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NAVAER 00-25Q-13

MODEL DESIGNATION
OF
NAVAL AIRCRAFT

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OCTOBER 1947

NAVY DEPARTMENT
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MODEL DESIGNATION OF NAVAL

AIRCRAFT

INTRODUCTION

1. The Chief of Naval Operations in Aviation Circular Letter No. 43-46 dated 11 March 1946, and Restricted letter OP-57B/ejg, Serial No. 167P57 dated 14 May 1947 has divided Naval aircraft into types designated as follows:

<u>TYPE</u>	<u>DESIGNATION</u>
(a) Heavier-than-air (Fixed Wing)	V
(b) Heavier-than-air (Rotary Wing)	H
(c) Pilotless Aircraft	K
(d) Guided Missiles	M
(e) Lighter-than-air	Z

2. The above types are further subdivided into classes in accordance with their use as follows:

<u>HEAVIER-THAN-AIR (FIXED WING)</u>	V
Fighter (destroy enemy aircraft in the air)	VF
Attack (destroy enemy surface or ground targets)	VA
Patrol (search for enemy)	VP *
Observation (observe and direct ship and shore gunfire)	VO
Transport	VR *
Utility	VU
Training	VT
Gliders	VG
<u>HEAVIER-THAN-AIR (ROTARY WING)</u>	H
Search and rescue	HH
Observation	HO
Training	HT
Transport	HR
Utility	HU
<u>PILOTLESS AIRCRAFT</u>	K
Aerial Target	KD
<u>GUIDED MISSILES</u>	M
Air-to-Air	AAM
Air-to-Surface	ASM
Air-to-Underwater	AUM
Surface-to-Air	SAM
Surface-to-Surface	SSM
Surface-to-Underwater	SUM
Underwater-to-Air	UAM
Underwater-to-Surface	USM
Test Vehicle	TV
<u>LIGHTER-THAN-AIR</u>	Z
Patrol and escort	ZP
Search and rescue	ZH
Training	ZT
Utility	ZU

*Note: For administrative purposes Class VP and VR aircraft are further classified into four-engine landplane, two-engine landplane, four-engine seaplane and two-engine seaplane and are further identified by adding the letters (HL), (ML), (HS) and (MS) respectively to the basic class designation.

3. Changes will not be made in the designation of aircraft already produced and as listed in the April 1947 issue of the "Model Designation of Naval Aircraft except that the mission letter of all "VBT" class aircraft in production shall be changed to "A". Subsequent to the issue of CNO Aviation Letter #43-46, production aircraft based directly on an experimental model having the obsolete model designation shall be designated in accordance with CNO Aviation circular letter #43-46.

4. Manufacturer's identification letters have been established to simplify the designation of naval aircraft and readily identify the manufacturer of the aircraft. The identification letters assigned to manufacturers of naval aircraft are grouped according to types of aircraft produced. Airplane manufacturers not currently engaged in the active manufacture or development of airplanes for the U. S. Navy, are listed as "inactive".

IDENTI-
FICATION
LETTER

AIRCRAFT MANUFACTURERS

(a) Heavier-than-air (fixed wing) Type "V"

B Boeing Aircraft Company, Seattle, Washington
C Curtiss Wright Corporation, Columbus, Ohio
D Douglas Aircraft Co., Inc., Santa Monica Plant, Santa Monica, Calif.
E Douglas Aircraft Co., Inc., El Segundo Plant, El Segundo, Calif.
F Edo Aircraft Corporation, College Point, L.I., N.Y.
G Grumman Aircraft Engineering Corp., Bethpage, L.I., N.Y.
H McDonnell Aircraft Corporation, St. Louis, Missouri (formerly "D")
J North American Aviation Inc., Los Angeles, Calif.
M Glenn L. Martin Company, Baltimore, Maryland
N Naval Aircraft Factory, NAF, Philadelphia, Pa.
O Lockheed Aircraft Corp., (Factory "B") Burbank, Calif.
Q Fairchild Engine & Airplane Corp., (Fairchild Aircraft Div.) Hagerstown, Pa.
R Ryan Aeronautical Company, San Diego, Calif.
U Chance Vought Aircraft, Div. of United Aircraft Corp., Stratford, Conn.
V Lockheed Aircraft Corp., (Factory "A") (formerly Vega), Burbank, Calif.
Y Consolidated Vultee Aircraft Corp., (San Diego Div.) San Diego, Calif.

INACTIVE

B Beech Aircraft Company, Wichita, Kansas
B Boeing Aircraft of Canada Ltd., Vancouver, B.C.
C Culver Aircraft Corp., Wichita, Kansas
E Piper Aircraft Corp., Lock Haven, Pa.
F Fairchild Aircraft Ltd., Longueuil, Quebec
G Goodyear Aircraft Corp., Akron, Ohio
K Kaiser Cargo Inc., Fleetwings Division, Briston, Pa.
L Columbia Aircraft Corp., Valley Stream, L.I., N.Y.
M General Motors Corp., (Eastern Aircraft, Trenton Div.) Trenton, N.J.
M General Motors Corp., (Eastern Aircraft, Linden Div.) Linden, N.J.
R Interstate Aircraft & Engineering Corp., El Segundo, Calif.
S Boeing Airplane Co., Wichita Div. (formerly Stearman) Wichita, Kansas
S Schweizer Aircraft Corp., Elmira, N.Y.
T Northrop Aircraft Inc., Hawthorne, Calif.
W Canadian Car & Foundry Company, Montreal, Quebec
Y Consolidated Vultee Aircraft Corp., (Stinson Div.) Wayne, Michigan.

(b) Heavier-than-air (rotary wing) Type "H"

H McDonnell Aircraft Corp., St. Louis, Mo. (Formerly "D")
 L Bell Aircraft Corp., Buffalo, N.Y.
 P Piasecki Helicopter Corp., Sharon Hill, Pa.
 S Sikorsky Aircraft, Div. of United Aircraft Corp., Bridgeport, Conn.

(c) Pilotless aircraft Type "K"

C Curtiss Wright Corp., Columbus, Ohio
 H McDonnell Aircraft Corp., St. Louis, Mo. (Formerly "D")
 D Radioplane Company, Van Nuys, Calif.
 F Grumman Aircraft Engineering Corp., Bethpage, L.I., N.Y.
 G Goodyear Aircraft Corp., Akron, Ohio
 G Globe Corp., (Aircraft Div.) Joliet, Ill.
 M Glenn L. Martin Co., Baltimore, Maryland
 N Naval Air Test Station, Johnsville, Pa.
 Q Fairchild Engine & Airplane Corp., (Pilotless Plane Div.) Farmingdale, L.I., N.Y.
 R Radioplane Company, Van Nuys, Calif.
 S Sperry Gyroscope Co., Inc., Great Neck, L.I., N.Y.
 U Chance Vought Aircraft Div. of United Aircraft Corp., Stratford, Conn.
 W Willys-Overland Co., Toledo, Ohio.

(d) Guided Missiles Type "M"

Manufacturer's letter is not used in designation of guided missiles.

(e) Lighter-than-air Type "Z"

G Goodyear Aircraft Corp., Akron, Ohio

The manufacturer's letter in model designation shall be assigned only to companies designing aircraft. Aircraft manufactured by companies other than the designer shall carry the designation of original design.

