

MIL-C-18263F(AS)

29 June 1971
SUPERSEDING
MIL-C-18263E(Weps)
11 May 1965

MILITARY SPECIFICATION

COLORS, EXTERIOR, NAVAL AIRCRAFT: REQUIREMENTS FOR

This specification has been approved by the Naval Air Systems Command, Department of the Navy.

1. SCOPE

1.1 Scope - This specification establishes the color requirements for the exterior surfaces of heavier-than-air and lighter-than-air Naval and Marine Corps aircraft, with the following exceptions:

(a) The provisions of this specification are not applicable to the color requirements for insignia and markings. The color requirements for these items are contained in Specifications MIL-I-18464 and MIL-M-25047.

(b) The provisions of this specification are not applicable to guided missiles which are not launched from aircraft. The exterior color to be applied to these shall be as specified in the individual contract. (For the color of aircraft-launched guided missiles, see Table II.)

(c) The provisions of this specification are not applicable to military aircraft used for research projects. The color of such aircraft is subject to Naval Air Systems Command approval in each case.

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of the specification to the extent specified herein.

FSC 8010

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SPECIFICATIONS

Military

MIL-F-7179	Finishes and Coatings; General Specification for Protection of Aircraft and Aircraft Parts
MIL-R-7705	Radomes, General Specification for
MIL-C-18187	Coatings, Protective, Application of to Fabric Surfaces of Aircraft
MIL-F-18264	Finishes, Organic, Aircraft, Application and Control of
MIL-I-18464	Insignia and Markings for Naval Weapons Systems
MIL-M-25047	Marking and Exterior Finish Colors for Airplanes, Airplane Parts and Missiles (Ballistic Missiles Excluded)

STANDARDS

Federal

FED-STD-595	Colors
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(Copies of specifications, standards, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

3. MATERIALS

3.1 Materials - The materials used to obtain the colors detailed herein shall be those prescribed in MIL-F-18264, MIL-F-7179, and MIL-C-18187, as applicable.

4. APPLICATION

4.1 Application of finishes - Methods to be employed for the application of finishes for the protection of weapons system exteriors, for producing satisfactory finishes and their proper blending, and for applying protective coatings to fabric surfaces of aircraft shall be in accordance with MIL-F-7179, MIL-F-18264, and MIL-C-18187, respectively.

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4.2 Contractor requirements - Contractors shall apply the exterior color schemes prescribed herein in accordance with the stipulations of the applicable aircraft contract. In case of conflict between requirements of this specification and the contract, the latter shall prevail.

4.2.1 Finish smoothness - Contractors shall apply the exterior color schemes in such manner as not to affect adversely the aerodynamic characteristics of the weapons system.

4.2.2 Drawings - On all production contracts, the contractor shall submit to the Naval Plant Representative for approval a three-view drawing or drawings as well as any revisions thereof showing the color scheme to be employed, including reference to the applicable FED-STD-595. An additional copy shall be sent to the Naval Air Systems Command and also to the Weapons Engineering Standardization Office, Naval Air Engineering Center, Philadelphia, Pennsylvania 19112 for information and review.

4.3 Service requirements - Naval and Marine Corps activities shall apply the exterior color schemes prescribed herein in accordance with directives by competent authority.

4.4 Foreign government aircraft - The exterior color of aircraft procured for foreign governments under Naval contracts shall be the standard color scheme shown in the tables herein for the type of aircraft involved.

5. COLOR REQUIREMENTS FOR AIRCRAFT

5.1 General color scheme - The color schemes listed in Table I shall be applied to the indicated aircraft when they are to be assigned to the normal service usage of their type and function, unless otherwise specified in the contract.

5.1.1 Special markings - Weapons systems assigned to the following duties shall have applied the color scheme indicated in Table I for their type. Distinction for the particular duty shall be made by application of the markings outlined in MIL-I-18464.

Search and rescue
Hospital
Instrument training

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5.2 Individual color schemes -

5.2.1 Carrier aircraft - The glossy light gray FED. STD. Color 16440, and glossy insignia white, FED. STD. Color No. 17875, color scheme listed in Table II shall be applied to aircraft designed for carrier operation.

5.2.2 Patrol plane scheme - Patrol planes shall have a white FED. STD. Color No. 17875 solar reflecting fuselage roof. The remainder of the plane shall be finished in light gray, FED. STD. Color No. 16440.

5.2.3 Helicopters and drones - Helicopters shall receive the color scheme prescribed in Table I. For ASW drones the prescribed color scheme is specified in Table I and Figure 12.

5.2.4 Land camouflage scheme - The land camouflage scheme shall be used for land based Marine observation aircraft and helicopters assigned to Marine use. It may be applied locally on other aircraft and helicopters when authorized by the Commander, Air Force, Atlantic Fleet, or Commander, Air Force, Pacific Fleet (as applicable), for Naval aircraft or by the Marine Air Wing Commander in the case of aircraft assigned to the Marine Corps. This color scheme is outlined in Table III. Seasonal variations in the land camouflage scheme may be employed when authorized by the applicable command.

5.2.5 Target towing, drone control, and target aircraft - The color scheme outlined in Table I shall be applied to aircraft assigned to service as target towing or drone control aircraft. KD targets, and target drones shall be color configured in accordance with Table I.

5.2.6 High visibility color configurations - High visibility color configuration shall be employed only on aircraft in the Training Command (excluding Reserve Training) target control, SAR aircraft, (excluding helicopters in combat SAR configuration) target aircraft and drones. International orange FED. STD. Color No. 12197 is standard for high visibility applications, except for targets and drones. Requests for utilization of high visibility finish on other categories of aircraft or special mission aircraft, e.g. Arctic operations should be submitted via the Type Commander or Controlling Custodian to the Chief of Naval Operations for approval.

Aircraft in the Training Command shall be painted with the high visibility finish in accordance with Figure 4.

Helicopters such as TH's, used for training in the Training Command, shall be painted international orange and insignia white as outlined in Table I and Figure 11.

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Helicopters such as CH-19E, UH-25, and UH-2 assigned to search and rescue shall be furnished with international orange color in accordance with Figures 8, 9, and 10. Transparent areas, hinges, openings, screens, and any part of exhaust trail (UH-2, Figure 10) and anti-glare areas shall not be overcoated with the high visibility finish. Painting should be balanced so that the weight of paint forward of the helicopter is balanced by the weight of paint aft.

5.2.6.1 Application and color patterns - General principles applicable to the placement of high visibility paint are as follows:

(a) Wing tip markings on the top and bottom of the wings, extending inboard on the wings about 1/3 of the length of each wing, but extending inboard no less than four feet or more than eight feet. Unless specific dimensions are given, the strip shall terminate at a natural break in the wing contour. Horizontal control surfaces are not to be coated with high visibility paint system;

(b) The entire vertical tail section to the zone where the vertical stabilizer flares into the fuselage, excluding control surfaces. (However, vertical control surfaces on TC-45 aircraft will receive the international orange paint);

(c) For all aircraft except transports, the bottom and sides on the front portion of the fuselage starting from the radome, if any, and extending aft and terminating at a line perpendicular to the forward edge of the front canopy. For transports, the bottom and the sides on the front portion of the fuselage, starting from aft of the radome, if any, and extending aft twelve feet or aft to a line perpendicular to the most forward portion of the engines, whichever distance is less, as shown in Figure 2. The customary insignia, markings, solar reflecting finish, anti-glare, walkway materials, rain erosion resistant finish, de-icer boots, exhaust trail finish, etc., shall retain the original color and these areas shall not be overpainted.

5.2.6.1.1 The wing tip tanks on aircraft finished in high visibility color scheme shall be painted all over international orange, except for the anti-glare and polished areas. These anti-glare and polished areas shall conform to 5.3 and 5.5.14, respectively. For all aircraft avoid application of high visibility finish on areas which would produce glare in the pilot's or copilot's eyes. High visibility finish shall not be applied to any transparent or translucent plastic, or metal frames or fittings on all aircraft window areas, nor shall it be applied to painted nose sections having an area of less than two square feet.

5.2.7 Arctic color scheme - The high visibility color scheme outlined in 5.2.6 and 5.2.6.1 may be advantageous for assisting in spotting downed aircraft against a snow background; however, use is contin-

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gent on approval as specified in 5.2.6. Fuselage markings, such as branch of service, etc., shall not be overlapped by this color application. The National insignia on the fuselage and wings shall not be overlapped by this color application, but the reverse is permitted. The insignia shall not be altered in size or location. The balance of the aircraft shall retain the color prescribed for the aircraft type, except that upper surfaces of the fuselage shall be painted with engine gray, FED. STD. Color No. 16081 in place of insignia white. On helicopters the color scheme is International orange, FED. STD. Color No. 12197 applied all over except for areas requiring any extensive masking. These areas may retain the basic aircraft color scheme for ease of application. Rotor blades shall be painted as prescribed in 5.5.10.

