ensure PMT inspectors perform material inspections of the ship's EOGs</li> </ul>
IV-23.2.2.6	Gas Turbine Engine Inspection	<ul style="list-style-type: none"> <li>• Monitor the follow-up action to correct noted discrepancies by randomly sampling ship's files and reports</li> <li>• Assist Commanding Officers in arranging for corrective action items beyond the capability of Ship's Force</li> </ul>
IV-26.2.2	Board of Inspection and Survey Material Inspections Policy	<ul style="list-style-type: none"> <li>• Schedule a Navy Safety Center Safety Survey</li> <li>• Monitor ship's preparation for MI</li> <li>• Ensure post inspection reporting procedures followed</li> <li>• Attend post-INSURV inspection critiques</li> <li>• Ensure subordinate commands are prepared for scheduled INSURV</li> <li>• Ensure ship is prepared to discuss deficiencies not corrected and items removed from CSMP</li> <li>• Provide ship original and three copies of AWR and CSMP</li> <li>• Monitor reporting and correction of MI deficiencies</li> </ul>

Section	Area of Responsibility	Responsibility
V-I-1.4.1	Organizational Responsibilities	<ul style="list-style-type: none"> <li>• Organize and implement a QA program</li> <li>• (Submarines) Organize and implement program to verify performance of required maintenance</li> <li>• Organize and implement a work request screening process</li> <li>• (Submarines) Review Ship's Force Controlled Work Packages</li> <li>• (Submarines) Ensure ship's certification continuity report is received before ship is underway</li> <li>• Review and sign MOA</li> <li>• (Submarines) Administer a DFS system</li> <li>• Monitor QA program and procedures</li> <li>• Schedule and conduct QA program assessment</li> <li>• Review and endorse TYCOM audit report</li> <li>• Conduct periodic monitoring of Ship's Force work and QA program</li> <li>• (Submarines) Perform annual SUBSAFE/SOC/FBW SCS awareness training</li> <li>• (Submarines) Conduct oral interview with Ship's Force relieving QAO</li> <li>• Ensure fact-finding critiques are held to establish causes of errors during maintenance</li> <li>• Provide sufficient time for crew training during Upgrades/Alterations or Major Repair Work on the FBW SCS</li> <li>• Conduct FBW SCS certification audits</li> <li>• Report by message, crew readiness and verification from the ISEA/activity performing work that work necessary for at-sea testing is complete</li> <li>• Certify to the TYCOM the FBW SCS material condition of parts installed, repaired and/or tested by the ISEA is satisfactory</li> </ul>
V-I-5.13.4c	Objective Quality Evidence to Support Controlled FBW SCS Work	<ul style="list-style-type: none"> <li>• Perform 100% audit of FBW SCS Upgrades/Alterations or Major Repair Work</li> </ul>
V-I-8.3.1g and V-I-8.3.7e(2)	Departure from Specification Procedures	<ul style="list-style-type: none"> <li>• Provide the Job Control Number and Departure serial number for Departures initiated by a depot level activity</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
V-I-9.3.3c	Assessments, Audits and Surveillance	<ul style="list-style-type: none"> <li>• Schedule and conduct a QA Program assessment of all assigned ships</li> <li>• Conduct additional periodic audits and surveillance</li> <li>• Conduct 100% audit of CWPs for SUBSAFE work accomplished by Forces Afloat</li> <li>• Conduct audit of UROs assigned to Forces Afloat</li> <li>• Conduct review of all outstanding Forces Afloat DFSs</li> <li>• Vertical audits of all Forces Afloat CWPs</li> <li>• Perform 100% audit of FBW SCS Upgrades/Alterations or Major Repair Work</li> </ul>
V-III-1.2.2	Organizational Responsibilities	<ul style="list-style-type: none"> <li>• Maintain certification on assigned DSS</li> <li>• Ensure Sustaining Activities perform internal surveys</li> <li>• Ensure Sustaining Activities process requests for sustaining certification</li> <li>• Perform QA assessments associated with the DSS and host submarines</li> <li>• Route appropriate DSS SOC DFSs for approval</li> <li>• Conduct vertical audit of assigned DSS unit's OQE</li> <li>• Conduct a sampling audit of the OQE</li> <li>• Perform annual SOC awareness training</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-3.2.1	Submarine Fleet Modernization Program	<ul style="list-style-type: none"> <li>• Inform FMA of upcoming availabilities</li> <li>• Monitor FMA modernization and availability planning</li> <li>• Establish installation priorities</li> <li>• Ensure no action is taken to accomplish alterations which are not authorized for