

SHIPS DESIGN AND MATERIAL 9000 - 9999

9000-9099 GUIDANCE AND ADMINISTRATION (SHIP REQUIREMENTS)

- 9000 General
- 9010 Combat Capabilities
- 9020 Strategies and Special
- 9030 Tactical Strategic Operation Support Capabilities
- 9040 Ship System Management
- 9050 Ship System Performance
- 9060 Subsystem Characteristics
- 9070 General Requirements for Design and Construction
- 9071 Access
- 9072 Shock
- 9073 Noise and Vibration
- 9074 Casting, Welding, Riveting, and Allied Processes
- 9075 Threaded Fasteners Maintenance
- 9076 Reliability and Maintenance
- 9077 Safety
- 9078 Material
- 9079 Seaworthiness
- 9080 Integrated Logistic Support Requirements
- 9081 Maintenance
- 9082 Support and Test Equipment
- 9083 Supply Support
- 9084 Transportation and Handling
- 9085 Engineering Drawings
- 9086 Technical Manuals and Other Data
- 9087 Facilities
- 9088 Personnel and Training
- 9089 Training Equipment
- 9090 Quality Assurance Requirements
- 9091 Ship Inspections
- 9092 Ship Tests
- 9093 Combat Systems Checkout
- 9094 Ship Trials
- 9096 Weight Control
- 9097 Inclining Experiment and Trim Drive
- 9098 Models and Mockups
- 9099 Photographs

9199-9199 HULL STRUCTURE

- 9100 General
- 9110 Shell and Supporting Structure
- 9120 Hull Structural Bulkheads
- 9130 Hull Decks
- 9140 Hull Platforms and Flats
- 9150 Deck House Structure
- 9160 Special Structures
- 9162 Stacks and Macks
- 9164 Ballistic Plating
- 9165 Sonar Domes
- 9167 Hull Structural Closures
- 9170 Masts, Kingposts, and Service Platforms
- 9180 Foundations
- 9190 Special Purpose Systems (Hull)
- 9191 Ballast and Buoyancy Units
- 9192 Compartment Testing

9200-9299 PROPULSION PLANT

- 9200 General
- 9202 Automated Ship Control Systems
- 9210 Energy Generating System (Nuclear)
- 9212 Nuclear Steam Generator
- 9213 Reactors
- 9214 Reactor Coolant System
- 9215 Reactor Coolant Service System
- 9216 Reactor Plant Auxiliary Systems
- 9217 Nuclear Power Control and Instrumentation
- 9218 Radiation Shielding (Primary)
- 9219 Radiation Shielding (Secondary)
- 9220 Energy Generating System (Non-Nuclear)
- 9221 Propulsion Boilers
- 9222 Gas Generators
- 9223 Main Propulsion Batteries
- 9224 Main Propulsion Fuel Cells
- 9230 Propulsion Units
- 9231 Propulsion Steam Turbines
- 9232 Propulsion Steam Engines
- 9233 Propulsion Internal Combustion Engines
- 9234 Propulsion Gas Turbines
- 9235 Propulsion, Electric
- 9236 Self-Contained Propulsion Systems
- 9237 Auxiliary Propulsion Devices
- 9238 Secondary Propulsion (Submarines)

9239 Emergency propulsion (Submarines)
9240 Transmission and Propulsion Systems
9241 Propulsion Reduction Gears
9242 Propulsion Clutches and Couplings
9243 Propulsion Shafting
9244 Propulsion Shaft Bearings
9245 Propulsors
9246 Propulsors, Shrouds, and Ducts
9247 Water Jet Propulsors
9250 Propulsion Support Systems
9251 Combustion Air System
9252 Propulsion Control System
9253 Main Steam Piping System
9254 Condensers and Air Ejectors
9255 Feed and Condensate Systems
9256 Circulating and Cooling Water Systems
9258 High Pressure Steam Drain Systems
9259 Uptakes (Inner Casing)
9260 Propulsion Support Systems (Fuel and Lube Oil)
9261 Fuel Service Systems
9262 Main Propulsion Lube Oil System
9263 Shaft Lube Oil System (Submarines)
9264 Lube Oil, Transfer, and Purification
9290 Special Purpose Systems (Propulsion Plant)
9291 Engineering Operational Sequencing System