5.2.8 Solar heat reflection - All Cargo transport and utility land planes shall be painted in the solar heat reflecting color scheme as shown in Figure 1. The upper surface of the fuselage shall be painted insignia white, FED. STD. Color No. 17875, beginning at the top forward edge of the pilot's enclosure and extending aft, to include the vertical stabilizer and rudder, the upper surface of the horizontal stabilizer and elevator (except fabric CONTROLS shall be aluminized dope all-over) and extending down on each side of the fuselage to the line of the bottom of the row of windows, as shown in Figure 1. The anti-glare areas shall conform to 5.3. Aircraft used in a "VIP" or staff capacity may employ a black stripe below the white area and a black chevron on the nacelles for decorative purposes.

5.2.9 Warning aircraft - Warning aircraft designed for carrier operation shall be painted in accordance with Table I.

5.2.10 Search and rescue scheme - Search and rescue aircraft shall be finished as shown in Figure 7, in the color scheme outlined in Table I. On each side of the forward part of the fuselage, centered between the leading edge of the wing and the bow, a rectangle, whose length shall be equal to three times its height, shall be finished in orange yellow, FED. STD. Color No. 13538. The height of the rectangle shall be 33 percent of the vertical dimension of the projection of the fuselage side at the point of application, except that the height of this rectangle shall be not greater than 36 nor less than 20 inches, excluding the border. The rectangle shall be located as near as possible to the center of the vertical projection of the fuselage at the point of application. The base of the rectangle shall be parallel to the longitudinal axis of the fuselage. SAR helicopters (except when configured for combat operations) shall be finished with the color scheme outlined in 5.2.6. SAR aircraft configured for combat operations shall be painted as directed by the Type Commander.

5.3 Anti-glare - On all pilot operated aircraft, non-specular paint shall be employed on all airframe surfaces which would produce

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glare in the pilot's or copilot's eyes, or induce eye strain due to excessive brightness. The anti-glare areas shall be painted non-specular black, FED. STD. Color No. 37038. All aircraft color scheme requirements of this specification are subject to this provision.

5.4 Special color requirements - Where the need exists in special cases for special color schemes, solar heat reflecting fuselage roof finish, etc., such schemes may be applied when specifically authorized by the Naval Air Systems Command. Determination of such local needs, and request for same remains, however, the responsibility of the local commander.

5.5 Exterior aircraft components -

5.5.1 Glass fiber reinforced plastic assemblies - The color of assemblies fabricated of glass fiber reinforced plastic, such as radomes, radio antenna housings, noses, fairings, wing tips, and intake ducts, for which rain erosion protective finishes are required, shall match the color of adjacent surfaces except for the entering or frontal areas. These frontal areas shall be in the natural color of the rain-erosion-protective finish and shall not be overcoated for color matching purposes. For the carrier scheme, white rain-erosion material shall be used. The extent and location of the frontal areas thus finished shall be as specified in MIL-R-7705. In the case of aircraft in carrier scheme color configuration, these frontal areas shall be all over white, including rain erosion resistant coating, except in anti-glare areas including top radome surfaces. The color of aft facing radomes is subject to the restrictions stated in Tables II and IV.

5.5.2 Landing gear -

5.5.2.1 Fixed landing gear - Fixed landing gear shall be colored to match the prescribed color scheme of the particular aircraft.

5.5.2.2 Retractable landing gear, inner surfaces of landing gear well covers, and hydroskis (including the strut and trunnion doors) and nose gear doors (auxiliary, including the strut door) shall be colored glossy insignia white, FED. STD. Color No. 17875. The edges of the landing gear door shall be colored insignia red, FED. STD. Color No. 11136, without smearing to the white. The outer surfaces of the well covers shall be colored to match the prescribed color scheme of the particular aircraft.

5.5.2.3 Fixed floats and float struts - Fixed floats and float struts shall be colored to match the prescribed color scheme of the particular aircraft.

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5.5.3 Propeller assemblies -

5.5.3.1 Blades - Blades shall be painted as specified by MIL-M-25047.

5.5.3.2 Spinners - Spinners, except those of aircraft colored as prescribed herein for the land camouflage scheme, shall be colored black, FED. STD. Color No. 37038 or as specified in MIL-I-18464.

5.5.3.3 Hubs and domes - Hubs and domes, except those of aircraft colored as prescribed herein for the land camouflage scheme, shall be colored black, FED. STD. Color No. 37038.

5.5.4 Speed brakes, wing flaps, etc. - Interior surfaces of speed brakes and wing flaps shall be colored insignia red, FED. STD. Color No. 11136. Exterior surfaces of speed brakes and wing flaps shall be colored to match the prescribed color scheme of the particular aircraft. Wing flap areas which are covered by the wing when they are in retracted position shall be colored insignia red, FED. STD. Color No. 11136.

5.5.5 Wing leading edge slats - The interior (lower) surface and inboard end of wing leading edge slats and the wing area covered by the slat when in a fully retracted position shall be colored insignia red, FED. STD. Color No. 11136, except as follows; the underside of the wing leading edge slats of carrier type aircraft i.e., airplanes having white undersurfaces, shall be colored insignia white, FED. STD. Color No. 17875, for thermal pulse reflection. Exterior surfaces shall be colored to match the prescribed color scheme of the particular aircraft.

5.5.6 Walkways and steps - Where anti-skid material is applied, the color of the anti-skid material shall be as follows: Walkways of landplane transports shall be dark gull gray, FED. STD. Color No. 36231, except for transport aircraft finished in 5.2.6 high visibility color schemes; in the latter case the walkways shall be non-specular black, FED. STD. Color No. 37038. The walkways on carrier aircraft shall be light gull gray, FED. STD. Color No. 36440, except that where gross contamination is prevalent, due to the aircraft configuration, dark gull gray color walkway, FED. STD. Color No. 36231, may be employed. The walkways on trainers shall be non-specular black, FED. STD. Color No. 37038. On patrol planes, Table I, the walkways shall be black, FED. STD. Color No. 37038. Walkways and steps shall be outlined in black, FED. STD. Color No. 37038 or in white, as applicable, to contrast with the background painted area as specified in MIL-M-25047, except if contrasting color walkway material is employed on these areas.

5.5.7 Auxiliary fuel tanks - Auxiliary fuel tanks shall be colored to match the color scheme of the aircraft.

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5.5.8 Engine cowling interiors - The interior of engine cowlings shall be painted glossy light gray, FED. STD. Color No. 16440.

5.5.9 Antennas - Blade type antennas and antenna masts shall be colored to match the prescribed color scheme of the particular aircraft. UHF and VHF rod type antennas shall be painted orange yellow, FED. STD. Color No. 13538.

5.5.10 Helicopter blades, hubs, transmissions and rotor mechanisms -

5.5.10.1 Rotor blades - The upper surfaces of helicopter main rotor blades shall be colored light gull gray, FED. STD. Color No. 36440, except for main rotor blades on models which are assigned in whole or in part to the Marines. The upper surface of these, including the hub, shall be olive drab, FED. STD. Color No. 34087, if blades are all-metal construction and light gull gray, FED. STD. Color No. 36440, if wooden construction. The lower surfaces of all main rotor blades shall be colored black, FED. STD. Color No. 37038. Main and tail rotor blades shall be marked as specified by MIL-M-25047.

5.5.10.2 Hubs of helicopters - Helicopter hubs shall match the color of the upper surfaces of the main rotor blades. Overpainting of installed hubs to achieve this color is permitted, subject to the provisions of MIL-F-18264 on control of adhesion and the thickness of the individual coatings.

5.5.10.3 Transmission and rotor mechanism of helicopters - Helicopter transmissions and rotor mechanisms, other than blades and hubs, shall be engine gray, FED. STD. Color No. 16081. Overpainting of these items to achieve a match to the overall color scheme in the case of the land camouflage scheme, Arctic scheme, etc., is permitted, subject to the provisions of MIL-F-18264 on control of adhesion and the thickness of the individual coatings.

5.5.11 Jet air intake ducts - The color of the adjacent aircraft exterior shall be carried around the lip of the duct and partially into the duct, except for the chevrons. The latter shall be in the color prescribed by MIL-M-25047. All remaining surfaces of the duct shall be colored glossy insignia white, FED. STD. Color No. 17875.

5.5.12 Wheel wells - The interior surfaces of wheel wells shall be colored glossy insignia white, FED. STD. Color No. 17875 (see 5.5.2.2).

5.5.13 Landing gear struts, wheel assemblies, etc. - Retractable gear struts, wheel assemblies, brake housings, etc., shall be colored insignia white, FED. STD. Color No. 17875.

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5.5.14 Polished areas - Polished, unpainted areas shall be left on the inboard side of engine nacelles and wing tip tanks, as required, to permit observation from the cockpit of the position of landing gear, bomb bay doors, etc.

6. NOTES

6.1 Material inspection - Materials used by contractors in applying the color schemes, covered by this specification, shall be subject to inspection by authorized Government representatives to determine compliance with approved material specifications. Any exterior color schemes applied before materials are approved will be at the risk of the contractor, and if materials fail to meet approved material specification requirements, all color schemes applied shall, at the discretion of the procuring activity, be required to be removed and applied again with suitable material.

6.2 Workmanship inspection - Applied color schemes shall be subject to inspection for quality of workmanship. Any color schemes which are not applied in accordance with the highest grade of workmanship shall, at the discretion of the procuring activity, be removed and re-applied by the contractor.

