

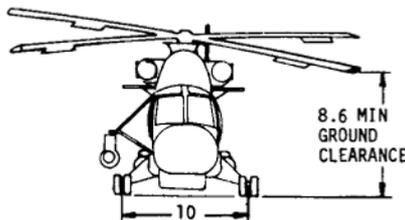


# STANDARD AIRCRAFT CHARACTERISTICS

## SH-2F "SEASPRITE"

KAMAN

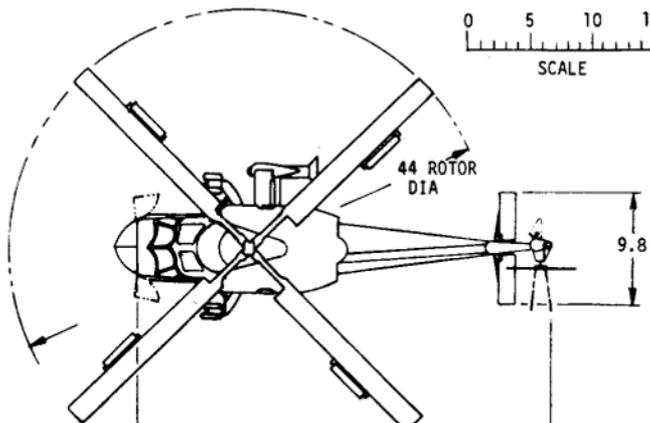
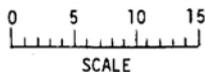
NAVAL AIR SYSTEMS COMMAND  
NAVY DEPARTMENT



**MAIN ROTOR**

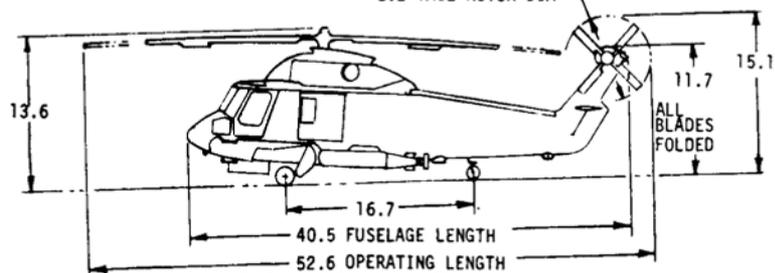
DISC AREA 1520.5 SQ. FT.  
BLADE AREA 161.9 SQ. FT.  
AIRFOIL SECTION NACA 23012 MOD  
ENGINE/ROTOR GEAR RATIO 67.4:1

8.6 MIN  
GROUND  
CLEARANCE



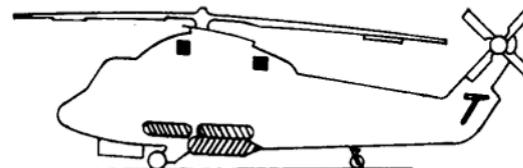
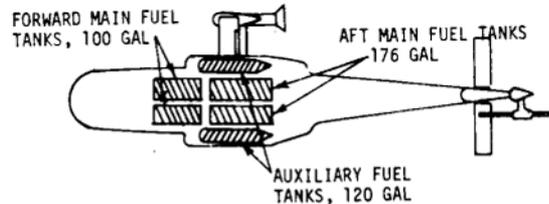
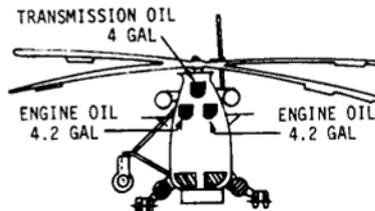
38.3 FOLDED LENGTH

8.2 TAIL ROTOR DIA

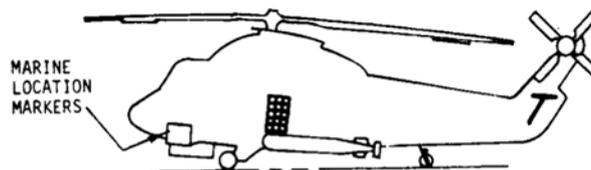
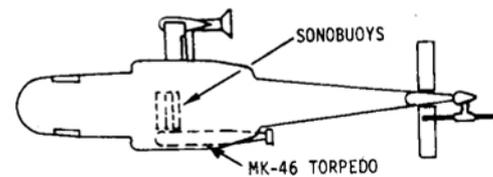