9300-9399 ELECTRIC PLANT

9300 General
9302 Motors and Associated Equipment
9303 Protective Devices
9304 Electric Cables
9305 Electrical Designation and Marking
9310 Electric Power Generation
9320 Power Distribution Systems
9330 Lighting System
9340 Power Generation Support Systems (Lube Oil and Diesel Support)
9360 Gas Turbines
9370 Superconducting Systems
9371 Superconducting Propulsion
9390 Special Purpose Systems (Electric Plant)

9400-9499 COMMAND AND SURVEILLANCE (SHIPBOARD INSTALLATIONS)

- 9400 General
- 9402 Security Requirements
- 9403 Personnel Safety
- 9404 Radio Frequency Transmission Lines
- 9405 Antenna Requirements
- 9406 Grounding and Bonding
- 9407 Electromagnetic Interference Reduction
- 9408 System Test Requirements
- 9410 Command and Control Systems
- 9420 Navigation Systems
- 9421 Non-Electrical and Non-Electronic Navigation Aids
- 9422 Electrical Navigation Aids (Lights)
- 9423 Electronic Navigation Systems, Radio
- 9424 Electronic Navigation Systems, Acoustical
- 9425 Periscopes
- 9426 Electrical Navigation Systems
- 9427 Inertial Navigation Systems
- 9428 Navigation Control Monitoring Markings
- 9430 Interior Communications
- 9435 Voice Tubes and Message Passing Scuttles
- 9440 Exterior Communications
- 9441 Radio Systems
- 9442 Underwater Systems
- 9443 Visual and Audible Systems
- 9444 Telemetry Systems
- 9445 Teletype and Facsimile Systems

9450-9459 SURVEILLANCE SYSTEMS, SURFACE

- 9450 Surveillance Systems (Surface)
- 9451 Surface Search Radar

9460-9469 SURVEILLANCE SYSTEMS, UNDERWATER

- 9460 Surveillance Systems (Underwater)
- 9461 Fixed Surveillance Systems (Includes active Sonar)
- 9462 Mobile Surveillance Systems (include passive Sonar)
- 9463 Deployable Surveillance Systems (multiple Mode Sonar)
- 9464 Classification Sonar

9470-9499 COUNTERMEASURES

- 9470 Countermeasures
- 9471 Active Electronic Countermeasures (ECM) (Including combination active and passive)
- 9472 Passive Electronic Countermeasures (ECM)

9473 Torpedo Countermeasures
9474 Other Decoys
9475 Degaussing
9476 Mine Countermeasures (Minesweeping)
9480 Fire Control Systems (See also 8200)
9490 Special Purpose Systems (Command and Surveillance)
9491 Electronic Test, Checkout, and Monitoring Equipment
9492 Electronic Equipment for Radiation, Detection, Indication and Computation (RADIAC)
9494 Meteorological Systems

9500-9599 AUXILIARY SYSTEMS

9500 General
9502 Auxiliary Machinery
9503 Pumps
9504 Instruments and Instrument Boards
9505 General Piping Requirements
9506 Overflows, Air Escapes, and Sounding Tubes
9507 Machinery and Piping Designating
9508 Thermal Insulation for Piping and Machinery
9509 Thermal Insulation for Ventilation and Air Conditioning Ducts
9510 Environmental Control
9511 Compartment Heating System
9512 Ventilation System
9513 Machinery Space Ventilation System
9514 Air Conditioning System
9515 Air Revitalization System (Submarines)
9516 Refrigeration System
9517 Auxiliary Boilers
9518 Waste Heat Recovery Systems
9520 Sea Water Systems
9530 Fresh Water Systems
9540 Fuels and Lubricants, Handling and Storage
9542 Aviation and General Purpose Fuels
9550 Air, Gas, and Miscellaneous Fluids Systems
9551 Compressed Air Systems
9555 Fire Extinguishing Systems
9556 Hydraulic Fluid Systems
9560 Ship Control Systems
9562 Rudders
9570 Material Handling Systems
9571 Replenishment-at-Sea
9580 Mechanical Handling Systems
9581 Anchor Handling and Stowage Systems

