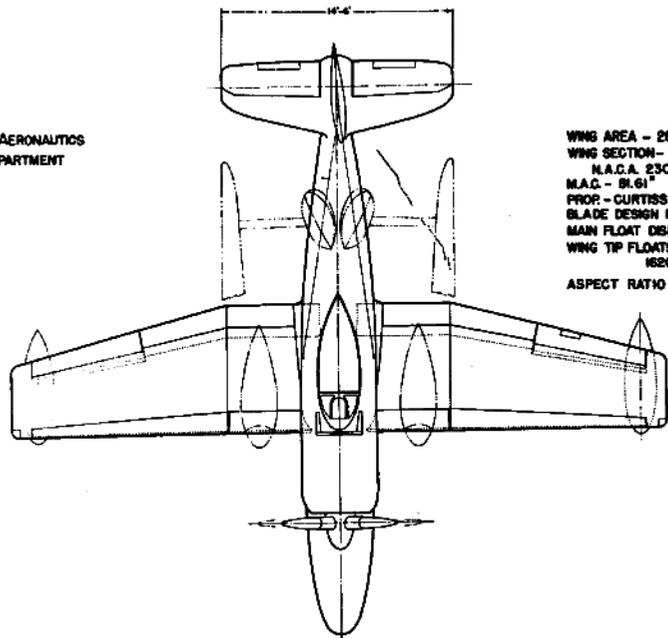
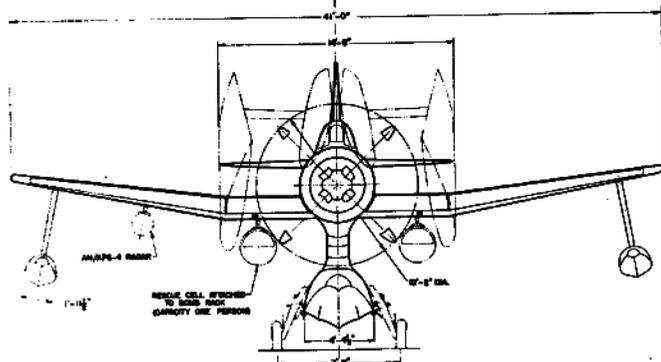


STANDARD AIRCRAFT CHARACTERISTICS
SC-2 "SEAHAWK"

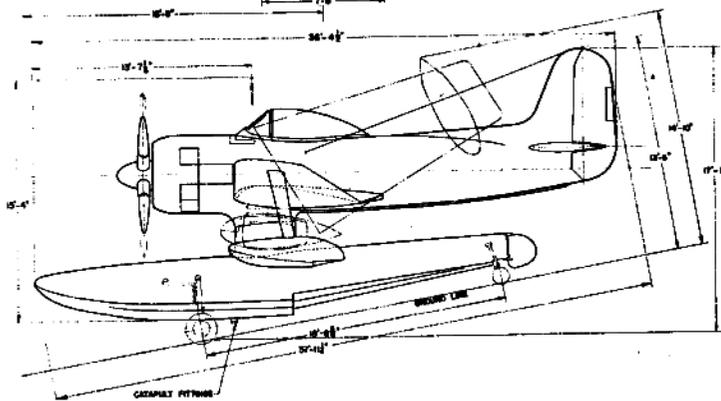
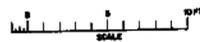
BUREAU OF AERONAUTICS
NAVY DEPARTMENT



WING AREA - 292 SQ. FT.
WING SECTION -
N.A.C.A. 23017 - 23010
M.A.C. - 91.61"
PROP - CURTISS ELECT.
BLADE DESIGN NO - 029-102-12
MAIN FLOAT DISP - 13650 LBS.
WING TIP FLOATS DISP -
1620 LBS. (TOTAL)
ASPECT RATIO 6.0



REAR CELL ATTACHED
TO BODY SIDE
CARRY ONE PERSON



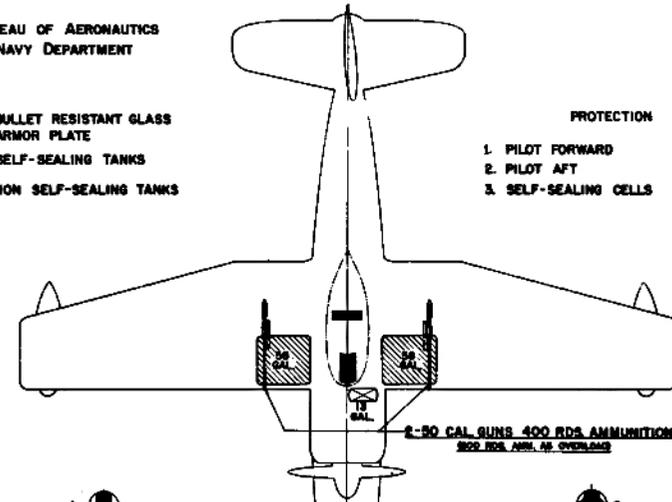
DESCRIPTIVE ARRANGEMENT

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

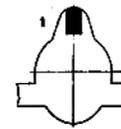
- BULLET RESISTANT GLASS ARMOR PLATE
- ▨ SELF-SEALING TANKS
- ⊠ NON SELF-SEALING TANKS