ENGINE MANUFACTURERS

Aerojet Engineering Corp., Azusa, California
 Aircooled Motors Inc., Syracuse, N. Y.
 Allison Division, General Motors, Corp., Indianapolis, Ind.
 Continental Motors Corp., Muskegon, Michigan
 Ford Motor Company, Dearborn, Michigan
 General Electric Co., Aircraft Gas Turbine Div., West Lynn, Mass.
 Jacobs Aircraft Engine Co., Pottstown, Pa.
 Kiekhaefer Mfg. Co., Milwaukee, Wis.
 Lycoming Division, The Aviation Corp., Williamsport, Pa.
 Marquardt Aircraft Co., Venice, California
 McDonnell Aircraft Corp., St. Louis, Mo.
 McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles, Calif.
 Naval Engineering Experimental Station, Annapolis, Md.
 Pratt & Whitney Aircraft, Div. of United Aircraft Corp., East Hartford, Conn.
 Ranger Aircraft Engines, Div. of Fairchild Engine & Airplane Corp., Farmingdale, L.I., N.Y.
 Reaction Motors Inc., Dover, N.J.
 Rolls Royce Ltd., Derby, Derbyshire, England (Taylor Turbine Co., New York, N. Y.)
 Warner Aircraft Corp., Detroit, Michigan
 Westinghouse Electric Corp., Gas Turbine Div., South Philadelphia, Pa.
 Wright Aeronautical Corp., Div. of Curtiss Wright Corp., Wood Ridge, N. J.

PROPELLER MANUFACTURERS

Aeroproducts Division, General Motors Corp., Dayton, Ohio
 Curtiss Wright Corp., Propeller Div., Caldwell, N. J.
 Hamilton Standard Propellers, Div. of United Aircraft Corp., East Hartford, Conn.
 Koppers Co., Bartlett Hayward Div., Baltimore, Md.
 McCauley Corp., Dayton, Ohio
 Sensenich Brothers, Lancaster, Pa.
 U. S. Propellers Inc., Pasadena, Calif.

FLOAT MANUFACTURER

Edo Aircraft Corporation, College Point, L.I., N. Y.

5. Prefix letter - A prefix letter shall be used to denote the development status of a given aircraft. The letter "X" is used to denote that the aircraft is experimental. This letter is dropped from the designation when the aircraft is placed in a production status.

6. Suffix letter - A suffix letter shall be used only when an aircraft is modified for a special mission. Suffix letters shall be assigned only from the list below and for the purpose listed. This letter indicates that the modifications are of a permanent nature and limit or augment the primary mission accordingly. Exceptions to this rule will be found among the models designated prior to CNO Aviation Circular Letter #43-46. In each such case the exception is identified in this publication by an asterisk (*), however the asterisk (*) shall not be used in correspondence, reports, etc.

<u>SUFFIX</u>	<u>PURPOSE</u>
A	Amphibious version
B	Special armament version
C	Carrier operation version of non-carrier aircraft
D	Drone control version
E	Special electronic version
G	Search and rescue
H	Hospital version
J	Target towing version
K	Target drone version
L	Searchlight version
M	Weather reconnaissance version
N	Night operating version
P	Photographic version
Q	Countermeasures version
R	Transport version
S	Anti-submarine version
T	Training version
U	Utility version
W	Special search version
Z	Administrative version

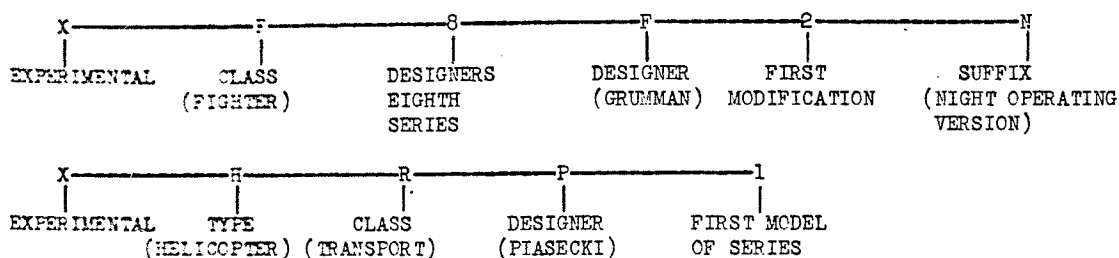
7. Model Designations for piloted, pilotless, helicopter and lighter-than-air naval aircraft shall be made up as follows: (Practice for guided missiles is given in paragraph 12)

- a. Prefix letter - "X" is used to denote experimental model.
- b. Type letter - The letter "v" shall be omitted from the model designation of piloted aircraft, however, the letters "H", "K", "M" and "Z" shall be used as applicable.
- c. Class (mission) letter - Only one class (mission) letter shall be used in each model designation.
- d. Designers series number - The number following the class or mission letter indicates the order number of the designer's aircraft in the same class, except that for the first design, numeral "one" shall be omitted.

7. (Cont'd)

- e. Designer's letter - The letter assigned to the designer is selected from the above list of Aircraft Manufacturers.
- f. Modification number - The number following the dash after designer's letter indicates the modification of the model. The numeral "one" indicates the first model of the series and succeeding numbers indicate the first modification, second modification, etc.
- g. Suffix letter - A suffix letter selected from the list of suffix letters above shall be used when applicable.

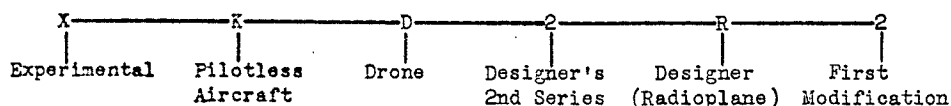
8. The following are typical examples of designations of piloted Naval aircraft in accordance with the above:



9. Pilotless Aircraft Target (non-man-carrying) are aircraft in which no provision has been made for a human pilot.

10. Pilotless Aircraft Target Drones (man-carrying) are conventional aircraft specially equipped for operation by remote control.

11. The following is an example of a designation of a pilotless aircraft target:



12. Model Designations for guided missiles shall be made up as follows (Practice for piloted and other aircraft is given above).

a. Prefix letter

(1) Applicable only to guided missiles.

"X" is used to denote experimental model

"Y" is used to denote service test

"Z" is used to denote obsolete

(2) Applicable only to conventional aircraft.

"M" is used to denote conventional aircraft used as missiles (Missile Aircraft)

"D" is used to denote conventional aircraft modified to serve as controlling or directing aircraft for guided missiles or missile aircraft (Director Aircraft).

(3) Applicable to guided missiles used as Test Vehicles (TV).

"C" is used to denote Control Guidance

"P" is used to denote Propulsion

"L" is used to denote Launching

"R" is used to denote Research

b. Class (mission) letter - Used two-letter combination; the first letter indicates origin and the second letter indicates objective of the missile.

c. Type letter - Use letter "M" after class (mission) letters.