accomplishment</li> <li>• Maintain a file of alteration briefs</li> <li>• Assist units in preparation of alteration requests</li> <li>• Identify deficiencies and changes to hull applicability of alterations</li> <li>• Ensure only TYCOM authorized or partially completed alterations appear on CSMP</li> <li>• Ensure MJC contains all alterations authorized for completion</li> <li>• Ensure appropriate reports are collected prior to end of availability and critical operations</li> <li>• Ensure RPCCRs are distributed to ship's CO</li> <li>• Schedule required ship checks</li> <li>• Ensure situational alterations are accomplished</li> <li>• Inform ships of alterations planned during an availability</li> <li>• Review reports of alteration completions during CNO availabilities</li> <li>• Ensure Forces Afloat alterations are completed to maximum extent prior to CNO availability</li> <li>• For deploying units, provide to FMA a list of alterations to be completed during deployment upkeep</li> <li>• Allocate portion of FMA ROV for procuring alteration material for installation by Forces Afloat</li> <li>• Before installation begins, ensure MOA is in place for any alteration accomplished by industrial activity</li> <li>• Ensure installation of TEMPALTs/OPALTs is in accordance with reference (e)</li> <li>• Ensure alteration by AIT in accordance with reference (f)</li> <li>• Ensure FMA obtains TYKITs RFI</li> <li>• Ensure no action taken to obtain material for alterations designated as TYKITs</li> <li>• Ensure category "A" A&amp;I's completed within 12 months</li> <li>• Maintain a current status of alterations</li> <li>• Prepare and forward TAMs</li> <li>• Ensure FBW SCS alterations in accordance with reference (g)</li> </ul>
VI-5.2.2	Deficiency Documentation and Reporting	<ul style="list-style-type: none"> <li>• Screen and technically review all submitted 4790/2Ks</li> <li>• Technically review all submitted CASREPs</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-8.2.2	Miniature/Micro-miniature Electronic Repair Program	<ul style="list-style-type: none"> <li>• Coordinate and manage 2M program</li> <li>• Monitor effectiveness of 2M program</li> <li>• Implement progressive repair procedures</li> <li>• Coordinate logistic support, outfitting requirements and deployment priorities</li> <li>• Monitor 2M certification status</li> <li>• Schedule 2M certifications in conjunction with CSRR</li> <li>• (Aircraft Carriers) Conduct MTRF in accordance with reference (e)</li> </ul>
VI-9.2.4	Metrology and Calibration Program	<ul style="list-style-type: none"> <li>• Monitor calibration readiness status within their respective organizations</li> <li>• Monitor effectiveness of electronic and SGCP FCAs</li> <li>• Ensure that ships with FCAs extend their service to other ships in company</li> <li>• Ensure each ship has necessary standards, documentation and trained personnel to maintain certification</li> <li>• Coordinate resolution of calibration problems</li> <li>• (Submarines) ensure each activity supports PMR/Maintenance Resource Management System scheduling program</li> <li>• (Surface and Air) Calibration Readiness Goal is 85%</li> </ul>
VI-11.5.2	Maintenance, Repair and Overhaul of Service Craft, Landing Craft and Small Boats	<ul style="list-style-type: none"> <li>• Review overhaul progress reports</li> <li>• Review Ship's Force and FMA concurrent work</li> <li>• Ensure directives are followed concerning safety</li> <li>• Attend Sea Trial and overhaul completion review conferences</li> <li>• Assist in all aspects of planning and monitoring of industrial availabilities</li> </ul>
VI-12.3.2.1	Degaussing (ships with installed degaussing systems)	<ul style="list-style-type: none"> <li>• Monitor degaussing readiness of assigned ships</li> <li>• Ensure ships "check range" as required</li> </ul>
VI-12.4.1.1	Submarines Without Installed Degaussing Systems	<ul style="list-style-type: none"> <li>• Ensure ships "check range" as required</li> <li>• Schedule ships with unsat magnetic signatures for flash deperming</li> </ul>
VI-19.2.1.3	Ship Maintenance and Material Management	<ul style="list-style-type: none"> <li>• Designate 3M Officer</li> <li>• Centralize maintenance management programs in the MDCO</li> </ul>
