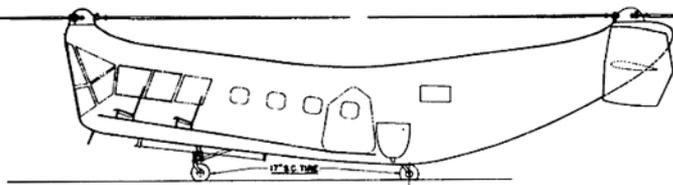
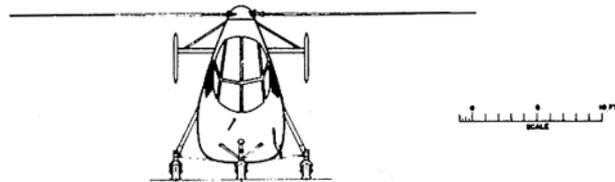
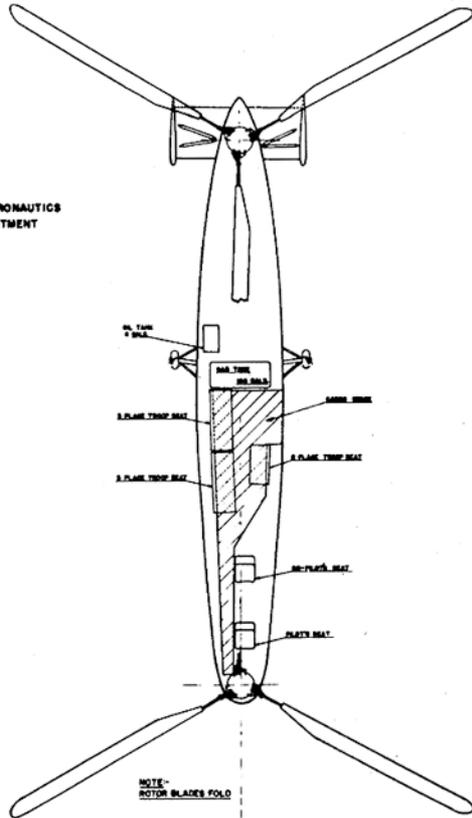




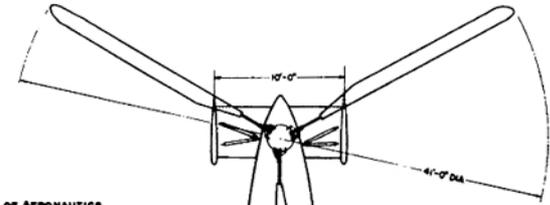
STANDARD AIRCRAFT CHARACTERISTICS
HRP-1 "RESCUER"

PIASECKI

BUREAU OF AERONAUTICS
NAVY DEPARTMENT



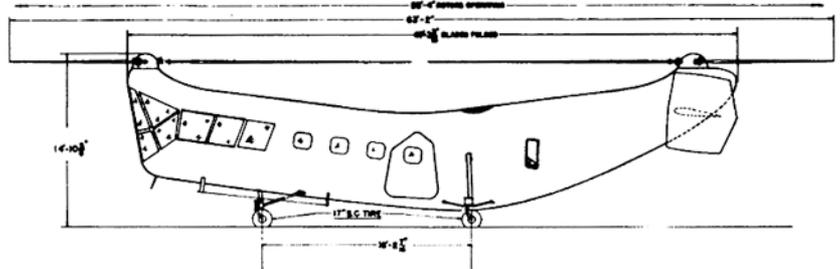
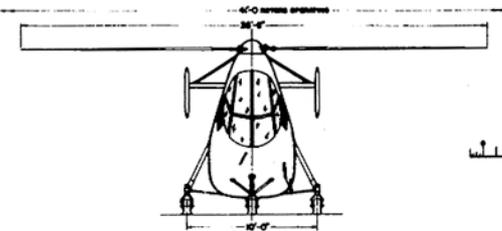
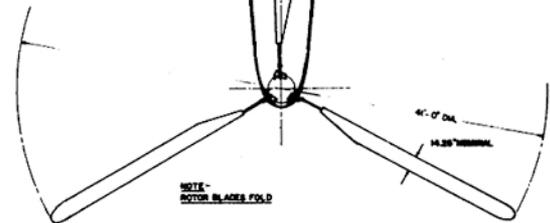
BUREAU OF AERONAUTICS
NAVY DEPARTMENT