HEAVIER-THAN-AIR (FIXED WING) AIRPLANES

VF CLASS

FIGHTER

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
XF8B-1	Boeing 1945	1 Crew TM Land	P & W R-4360-10	Low Wing. Carrier-catapult.
XF15C-1	Curtiss 1945	1 Crew TM Land	P & W R-2800-34W & H-1B	Low Wing. High performance. Carrier-catapult.
XFD-1	McDonnell 1945	1 Crew M Land	2 Westinghouse 19-B	Low Wing. Carrier-catapult. Tricycle landing gear.
FH-1 "Phantom"	McDonnell 1946	1 Crew M Land	2 Westinghouse 19xB-2B	Production-development of XFD-1. (Formerly FD-1)
XF2H-1	McDonnell 1945	1 Crew Land	2 Westinghouse 24C4	Carrier-catapult, high performance. (Formerly XF2D-1)
F2H-1 "Banshee"	McDonnell 1948	1 Crew Land	2 Westinghouse J34-WE-22	Similar to XF2D-1. (Formerly F2D-1)
F6F-5 "Hellcat"	Grumman 1944	1 Crew TM Land	P & W R-2800-10W	Improved F6F-3. Hamilton Std. Prop.
F6F-5E "Hellcat"	Grumman 1944	1 Crew TM Land	P & W R-2800-10W	Same as F6F-5, except equipped with special radar.
F6F-5N "Hellcat"	Grumman 1944	1 Crew TM Land	P & W R-2800-10W	Same as F6F-5, except for special night-fighting equipment.
F6F-5P "Hellcat"	Grumman 1944	1 Crew TM Land	P & W R-2800-10W	Same as F6F-5, except for recon- naissance photographic equip.
F7F-1N "Tigercat"	Grumman 1944	1 Crew TM Land	2 P & W R-2800-22W	Carrier-catapult. Folding mid- wing. Tricycle landing gear. Hamilton Std. Prop.
F7F-2D	Grumman 1947	2 Crew TM Land	2 P & W R-2800-22W	Similar to F7F-2N, equipped for Drone control.
F7F-2N "Tigercat"	Grumman 1944	2 Crew TM Land	2 P & W R-2800-22W	F7F-1N with rear seat added for radar operator, Hamilton Std. Prop.
F7F-2P "Tigercat"	Grumman 1945	1 Crew TM Land	2 P & W R-2800-22W	Similar to F7F-2N except fitted for photography.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
F7F-3 "Tigercat"	Grumman 1945	1 Crew TM Land	2 P & W R-2800-34W	Similar to F7F-2N, except extra gas tank in place of radar operator and structure strengthened.
F7F-3N "Tigercat"	Grumman 1945	2 Crew TM Land	2 P & W R-2800-34W	Night fighter version of F7F-3 with radar operator in place of extra gas tank.
F7F-3P "Tigercat"	Grumman 1945	1 Crew TM Land	2 P & W R-2800-34W	Same as F7F-3, except fitted for photography.
XF7F-4N	Grumman 1946	2 Crew TM Land	2 P & W R-2800-34W	Radar interceptor. Strength insufficient for carrier operations.
F7F-4N "Tigercat"	Grumman 1946	2 Crew TM Land	2 P & W R-2800-34W	Similar to F7F-3N except GR-1 auto pilot, APS-19/APA-16. Space for APA-48.
XF8F-1	Grumman 1944	1 Crew TM Land	P & W R-2800-22W	High performance carrier fighter.
F8F-1 "Bearcat"	Grumman 1945	1 Crew TM Land	P & W R-2800-34W	Production version of XF8F-1. Aero Products prop.
F8F-1B "Bearcat"	Grumman 1945	1 Crew TM Land	P & W R-2800-34W	Aero. Products Prop. F8F-1 with 20 mm wing gun installation.
F8F-1N "Bearcat"	Grumman 1946	1 Crew TM Land	P & W R-2800-34W	Same as F8F-1 except fitted with special night fighting equip.
F8F-1P "Bearcat"	Grumman 1946	1 Crew TM Land	P & W R-2800-34W	Same as F8F-1 except equipped for photographic reconnaissance.
XF8F-2	Grumman 1946	1 Crew TM Land	P & W YR-2800-34W	Same as F8F-1 except engine.
F8F-2 "Bearcat"	Grumman 1947	1 Crew TM Land	P & W R-2800-30W	Same as F8F-1 except equipped with higher rated engine and 20 mm wing gun installation.
F8F-2N "Bearcat"	Grumman 1947	1 Crew TM Land	P & W R-2800-34W	Same as F8F-2 except with special night fighting equipment.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
F8F-2P "Bearcat"	Grumman 1947	1 Crew TM Land	P & W R-2800-34W	Same as F8F-2 except equipped for photographic reconnaissance.
*FG-1D "Corsair"	Goodyear 1943	1 Crew TM Land	P & W R-2800-8W	Same as F4U-1D. Hamilton Std. Prop.
FG-3 "Corsair"	Goodyear 1945	1 Crew TM Land	P & W	Development of FG-1D with 2-stage turbo-supercharged engine.
XF2G-1	Goodyear 1944	1 Crew TM Land	P & W R-4360	FG-1 with new engine & modified cockpit.
F2G-1	Goodyear 1944	1 Crew TM Land	P & W R-4360-4	Similar to FG-1, except engine, cockpit and cowling. Hamilton Std. Prop.
F2G-2	Goodyear 1945	1 Crew TM Land	P & W R-4360-4	Carrier version of F2G-1. Folding wings, catapult and arresting provisions.
XFJ-1	North American 1946	1 Crew M Land	G.E. J-35-C-3	Low wing, carrier, catapult. Drop tanks on wing tips.
FJ-1	North American 1947	1 Crew M Land	G.E. J-35-A-5	Production development of XFJ-1.
FR-1 "Fireball"	Ryan 1945	1 Crew TM Land	Wright R-1820-72W & G.E. I-16-6	Carrier. High performance. Curtiss Prop.
XF2R-1	Ryan 1945	1 Crew TM Land	G.E. TG-100 & I-16-B4	Similar to FR-1 except used for engine test bed.
XFR-4	Ryan 1946	1 Crew TM Land	Wright R-1820-74W & West. 24-C	Same as FR-1 except engines.
*F4U-1D "Corsair"	Chance Vought 1944	1 Crew TM Land	P & W R-2800-8W	F4U-1 with twin pylons for drop wing tanks or 1000# bombs. No integral wing tanks.
XF4U-4	Chance Vought 1944	1 Crew TM Land	P & W R-2800-18W	Similar to F4U-1, except engine and improved cockpit arrangement. Hamilton Std. Prop.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
F4U-4 "Corsair"	Chance Vought 1944	1 Crew TM Land	P & W R-2800-18W	Production development of XF4U-4.
F4U-4B "Corsair"	Chance Vought 1945	1 Crew TM Land	P & W R-2800-18W	Same as F4U-4, except equipped with 20 mm guns.
F4U-4E "Corsair"	Chance Vought 1945	1 Crew TM Land	P & W R-2800-18W	Same as F4U-4, except equipped with special electronic gear.
F4U-4P "Corsair"	Chance Vought 1945	1 Crew TM Land	P & W R-2800-18W	Same as F4U-4, except equipped for photographic reconnaissance.
XF4U-5	Chance Vought 1946	1 Crew TM Land	P & W R-2800-32W	Same as F4U-4, except for 2-stage engine.
F4U-5 "Corsair"	Chance Vought 1947	1 Crew TM Land	P & W R-2800-32W	Develop. of XF4U-5. Hamilton Std. Prop.
F4U-5N	Chance Vought 1947	1 Crew TM Land	P & W R-2800-32W	Same as F4U-5, except equipped for night fighting.
F4U-5P	Chance Vought 1947	1 Crew TM Land	P & W R-2800-32W	Same as F4U-5, except equipped for photo reconnaissance.
XF5U-1	Chance Vought 1947	1 Crew TM Land	2 P & W R-2000-7 or R-2000-2	Carrier based. Turbo super-charger. Flying wing.
XF6U-1	Chance Vought 1946	1 Crew M Land	West. XJ34-WE-18 or J34-WE-22	Low wing, carrier-catapult. Drop tanks on wing tips.
F6U-1 "Pirate"	Chance Vought 1948	1 Crew M Land	West. J34-WE-22	Production development of XF6U-1.
D-558	Douglas El Segundo 1946	1 Crew M Land	G.E. TG-180	High speed research only.