PROTECTION

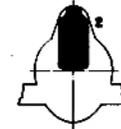
- | | |
|-----------------------|----------|
| 1. PILOT FORWARD | 335 LBS. |
| 2. PILOT AFT | 101 LBS. |
| 3. SELF-SEALING CELLS | 142 LBS. |



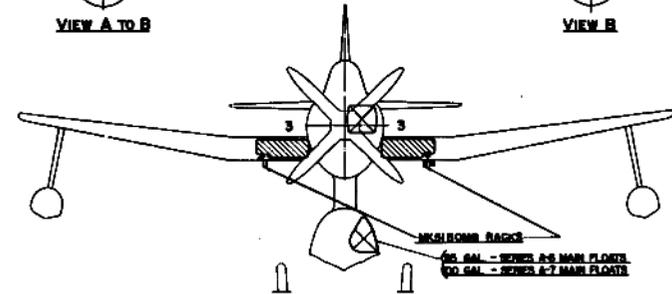
2-30 CAL GUNS - 400 RDS AMMUNITION
200 RDS AMM. IN OVERLOAD



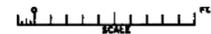
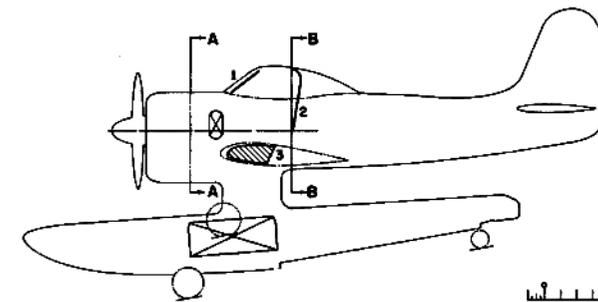
VIEW A TO B



VIEW B



40 GAL - SERIES 2'S MAIN FLOAT
100 GAL - SERIES 2-7 MAIN FLOAT



ARMAMENT & TANKS

MISSION AND DESCRIPTION

Battleship - Cruiser based Scout and rescue airplane.

The SC-2 is a single float seaplane designed for catapulting from battleships and cruisers. It is a rugged seaplane, designed especially for rough water operations. It is equipped with wing slats to reduce landing speeds and the wings fold to permit stowage below deck.

WEIGHTS

Loadings	Lbs.	L.F.
EMPTY.....	6451.....	
BASIC.....	6924.....	
DESIGN.....	7352.....	6.0
MAX.T.O.		
Sea.....	8750.....	5.0
Land.....	9200.....	4.8
Catapult.....	9200.....	4.8
(sea)		
MAX. LAND....		
Sea.....	8750.....	
Land.....	8450.....	

All weights are actual.

FUEL AND OIL

Gal.	No. Tanks	Location
116	2	Wing (Protect.)
100	1	Float (drop)

FUEL GRADE.....100/130
FUEL SPEC.....AN-F-48

OIL

CAPACITY (gals.).....13
SPEC.....AN-O-8
GRADE.....1120

DIMENSIONS

Crew.....1
Rescue cells; one under each
wing on bomb rack

SPAN.....41'-0"
LENGTH.....36'-5"
HEIGHT.....13'-6"
WING AREA.....282 sq. ft.
M.A.C.....81.6"

Note: Height is for airplane
on beaching gear.

ELECTRONICS

MHF LIAISON.....AN/ARC-5
10 CHAN. VHF CD.....AN/ARC-1
HOMING.....AN/ARR-2
IFF.....AN/APX-2
SEARCH.....AN/APS-4

POWER PLANT

NO. & MODEL.....(1) R-1820-76
MFG.....WAC
SUPERCH.....1 Stage, 2 Speed
PROP.GEAR RATIO.....3:2
PROP. MFG.....Curtiss
PROP. DES. NO.....528-132-12
NO. BL/DIA.....4/10'-2"

RATINGS

	BHP	RPM	ALT
T.O.	1425	2700	S.L.
MIL.	1425	2700	1000'
	1100	2600	11600'
NORMAL	1275	2500	3000'
	975	2500	14700'