VI-22.2.2.3b.	Unplanned TRIPER Change Out	<ul style="list-style-type: none"> <li>• Assign the job to an FMA</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-23.3.1	Submarine Noise Reduction	<ul style="list-style-type: none"> <li>• Assign a Staff Noise Reduction Officer</li> <li>• Oversee and supervise Noise Reduction Program within Squadron</li> <li>• Submit requests for Beartrap Acoustic Radiated Trials</li> <li>• Schedule acoustic surveys during operating cycles of submarines</li> <li>• Recommend and/or authorize corrective actions</li> <li>• Review records, results, procedures and equipment during material readiness inspections</li> <li>• Schedule divers for underwater hull and propeller surveys</li> <li>• Report propeller replacements</li> <li>• Ensure support personnel trained in noise reduction</li> </ul>
VI-24.7.3	Periodic Maintenance Requirement Program	<ul style="list-style-type: none"> <li>• Schedule and ensure completion of PMR work within planned periodicity in the CMP</li> <li>• Calldown all PMRs planned for accomplishment into the CSMP by availability dates</li> <li>• Conduct periodic audits of assigned FMAs</li> <li>• Maintain auditable records of PMR accomplishment for each submarine</li> <li>• Maintain automated database of Logistic Data System, Planned/Refit Maintenance Management System</li> <li>• Notify SUBMEPP representative at TYCOM of non-receipt of quarterly PMR Inventories and schedules</li> <li>• Contact SUBMEPP if a PMR has been completed prior to receipt of inventories and schedules</li> <li>• Keep local scheduling system correct and accurate</li> <li>• Ensure PMRs not completed by SUBMEPP due date are replanned</li> <li>• Ensure all "I"-level PMRs are scheduled for accomplishment by FMA prior to end of availability</li> <li>• Review completed AWRs prior to closeout</li> <li>• Transfer PMRs to other FMAs as necessary</li> <li>• Non-scheduled repairs of PMR components</li> <li>• Provide assigned ship's training in TYCOM PMR scheduling system</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-41.3.4.1	(SUBS) Availability Coordination	<ul style="list-style-type: none"> <li>• Assigns scheduled and year long CM and Emergent Maintenance Availabilities</li> <li>• Provides oversight on Ashore Ship Maintenance Manager recommended brokering of work</li> <li>• Funds CNO and CM Depot Availability contracts</li> <li>• Authorizes growth and new work</li> <li>• Acts on contract cost performance concerns</li> <li>• Resolves CNO availability scheduling issues</li> <li>• Approves other contracting vehicles, as applicable</li> <li>• Authorizes maintenance below MFOM threshold as funding permits</li> <li>• Chairs post availability "Hot Wash" meetings</li> <li>• Makes determination of urgent and compelling circumstances when necessary</li> </ul>
VI-42.6.2	Material Assessment	<ul style="list-style-type: none"> <li>• Schedule and authorize material assessments</li> <li>• Define the scope of material assessment</li> <li>• Provide funding for execution and support</li> <li>• Conduct periodic reviews of the material assessment process</li> <li>• Establish standards of effectiveness to ensure program improvement</li> <li>• Evaluate unit's ability to self assess and report training deficiencies</li> </ul>

**Regional Maintenance Center Commander**

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
II-II-1.2.1	Surface Ship Maintenance	<ul style="list-style-type: none"> <li>Overall responsibility for efficient planning, brokering and execution of all ship maintenance and modernization for assigned ships</li> </ul>
IV-3.3.5	Boiler Inspections	<ul style="list-style-type: none"> <li>Coordinate inspections in cognizant maintenance areas</li> <li>Maintain an up-to-date status of required steam generating plant inspections</li> </ul>
IV-17.3.4	Steam Catapult Inspection	<ul style="list-style-type: none"> <li>Provide a certified SGPI when requested by the ship, ISIC or TYCOM to conduct accumulator inspections</li> </ul>
IV-23.2.2.5	Gas Turbine Engine Inspection	<ul style="list-style-type: none"> <li>Coordinate inspections in cognizant maintenance areas</li> <li>Maintain an up-to-date status of required marine gas turbine system inspections</li> </ul>
<b>IV-27.3.4</b>	<b>Steam Boiler Inspection</b>	<ul style="list-style-type: none"> <li><b>Provide certified SGPIs to perform inspections</b></li> </ul>
V-I-1.6.1	Quality Assurance for Maintenance, Repair and Alteration	<ul style="list-style-type: none"> <li>Designate the RMC/FMA QAO</li> <li>(Submarines only) Provide a written report of certification</li> <li>Certify the qualifications of QA personnel</li> <li>Ensure the RMC/FMA has an effective audit and surveillance program</li> <li>Initiate a semi-annual evaluation of the RMC/FMA QA Program</li> </ul>