VA CLASS

ATTACK

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
XAD-1W	Douglas 1946	3 Crew TM Land	Wright R-3350-24	AD-1 with airborne early warning equipment.
AD-1 "Skyraider"	Douglas El Segundo 1946	1 Crew TM Land	Wright R-3350-24W	Production version of XBT2D-1. (Formerly BT2D-1). AN/APS radar Aero Products Prop.
AD-1Q "Skyraider"	Douglas El Segundo	2 Crew TM Land	Wright R-3350-24	Production version of XBT2D-1Q.
AD-1U	Douglas El Segundo 1946	2 Crew TM Land	Wright R-3350-24	AD-1 with Radar Countermeasures & Tow Target Equip. Deletion of Armament & Water Injection equip.
XAD-2	Douglas El Segundo 1946	1 Crew TM Land	Wright R-3350-26W	Similar to XBT2D-1 except engine, increased fuel capacity.
AD-2 "Skyraider"	Douglas El Segundo 1947	1 Crew TM Land	Wright R-3350-26W	Similar to AD-1. Increased fuel. Improved cockpit, lighting & landing gear doors.
AD-2N	Douglas El Segundo 1947	3 Crew TM Land	Wright R-3350-26W	AD-2 equipped for night operations.
AD-2Q	Douglas El Segundo 1947	2 Crew TM Land	Wright R-3350-26W	AD-2 with radar countermeasures. Aft fuselage modified for RCM operator & equipment.
AD-2U	Douglas El Segundo 1947	2 Crew TM Land	Wright R-3350-26W	AD-2 with Radar countermeasure & Tow Target Equip. Deletion of Armament & Water Injection equip.
AD-2W	Douglas El Segundo 1947	3 Crew TM Land	Wright R-3350-26W	AD-2 with airborne early warning equipment. Reduced fuel capacity. Delete Armament & Dive Brakes.
AM-1 "Mauler"	Martin 1946	1 Crew TM Land	P & W R-4360-4	Production version of XBTM-1 Curtiss Prop. (Formerly BTM-1)
AM-1Q "Mauler"	Martin 1946	2 Crew TM Land	P & W R-4360-4	AM-1, except fitted for electronic countermeasures.
XBTC-2	Curtiss 1946	1 Crew TM Land	P & W R-4360-14	Carrier-catapult. Low folding wing, Aero. Products Prop.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
XBT2C-1	Curtiss 1946	2 Crew TM Land	Wright R-3350-24	Similar to SB2C-5. Increased fuel capacity. Radar operator as auxiliary crew member. Hamilton Std. Prop.
XBT2D-1	Douglas El Segundo 1946	1 Crew TM Land	Wright R-3350-24	Single engine, single seat low wing. Fuselage dive brakes. Carrier-catapult.
XBT2D-1N	Douglas El Segundo 1946	3 Crew TM Land	Wright R-3350-24	XBT2D-1, equipped for night operations.
XBT2D-1P	Douglas El Segundo 1946	1 Crew TM Land	Wright R-3350-24	XBT2D-1 equipped for photo reconnaissance.
XBT2D-1Q	Douglas El Segundo 1946	2 Crew TM Land	Wright R-3350-24	XBT2D-1 with electronic counter-measures equipment.
XBTK-1	Kaiser 1946	1 Crew TM Land	P & W R-2800-34W	Single engine, single seat low wing. Carrier-catapult. Ham. Std. Prop.
XBTM-1	Martin 1946	1 Crew TM Land	P & W R-4360-4	Single engine, single seat. Carrier-catapult. Wing dive brakes.
SB2C-4E "Helldiver"	Curtiss 1944	2 Crew TM Land	Wright R-2600-20	Same as SB2C-4, except equipped with special electronic gear.
XSB2C-5	Curtiss 1944	2 Crew TM Land	Wright R-2600-20	SB2C-4 used as prototype for SB2C-5.
SB2C-5 "Helldiver"	Curtiss 1945	2 Crew TM Land	Wright R-2600-20	Similar to SB2C-4, except improved cockpit, increased fuel capacity, strengthened fuselage. Curtiss prop.
SBW-4E "Helldiver"	CanCar&Foundry 1945	2 Crew TM Land	Wright R-2600-20	Same as SB2C-4E.
SBW-5	CanCar&Foundry 1945	2 Crew TM Land	Wright R-2600-20	Same as SB2C-5

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
XTB3P-1	Grumman 1947	2 Crew TM Land	P & W R-2800-34W West. 19XB	High speed torpedo bomber.
TBM-3E "Avenger"	Gen. Motors 1944	3 Crew TM Land	Wright R-2600-20	TBM-3 equipped with special elec- tronic gear.
TBM-3J "Avenger"	Gen. Motors 1944	3 Crew TM Land	Wright R-2600-20	Carrierbased. Target towing pro- visions.
TBM-3N	Gen. Motors 1945	3 Crew TM Land	Wright R-2600-20	TBM-3 equipped for night operations.
TBM-3Q "Avenger"	Gen. Motors 1945	3 Crew TM Land	Wright R-2600-20	TBM-3 equipped for electronic countermeasures.
TBM-3S	Gen. Motors 1945	3 Crew TM Land	Wright R-2600-20	Anti-submarine version of TBM-3E.
TBM-3W	Gen. Motors 1945	3 Crew TM Land	Wright R-2600-20	TBM-3 special radar search airplane.
XTBM-4	Gen. Motors 1945	3 Crew TM Land	Wright R-2600-20	TBM-3 strength increased to 5G, but restricted to flight maneuvers of TBM-3.

VP(HL) CLASS 4 ENGINE LANDPLANE PATROL

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
PB-1W "Fortress"	Boeing Seattle 1945	13 Crew TM Land	4 Wright R-1820-97	Patrol plane (no bomb bays) special radar. AAF Mod. "B-17G". Ham. Std. Prop.
PB4Y-1 "Liberator"	Convair San Diego 1942	10 Crew TM Land	4 P & W R-1830-43	Long range, high wing heavy bomber. AAF Mod. "B-24". (British "Liberator GR-V") Ham. Std. Prop.
PB4Y-1P "Liberator"	Convair San Diego 1944	10 Crew TM Land	4 P & W R-1830-43	PB4Y-1 equipped for photo reconnaissance.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
PB4Y-2 "Privateer"	ConVair San Diego 1944	11 Crew TM Land	4 P & W R-1830-94	Develop. of PB4Y-1 with longer fuselage. Additional Armament & single tail. Ham. Std. Prop.
PB4Y-2M "Privateer"	ConVair San Diego 1946	11 Crew TM Land	4 P & W R-1830-94	Demilitarized version of PB4Y-2 weather reconnaissance.
PB4Y-2S "Privateer"	ConVair San Diego 1947	11 Crew TM Land	4 P & W R-1830-94	Anti-submarine version of PB4Y-2.
XPLM-1	Martin 1946	8 Crew TM Land	2 P & W R-4360-4 & 2 GE I-40	Midwing long range patrol or mine layer. Curtiss Prop.
PLM-1 "Mercator"	Martin 1948	9 Crew TM Land	2 P & W R4360-20 2 Allison J-33-A-23	Prod. development of XPLM-1. Aero Products prop.