6.3 Precautions - The high visibility color schemes contained in 5.2.6 and 5.2.6.1 do not in themselves provide immunity from the hazard of mid-air collisions. All necessary precautions by flight personnel, use of lights, warning devices, control of the number of airborne aircraft in the vicinity at one time, etc., are still essential.

6.4 The outside margins of this specification have been marked "#" to indicate where changes (deletions, additions, etc.) from the previous issue have been made. This has been done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Builders and contractors are cautioned to evaluate the requirements of this document based on the entire content as written irrespective of the marginal notations and relationship to the last previous issue.

Preparing activity:

Navy - (AS)

8010-N041

TABLE I

TYPE OF FUNCTION	COLOR SCHEME	FEDERAL STANDARD COLOR NO.	EXTERIOR SURFACES COVERED
Attack	Light Gray (Insignia White)	16440 17875	See Table II.
Fighter	Light Gray (Insignia White)	16440 17875	See Table II.
Marine Observation (g)	Field Green	34097	See Table III and 5.2.4.
Patrol	Light Gray (Insignia White)	16440 17875	See Table IV
Transports			
Landplanes (a) (f)	Light Gray (Insignia White)	16440 17875	See 5.2.8
Trainer (Landplane) (c)	Insignia White (International Orange)	17875 12197	See 5.2.6 and Figures 2 and 4.
Trainer (Seaplane) Advanced (b-c-d) Primary	Engine Gray (International Orange)	16081 12197	See 5.2.6.
Utility Landplanes	Insignia White Light Gray	17875 16440	All surface light gray except fuselage roof, and vertical tail, which shall be solar-reflect- ing white finish.

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TABLE I (Continued)

TYPE OF FUNCTION	COLOR SCHEME	FEDERAL STANDARD COLOR NO.	EXTERIOR SURFACES COVERED
Utility Seaplanes	Insignia White (Engine Gray	17875 16081	All surface engine gray except fuselage roof, which shall be solar- reflecting white finish.
Search and Rescue Seaplanes	Insignia White Engine Gray International Orange	17875 16081 12197	See Figure 7 and 5.2.10.
Warning (landbased, with normal operating altitudes greater than 15,000 feet)	Light Gray Insignia White	16440 17875	All surfaces light gray except fuselage roof, which shall be solar- reflecting white finish.
Warning (landbased, with normal operating altitudes of 15,000 feet or less)	Engine Gray Insignia White	16081 17875	All surfaces engine gray except fuselage roof which shall be solar-reflecting finish.
Warning (carrier-based)	Light Gray Insignia White	16440 17875	See Table II.
Target Towing and Drone Control	Light Gray Insignia White International Orange	16440 17875 12197	As in Table II except that the vertical tail surface shall be painted Inter- national Orange.
KD Target	Insignia White	17875	Upper surfaces (except fuse- lage); vertical stabilizer; rudder.

TABLE I (Continued)

TYPE OF FUNCTION	COLOR SCHEME	FEDERAL STANDARD COLOR NO.	EXTERIOR SURFACES COVERED
KD Target (contd)	Fluorescent Yellow- Orange	28915	Entire fuselage.
	Insignia Red	11136	Bottom of all aerodynamic surfaces.
Target Drone	Fluorescent Yellow- Orange	28915	All surfaces are Fluores- cent Yellow-Orange.
Helicopters (Except Marine Helicopters. Latter shall be all over Field Green No. 34097. See 5.2.4.). See 5.2.6 for requirement for International Orange paint and Figures 8, 9, and 10 for configuration.			
Utility	Engine Gray	16081	All.
Cargo Unloading	Engine Gray	16081	All.
Observation	Engine Gray	16081	All.
Transport	Engine Gray	16081	All.
Submarine Search and Attack (h)	Engine Gray	16081	All.
Trainer	Insignia White International Orange	17875 12197	See Figure 11.

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TABLE I (Continued)

TYPE OF FUNCTION	COLOR SCHEME	FEDERAL STANDARD COLOR NO.	EXTERIOR SURFACES COVERED
Drone, Anti-Submarine	Engine Gray	16081	Color is Engine Gray ex-
	Fluorescent Red Orange	28913	cept for Fluorescent Red
	Fluorescent Green	28901	Orange on port side; Fluorescent Green on star- board side. See Figure 12.

- (a) MIL-F-7179C(ASG) now requires complete painting. However, on C118 and C131 aircraft utilized in a "VIP" capacity or as a staff aircraft, the area of paint coverage may be reduced. Areas of bare metal shall be brightly polished. Variations from the standard paint scheme must be specifically identified in the pre-induction Work Request.
- (b) Seaplanes include all aircraft operating wholly or in part from water, such as flying boats, air-planes with float-type lighting gear, amphibians, and convertibles.
- (c) If not employed as specified in 5.2.6, paint light gray, Color No. 16440 except that aircraft assigned to Fleet Pilot Trainer Units may be painted all-over white, Color No. 17875, when requested by Type Commander.
- (d) A white solar-reflecting finish shall be applied to the fuselage roof and partially down the sides of P-5's and other advanced seaplane models used in training.
- (f) Fabric control surfaces shall be all-over aluminized dope.
- (g) Except that OV-10 aircraft shall be painted light gray, Color No. 16440, on the bottom surfaces and white, Color No. 37875, on the top surfaces of the wings.
- (h) Except that SH-3 helicopters shall be painted glossy white on upper surfaces down to a blended line from the bottom of the lower window in the pilot's compartment to the bottom of the tail hinge, and the lower portion shall be painted light gray, Color No. 16440.

TABLE II
Carrier Scheme

SURFACE	COLOR	FEDERAL STANDARD COLOR NO.	PROCEDURE
Horizontal Airfoil Surfaces			
a. Viewed from above	Light Gray	16440	On the edges of horizontal airfoils, the light gray of the upper surface shall be blended into the insignia white undersurface color at the midsection; or alternatively, the light gray may be carried around the edge and extended back on the lower surface approximately one inch, and be blended into the insignia white.
b. Viewed from below	Insignia White	17875	
Leading Edges of Airfoils and Frontal Surfaces	Light Gray	16440	The foregoing does not apply to leading edges. (See next item below.)
Lip of Jet Air Intake Duct	Light Gray (Insignia White)	16440 17875	Approved white rain-erosion resistant finishes shall be employed for glass fiber reinforced plastic assemblies.
Horizontal Control Surfaces Flaperons	Insignia White Insignia White	17875 17875	Except area delineated in MIL-M-25047(ASG) for warning chevrons, which shall be red rain-erosion resistant material. Both sides. Both sides.

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TABLE II (Continued)

SURFACE	COLOR	FEDERAL STANDARD COLOR NO.	PROCEDURE
Vertical Control Surfaces	Insignia White	17875	Both sides.
Fuselage			
a. Viewed from above	Light Gray	16440	The light gray of the top surface shall extend down to the line of maximum width of the fuselage surface and insignia white shall be applied to the lower portion of the fuselage. In the case of substantially straight-sided aircraft, the colors shall join on the straight portion of the side approximately one inch above the juncture of the side and bottom surfaces. The blending of the two colors shall be in accordance with the requirements of paragraph 4.1.
b. Viewed from below	Insignia White	17875	
c. Vertical or side areas	Insignia White (Light Gray)	17875 16440	
Interior of Duct	Insignia White	17875	All interior duct surfaces exposed to external view.
Engine Nacelles			The engine nacelles shall be painted as indicated above for fuselage (a), (b), and (c).
Vertical Fin	Light Gray	16440	Both sides. (1).

TABLE II (Continued)

SURFACE	COLOR	FEDERAL STANDARD COLOR NO.	PROCEDURE
Aft-facing Radomes (2)	Insignia White	17875	--- All surfaces. Black or other dark colors are prohibited on aft-facing radomes on these aircraft.
Nose and Belly Radomes (2) and MAD housings	Insignia White	17875	---
Rockets, Rocket Launchers, and other Accessories, Equipment and Weapons attached to undersurfaces of the airframe	Insignia White	17875	--- All surfaces.
Walkways (3)	Light Gull Gray	36440	---

(1) Except where skin thickness is predominantly less than 0.04 inch, in which case it shall be painted insignia white.

(2) This painting requirement takes precedence over any provisions to the contrary, such as the warning note "DO NOT PAINT", which appears on many radomes.

(3) When anti-skid walkway material is not used, the light gray, Color No. 16440, shall be retained.