V-I-1.6.3m	RMC/FMA Responsibilities	<ul style="list-style-type: none"> <li>Ensure fact-finding critiques are held</li> <li>Contact the ISIC for issues that will result in a SUBSAFE critique</li> </ul>
VI-2.5.2	Technical Assistance	<ul style="list-style-type: none"> <li>Ensure sufficient capability exists to provide timely response to all requests for technical assistance</li> <li>Ensure RMC mission funds are used to fund all FTA efforts</li> <li>Ensure technical support is provided to Fleet units.</li> <li>Ensure the initial response to every FTA request is via Distance Support</li> <li>Ensure personnel responding to a request for technical assistance are thorough in their review of the specific technical problem</li> <li>Ensure acknowledgment and response to all FTA requests</li> <li>Ensure personnel providing on-site technical assistance keep the cognizant ship's department head or designated representative informed</li> <li>Ensure a TAVR is submitted at the completion of an on-site FTA</li> <li>Ensure submission of a message report if an on-site assist visit is terminated</li> </ul>

Section	Area of Responsibility	Responsibility
VI-8.2.5	2M/MTR Fleet Coordinators	<ul style="list-style-type: none"> <li>• Maintain qualified 2M/MTR Fleet Coordinators</li> </ul>
VI-31.3.3	Business Responsibilities	<ul style="list-style-type: none"> <li>• Execute surface ship maintenance</li> <li>• Develop a consolidated spending plan for the execution year</li> <li>• Issue quarterly spending controls to all of the Maintenance Teams</li> <li>• Evaluate Maintenance and Modernization Business Plan adjustment requests</li> <li>• Redistribute controls across the surface ship Maintenance Teams</li> <li>• Provide an impact statement to the TYCOM regarding the effect on the execution of maintenance</li> <li>• Provide a recommendation to minimize the impact on Force readiness</li> <li>• Evaluate the financial status of each of the Maintenance Teams on a monthly basis</li> <li>• Submit end of quarter financial summary reports to the respective surface TYCOM</li> <li>• Use Emergency Maintenance funds to execute CNO availability or CM maintenance</li> <li>• Determine when Emergency Maintenance funds should be used for the correction of C2 CASREPs or other non-CASREP related, but nonetheless urgent maintenance</li> <li>• Approve any planned delay of action on a CASREP</li> <li>• Generate monthly reports for all assigned ships planning, in or having completed Hot Wash following completion of a CNO availability</li> </ul>
VI-33.3.2	Ship Maintenance	<ul style="list-style-type: none"> <li>• Execute ship maintenance in accordance with Fleet and TYCOM policies and directives</li> <li>• Develop a BAF percentage for CNO availabilities to account for local business conditions</li> <li>• Make any additional adjustments to controls based on MFOM prioritization of the work package, risk analysis and BCA</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-35.5.2	Operational Responsibilities	<ul style="list-style-type: none"> <li>• Adhere to established policy, guidance and regulations regarding expenditure of government funds</li> <li>• Comply with all applicable environmental, safety and health requirements</li> <li>• Ensure appropriately trained personnel are available to meet mission requirements</li> <li>• Submit budget and ensure fiscal execution information is provided as directed by higher authority</li> <li>• Focus command on improving operations to achieve efficiencies</li> <li>• Comply with all NAVSEA Technical Warrant requirements</li> <li>• Comply with Federal Acquisition Regulations and NAVSEA Contracting Warrant guidance</li> <li>• Accomplish Navy Supervising Activity responsibilities for RMC administered work</li> <li>• Maintain quality surveillance system</li> <li>• Accomplish maintenance, repair and modernization of ships</li> </ul>
VI-37.5d.	Countermeasure System Support Requirements	<ul style="list-style-type: none"> <li>• Schedule PCMS core activities prior to deployment for each unit</li> <li>• Review and take the appropriate action to correct PCMS discrepancies for subordinate units</li> <li>• Request NAVSEA engineering assistance when determined necessary</li> </ul>
VI-39.7.2	Action Item Reports	<ul style="list-style-type: none"> <li>• Periodically report status of Hot Wash action items.</li> </ul>