9582 Mooring and Towing Systems
9583 Boat Handling and Stowage Systems
9584 Mechanically Operated Door, Gate Pump, and Turntable Systems
9585 Elevating and Retracting Gear
9586 Aircraft Recovery Support Systems (See also 13810)
9587 Aircraft Launch Support Systems (See also 13820)
9588 Aircraft Handling, Servicing, and Storage (See also 13600 series)
9590 Special Purpose Systems (Auxiliary Systems)
9591 Scientific and Ocean Engineering Systems
9592 Swimmer and Diver Support and Protection Systems
9593 Environmental Pollution Control) Systems (Sewage Treatment and Disposal, Trash Disposal, and Incineration)
9594 Submarine Rescue, Salvage, and Survival Systems
9595 Towing, Launching, and Handling for Underwater Systems
9596 Handling Systems for Divers and Submersible Vehicles
9597 Salvage Support Systems

9600-9699 OUTFIT AND FURNISHINGS

9600 General
9602 Hull Designating and Marking
9603 Draft Marks
9604 Locks, keys, and Tags
9605 Rodent and Vermin Proofing
9610 Ship Fittings
9614 Rigging and Canvas
9620 Hull Compartmentation
9621 Non-Structural Bulkheads
9622 Floor Plates and Gratings
9623 Ladders
9624 Non-Structural Closures
9625 Air ports, Fixed Port Lights, and Windows
9630 Preservatives and Coverings
9631 Painting
9632 Zinc Coating
9633 Cathodic Protection
9634 Deck Covering
9635 Hull Insulation
9636 Hull Damping
9637 Sheathing
9638 Refrigeration Spaces
9639 Radiation Shielding
9640 Living Space
9644 Sanitary Spaces and Fixtures

96456 Community/Worship Spaces
9650 Service Spaces
9651 Commissary Spaces
9652 Medical Spaces
9653 Dental Spaces
9654 Utility Spaces (Barber Shop, Ship's Stores, and Brig)
9655 Laundry Spaces
9656 Trash Disposal Spaces
9660 Working Spaces
9661 Offices
9664 Damage Control Stations
9665 Workcenters, Laboratories, Test Areas and Shops (including Portable Tools and Equipment)
9670 Stowage Space
9690 Special Purpose Systems (Outfit and Furnishings)

9700-9799 ARMAMENT (SHIPBOARD INSTALLATIONS)

9700 General (See also 8000)
9710 Guns and Ammunition, Stowage and Handling (See also 8021, 8023, and 10490)
9720 Missiles and Rockets, Stowage and Handling (See also 8021, 8022, 8023, and 10490)
9730 Mines, Stowage and Handling (See also 8021, 8022, 8023, and 10490)
9740 Depth Charges, Stowage and Handling (See also 8021, 8022, 8023 and 10490)
9750 Torpedoes, Stowage and Handling (See also 8021, 8022, 8023, and 10490)
9770 Cargo Munitions Stowage and Handling (See also 8021, 8022, 8023, and 10490)
9780 Aircraft Related Weapons Stowage and Handling (See also 8600)
9790 Special Purpose Systems (Armament)
9792 Special Weapons (See also 8110)

9800-9899 INTEGRATION AND ENGINEERING (SHIPBUILDER RESPONSE)

9800 General
9810 Production Engineering
9820 Special Drawings for Nuclear Propulsion Systems
9830 Design Support
9840 Quality Assurance
9840 Integrated Logistic Support Engineering
9890 Special Purpose Items

9900-9999 SHIP ASSEMBLY AND SUPPORT SERVICES

9900 General
9980 Contractual and production Support Services
9990 Construction Support
9995 Molds and Templates
9996 Launchings

9997 Drydocking