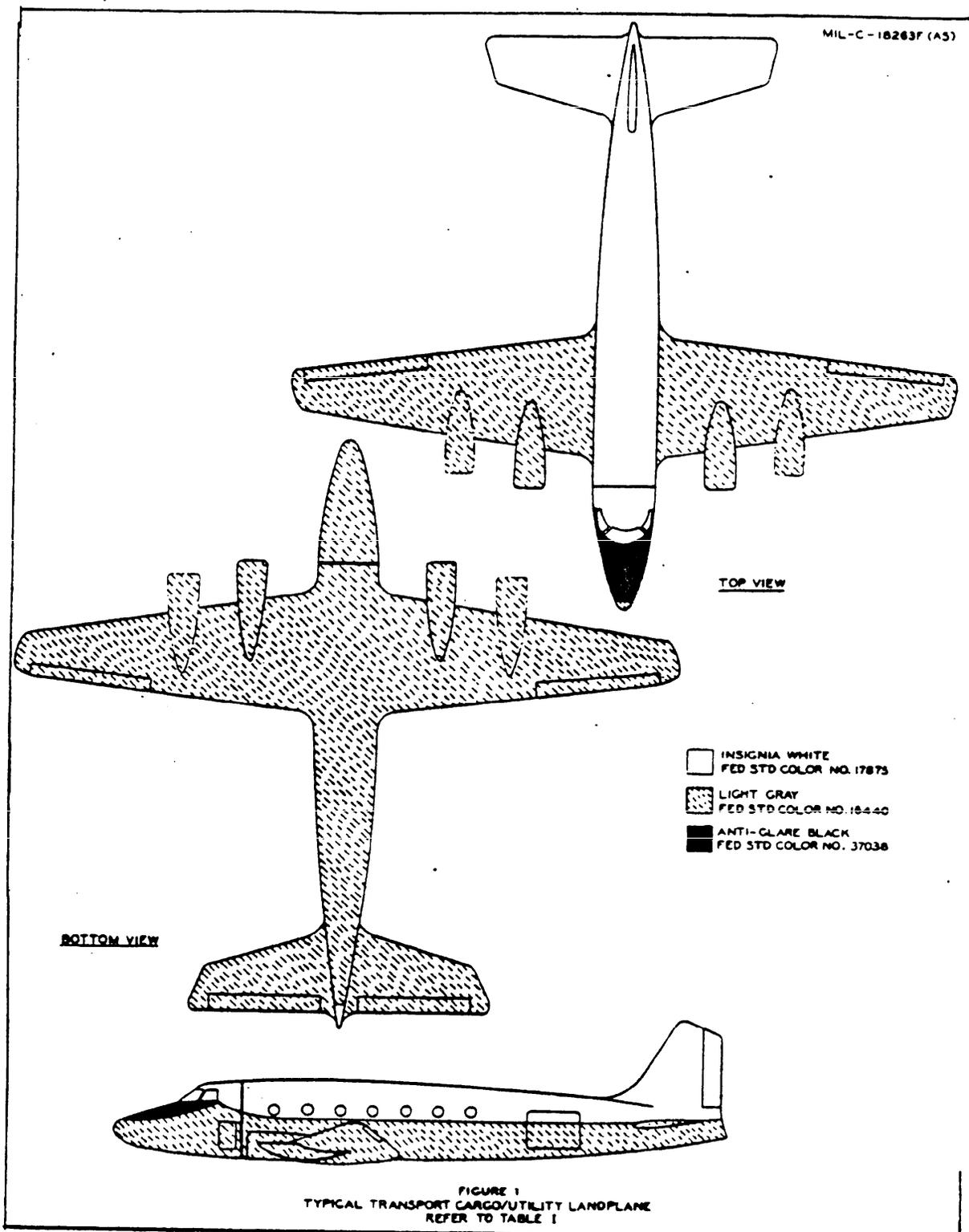
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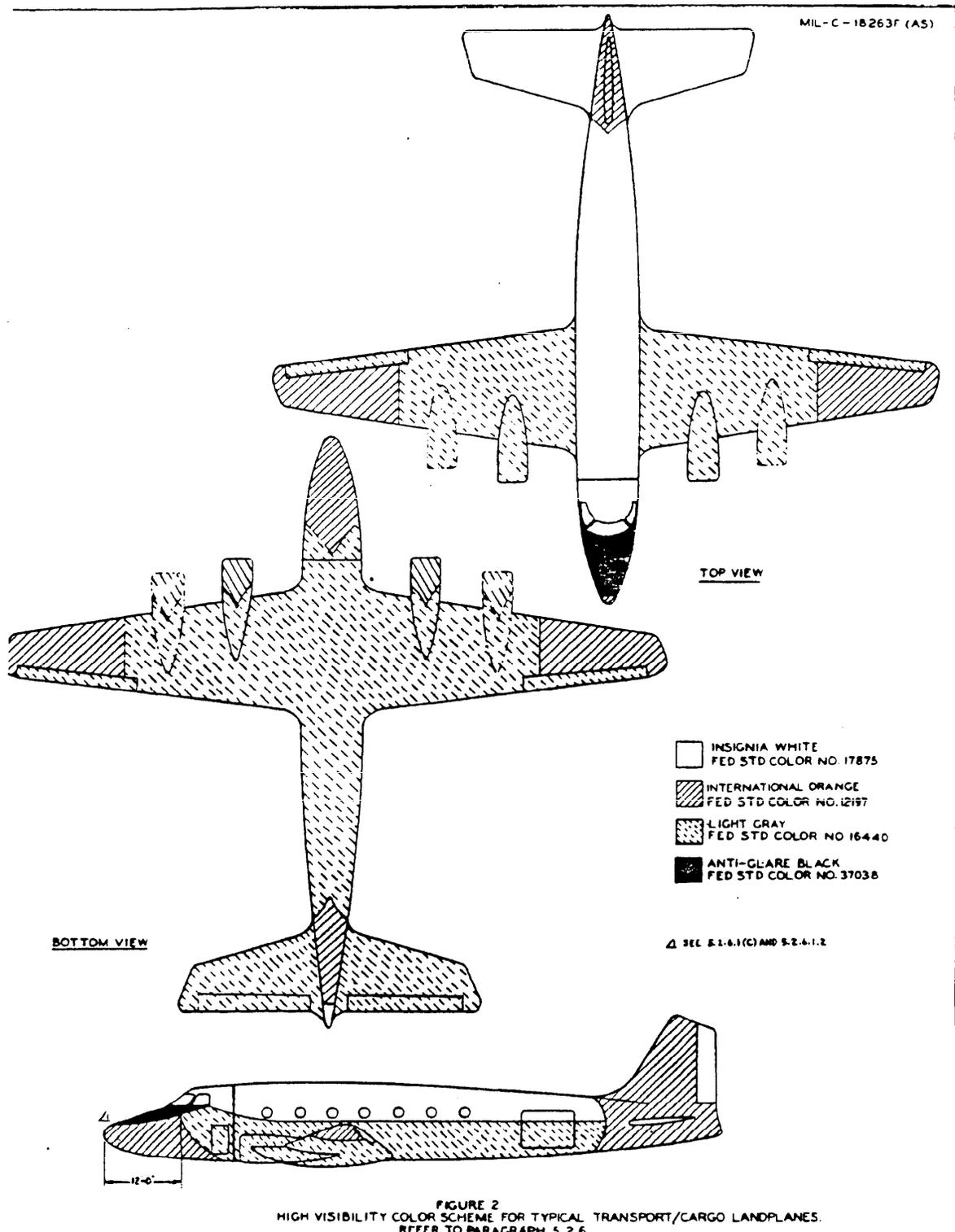
TABLE III
Land Camouflage Scheme

SURFACE	COLOR	FEDERAL STANDARD COLOR NO.	PROCEDURE
Wings, Fuselage, Horizontal Stabilizer, Fin, Rudder, etc.	Field Green	34097	All over.
Retractable Landing Gear and Both Faces of Well Covers	Field Green	34097	
Propellers, Spinners, Hubs and Domes of Fixed Wing Aircraft	Field Green	34097	
Wing Walkways	Same as wing, except anti-skid material shall be Olive Drab (Color No. 34087)		Walkways essential on aircraft where the wings are utilized to enter the plane or service the aircraft.
Upper Surfaces of Main Rotor Blades, including the Hub, of Helicopters	Olive Drab Light Gull Gray	34087 36440	--- --- If blades are all-metal. If blades are wooden construction.