VI-41.3.4.1	Availability Coordination (Surface Ships)	<ul style="list-style-type: none"> <li>• Assigns scheduled and year long CM and Emergent Maintenance Availabilities</li> <li>• Provides oversight on Ashore Ship Maintenance Manager recommended brokering of work</li> <li>• Funds CNO and CM Depot Availability contracts</li> <li>• Authorizes growth and new work</li> <li>• Acts on contract cost performance concerns</li> <li>• Resolves CNO availability scheduling issues</li> <li>• Approves other contracting vehicles, as applicable</li> <li>• Authorizes maintenance below MFOM threshold as funding permits</li> <li>• Chairs post availability "Hot Wash" meetings</li> <li>• Makes determination of urgent and compelling circumstances when necessary</li> </ul>
VII-6.6.2	Maintenance Center Funding	<ul style="list-style-type: none"> <li>• Develop a consolidated spending plan for the execution year</li> <li>• Determine when Emergency Maintenance funds should be used for the correction of C2 CASREPs or other non-CASREP related, but nonetheless urgent maintenance</li> </ul>

**Ship's Commanding Officer**

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
II-I-3.3.6.5	Maintenance Policies and Procedures	<ul style="list-style-type: none"> <li>• Review AWP's and provide comments to TYCOM, ISIC and SUBMEPP</li> <li>• Assign a Ship's Selected Records Coordinator</li> <li>• Publish policies concerning the ship status and crew before availability starts</li> </ul> <p>(Submarines Only)</p> <ul style="list-style-type: none"> <li>• Review status of PMR maintenance schedules and CSMP reports with ISIC prior to CNO availability</li> <li>• Maintain a current SUBMEPP PMR inventory</li> </ul>
II-I-3.6.8.3.11b	Availability Completion Prerequisites	<ul style="list-style-type: none"> <li>• Verify satisfactory completion of all Sea Trial evolutions</li> </ul>
II-I-3.6.8.4.1e	Responsibilities for trials and inspections	<ul style="list-style-type: none"> <li>• Carry out responsibilities per reference (e)</li> <li>• Develop and execute training plans and documents</li> <li>• Supervise operation of nuclear propulsion plant</li> <li>• Prepare ship's engineering personnel; and propulsion plant spaces for inspection</li> <li>• Maintain PMS, SUBSAFE re-entry control, RPPMS, in accordance with applicable references</li> <li>• Participate in at-sea periods prior to the first Sea Trials</li> <li>• Review Sea Trial agenda and concur</li> <li>• Undergo salvage inspection</li> <li>• Conduct one day Ship's Force dock trials</li> <li>• Demonstrate state of training of the crew</li> <li>• Ensure all alongside tests, inspections, and trials are conducted</li> <li>• Certify to designated ISIC/TYCOM representative that all salvage inspections discrepancies have been corrected</li> <li>• Concur with Supervising Authority message</li> <li>• Report by message to TYCOM that ship and crew are ready for Sea Trials</li> <li>• When authorized conduct a Fast Cruise</li> <li>• Concur with Supervising Authority message</li> <li>• Report completion of Fast Cruise to TYCOM</li> <li>• When requirements of this instruction are complete and permission is received proceed to sea</li> </ul>

Section	Area of Responsibility	Responsibility
IV-3.3.7	Boiler Inspections	<ul style="list-style-type: none"> <li>• Request inspections and recommend desired dates to ISIC</li> <li>• Prepare for scheduled inspections</li> <li>• Review inspection results and initiate corrective actions</li> <li>• Assess impact of corrective actions on operating schedules</li> <li>• Submit reports per paragraph 3.7.2</li> <li>• Conduct boiler inspections by appropriate PMS item</li> </ul>
IV-5.3.2	Marine Sanitation Devices	<ul style="list-style-type: none"> <li>• Oversee correction of discrepancies on MSD system installations</li> <li>• Prevent food stuffs from being stored in areas below sanitation valves, flanges, or take-down joints</li> <li>• Log each unavoidable discharge of prohibited sewage in restricted waters</li> </ul>
IV-14.2.1	Magazine Sprinkler Inspection Requirements	<ul style="list-style-type: none"> <li>• Sprinkler systems tested in accordance with PMS</li> <li>• Magazine temperatures checked and recorded daily</li> <li>• Magazines are properly maintained</li> <li>• Cognizant industrial activities provide written verification that system is operational</li> <li>• System inspection requirements in accordance with reference (a) and PMS</li> <li>• System verification inspection prior to weapons on-load</li> <li>• Take action to correct discrepancies noted during inspection</li> <li>• Ensure design discrepancies reported to TYCOM and entered in CSMP</li> </ul>