**DESCRIPTIVE ARRANGEMENT**

NAVAL AIR SYSTEMS COMMAND  
NAVY DEPARTMENT



**TANKAGE**  
ASMD CONFIGURATION



**ARMAMENT**  
ASW CONFIGURATION

POWER PLANT	MISSION AND DESCRIPTION	WEIGHTS																																																												
<p>NO. &amp; MODEL . . . . . (2) T58-GE-8F MFR . . . . . GENERAL ELECTRIC</p> <p><u>GEAR REDUCTION RATIOS</u></p> <p>ENGINE SPEED DECREASER . . . . . 0.31 MAIN ROTOR . . . . . 0.048 TAIL ROTOR . . . . . 0.28</p> <p><b>RATINGS</b></p> <table border="1"> <thead> <tr> <th></th> <th>SHP</th> <th>RPM</th> <th>ALT</th> </tr> </thead> <tbody> <tr> <td>MIL</td> <td>1350</td> <td>19500</td> <td>S.S.L.</td> </tr> <tr> <td>NORM</td> <td>1150</td> <td>19500</td> <td>S.S.L.</td> </tr> </tbody> </table> <p>G.E. ENGINE SPEC. NO. E1152 JULY 14, 1968</p>		SHP	RPM	ALT	MIL	1350	19500	S.S.L.	NORM	1150	19500	S.S.L.	<p>THE PRIMARY MISSIONS OF THIS HELICOPTER ARE ANTI-SUBMARINE WARFARE (ASW) AND ANTI-SHIP MISSILE DEFENSE (ASMD). IN ASW, THE HELICOPTER WILL REDETECT TARGETS INITIALLY CONTACTED BY ANOTHER SOURCE (SUCH AS SHIP'S SONAR), LOCALIZE AND CLASSIFY THE TARGET, AND ATTACK, IF NECESSARY. IN ASMD, THE HELICOPTER WILL DETECT THE THREAT OF AN ANTI-SHIP MISSILE AND/OR ITS LAUNCH PLATFORM, CLASSIFY THE THREAT, PROVIDE EARLY WARNING TO THE THREATENED FORCE, AND LOCALIZE THE THREAT FOR POSSIBLE ATTACK BY OWN FORCES.</p> <p>THIS HELICOPTER IS ALSO TO ACCOMPLISH GENERAL UTILITY TASKS, WHICH INCLUDE SEARCH AND RESCUE MISSIONS, GUN FIRE OBSERVATION, RECONNAISSANCE, VERTICAL REPLENISHMENT, EMERGENCY SUPPLY AND RE-SUPPLY, PERSONNEL TRANSFER, EVACUATION OF WOUNDED, COURIER SERVICES, PLANE GUARD FOR CARRIER AIRCRAFT OPERATIONS, AND TACTICAL AIR CONTROLLER OPERATIONS.</p>	<table border="1"> <thead> <tr> <th>LOADING</th> <th>LBS</th> <th>L.F.</th> </tr> </thead> <tbody> <tr> <td>EMPTY (A)</td> <td>8652</td> <td></td> </tr> <tr> <td>BASIC</td> <td>8770</td> <td></td> </tr> <tr> <td>COMBAT</td> <td>9704</td> <td>2.7</td> </tr> <tr> <td>MAXIMUM</td> <td>12800</td> <td>2.0</td> </tr> </tbody> </table> <p>NOTES: (A) = ACTUAL WITH LAMPS EQUIPMENT</p>	LOADING	LBS	L.F.	EMPTY (A)	8652		BASIC	8770		COMBAT	9704	2.7	MAXIMUM	12800	2.0																																	
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<p><b>ELECTRONICS</b></p>	<p>THE HELICOPTER SHALL BE CAPABLE OF OPERATION FROM CARRIERS, CRUISERS, DESTROYERS, AND FROM A WIDE VARIETY OF OTHER NAVAL AND MERCHANT SHIPS EQUIPPED WITH SUITABLE LANDING PLATFORMS AND FACILITIES, AND FROM AIRFIELDS AND UNPREPARED FIELDS.</p>	<p><b>FUEL AND OIL</b></p>																																																												
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## PERFORMANCE SUMMARY