DISC AREA - 8040 SQ. FT. (100%)
BLADE AREA - 100 SQ. FT. (100%)

BLADE	NO.	AREA	PERCENT	NO.	AREA	PERCENT
1	1	100	100	2	100	100
3	1	100	100	4	100	100
5	1	100	100	6	100	100
7	1	100	100	8	100	100
9	1	100	100	10	100	100
11	1	100	100	12	100	100
13	1	100	100	14	100	100
15	1	100	100	16	100	100
17	1	100	100	18	100	100
19	1	100	100	20	100	100
21	1	100	100	22	100	100
23	1	100	100	24	100	100
25	1	100	100	26	100	100
27	1	100	100	28	100	100
29	1	100	100	30	100	100
31	1	100	100	32	100	100
33	1	100	100	34	100	100
35	1	100	100	36	100	100
37	1	100	100	38	100	100
39	1	100	100	40	100	100
41	1	100	100	42	100	100
43	1	100	100	44	100	100
45	1	100	100	46	100	100
47	1	100	100	48	100	100
49	1	100	100	50	100	100
51	1	100	100	52	100	100
53	1	100	100	54	100	100
55	1	100	100	56	100	100
57	1	100	100	58	100	100
59	1	100	100	60	100	100
61	1	100	100	62	100	100
63	1	100	100	64	100	100
65	1	100	100	66	100	100
67	1	100	100	68	100	100
69	1	100	100	70	100	100
71	1	100	100	72	100	100
73	1	100	100	74	100	100
75	1	100	100	76	100	100
77	1	100	100	78	100	100
79	1	100	100	80	100	100
81	1	100	100	82	100	100
83	1	100	100	84	100	100
85	1	100	100	86	100	100
87	1	100	100	88	100	100
89	1	100	100	90	100	100
91	1	100	100	92	100	100
93	1	100	100	94	100	100
95	1	100	100	96	100	100
97	1	100	100	98	100	100
99	1	100	100	100	100	100

GEAR RATIO 9.00 TO 1



DESCRIPTIVE ARRANGEMENT

MISSION AND DESCRIPTION

The HRP-1 helicopter is designed to perform cargo and passenger carrying missions. Rescue missions may be performed over water or inaccessible landing areas by means of a rescue hoist. Conversion to a transport for wounded personnel can be effected by the installation of six litters.

Dual controls are fitted. Folding seats for eight passengers are installed in the cargo compartment.

First flight -- experimental helicopter --
March 1947
First flight -- production helicopter --
September 1947
Entered service in December 1947

WEIGHTS

Loadings	Lbs.	L.F.
EMPTY.....	5,193.....	
BASIC.....	5,283.....	
DESIGN.....	6,900.....	2.75
MAX.T.O.....	6,900.....	2.75
MAX.LAND.....	6,900.....	

All weights are actual.

POWER PLANT

NO. & MODEL....(1) R-1340-AN-1
MFR.....Pratt and Whitney
SUPERCH.....1 stage, 1 speed
ROTOR GEAR RATIO.....0.111

RATINGS

	Bhp @	Rpm @	Alt.
T. O.	600	2,250	S. L.- 3,000'
NORMAL	550	2,200	5,000'

SPEC. NO. AN-1051

FUEL AND OIL

Gal.	No.	Tanks	Location
100	1		Fuselage
FUEL GRADE.....91/98			
FUEL SPEC....MIL-F-5572			

OIL

CAPACITY (Gals.).....	8
GRADE.....	1100/1120
SPEC.....	MIL-O-6082

ACCOMMODATIONS

CREW.....2
PASSENGERS.....8
LITTERS.....6
HOIST CAPACITY.....400 lbs.
FLOOR AREA.....45 sq. ft.
MAX. LOAD.....64 lbs./sq. ft.
DOOR SIZE.....5' x 3' -8"

DIMENSIONS

DISC AREA.....	2,640 sq. ft.
BLADE DIA.....	41' - 0"
LENGTH.....	83' - 4"
HEIGHT.....	14' - 11"
TREAD.....	10' - 0"
BLADE AREA.....	135 sq. ft.