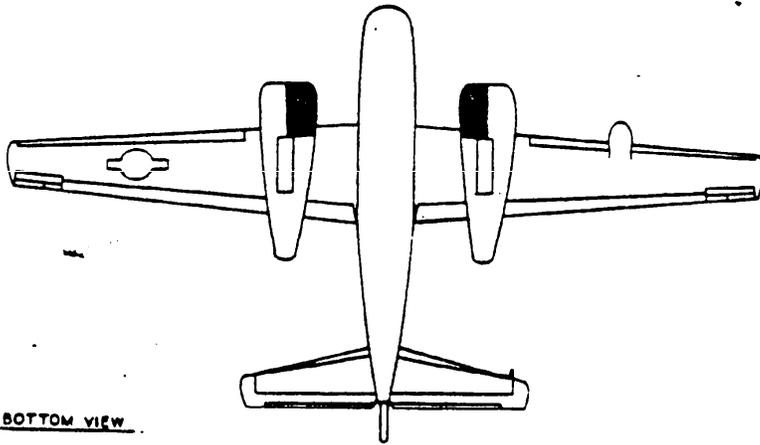
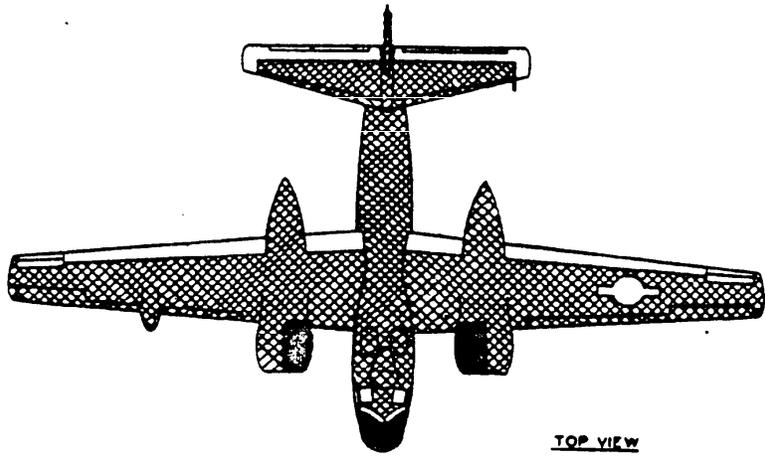
TABLE IV
Patrol Aircraft

SURFACE	COLOR	FEDERAL STANDARD COLOR NO.	PROCEDURE
Horizontal Airfoil Surface	Light Gray	16440	Both sides.
a. Viewed from above	Light Gray	16440	Both sides.
b. Viewed from below	Light Gray	16440	Both sides.
Horizontal and Vertical Control Surfaces	Light Gray	16440	Both sides.
Radomes			Shall be the color of adjacent areas except that the leading edge areas shall be in the natural light color of approved rain-erosion resistant material.
Fuselage			
a. Viewed from above	Insignia White	17875	The insignia white of the top surface shall extend down to the line of maximum width of the fuselage and shall fade out in the vicinity of the tail cone. The blending of the white and light gray colors shall be in accordance with the requirements of paragraph 4.1.
b. Viewed from below	Light Gray	16440	





MIL-C-16283F (AS)



- INSIGNIA WHITE
FED STD COLOR NO. 17875
- LIGHT GRAY
FED STD COLOR NO 15440
- ANTI GLARE BLACK
FED STD COLOR NO. 37038

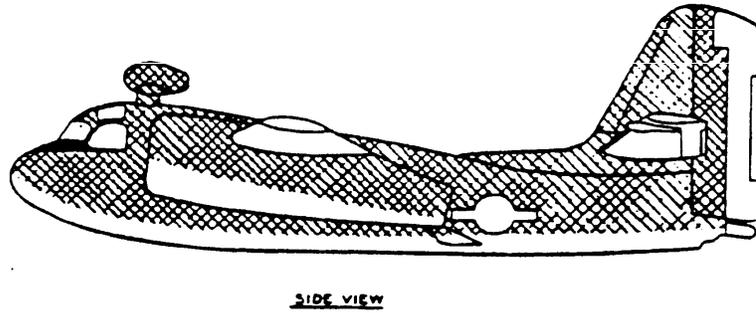
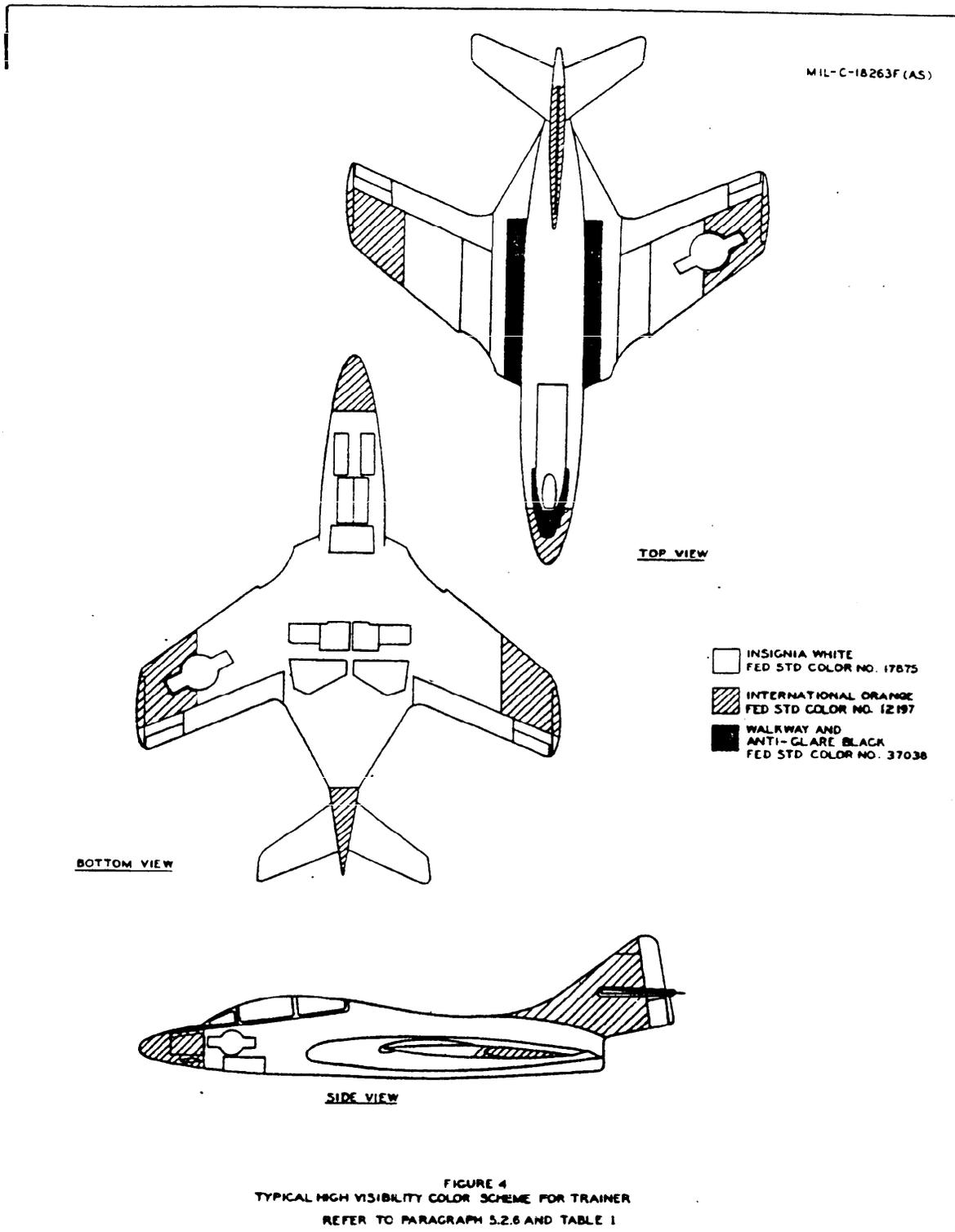


FIGURE 3
TYPICAL FLEET CONFIGURED COLOR SCHEME FOR CARRIER AIRCRAFT
REFER TO PARAGRAPH 5.2.1. TABLE B



MIL-C-10263F (AS)