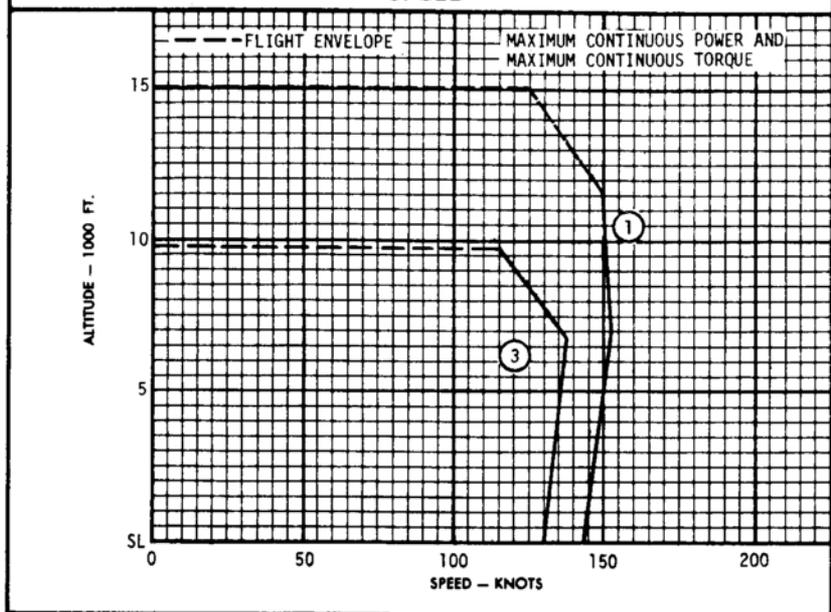
TAKE-OFF LOADING CONDITION		① UTILITY	② ASW	③ ASMD	④ RESCUE	⑤ CARGO	⑥ FERRY	
TAKE-OFF WEIGHT	LB.	10455 (F)	12577	12201	12401	12800 (F)	12041	
FUEL INTERNAL/EXTERNAL (JP-5)	LB.	1877/-	1536/408	1877/816	1877/816	739	1877/816	
PAYLOAD	(A) LB.	-	999	-	400/1600	3483	-	
DISC LOADING	LB./SQ.FT.	6.9	8.3	8.0	8.2	8.4	7.9	
VERTICAL RATE OF CLIMB AT S.L. (B)	FPM.	2500	1180	1410	1290	1030	1520	
ABSOLUTE HOVERING CEILING (OGE) (C)	FT.	14700	8700	9600	9100	8100	10100	
MAX. RATE OF CLIMB AT S.L. (B)	FPM.	2700	1870	1990	1930	1800	2050	
OPERATIONAL CEILING	FT.	15000	9700	10700	10200	9200	11100	
SPEED AT S.L. (B)	KN.	142	130	131	130	124	136	
MAX. SPEED/ALTITUDE (C)	KN/FT.	150/7000	138/7000	139/7000	139/7000	131/6400	144/7000	
OEI SERVICE CEILING (100 FPM) (A)(D)	FT.	11700	6200	7100	6600	5600	7600	
OEI MIN SPEED (C)(D)(G)	KN.	0	6	1	8	0	0	
OEI MAX SPEED (C)(D)	KN.	116	103	105	106	98	108	
COMBAT RADIUS	N.MI.	111	-	-	127	-	-	
MISSION TIME	HRS.	2.0	1.9	2.9	2.3	0.5	2.8	
AVERAGE CRUISING SPEED	KN.	117	-	-	120	-	-	
CRUISING ALTITUDE	FT.	10000	-	-	5000	-	-	
RANGE	N.MI.	234	-	-	275	50	318	
AVERAGE CRUISING SPEED	KN.	117	-	-	120	110	116	
CRUISING ALTITUDE	FT.	10000	-	-	5000	SL	10000	
ENDURANCE	HRS.	2.2	1.3	2.7	2.9	-	-	
ENDURANCE SPEED	KN.	70	70	70	70	-	-	
ENDURANCE ALTITUDE	FT.	SL	1500	1500	SL	-	-	