VP(ML) CLASS 2 ENGINE LANDPLANE PATROL

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
PV-2 "Harpoon"	Lockheed "A" 1944	5 Crew TM Land	2 P & W R-2800-31	PV-1 with increased fuel capacity, span & control surface areas. Ham. Std. Prop.
XP2V-1	Lockheed "A" 1945	8 Crew TM Land	2 Wright R-3350-8	High performance, long range land-based patrol plane.
P2V-1 "Neptune"	Lockheed "A" 1945	8 Crew TM Land	2 Wright R-3350-8	Prod. Develop. of XP2V-1. "Truculent Turtle"
XP2V-2	Lockheed "A" 1945	7 Crew TM Land	2 Wright R-3350-24	Similar to P2V-1, except for engines and nose.
P2V-2 "Neptune"	Lockheed "A" 1946	7 Crew TM Land	2 Wright R-3350-24W	Prod. develop. of XP2V-2. Hamilton Std. Prop.
*PBJ-1G "Mitchell"	No. American 1943	5 Crew TM Land	2 Wright R-2600-13	Same as PBJ-1D, except armament. AAF Mod. "B-25G".
*PBJ-1J "Mitchell"	No. American 1944	6 Crew TM Land	2 Wright R-2600-13	Same as AAF Mod. "B-25J". (British "Mitchell III").

VP(MS) CLASS 2 ENGINE SEAPLANE PATROL

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
XP5M-1	Martin 1947	9 Crew TM Boat	2 Wright R-3350	Similar to PBM-5 except engines, single tail and hull.
PBM-5 "Mariner"	Martin 1944	9 Crew TM Boat	2 P & W R-2800-22-34	Same as PBM-3D, except engines, improved radio-radar, Curtiss Prop.
XPBM-5A	Martin 1945	9 Crew TM Amphib.	2 P & W R-2800-34	PBM-5 converted to an amphibian.
PBM-5A "Mariner"	Martin 1947	9 Crew TM Amphib.	2 P & W R-2800-34	Production version of XPBM-5A.
PBM-5S "Mariner"	Martin 1945	9 Crew TM Boat	2 P & W R-2800-22,34	Anti-submarine version of PBM-5
PBY-5 "Catalina"	ConVair San Diego 1940	8 Crew TM Boat	2 P & W R-1830-82-92	Medium range. Patrol bomber. (British "Catalina IV"). Also operated by Coast Guard. Ham. Std. Prop.
PBY-5A "Catalina"	ConVair San Diego 1941	8 Crew TM Amphib.	2 P & W R-1830-82-92	Prod. develop. of XPBY-5A, AAF Mod. "OA-10". (British "Catalina 1"). Also operated by Coast Guard. Ham. Std. Prop.
PBY-6A "Catalina"	ConVair San Diego 1945	8 Crew TM Amphib.	2 P & W R-1830-92	Develop. of PBY-5A, incorporating PBN-1 tail and revised radio-radar installation. Ham. Std. Prop.

VO CLASS

OBSERVATION

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
OY-1 "Sentinel"	ConVair Stinson 1943	2 Crew TM Conv't	Lycoming O-435-1	Similar to Stinson "V-76". For artillery observation, AAF Mod. "L-5".
XSC-1	Curtiss 1943	1 Crew TM Conv't	Wright XR-1820-62	Single float. High performance. Battleship and cruiser scout.
SC-1 "Seahawk"	Curtiss 1944	1 Crew TM Conv't	Wright R-1820-62	Develop. of XSC-1 structurally reinforced. Curtiss Prop.
SC-2 "Seahawk"	Curtiss 1945	1 Crew TM Conv't	Wright R-1820-76	Similar to SC-1 except engine, modernized cockpit, one piece canopy and jump seat for search and rescue.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
XOSE-1	Edo 1946	1 Crew TM Conv't	Ranger V-770-8	Light weight low-wing cruiser scout. Hamilton Std. Prop.
XOSE-2	Edo 1946	2 Crew TM Conv't	Ranger V-770-8	Development of XOSE-1. One 50 cal. gun.
OS2U-3 "Kingfisher"	Chance Vought 1941	2 Crew TM Conv't	P & W R-985-AN-2	Develop. of OS2U-2, Battleship and cruiser. Catapult. Operated by Coast Guard. (British "Kingfisher").

VR(HL) CLASS 4 ENGINE LANDPLANE TRANSPORT

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
R5D-1 "Skymaster"	Douglas Santa Monica 1942	6 Crew TM Land Cargo or 40-50 pass	4 P & W R-2000-9	Similar to Douglas "DC-4" and AAF Mod. "C-54A". Ham. Std. Prop.
R5D-2 "Skymaster"	Douglas Santa Monica 1944	6 Crew TM Land Cargo or 40-50 pass	4 P & W R-2000-9	Two cabin tanks of R5D-1 replaced with outer wing panel tanks. AN type end fittings for all rigid and flexible lines. AAF Mod. "C-54B".
R5D-2Z "Skymaster"	Douglas Santa Monica 1944	6 Crew TM Land 22 Pass	4 P & W R-2000-9	R5D-2 converted to an administrative airplane. Ten berths.
R5D-3 "Skymaster"	Douglas Santa Monica 1944	6 Crew TM Land Cargo or 40-50 pass	4 P & W R-2000-9-11	Same as R5D-2, except engine. AAF Mod. "C-54D". Ham. Std. Prop.
R5D-3Z "Skymaster"	Douglas Santa Monica 1944	6 Crew TM Land 22 Pass	4 P & W R-2000-9-11	R5D-3 converted to an administrative airplane. Ten berths.
R5D-4 "Skymaster"	Douglas Santa Monica 1945	6 Crew TM Land Cargo and 40 pass	4 P & W R-2000-11	Same as R5D-2, except fuselage fuel tanks eliminated and two fuel tanks installed in inboard wing. AAF Mod. "C-54E".
XR60-1	Lockheed "B" 1946	12 Crew TM Land Cargo or 168 pass	4 P & W R-4360-18	Supercharged cabin. Long range, Ham. Srd. Prop.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
RY-3 "Liberator"	ConVair San Diego 1944	4 Crew TM Land 28-36 pass or cargo	4 P & W R-1830-94	Single vertical tail version of "C-87" with seven ft. forward extension to fuselage. Non-turbo engines. AAF Mod. "C-87C". Ham. Std. Prop.