ELECTRONICS

VHF TRANSCEIVER.....AN/ARC-1
RANGE RECEIVER.....AN/ARC-5

Standard Aircraft Characteristics NAVAER 1335C (REV. 1-49)



PERFORMANCE SUMMARY

LOADING CONDITION	(1) UTILITY			
TAKE-OFF WEIGHT	lbs.	6,900		
Fuel	lbs.	600		
Pay Load	lbs.	557		
Engine Power (Normal Rated)	bhp/rpm.	550/2,200		
Disc Loading	lbs./sq.ft.	2.61		
Power Loading	(A) lbs./bhp.	12.6		
Maximum Speed-S.L.	(B) kn.	83		
Maximum Speed/Alt.	(B) kn./ft.	86/5,000		
Rate of Climb-S.L.	(B) ft./min.	650		
Speed for Rate of Climb-S.L.	(B) kn.	47		
Time-to-Climb 5,000 ft.	(B) min.	8.7		
Time-to-Climb -- ft.	(B) min.	--		
Service Ceiling	(B) ft.	8,500		
Vertical Rate of Climb-S.L.(B/C)	ft./min.	220/530		
Abs. Hover Ceil. No Grd. Effect (B/C)	ft.	5,400/5,600		
Abs. Hover Ceil. In Grd. Effect (B/C)	ft.	6,900/7,100		
Combat Range/Vav 1,500 ft.	n.mi./kn.	120/64		
Max. Endur./Vav 1,500 ft.	hr./kn.	2.2/46		