IV-16.4.1.1	Aircraft Launch and Recovery Systems for Aviation Ships	<ul style="list-style-type: none"> <li>• Request CAFSU technical assistance when required</li> <li>• Provide berthing and messing for CAFSU representatives</li> <li>• Pass to TYCOM any comments concerning performance of CAFSU representatives</li> <li>• Upon completion of CAFSU ensure timely departure from ship</li> </ul>
IV-17.3.5	Steam Catapult Inspections	<ul style="list-style-type: none"> <li>• Request inspections and recommend dates for accomplishment</li> <li>• Prepare for scheduled inspections</li> <li>• Conduct Ship's Force responsible inspections</li> <li>• Review inspection results and initiate corrective actions</li> <li>• Assess impact of corrective action on ship's operating schedule</li> <li>• <b>Submit reports</b></li> <li>• <b>Schedule inspections as required by appropriate PMS/Class Maintenance Plan items</b></li> </ul>

Section	Area of Responsibility	Responsibility
IV-18.3.2	Submarine Salvage Inspection	<ul style="list-style-type: none"> <li>• Request ISIC to conduct salvage inspection</li> <li>• Coordinate support requirements as needed by inspection team</li> <li>• Complete and forward a pre-inspection information letter</li> <li>• Assemble all ship's data indicated in applicable appendix</li> <li>• Take action to correct discrepancies found and report corrections to ISIC</li> <li>• Submit CASREP if applicable</li> </ul>
IV-20.2.9	Diver Life Support Systems, Submarine Rescue Chamber and Dry Deck Shelter Maintenance and Certification	<ul style="list-style-type: none"> <li>• Maintain certification of DLSS</li> <li>• Ensure deficiencies identified during recertification inspection are corrected in an expeditious manner</li> <li>• Readiness of DLSS to meet operational requirements</li> <li>• Maintain QA program and re-entry procedures</li> </ul>
IV-21.2.3	Submarine Oxygen Generating Plants	<ul style="list-style-type: none"> <li>• Report reduced status in accordance with established procedures</li> <li>• Maintain EOG personnel qualifications</li> <li>• Prohibit operation of EOGs if necessary</li> <li>• Maintain EOG material maintenance log</li> <li>• Ensure EOG material maintenance log is periodically reviewed</li> <li>• Safety related deficiencies promptly entered into ESL</li> <li>• Prior to availability, ensure PMT conducts material inspection of EOGs</li> <li>• Ensure PMT conducts post-availability material inspection</li> <li>• Ensure PMT conducts operational inspection</li> <li>• Ensure electrolysis is secured and EOG is in safe condition prior to drills involving loss of power</li> </ul>
IV-23.2.2.7	Gas Turbine Engine Inspection	<ul style="list-style-type: none"> <li>• Request gas turbine inspections</li> <li>• Prepare for scheduled inspections</li> <li>• Review inspection results and initiate corrective action for those items within Ship's Force capability</li> <li>• Assess the impact of corrective action on operating schedules. Decide the optimum timing of repair actions</li> <li>• Submit reports</li> <li>• Schedule gas turbine inspections as required by PMS/Class Maintenance Plan item</li> </ul>
IV-26.2.3	Board of Inspection and Survey Material Inspections Policy	<ul style="list-style-type: none"> <li>• Ensure ship is prepared for MI</li> <li>• Be prepared to discuss items from previous INSURV which is still on CSMP</li> <li>• Designate INSURV coordinator</li> <li>• Assign senior coordinator for each INSURV departmental category</li> </ul>

Section	Area of Responsibility	Responsibility
IV-27.3.5	Steam Reboiler Inspection	<ul style="list-style-type: none"> <li>• Request inspections via Naval message to the TYCOM</li> <li>• Prepare for the scheduled inspections</li> <li>• Conduct Ship's Force responsible (Annual) inspections</li> <li>• Review inspection results and initiate corrective action for deficiencies within Ship's Force capability. Initiate requests for actions beyond Ship's Force capability and for deferred items. Submit a CASREP for discrepancies that will impact operational schedule.</li> <li>• Assess the impact of corrective action on the ship's operating schedules. Advise the TYCOM and operational commanders of adverse effects.</li> <li>• Submit reports</li> </ul>
V-I-1.5.1	Organizational Responsibilities	<ul style="list-style-type: none"> <li>• Designate QAO in writing</li> <li>• Approve TWD as required</li> <li>• (Submarines) provide ISIC written report of ship's certification continuity prior to underway</li> <li>• (Submarines) maintain material condition necessary to support URO to authorized operating depth</li> <li>• (Submarines) approve and sign recertification RPWAR</li> <li>• Certify QA personnel qualifications</li> <li>• Review and sign MOA prior to start of SUBSAFE, nuclear, FBW SCS, Level I work</li> <li>• Approve DFSs</li> </ul>