VR(ML) CLASS 2 ENGINE LANDPLANE TRANSPORT

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
R5C-1 "Commando"	Curtiss 1943	2 Crew TM Land Cargo or 40 pass	2 P & W R-2800-51	Curtiss "CW-20". Similar to AAF Mod. "C-46A". Curtiss Prop.
R5C-1Z	Curtiss 1943	2 Crew TM Land 40 pass	2 P & W	Administrative version of R5C-1.
R4D-3 "Skytrooper"	Douglas Santa Monica 1942	3 Crew TM Land 28 pass or cargo	2 P & W R-1830-92	Similar to Douglas "DC-3", AAF Mod. "C-53". Ham. Std. Prop.
R4D-4 "Skytrooper"	Douglas Santa Monica 1942	3 Crew TM Land 21 pass or cargo	2 P & W R-1830-92	Similar to R4D-1 and Douglas "DC-3". Ham. Std. Prop.
R4D-4Z "Skytrooper"	Douglas Santa Monica 1945	3 Crew TM Land 15-17 pass	2 P & W R-1830-92	Administrative version of R4D-4.
R4D-5 "Skytrain"	Douglas Long Beach 1943	3 Crew TM Land 28 pass or cargo	2 P & W R-1830-92	Similar to R4D-1 with 24-volt electrical system. AAF Mod. "C-47A".
R4D-5E	Douglas Long Beach 1943	3 Crew TM Land 28 pass	2 P & W R-1830-92	Trainer with nose & belly radomes & repeater scopes.
R4D-5R	Douglas Long Beach 1943	3 Crew TM Land 21 pass	2 P & W R-1830-92	R4D-5 converted to transport version.
R4D-5T	Douglas Long Beach 1943	3 Crew TM Land 28 pass	2 P & W R-1830-92	Radar trainer with repeater scope.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
R4D-5Z	Douglas 1943	3 Crew TM Land	2 P & W R-1830-92	Administrative version of R4D-5.
R4D-6 "Skytrain"	Douglas Long Beach 1943	3 Crew Cargo or 28 pass.	2 P & W R-1830-90C	Same as R4D-5 except engine AAF Mod. "C-47B". Ham. Std. Prop.
R4D-6E	Douglas Long Beach 1943	3 Crew TM Land 28 pass	2 P & W R-1830-92	Trainer with nose & belly radomes and repeater scopes.
R4D-6R	Douglas Long Beach 1943	3 Crew TM Land 21 pass	2 P & W R-1830-92	R4D-6 converted to transport.
R4D-6T	Douglas Long Beach 1943	3 Crew TM Land 28 pass	2 P & W R-1830-92	Radar trainer with repeater scope.
R4D-6Z "Skytrain"	Douglas Long Beach 1945	3 Crew TM Land 15-17 pass	2 P & W R-1830-90B	Administrative version of R4D-6.
R4D-7 "Skytrain"	Douglas Long Beach 1945	3 Crew TM Land 10 students	2 P & W R-1830-90B	R4D-6 modified as navigational trainer AAF Mod. "TC-47B".
R50-1 "Lodestar"	Lockheed "B" 1941	4 Crew TM Land 14 pass	2 Wright GR-1820-G- 102A	Similar to Lockheed "Lodestar 18-40". Also operated by Coast Guard. Ham. Std. Prop.
R50-3 "Lodestar"	Lockheed "B" 1941	4 Crew TM Land 4 pass	2 P & W R-1830-84A	Similar to Lockheed "Lodestar 18-10" executive model. Ham. Std. Prop.
R50-4 "Lodestar"	Lockheed "B" 1942	4 Crew TM Land 7 pass	2 Wright R-1820-40	Develop. of R50-3 and similar to Lockheed "18-56" executive model. Also operated by Coast Guard.
R50-5 "Lodestar"	Lockheed "B" 1942	4 Crew TM Land 12 pass	2 Wright R-1820-40	Lockheed "Model 18". AAF Mod. "C-60". 12-volt system. Ham. Std. Prop.
R50-6 "Lodestar"	Lockheed "B" 1944	3 Crew TM Land 18 pass	2 Wright R-1820-87	AN standardized version. Para- troop benches. Long range. 24- volt system. AAF Mod. "C-60A". Ham. Std. Prop.

VR(HS) CLASS 4 ENGINE SEAPLANE TRANSPORT

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
JRM-1 "Mars"	Martin 1945	11 Crew TM Boat 132 pass or cargo	4 Wright R-3350-8	Develop. of PB2M-1R. As hospital plane carries 84 litters and 21 pass. Curtiss Prop.
JRM-2 "Mars"	Martin 1946	11 Crew TM Boat 132 pass or cargo	4 P & W R-4360-4	Same as JRM-1, except engine. As hospital plane carries 84 litters and 21 pass. Curtiss Prop.

VU CLASS UTILITY

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
AE-1 "Grasshopper"	Piper 1942	1 Crew 1 litter	Lycoming O-235-	Ambulance high braced wing. Piper Cub "J-5C-A". Formerly "HE-1". Sensenich Prop.
JD-1 "Invader"	Douglas Long Beach 1945	3 Crew TM Land	2 P & W R-2800-27	Non-military stripped version of AAF Mod. "A-26" for target towing. Hamilton Std. Prop.
J2F-5 "Duck"	Grumman 1941	2 Crew TB Amphib.	Wright R-1820-50	Develop. of J2F-4. AAF Mod. "OA-12". Also operated by Coast Guard. Hamilton Std. Prop.
J2F-6 "Duck"	Columbia 1943	2 Crew TB Amphib.	Wright R-1820-54	Develop. of J2F-5 with 24 volt system. Ham. Std. Prop.
J4F-2 "Widgeon"	Grumman 1942	2 Crew TM Amphib. 3 pass	2 Ranger 6-440C-5	Grumman "G-44 Widgeon". Operated by Coast Guard.
XJL-1	Columbia 1946	2 Crew TB Amphib. 6 pass	Wright R-1820-76	Mid-wing boat; fixed auxiliary floats and folding wings. Ham. Std. Prop.
JM-1 "Marauder"	Martin 1943	3 Crew TM Land	2 P & W R-2800-43	Non-military stripped version of B-26C, target towing. AAF Mod. "AT-23B-MO". Curtiss Prop.
JM-2 "Marauder"	Martin 1944	3 Crew TM Land	2 P & W R-2800-43	Same as JM-1, except wing incidence increased and AN Std. fittings installed. AAF Mod. "B-26G".

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
JRB-1 "Expeditor"	Beech 1940	3 Crew TM Land	2 P & W R-985-50 or AN-4	Radio control. Low wing. Develop. of Beech "C-18S". Ham. Std. Prop.
JRB-2 "Expeditor"	Beech 1941	2 Crew TM Land 4 pass.	2 P & W R-985-50 or AN-4	Transport. Similar to Beech "C-18S". AAF Mod. "C-45A".
JRB-3 "Expeditor"	Beech 1944	2 Crew TM Land 3 pass.	2 P & W R-985-AN-4	Develop. of JRB-2. Similar to AAF Mod. "C-45B". Ham. Std. Prop.
JRB-4 "Expeditor"	Beech 1944	2 Crew TM Land 5 pass.	2 P & W R-985-AN-4	AAF Mod. "C-45F". Ham. Std. Prop.
JRB-4H	Beech 1942	3 Crew TM Land 2 pass. 2 Litters	2 P & W R-985-AN-1-3	Replaces SNB-2H. Hospital con- figuration.
JRB-5 "Expeditor"	Beech 1946	2 Crew TM Land 5 pass.	2 P & W R-985-AN-1	SNB-2 converted to transport con- figuration. Ham. Std. Prop.
JRB-6	Beech 1944	2 Crew TM Land 5 pass.	2 P & W R-985-AN-4	JRB-4 with modified fuselage and center section.
JRF-4 "Goose"	Grumman 1941	2 Crew TM Amphib. 4 pass.	2 P & W R-985-50	Amphibian flying boat. Develop. of Grumman "G-21 "A". Ham. Std. Prop.
JRF-5 "Goose"	Grumman 1941	2 Crew TM Amphib. 4 pass.	2 P & W R-985-AN-6	Similar to JRF-4. Photographic.
XJR2F-1	Grumman 1947	3 Crew TM Amphib. 14 pass.	2 Wright R-1820-76	High wing boat fixed wing floats.
TEW-3U "Avenger"	Gen. Motors 1945	3 Crew TM Land	Wright R-2600-20	Utility version of TEW-3E.
XUC-1	Culver 1946	2 Crew TM Land	Continental	Low wing Monoplane, tricycle landing gear. Culver Model "v".