SPEC. N-826

ORDNANCE

No.	Type	GUNS		Rds.
		Location		
2	.50 cal.	Wing		400

SIGHT
MK. 8 Illuminated Sight

Type	Size	BOMBS		No.
		Location		
Bomb	250#	Wing		2
D.B.	325#	Wing		2
on 2 MK. 51 Bomb Racks				

ROCKETS
4 - 5" HVAR on 4-MK. 9 Rocket
Launchers



PERFORMANCE SUMMARY			
LOADING CONDITION		(1) SCOUT (RESCUE)	
TAKE-OFF WEIGHT	lbs	8638	
Fuel	lbs	1296	
Bombs	lbs		
	lbs		
Wing/Power Loading (A)	lbs/so.ft.lbs/ bhp	30.6/8.9	
Stall Speed--Power off	kn	66.9	
Stall Speed--Power off - No Fuel	kn	61.7	
Stall Speed--Power on	kn	64.0	
Maximum Speed/Alt (B)	kn/ft	222/19800	
Take-off Distance, deck -- calm	ft		
Take-off Distance, deck	kn. ft		
Take-off Time	secs.	16	
Rate of climb -- sea level (B)	ft/min	2350	
Service Ceiling	(B) ft	27500	
Time-to-climb 10000 ft. (B)	min	4.8	
Time-to-climb 20000 ft. (B)	min	11.5	
Combat Range/V av 1500	ft. n.mi/kn	730/111	
Combat Radius/V av 1500	ft. n.mi/kn	290/111	
LOADING CONDITION		(2) COMBAT	
GROSS WEIGHT	lbs	8038	
Engine power		Military	
Fuel	lbs	696	
Bombs/Tanks			
Max. speed at sea level	kn	211	
Max. speed 17400 ft.	kn	227	
Combat speed/Alt.	kn/ft	213/1500	
Rate of climb SL	ft/min	2880	
Ceiling for 500 fpm R/C	ft	25000	
Time-to-climb/Alt.	min/ft	9.6/20000	