VI-2.5.1	Fleet Technical Assistance	<ul style="list-style-type: none"> <li>• Ensure FTA requests are accurate, complete and timely</li> <li>• Ensure TYCOM/ISIC are informed of technical issues</li> <li>• Ensure distance support alternatives are exhausted before requesting on-site technical assistance</li> <li>• Ensure qualified Ship's Force technicians are available for support</li> <li>• Upon completion of technical assistance visit, release FTA personnel</li> <li>• Establish secure, central e-mail account to all RMC techs who visit ship</li> </ul>
VI-4.8.d	Shipboard Electromagnetic Compatibility	<ul style="list-style-type: none"> <li>• Ensure EMS PMS is conducted</li> <li>• Request EMI survey within six months of deployment or when any new indications of EMI occur</li> <li>• Transmit EMC departure message to cognizant activities</li> <li>• Maintain up-to-date file of EMI/EMC information</li> </ul>

Section	Area of Responsibility	Responsibility
VI-8.2.3	Miniature/Micro-miniature Electronic Repair Program	<ul style="list-style-type: none"> <li>• Establish 2M program under cognizance of Electronics Material Officer and Combat Systems Officer</li> <li>• Maintain certified 2M stations and technicians</li> <li>• Screen and repair all CCAs/Ems</li> <li>• (Aircraft Carriers) establish MTRF with an overall coordinator</li> <li>• (Aircraft Carriers) maintain an active MTRF</li> </ul>
VI-9.2.5	Metrology and Calibration Program	<ul style="list-style-type: none"> <li>• Maintain high degree of TAMS calibration readiness</li> <li>• Appoint a calibration coordinator</li> <li>• Ensure only operational TAMS are submitted for calibration</li> <li>• Perform repair of TAMS within capability of Ship's Force</li> <li>• Maintain calibration readiness goal</li> </ul>
VI-11.5.3	Maintenance, Repair and Overhaul of Service Craft, Landing Craft and Small Boats	<ul style="list-style-type: none"> <li>• Coordinate planning aspects of craft and/or boat overhauls with TYCOM/ISIC</li> <li>• Prepare and submit overhaul progress reports</li> <li>• Ensure enough trained personnel are assigned to on-site monitoring of crafts and boats</li> <li>• Fulfill responsibilities for safety of craft and personnel</li> </ul>
VI-12.3.2.2	Degaussing	<ul style="list-style-type: none"> <li>• Maintain ship's installed degaussing system</li> <li>• Maintain ship's degaussing folder</li> </ul>
VI-12.4.1.2	Degaussing (Submarines without degaussing systems)	<ul style="list-style-type: none"> <li>• Ensure magnetic signature minimized by periodic check ranging</li> <li>• Inform ISIC of unsat ranging</li> <li>• Maintain ship's degaussing folder</li> <li>• Undergo flash deperming as directed</li> <li>• Before flash deperming prepare ship's equipment and off-load sensitive material</li> </ul>
VI-16.2.2.1.6	Habitability Improvement	<ul style="list-style-type: none"> <li>• Report deficiencies to TYCOM</li> <li>• Assign project manager and petty officer supervision</li> <li>• Assign labor force for removal, space preparation and installation</li> <li>• Conduct training programs</li> <li>• Accept delivery, store and account for materials</li> <li>• Maintain custody of tools for removal and installation</li> <li>• Report changes to Naval Inventory Control Point</li> <li>• Report completion to TYCOM</li> <li>• Ensure ship's selected records are updated</li> </ul>

Section	Area of Responsibility	Responsibility
VI-18.6.1	Inflatable Life Rafts	<ul style="list-style-type: none"> <li>• Submit OPNAV 4790/2K for any life raft requiring replacement or recertification</li> <li>• Maintain log or database of all life rafts onboard</li> <li>• Send report to NSWCCD/TYCOM if life raft is lost or transferred to another ship</li> <li>• Ensure life raft fiberglass containers are handled with care</li> <li>• Upon decommissioning contact designated Life Raft Regional Maintenance Activity</li> <li>• Requisition replacement life rafts when necessary</li> </ul>
VI-23.3.3	Submarine Noise Reduction	<ul style="list-style-type: none"> <li>• Establish and maintain Ship's Noise Reduction program</li> <li>• Appoint Senior Department Head as Noise Reduction Officer</li> </ul>
