



REGULATIONS
FOR
THE UNITED STATES
COAST GUARD



1916

WASHINGTON
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**[EXCERPT OF THE 1916 SECTION OF THE *REGULATIONS* RELATING TO
PAINTING OF CUTTERS & BOATS]:**

APPENDIX B.
CHAPTER XXXIII.

INSTRUCTIONS FOR PAINTING SHIP

4001. (1) Only such materials as are included in the formulae given in the Naval Artificer's Handbook and such others as are approved by Headquarters will be authorized

for painting ship.

(2) The following paints shall be procured on Class VIII requisitions from navy yards and naval stations by vessels which procure other ship chandlery in that manner:

Naval formula No.

a. Metallic brown 35

or--

Red lead 1

Outside black 13

Red shellac 54

White enamel 30

Spar color 7

Spar color, smokestack 9

Spar varnish 0

(3) Vessels which do not procure ship chandlery from navy yards or naval stations shall place on the Class VIII requisition the necessary ingredients for mixing the required quantities of these paints in accordance with the above formulae as specified in the "General instructions for painting and cementing vessels of the United States Navy."

4002. In preparing the hulls of steel, iron, composite, and sheathed ships for general painting above the water line, and the bulwarks inboard, all rust spots and blisters shall first be cleaned to the metal and the metal then cemented and painted. When dry, all surfaces shall be scrubbed with burlap or scrubbing brushes, using soap, fresh water, and, if necessary, fine sand to make them clean and smooth. The ironwork of wooden vessels shall be treated in the same manner. Paint shall not be applied over scale, rust, or dirt.

4003. Metal or copper on all wooden hulls, or sheathed vessels, shall be kept clean and bright above the water line.

4004. On steel or iron hulls the paint used on the bottom shall extend from 9 to 18 inches

above the load water line.

4005. Prepared smokestack paint will be authorized for use on the smokestack and in the engine department for use where exposed to extreme heat. Heat and oil proof paint will be allowed for use in the engine department on surfaces exposed to extreme heat and to the action of oil, but not for general painting. When painting in the engine department care shall be taken to see that the stems of valves, screw studs, etc., are not painted.

4006. (1) Prepared black paint will be authorized for use on the hulls of harbor cutters and launches. All prepared paints asked for on requisition shall be specified by the name of the manufacturer and by the brand.

(2) Hulls of harbor cutters and launches shall be painted black above the water line. The anchors and such portions of the chain cables as are visible shall be black, but in all other respects vessels of this class shall be painted in accordance with the regulations prescribed for larger vessels of the service.

(3) The hull of the derelict destroyer shall be painted dark green, with upper and lower sheer moldings painted yellow from stem to stern. The smokestack shall be painted yellow with a black band, one-third the diameter of the stack in width, at the top; below the black band there shall be a yellow band the same width as the black band; and below the yellow band there shall be red, white, and blue vertical stripes extending to the lower guy band.

TO BE PAINTED WHITE

4007. All hulls, except those of harbor cutters and launches and the derelict destroyer, from the painted water line or metal up, including rails, shall be painted white, as follows:

Bowsprit and its gear.

Anchors and visible parts of chains (from hawse pipes to anchors).

Boom ladders and pendants.

Bulwarks inside.

Bulwark stanchions.

Deck houses, to and including covering boards on tops of houses.

Awning ridgepoles.

Awning stanchions, below rails.

Boat davits, below rails.

Anchor davits, below rails.

All topgallant or monkey rails.

All iron handrails (handrails where paint is liable to be worn off should be canvas covered).

Flagstaffs, below rails.

House and hatch coamings.

Skylight frames and companionways, if of iron.

TO BE PAINTED REGULATION STRAW COLOR

4008. The following parts shall be painted straw color:

Awning stanchions above rails.

Boat davits, above rails.

Anchor davits, above rails.

Gallows frame, above rails.

Smokestack and umbrella, except a ring extending one-third the diameter of the pipe down from top, which shall be painted black.

Guys of every description.

Boat davit spans.

Ventilators (inside of cowls to lie painted vermilion

All masts (except those parts whereon yards are hoisted or hoops travel. which shall be kept bright and greased).

Doublings of masts and poles.

Yards.

Gaffs.

Blocks.

Flagstaffs (above rails).

Waterways.

Covering boards (inside)

Windlasses and capstans.

Iron cavils.

Bollards.

Rails and harbor cutters and launches.

All tops of deck houses and pilot houses, when canvas covered.

WOODWORK TO BE KEPT BRIGHT

4009. The following woodwork shall be kept bright:

Top gallant and quarter rails of mahogany or other hard wood.

Hurricane-deck rails, handrails. and stanchions to same.

Swinging booms.

hatch covers, movable and others.

Skylights, frames, and companion ways, if of wood.

Sashes.

Blinds.

Gratings.

Corners of deck houses, if of wood.

Berth decks.

deck ladders and steps.

Side ladders and steps.

BOATS

4010. (1) All Coast Guard boats shall be painted in accordance with the following standard scheme as nearly as their designs permit.