NOTES

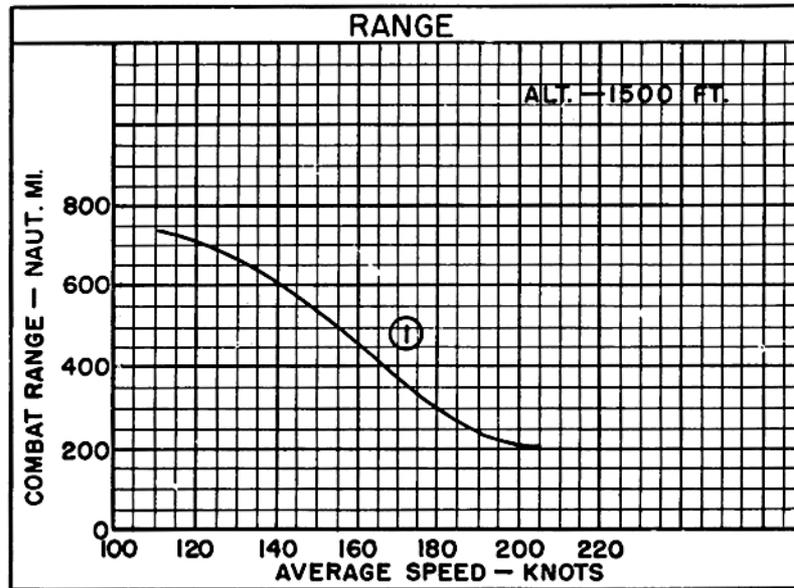
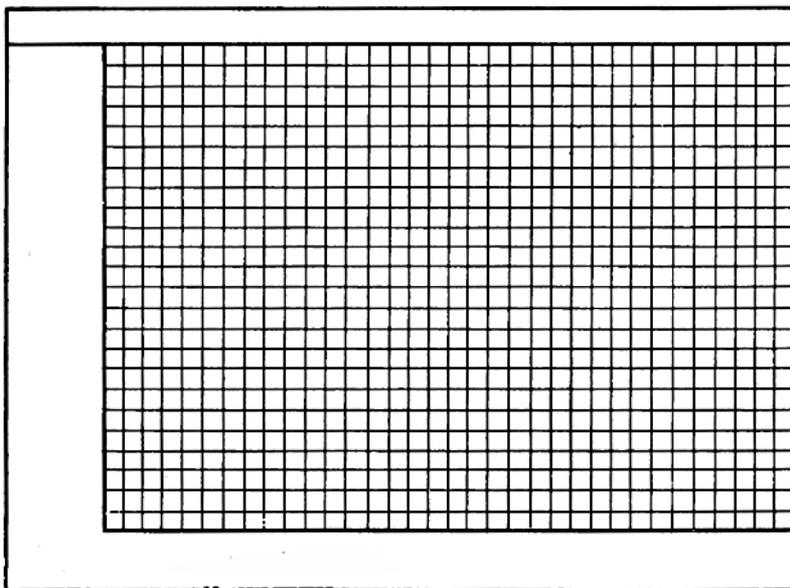
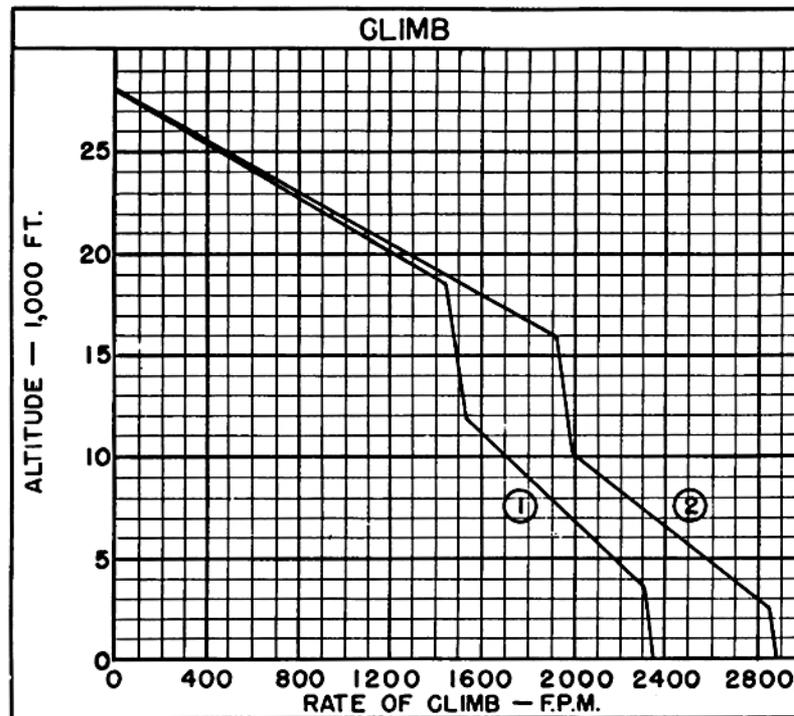
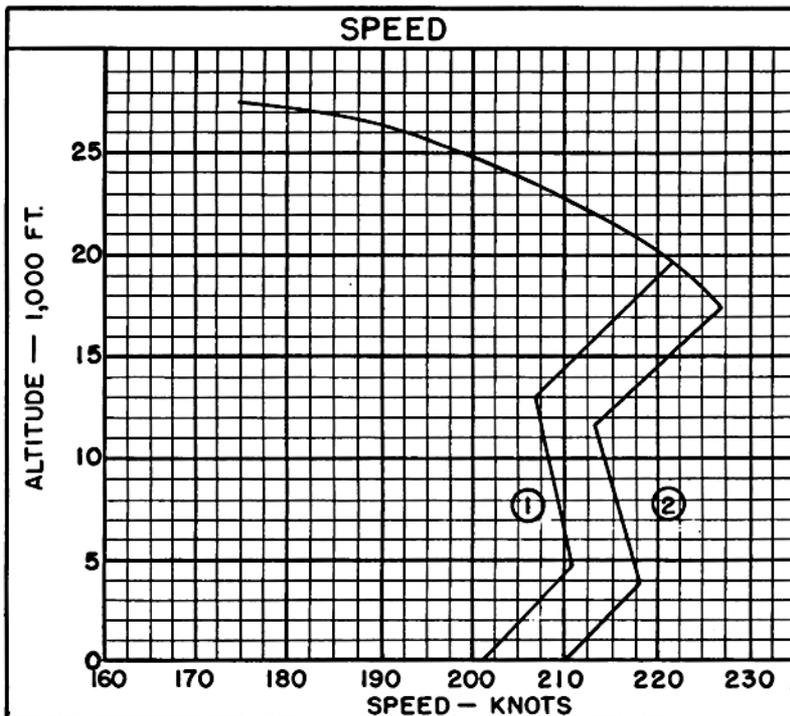
(A) BHP at Maximum Critical Altitude

(B) Normal BHP

Performance is based on flight test of the SC-1 airplane. Range and radius are based on engine specification fuel consumption data increased by 5%.

 AN/APS-4 radar (not droppable) on special fitting carried in all conditions.

Notes continued on last page.



○ LOADING CONDITION COLUMN NUMBER

NOTES

Two wing bomb-racks aboard in all conditions. Sway bracing installed only when external stores are carried.

Air-Sea rescue provisions (ladder and 1 man bunk inside fuselage aft of pilot) carried in all conditions.

Combat radius is .4 of maximum combat range at 1500 ft.