VI-24.7.5	Periodic Maintenance Requirement Program	<ul style="list-style-type: none"> <li>• Responsible for execution of PMR work on ship</li> <li>• Document discovered maintenance deficiencies</li> <li>• Maintenance deficiencies will reflect block 46 of OPNAV 4790/2K</li> <li>• Review Depot Availability Work Packages</li> <li>• Review status of PMR maintenance in SUBMEPP quarterly PMR schedules</li> <li>• Deficiencies in equipment covered by PMR should be documented</li> <li>• Ensure quarterly PMR schedules and inventories are carried onboard</li> <li>• Ensure IMMP MRCs, MSs and TRSs are referenced and used during equipment maintenance</li> <li>• Report repairs to PMR covered components to ISIC</li> <li>• Ensure completed AWRs and PMRs are signed as completed by Ship's Force</li> </ul>
VI-25.3.4	Unrestricted Operations	<ul style="list-style-type: none"> <li>• Ensure URO MRCs are accomplished within required periodicity</li> <li>• For visual inspections between URO MRC 003 inspections use Volume V, Part I, paragraph 5.8.3.d</li> <li>• Maintain auditable records of accomplishment of URO MRCs</li> </ul>
VI-27.3.4	Scheduled Preservation Upkeep Coordinated Effort	<ul style="list-style-type: none"> <li>• Ensure preservation is performed using procedures in references (c) and (e)</li> <li>• Ensure Ship's Force are relieved of all requirements except those necessary to maintain safety and security of ship</li> <li>• Designate SPRUCE manager</li> <li>• Ensure ship is divided into preservation zones</li> <li>• Submit completion letter to TYCOM</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-28.6.5	Cableway Assessment	<ul style="list-style-type: none"> <li>• Assign Ship's Force personnel for FMA cableway assessment repair training</li> <li>• Correct outstanding discrepancies</li> <li>• Within 30 days of completion enter all unrepaired category I discrepancies in CSMP</li> </ul>
VI-37.5f	Regional Maintenance Center Passive Countermeasure System Support Requirements	<ul style="list-style-type: none"> <li>• (Surface) Maintain shipboard organization per Volume VI, paragraph 37.5f</li> </ul>
VI-38.3.4	DSS Hull Integrity Procedures	<ul style="list-style-type: none"> <li>• Ensure DSS HIPs are accomplished within required periodicity</li> <li>• Maintain auditable records of accomplishment of DSS HIPs</li> </ul>
VI-40.5.3	(SUBS) Messages	<ul style="list-style-type: none"> <li>• Track (SUBS) messages initiated by the ship</li> <li>• Respond to technical assistance (SUBS) messages</li> <li>• Use guidance of Chapter VI-2 to request technical assistance</li> <li>• Issue TEMPALT and SHIPALT (SUBS) messages</li> </ul>
VI-41.3.1a	Management of Ship Maintenance	<ul style="list-style-type: none"> <li>• Directs efforts to identify all shipboard maintenance requirements</li> <li>• Directs the Maintenance Team</li> <li>• Assigns priorities to work candidates</li> <li>• Reviews, plans and monitors accomplishment of organizational level work</li> <li>• Determines affect of material deficiencies, releases Casualty Reports</li> <li>• Integrates maintenance planning in the Ship's Operational Schedule</li> <li>• Directs development and prioritization of the Ship's Maintenance and Modernization Business Plan</li> <li>• Recommends urgent and compelling decisions to the TYCOM</li> </ul>
VI-41.3.3.1	Logistics and Technical Expertise	<ul style="list-style-type: none"> <li>• Initiates requests for technical assistance</li> <li>• Ensures technical assistance satisfies ship's maintenance issue</li> </ul>
VI-41.3.4.2	Availability Coordination	<ul style="list-style-type: none"> <li>• Approves final work package submission for the ship</li> <li>• Oversees work execution by maintenance activities</li> <li>• Reports progress weekly to the TYCOM</li> </ul>

<b>Section</b>	<b>Area of Responsibility</b>	<b>Responsibility</b>
VI-42.6.4	Material Assessment	<ul style="list-style-type: none"> <li>• Prepare for assessments events</li> <li>• Designate the unit's assessment event coordinator</li> <li>• Send a readiness to commence assessment message</li> <li>• Provide support for assessment team</li> <li>• Prepare systems/equipment, tag outs, Work Authorization Form, request support services, generate Quality Assurance packages</li> <li>• Ensure there are no conflicting evolutions, training, drills, etc.</li> <li>• Defer scheduling of preventive maintenance requirements</li> <li>• Host assessment event briefings</li> <li>• Ensure the 3-M Coordinator, Functional Area Supervisors, and the Supply Officer are available as needed</li> <li>• Ensure divisional personnel are assigned to work closely with the Assessment Team Subject Matter Experts</li> <li>• Remove key maintenance personnel from the watch bill</li> <li>• Correct material discrepancies as time permits</li> <li>• Send a Quicklook completion message</li> </ul>