(2) The following surfaces shall be finished bright with approved spar varnish

a. Gunwales, guards, wood towing and quarter bitts, masts, and spars.

b. thwarts to knees. If the boat has side air cases or compartments, only that portion of thwarts between inboard sides of the air cases or compartments shall be kept bright

c. Such trimmings. gratings, portable stretchers. Moldings, handgrabs, etc., of oak, mahogany, ash or other similar hard wood as were finished bright when the boat was originally accepted.

d. Water breakers, boat hooks, and flagstaffs.

e. Oars shall be kept bright, without varnish.

(3) Surfaces to be white:

a. Outside of boat above water line (except that ship's boats shall be white below water line), including tops and outsides of end compartments and engine inclosures above the sheer line. The water line for painting shall be about 4 inches above the actual water line of boats 30 feet long and over, and about 2 inches above the actual water line of boats less than 30 feet long.

b. Inside of boat above sheer line of top of thwarts or side compartments. This includes

outsides, above the sheer line or top of thwarts, of engine compartment and compartments when such compartments project appreciably above the gunwale of the boat, and obtains the equivalent of white deckhouses above the sheer.

c. The inside of all compartments not ordinarily exposed to view, as compartments below deck of self-bailing boats, inside of compartments visible above the gunwale and inside of compartments, such as engine compartments, to improve the lighting.

(4) Surfaces to be regulation straw color:

a. All inboard surfaces exposed to weather up to the sheer line of top of thwarts or side air compartments, except parts finished bright. This includes tops of side and end compartments, unless they come above the gunwale; ends of thwarts; and the outside of engine inclosure when it is below the gunwale line or projects only slightly above it.

b. Whole interior of the engine inclosure of all classes of boats, except in motor lifeboats, where straw color shall extend up to about 3 feet above the walking flat, only.

c. All surfaces, inside and outside, of small working boats such as pulling dories, skiffs, scows. or scooters.

(5) Bottom painting:

All station boats regularly kept afloat shall be well painted on bottoms with an approved green antifouling copper paint, as follows:

a. Once each year if located on Great Lakes or on other fresh water. Ordinary green paint may be used on boats on fresh water in the discretion of the district superintendent.

b. Twice each year if located on Pacific coast or the Atlantic coast north of New York.

c. Three times each year if located south of New York on the Atlantic coast.

d. All station boats regularly kept out of water shall be painted on bottoms as often as protection of the surfaces requires it, in the judgment of the officer in charge.

e. Copper paint must in all cases be of the best quality. It shall be applied with the greatest care so that no spots are missed, in order to prevent damage by worms. Wooden freeing trunks of self-bailing boats shall be thoroughly coated on inside with the same kind of paint from deck to bottom whenever the bottom is painted.

(6) Letters on ship's boats, except gigs, shall be painted black; the letters to be 6 inches high, cut from yellow metal or lead approximately one-eighth inch thick, and securely fastened to the boat. Lettering on station boats to be black, laid out in accordance with the Standard Instructions.

STANDING RIGGING.

4011. The lanyards, service, and seizings of standing rigging I and other exposed hemp rope shall be tarred or blacked at least once every six months. The exposed parts of wire standing rigging and other wire rope (except as otherwise provided in these regulations) shall be painted lead color as often as may be necessary to prevent them becoming rusty.

4012. Wire rope actuating through blocks or over sheaves shall I be covered with a preservative of the following, or equally good, composition:

Lubricating machinery oil 1 pint.

Stockholm or American tar 1 quart.

Tallow or Albany grease 5 pounds.

Graphite 1 pound.

EXTERIOR GILT WORK.

4013. The following parts shall be kept gilded:

Eagles, when mounted on pilot houses of harbor cutters and launches.

Figureheads and scrollwork on bow and headboards.

Trucks and balls.

Name of vessel on stern.

Letters and arrows on bows of gigs.

One-quarter inch cove on gig below the bright gunwale.

GENERAL PAINTING.

4014. Decks shall never be painted, except by express authority of Headquarters. Berth decks shall be kept clean and coated with shellac, carefully and evenly applied, each coat to be hard and dry before the next is applied. They shall be touched up weekly.

4015. (1) Outside of bulls above the water line shall be painted three times each year, If necessary.

(2) Deck houses and other deck work shall be painted once each year, care being taken in all cases that all surfaces are carefully cleaned and smoothed before paint is applied.

(3) The use of putty to fill nail holes is prohibited, and beeswax shall be used for that purpose. To prevent beeswax melting when thus used in hot climates or hot weather, a little resin should be mixed or rolled into it.

4016. The holds, bunkers, and bilges of steel and iron vessels shall be painted with red lead.

4017. All finished brass handrails and other brass work except skylight rods shall be kept bright and polished. Skylight rods fitted in wooden frames shall be painted vermilion. Skylight rods fitted in metal frames shall be kept bright and polished.

4018. All paint work shall be touched up as frequently as may be necessary to keep it in proper condition.

4019. The general instructions as to painting and the formulae given in the Naval Artificer's Handbook shall be followed wherever the same do not conflict with the regulations of the service and the instructions in this chapter.

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