VT CLASS

TRAINING

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
N3N-3	NAF 1940	2 Crew TB conv't	Wright R-780-2-8	Develop. of N3N-1, redesigned tail and landing gear controls.
XN5N-1	NAF 1940	2 Crew TM Land	Wright R-760-6	NAF experimental develop. Cantilevered low wing.
XNQ-1	Fairchild 1946	2 Crew TM Land	Lycoming XR-680-10	Retractable landing gear, low wing, semimonocoque construction.
N2S-5 "Kaydet"	Boeing Nichita 1943	2 Crew TB Land	Lycoming R-680-17	AN standardized primary trainer, AAF Mod. "PT-13D".
SNB-1 "Kansan"	Beech 1942	4 Crew TM Land	2 P & W R-985-AN-1-3	Twin engine - low wing, AAF. "AT-11". Hamilton Std. Prop.
SNB-2 "Navigator"	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1	Similar to SNB-1. AAF Mod. "AT-7".
SNB-2P	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1	Oblique-Photo-reconnaissance installation.
SNB-3 "Navigator"	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1-3	Improved SNB-2. AAF Mod. "AT-7C". Hamilton Std. Prop.
SNB-3E	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1-3	Special electronic gear.
SNB-3N	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1-3	Night fighter trainer.
SNB-3P	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1-3	Oblique-Photo-reconnaissance installation.
SNB-3Q	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1-3	Radar countermeasures version.
SNB-4 "Navigator"	Beech 1942	5 Crew TM Land	2 P & W R-985-AN-1-3	SNB-1 Modified. New fuselage & Center Section.
SNJ-4 "Texan"	Ho. American 1941	2 Crew TM Land	P & W R-1340-AN-1	Develop. of SNJ-3. AAF Mod. "AT-6C". (British "Harvard II A").

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
SNJ-4C "Texan"	No. American 1941	2 Crew TM Land	P & W R-1340-AN-1	Carrier version of SNJ-4.
SNJ-5 "Texan"	No. American 1943	2 Crew TM Land	P & W R-1340-AN-1	SNJ-4 with 24V elec. system. AAF Mod. "AT-6D". (British "Harvard IV").
SNJ-5C "Texan"	No. American 1943	2 Crew TM Land	P & W R-1340-AN-1	Carrier version of SNJ-5.
SNJ-6	No. American 1945	2 Crew TM Land	P & W R-1340-AN-1	SNJ-5 with strengthened wing panels and redesigned rear fuselage. AAF Mod. "AT-6F".
SNJ-6C "Texan"	No. American 1946	2 Crew TM Land	P & W R-1340-AN-1	Carrier version of SNJ-6.
XSN2J-1	No. American 1946	2 Crew TM Land	Wright R-1820-78	Intermediate trainer. Prov. for carrier landing and take-off.
XTE-1	Edo 1946	2 Crew TM conv't	Ranger V-770-8	Similar to XOSE-2 except armament and dual flight controls.

HEAVIER THAN AIR (ROTARY WING) HELICOPTERS

HO CLASS

OBSERVATION

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
XHOS-1	Sikorsky 1943	2 Crew Conv't	Lycoming O-435	Single-three-bladed rotor and auxiliary tail rotor. Sikorsky, "VS-316-1". AAF Mod. "XR-6".
HOS-1	Sikorsky 1944	2 Crew Conv't	Franklin O-405-9	Single three-bladed rotor and auxiliary tail rotors. AAF Mod. "R-6A".
HO3S-1	Sikorsky 1946	1 Crew & 3 pass. Land	P & W R-985-AN-5	Tricycle land gear. Single three-blade rotor and tail anti-torque rotor. Sikorsky "S-51".

HT CLASS**TRAINING**

MODEL	MANUFACTURERS	FEATURES	ENGINES	REMARKS
HNS-1 "Hoverfly"	Sikorsky 1943	2 Crew Conv't	Warner Super-Scarab R-550-1	Single three-bladed rotor and auxiliary tail rotor. Short range observation, AAF Mod. "YR-4B" or "R-4B". Also used by Coast Guard. Sikorsky "VS-316-A".
HTL-1	Bell 1947	2 Crew Land	Franklin O-335-1	AAF Mod. "YR-13" single two-bladed rotor with tail anti-torque rotor.
HTL-2	Bell 1947	2 Crew Conv't	Franklin O-335-3	Bell Mod. 47-D modified for training.

HR CLASS**TRANSPORT**

MODEL	MANUFACTURERS	FEATURES	ENGINES	REMARKS
XHRP-1	Piasecki 1946	2 Crew Land 2 pass.	P & W R-1340-AN-1	Two three-bladed rotors in tandem arrangement.
HRP-1	Piasecki 1947	2 Crew 8 pass. Land	P & W R-1340-AN-1	Develop. of XHRP-1

HU CLASS**UTILITY**

MODEL	MANUFACTURERS	FEATURES	ENGINES	REMARKS
XHJD-1	McDonnell 1947	2 Crew Conv't	2 P & W R-985-AN-14B	Two lateral three-bladed rotors. For flight test research and development.
XHP-1	Piasecki 1947	3 Crew Land	Continental R-975-34	Dual intermeshing three-bladed rotors. Carrier operation.
XHJS-1	Sikorsky 1947	3 Crew Land	Continental R-975-34	Single three-bladed rotor and auxiliary tail rotor. For carrier operation.

PILOTLESS AIRCRAFT

KD CLASS		AERIAL TARGET		
MODEL	MANUFACTURER	FEATURES	ENGINE	REMARKS
KD2C-1	Curtiss 1947	M Land	Continental 14" Pulse-jet	Low-wing, triple tail, all metal monoplane. For aircraft & anti-aircraft gunnery practice. Air launched.
KD2C-2	Curtiss 1948	M Land	McDonnell 14" pulse-jet	Same as KD2C-1, except engine.
XKDD-1	McDonnell 1945	M Land	McDonnell 8" pulse-jet	Mid-wing, "v" tail, all metal monoplane. No alighting gear. Parachute recovery. Formerly "XTD2D-1". Catapult or air launched.
EDD-1	McDonnell 1945	M Land	McDonnell 8" pulse-jet	Develop. of XKDD-1. Formerly "TD-1". Catapult or air launched.
KDG-1	Globe 1946	TM Land	McCulloch 4300	Mid-wing monoplane for aircraft & anti-aircraft gunnery. Parachute recovery. Lewis or Sensenich Prop. Catapult launched.
KDG-2	Globe 1947	TM Land	McCulloch 4300	Similar to KDG-1, except for 24V electrical system.
XKD2G-1	Globe 1946	M Land	McDonnell 8" pulse-jet	Similar to KDG-1, except engine & twin tail.
KD2G-1	Globe 1947	M Land	McDonnell 8" pulse-jet	Develop. of XKD2G-1. 28V electrical system.
KD3G-1	Globe 1946	TM Land	Kiekhaefer 0-45-35	Same as KDG-1 except for engine.
KD3G-2	Globe 1947	TM Land	Kiekhaefer 0-45-35	Same as KD3G-1 with AN/ARW-26Y radio control receiver 28V.
KDN-1	NADS 1945	M	Westinghouse 9.5A Turbo-jet	High wing all metal conventional monoplane. Inverted twin tail, air launched.
KD2N-1	NADS 1946	M	14" Pulse-jet	High wing all metal monoplane. Canard design. Air launched.