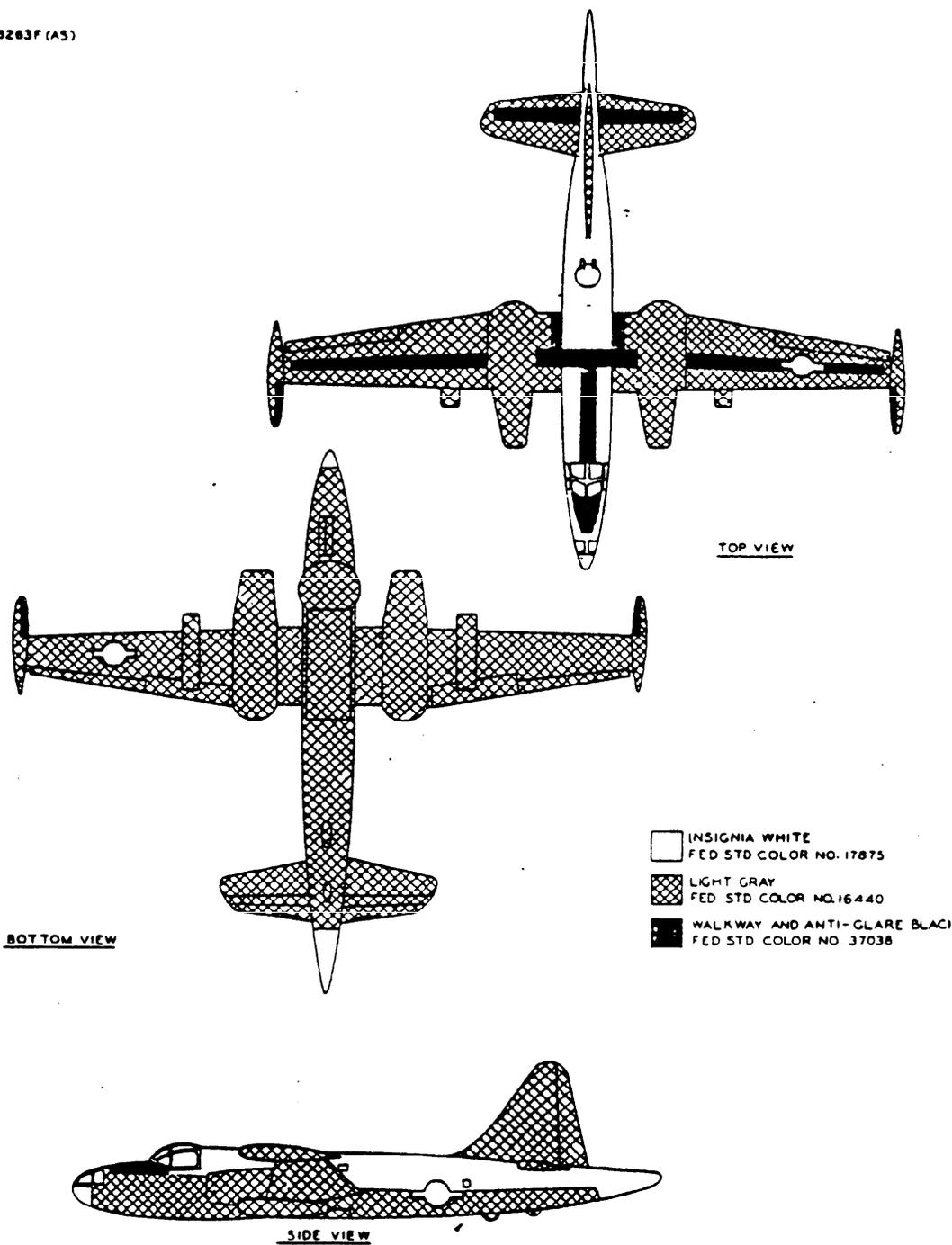
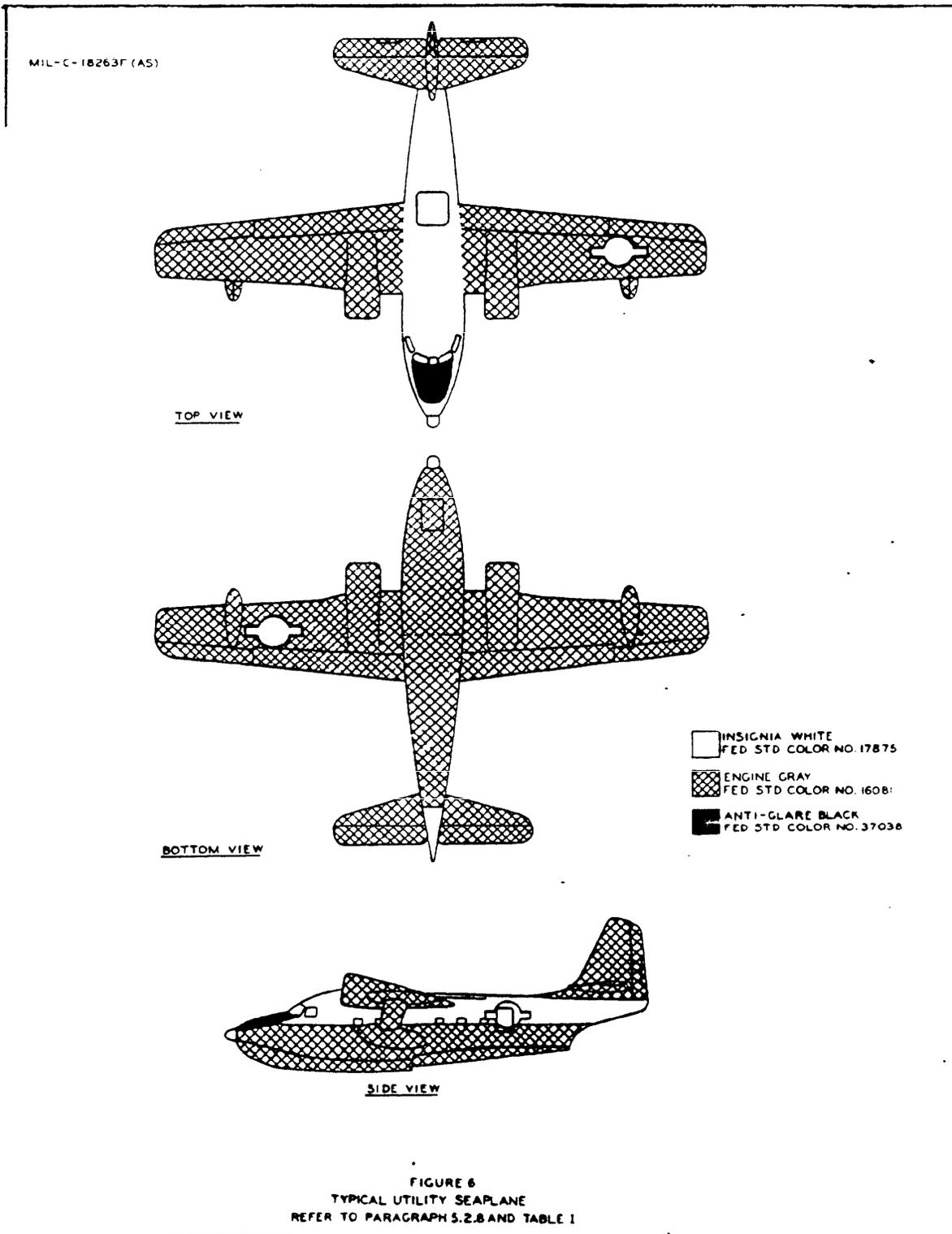
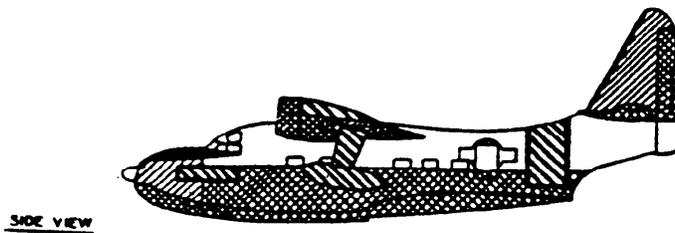
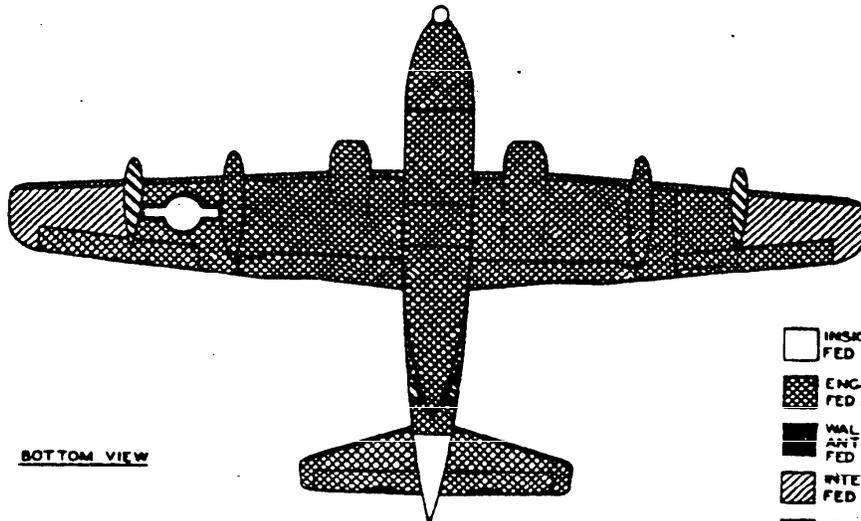
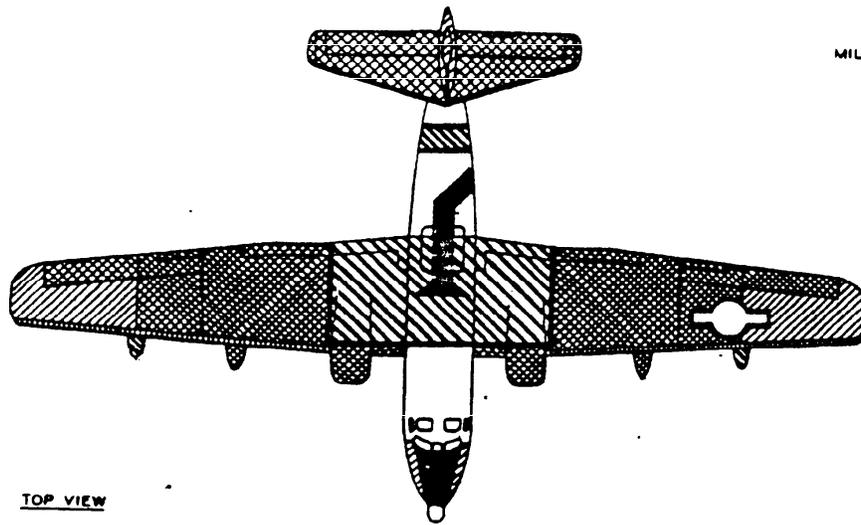