## NOTES

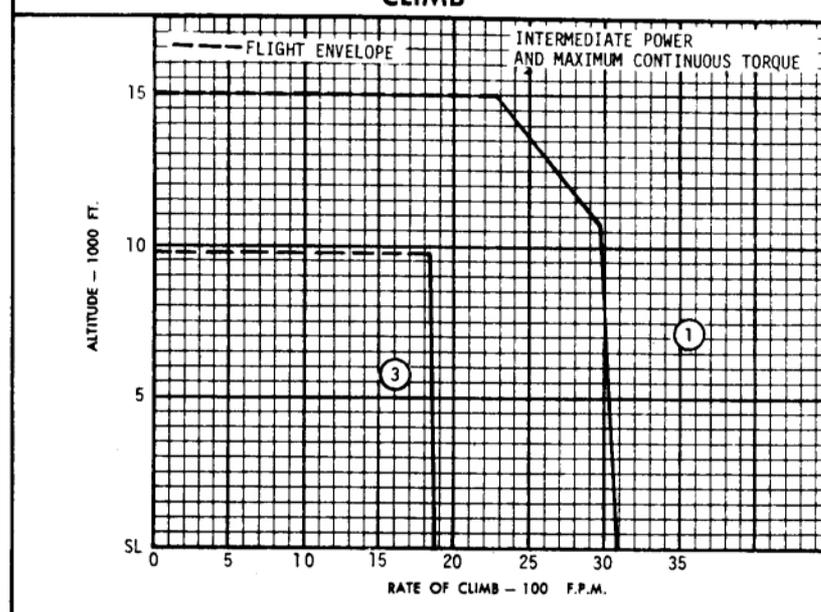
- (A) OUT/RETURN PAYLOAD FOR RADIUS MISSIONS  
 (B) MAXIMUM CONTINUOUS TORQUE  
 (C) INTERMEDIATE POWER  
 (D) ONE ENGINE INOPERATIVE  
 (F) READILY REMOVABLE ASW/ASMD EQUIPMENT REMOVED, 628 LB  
 (G) DISPOSABLE STORES DROPPED, 10% INTERNAL FUEL REMAINING

PERFORMANCE BASIS: NATC FLIGHT TEST DATA  
 ENGINE SPECIFICATION POWER AVAILABLE  
 ENGINE SPECIFICATION FUEL CONSUMPTION INCREASED 5%