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
KR-1	Radioplane 1946	TM	Kiekhaefer O-45-35	High-wing, plywood monocoque air-frame. Parachute recovery. No alighting gear. AAF "QQ-17". Formerly XTD4D-1".
KR-2	Radioplane 1947	TM	Kiekhaefer O-45-35	Similar to KDR-1 except structural changes.
KDR-1	Radioplane 1946	TM	McCulloch O-90-2	Wood wings, metal monocoque fuselage. Catapult. Parachute recovery.
KDR-2	Radioplane 1947	TM	McCulloch O-90-2	Similar to KDR-1 except 28V radio & stabilized.
TDD-3	Radioplane 1944	TM	Kiekhaefer O-45-1	Similar to TDD-2 and AAF Mod. "QQ-14". Anti-aircraft and aircraft gunnery.
TDD-4	Radioplane 1946	TM	Kiekhaefer O-45-35	Same as TDD-3 except for engine.
TDC-1	Culver 1944	1 Crew TM Land	Franklin 6ACT-298-J5	Target drone for anti-aircraft and aircraft gunnery practice AAF Mod. "PQ-14". Sensenich Prop.
TR-1	Interstate 1943	1 Crew TM Land	2 Lycoming O-435-12	Torpedo carrying remote-controlled assault drone used for target practice. Catapult.
F6F-1E	Grumman 1945	1 Crew TM Land	P & W R-2800-10W	F6F-3 modified for target drone. Carrier-catapult.
F6F-5E	Grumman 1945	1 Crew TM Land	P & W R-2800-10W	F6F-5 modified for target drone. Carrier-catapult.
FLU-4	Chance Vought- 1947 NADS	TM Land	P & W R-2800-18W	FLU-4 modified for target drone. Carrier-catapult.
FG-1D	Goodyear-NADS 1947	TM Land	P & W R-2800-8W	FG-1D modified for target drone. Carrier-catapult.

GUIDED MISSILES (M) TEST VEHICLE (TV)

C CLASS			CONTROL GUIDANCE	
MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
CTV-2 "Gorgon IIC"	NADS 1945	M	14" NEES Pulse-jet	High wing monoplane canard design. Formerly KGN-1 & KUN-1.
CTV-4 "Gorgon IIA"	NADS 1945	M	Reaction CML2N-5	High mid-wing monoplane. Conventional design. Formerly KA2N-1 & KU2N-1
CTV-6 "Gorgon IIIA"	NADS 1946	M	Reaction CML2N-6-7	High mid-wing monoplane. Conventional design. Formerly KA3N-1 & KU3N-1.

L CLASS			LAUNCHING	
MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
LTV-2 "Loon"	Willys-Overland 1945	M	Ford PJ-31 Pulse-jet	Similar to German "V-1". AAF Model LTV-1. Formerly KGW-1 & KUW-1.

P CLASS			PROPULSION	
MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
PTV-2 "Gorgon IV"	Martin 1947	M	Marquardt C-20-85C	High swept monoplane wing (for testing subsonic ram jet engine).

R CLASS			RESEARCH	
MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
RTV-2 "Gargoyle"	McDonnell 1945	M	Aerojet JATO 8-AS-1000E	Low wing monoplane Vee tail. Formerly LBD-1, KSD-1 & KUD-1.
RTV-4 "Gorgon IIIC"	NADS 1946	M	Reaction CML3N-1	Similar to CTV-6. All wood construction. Dual Rocket Motors. Formerly KA3N-2 & KU3N-2.

ZP CLASS LIGHTER-THAN-AIR AIRSHIPS PATROL & ESCORT

MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
ZPK	Goodyear 1942-45	10 Crew 456,000 cu.ft.	2 P & W R-1340-AN-2	Also usable for search-rescue, utility & training.
ZP2K	Goodyear 1943-45	10 Crew 456,000 cu.ft.	2 P & W R-1340-AN-2	ZPK with modernized electronics, instruments, etc.
XZPM	Goodyear 1944	14 Crew 425,000 cu.ft.	2 P & W R-1340-AN-2	Long range patrol.
ZPM	Goodyear 1944-45	14 Crew 725,000 cu.ft.	2 P & W R-1340-AN-2	Prod. version of XZPM.

ZT CLASS			TRAINING	
MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS
ZTG	Goodyear 1943	6 Crew 2000,000 cu.ft.	2 Continental R-670-4	
XZTL	Goodyear 1942	4 Crew 123,000 cu.ft.	2 Warner R-500	Experimental envelope of synthetic fabric.

ZT CLASS			FREE BALLOON		TRAINING
MODEL	MANUFACTURERS	FEATURES	ENGINE	REMARKS	
ZTF	Goodyear	4-6 Crew 19000-35000 cu.ft.	None		

AIRCRAFT COMMON TO NAVY AND AIR FORCES

NAVAER 00-25Q-13

The following aircraft are common to the Navy and the Air Forces. Designations used by both Services are shown below.

<u>NAVY</u>	<u>AIR FORCES</u>	<u>POPULAR NAME</u>	<u>MANUFACTURER</u>
<u>Class VA Attack</u>			
AV8C-5	A-25	Helldiver	Curtiss
<u>Class VP(EL) Patrol (Four Engine Landplane)</u>			
VP-1	B-24	Liberator	ConVair
VP-11	B-17G	Fortress	Boeing
<u>Class VP(ML) Patrol (Two Engine Landplane)</u>			
VP-1 G.J.	B-25 G.J.	Mitchell	North American
<u>Class VP(S) Patrol (Two Engine Seaplane)</u>			
VP-1A-6A	OA-10, -10B	Catalina	ConVair
<u>Class VO Observation</u>			
VO-1	L-5	Sentinel	ConVair
<u>Class VT(EL) Transport (Four Engine Landplane)</u>			
VT-1	C-87C	Liberator	ConVair
VT-1, -2, -3, -4	C-54A, B, D, E.	Skymaster	Douglas
<u>Class VT(ML) Transport (Two Engine Landplane)</u>			
VT-1	C-46A, -46E	Commando	Curtiss
VT-1, -2, -6	C-47, -47A, -47B	Skytrain	Douglas
VT-2, 3, 4, 5, 6, 7	C-49, C-53	Skytrooper	Douglas
VT-7	TC-47B	Skytrain	Douglas
VT-1, -2, -4, -5, -6	C-59, -60-60A	Lodestar	Lockheed
<u>Class VO Utility</u>			
VO-1	L-4	Grasshopper	Piper
VO-1 -2	L-4A, -4J	Grasshopper	Piper
VO-3	A-26	Invader	Douglas
VO-4, -6	OA-12	Duck	Grumman
VO-1-2	B-26C	Marauder	Martin
VO-1, -2, -4, -5, -6	UC-45A, -45B, -45F	Expeditor	Beech
<u>Class VT Training</u>			
VT-1	PT-13D	Kaydet	Boeing(Wichita)
VT-1	AT-11	Kansan	Beech
VT-1, 2, 11, -12	AT-7-7C	Navigator	Beech
VT-1, -2, -6	AT-6C, -6D, -6F	Texan	North American
<u>Class HO and HO, HT Helicopters</u>			
HO-1	R-4B, or YR-4B	Hoverfly	Sikorsky
HO-1	XR-6		Sikorsky

SH-3AY

NAVAER 00-250-13

<u>NAVY</u>	<u>AIR FORCES</u>	<u>POPULAR NAME</u>	<u>MANUFACTURER</u>
HOS-1	R-6A	-	Sikorsky
HTL-1	YR-13	-	Bell
<u>Class KD Aerial Targets (Pilotless)</u>			
KDR-1-2	OQ-17	-	Radioplane
KDZR-1-2	OQ-19	-	Radioplane
TDD-3,-4	OQ-3,-4	-	Radioplane
TD2C-1	PQ-14	-	Culver
<u>Class L Guided Missile - Test Vehicle</u>			
LTV-2	LTV-1	Loon	Willys-Overland

21. The foregoing list of model designations for Naval Aircraft is issued for the information of all activities of the United States Navy concerned with Naval aircraft.

A. M. Pride
Rear Admiral, U.S.N.
Chief of Bureau of Aeronautics