FIGURE 5
TYPICAL PATROL PLANE
REFER TO PARAGRAPH 5.2.8 AND TABLE III

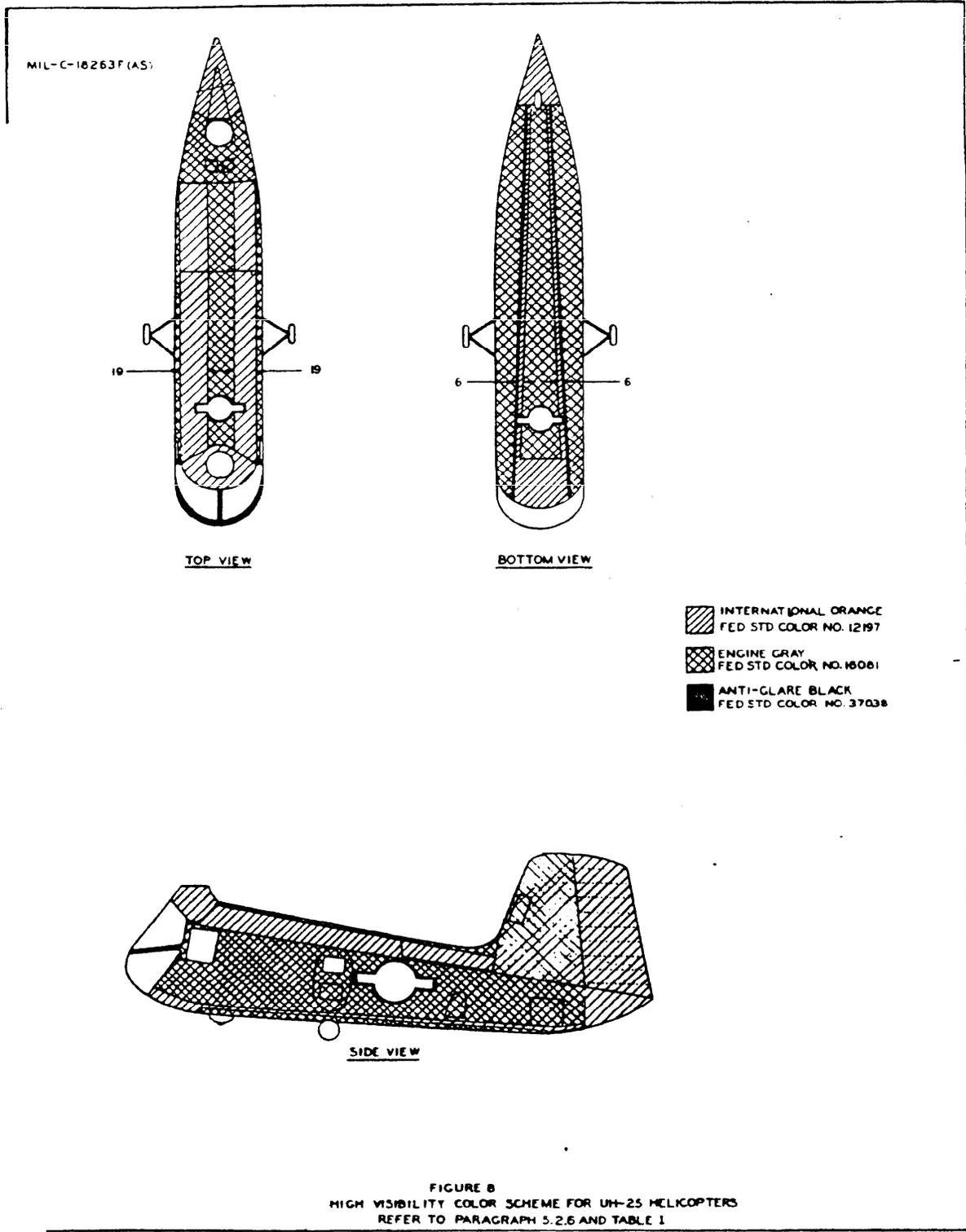


MIL-C-18263F (AS)

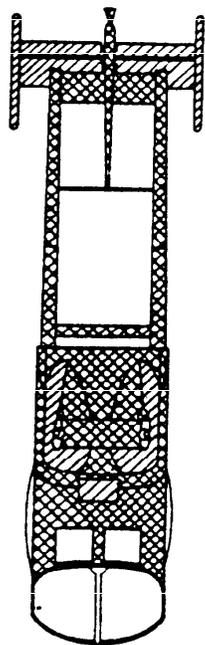


-  INSIGNIA WHITE
 FED STD COLOR NO. 17875
-  ENGINE GRAY
 FED STD COLOR NO. 16081
-  WALKWAY AND
 ANTI FLARE BLACK
 FED STD COLOR NO. 37038
-  INTERNATIONAL ORANGE
 FED STD COLOR NO. 12197
-  LEADING EDGE FINISH
-  ORANGE YELLOW
 FED STD COLOR NO. 13538
-  BLACK
 FED STD COLOR NO. 17038

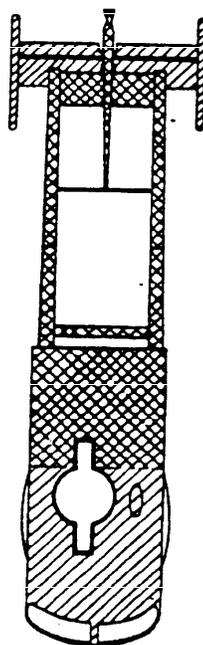
FIGURE 7
 HIGH VISIBILITY COLOR SCHEME FOR HU-1B SEARCH AND RESCUE AIRPLANE
 REFER TO PARAGRAPH 3.2 JO AND TABLE I



MIL-C-18263F (AS)