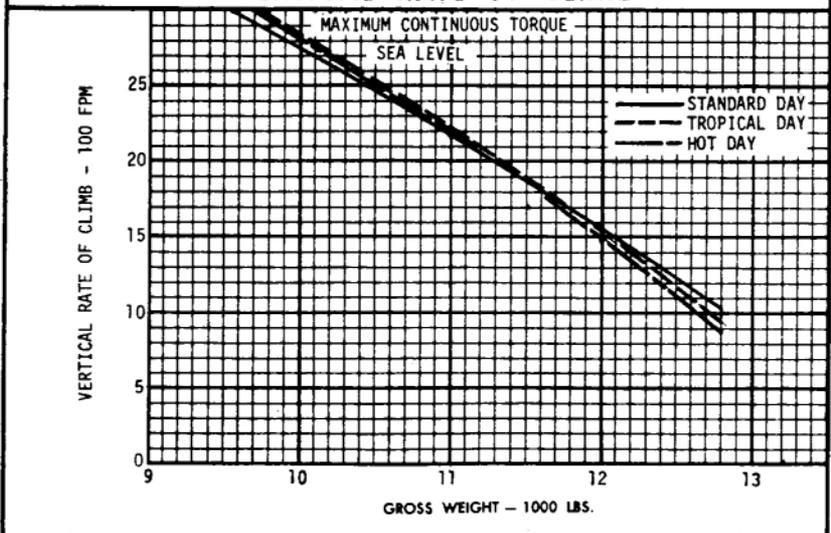
**SPEED**



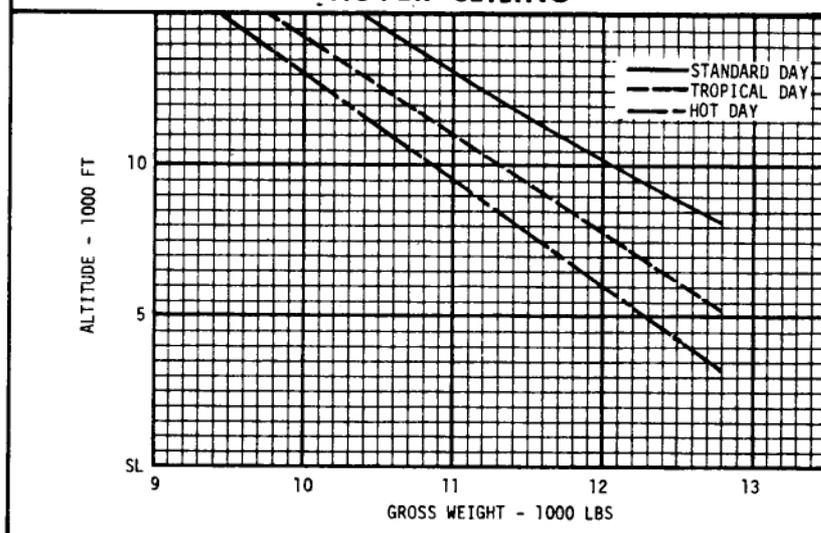
**CLIMB**



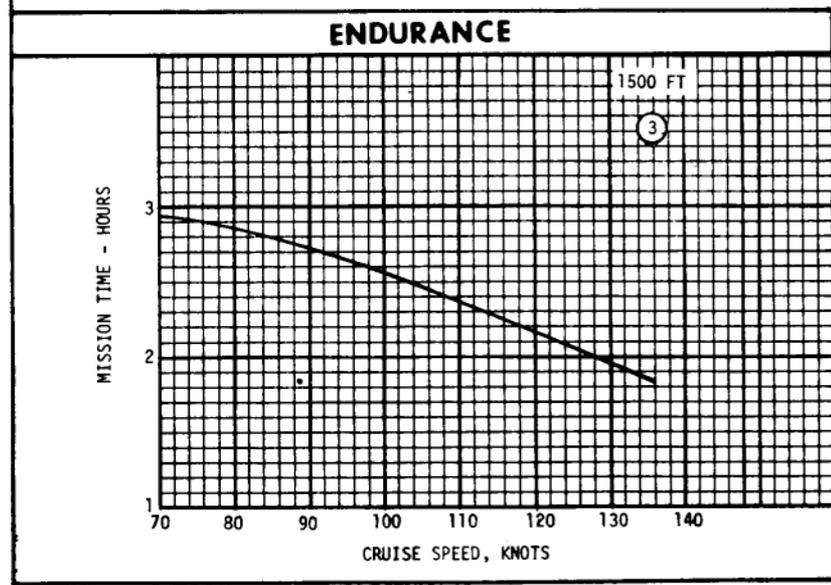
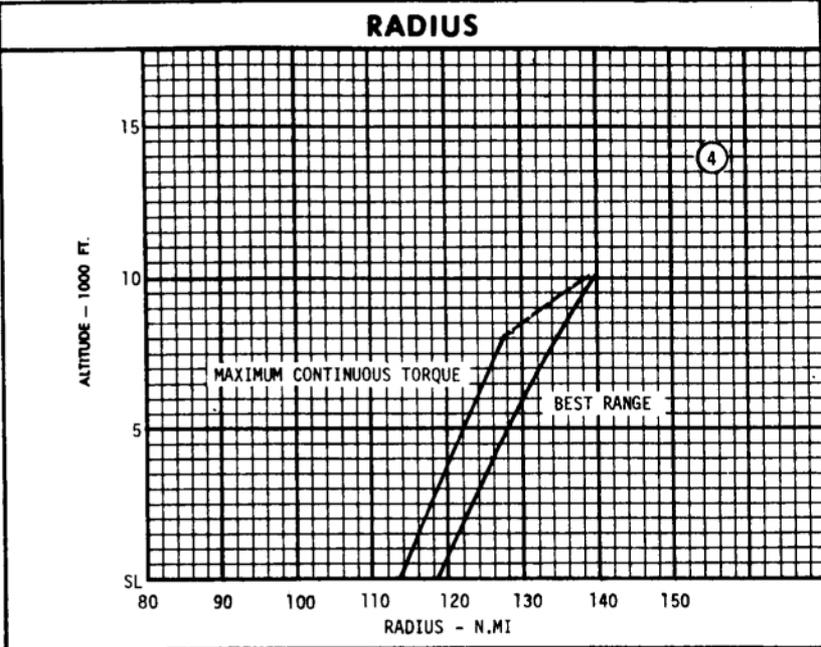
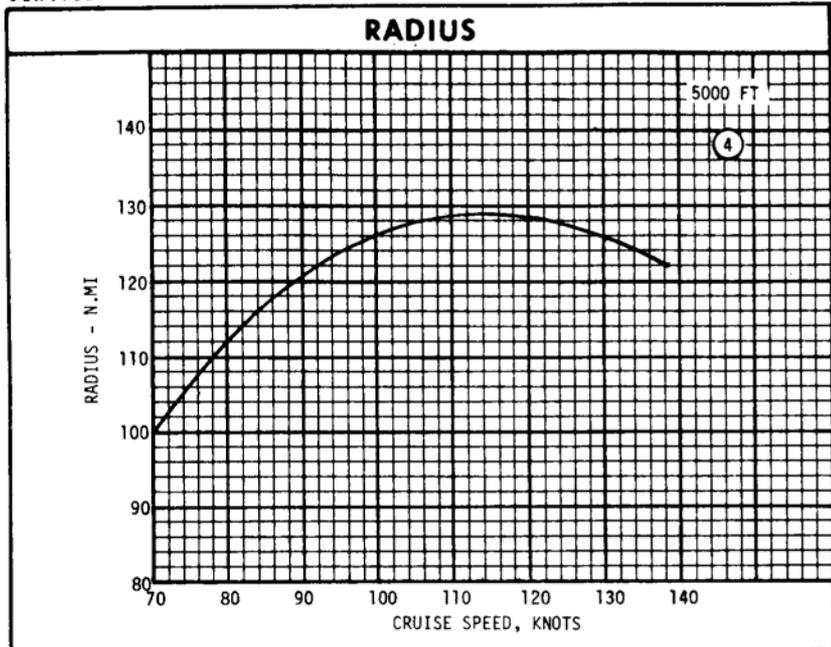
**VERTICAL RATE OF CLIMB**