NOTES

- (A) BHP at Maximum Critical Altitude
 (B) Normal BHP
 (C) Take-Off Power

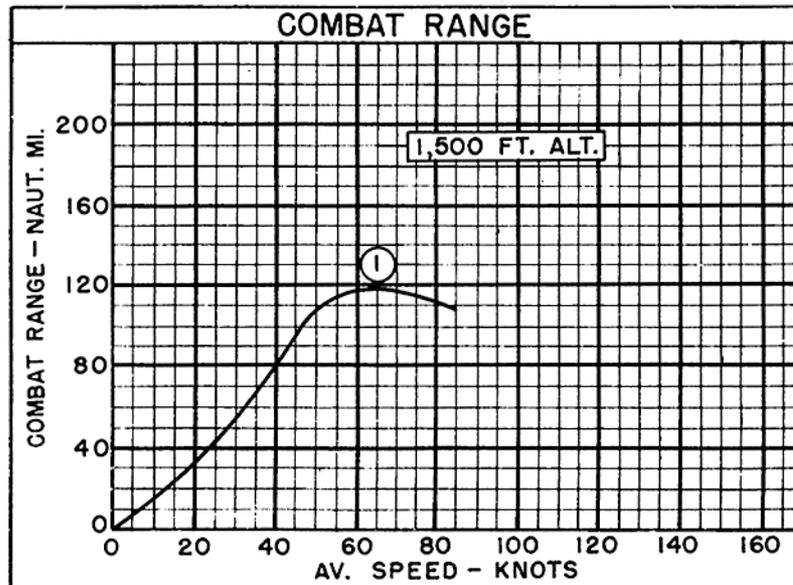
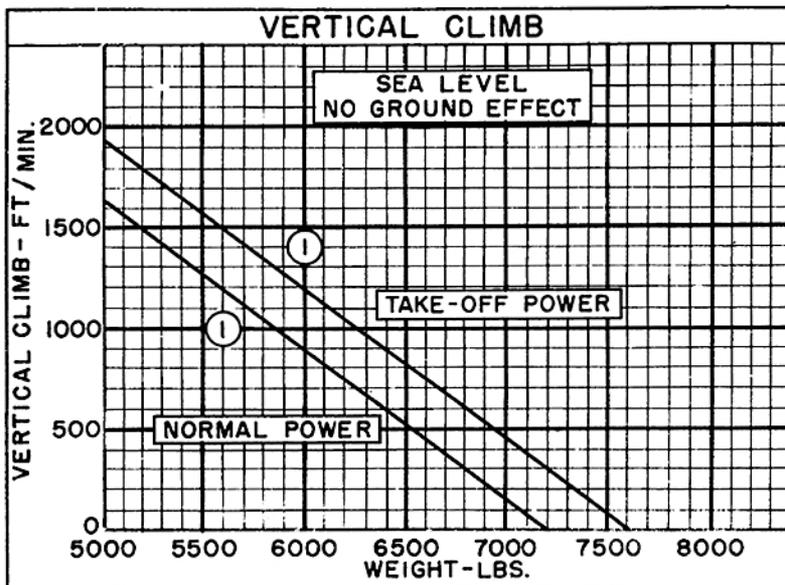
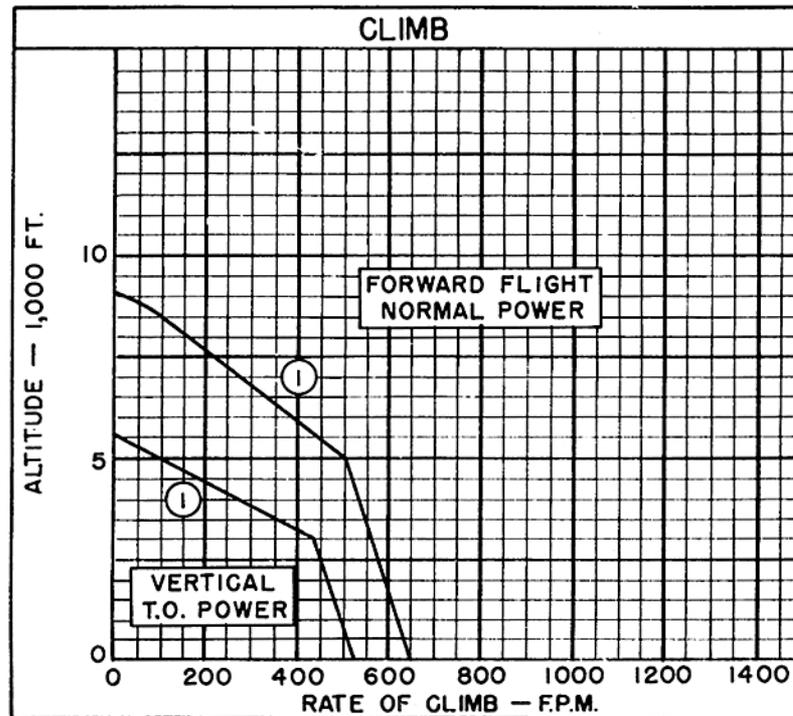
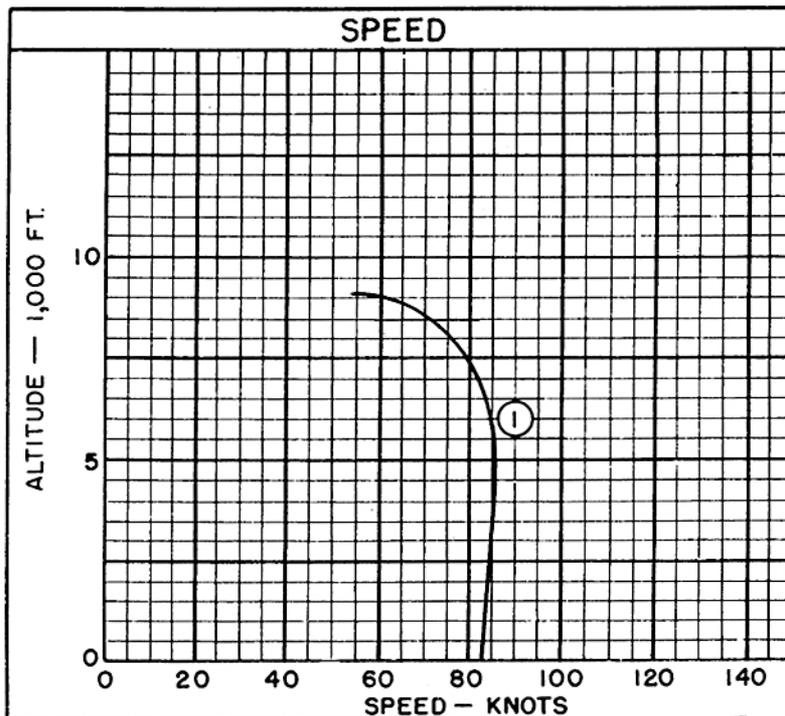
Performance is based on flight test of XHRP-1, HRP-1, and HRP-2 helicopters.

Combat range and maximum endurance are based on 2,000 RPM, full rich mixture, and flight test fuel consumption data increased by 5%.

Performance in ground effect is based on the assumption that height of rotor discs is equivalent radius above ground (equivalent radius = 29.0 feet for HRP-1)

This chart supersedes previously issued chart dated 15 December 1948. Reason for reissue: Flight test data available.

Standard Aircraft Characteristics NAVAER 1335E (REV. 2-50)



○ LOADING CONDITION COLUMN NUMBER