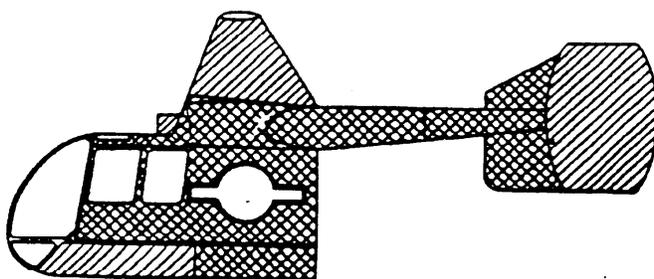


TOP VIEW



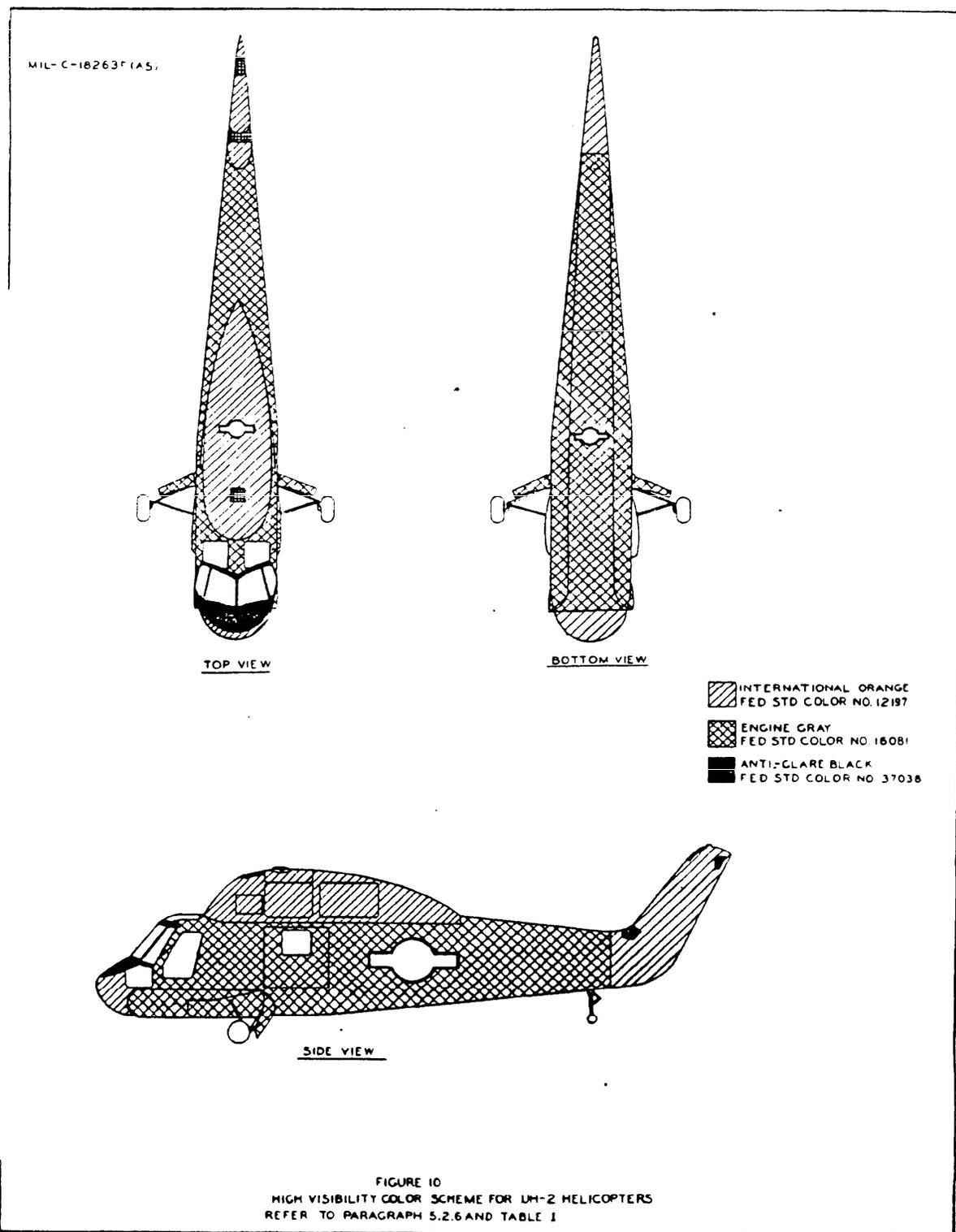
BOTTOM VIEW

-  INTERNATIONAL ORANGE
FED STD COLOR NO. 12197
-  ENGINE GRAY
FED STD COLOR NO. 16061

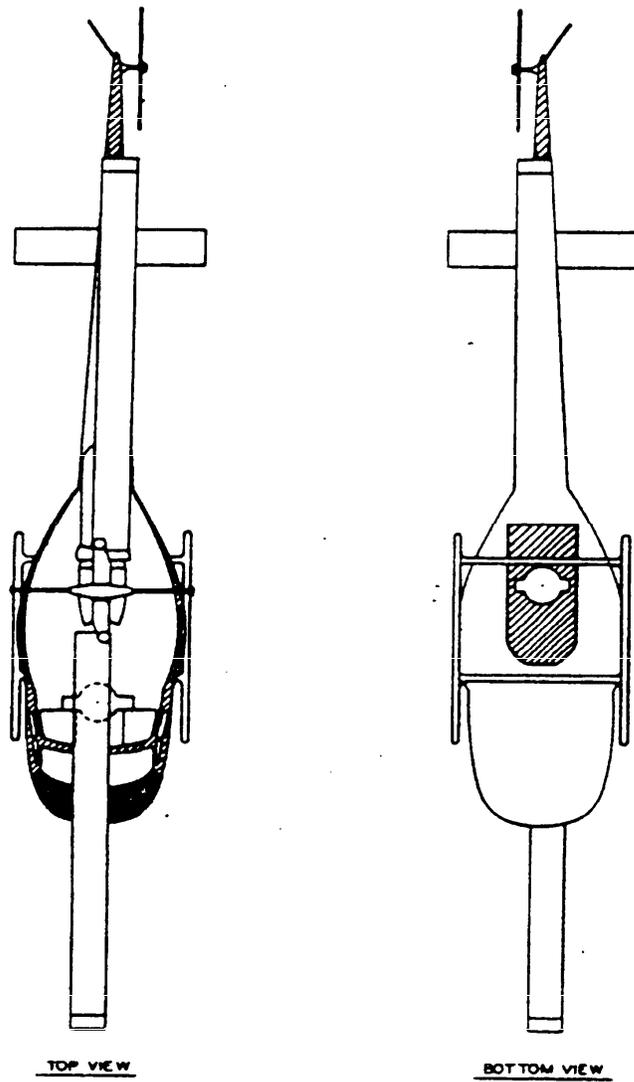


SIDE VIEW

FIGURE 9
HIGH VISIBILITY COLOR SCHEME FOR UH-43 HELICOPTERS
REFER TO PARAGRAPH 5.2.6 AND TABLE I



MIL-C-18263 F (AS)



- BLACK
FED STD COLOR NO. 17038
- DULL BLACK
FED STD COLOR NO. 37038
- WHITE
FED STD COLOR NO. 17875
- ▨ INTERNATIONAL ORANGE
FED STD COLOR NO. 12197

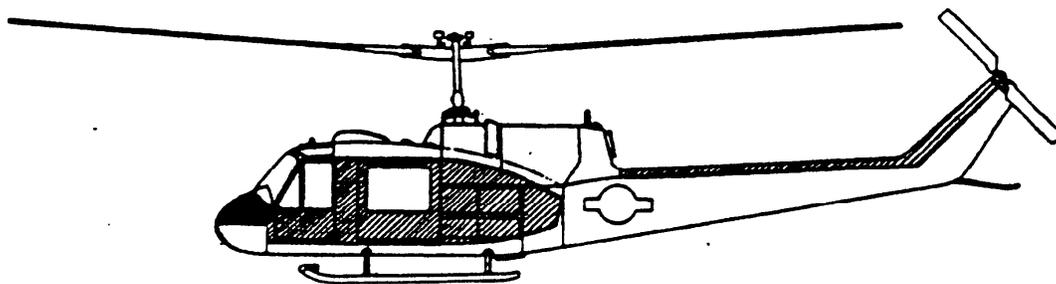
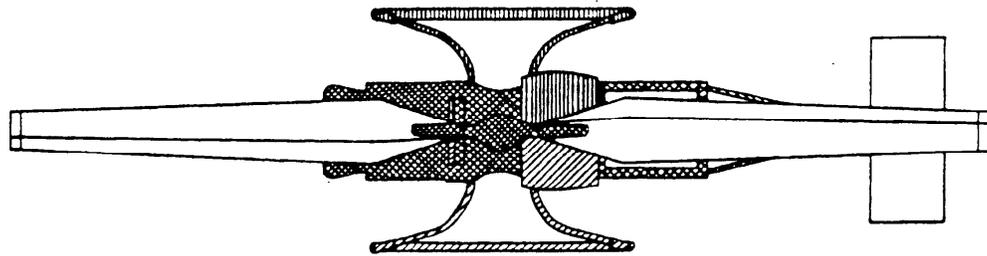
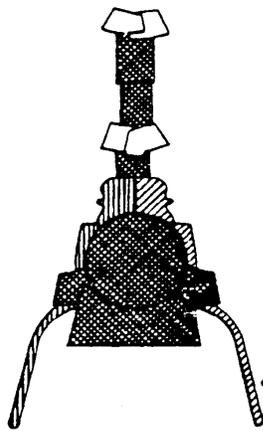


FIGURE 11
HIGH VISIBILITY COLOR SCHEME FOR HELICOPTER IN TRAINING COMMAND
REFER TO PARAGRAPH 5.2.6

MIL-C-18263F (A5)

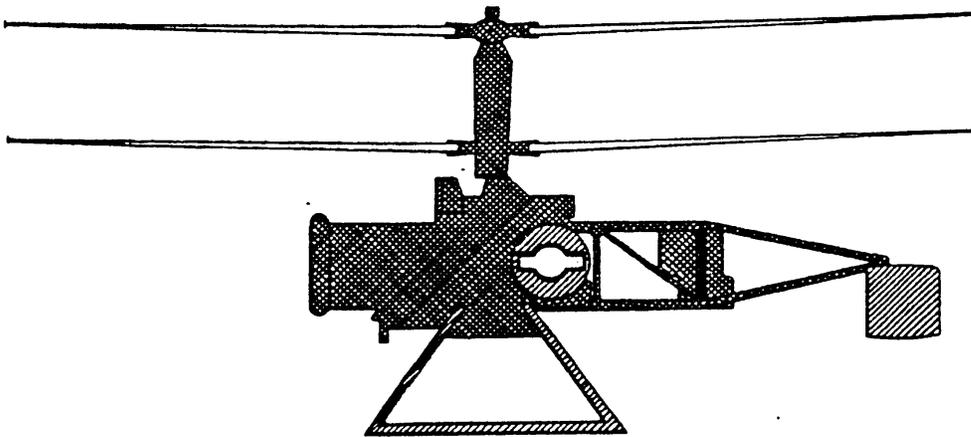


TOP VIEW



FRONT VIEW

-  FLUORESCENT RED ORANGE
FED STD COLOR NO. 28913
-  FLUORESCENT GREEN
FED STD COLOR NO. 28901 *
-  ENGINE GRAY
FED STD COLOR NO. 16081
-  * UV ABSORBING CLEAR OVER
COLOR NO. 28901



SIDE VIEW

FIGURE 12
FLUORESCENT HIGH VISIBILITY SCHEME FOR QH-50 DRONES
REFER TO PARAGRAPH 5.2.3 AND TABLE 1

SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 22-R255
<p>INSTRUCTIONS: This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.</p>		
<p>SPECIFICATION</p> <p style="text-align: center;">MIL-C-18263F(AS) COLORS, EXTERIOR, NAVAL AIRCRAFT: REQUIREMENTS FOR</p>		
<p>ORGANIZATION</p>		
<p>CITY AND STATE</p>		<p>CONTRACT NUMBER</p>
<p>MATERIAL PROCURED UNDER A</p> <p><input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT</p>		
<p>1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</p> <p>A. GIVE PARAGRAPH NUMBER AND WORDING.</p>		
<p>B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</p>		
<p>2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID</p>		
<p>3. IS THE SPECIFICATION RESTRICTIVE?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)</p>		
<p>4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)</p>		
<p>SUBMITTED BY (Printed or typed name and activity - Optional)</p>		<p>DATE</p>

DD FORM 1426
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.