**HOVER CEILING**



○ LOADING CONDITION COLUMN NUMBER



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## NOTES

## RADIUS MISSIONS

## ① CLEAN- HIGH ALTITUDE

WARM-UP AND TAKE-OFF: FUEL ALLOWANCE OF 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE

CLIMB OUT: ON COURSE AT MAXIMUM CONTINUOUS TORQUE TO OPT CRUISE ALT

CRUISE OUT: TO TARGET AT SPEED FOR MAXIMUM RANGE AT OPTIMUM CRUISE ALTITUDE

HOVER: 5 MINUTES AT HOVER CEILING, OUT OF GROUND EFFECT

CRUISE BACK: TO HOME BASE AT SPEED FOR MAXIMUM RANGE AT OPTIMUM CRUISE ALTITUDE

DESCEND TO SEA LEVEL: NO FUEL USED, NO DISTANCE GAINED

LANDING RESERVE: 10% OF INITIAL FUEL



## ④ RESCUE

WARM-UP AND TAKE-OFF: FUEL ALLOWANCE OF 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE AT SEA LEVEL

CLIMB OUT: ON COURSE AT MAXIMUM CONTINUOUS TORQUE TO 5000 FEET

CRUISE OUT: TO TARGET AT 120 KNOTS AT 5000 FEET

DESCEND TO SEA LEVEL: NO FUEL USED, NO DISTANCE GAINED

PICK UP FOUR (4) SURVIVORS: HOVER OUT OF GROUND EFFECT 5 MINUTES AT SEA LEVEL

CLIMB OUT: ON COURSE AT MAXIMUM CONTINUOUS TORQUE TO 5000 FEET

CRUISE BACK: TO BASE AT 120 KNOTS AT 5000 FEET

DESCEND TO SEA LEVEL: NO FUEL USED, NO DISTANCE GAINED

LANDING RESERVE: 10% OF INITIAL FUEL



## RANGE MISSIONS

## ①⑥ UTILITY &amp; FERRY

WARM-UP AND TAKE-OFF: FUEL ALLOWANCE OF 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE AT SEA LEVEL

CLIMB OUT: ON COURSE AT MAXIMUM CONTINUOUS TORQUE TO OPT CRUISE ALT

CRUISE OUT: TO REMOTE BASE AT SPEED FOR MAXIMUM RANGE AT OPTIMUM CRUISE ALTITUDE

DESCEND TO SEA LEVEL: NO FUEL USED, NO DISTANCE GAINED

LANDING RESERVE: 10% OF INITIAL FUEL



## ④ GENERAL RANGE MISSION

WARM-UP AND TAKE-OFF: FUEL ALLOWANCE OF 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE AT SEA LEVEL

CLIMB OUT: ON COURSE AT MAXIMUM CONTINUOUS TORQUE TO 5000 FEET

CRUISE OUT: TO REMOTE BASE AT 120 KNOTS AT 5000 FEET

DESCEND TO SEA LEVEL: NO FUEL USED, NO DISTANCE GAINED

LANDING RESERVE: 10% OF INITIAL FUEL



## ⑤ CARGO

WARM-UP AND TAKE-OFF: FUEL ALLOWANCE OF 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE AT SEA LEVEL

HOVER: 5 MINUTES OUT OF GROUND EFFECT TO PICK UP EXTERNAL CARGO

CRUISE OUT: TO REMOTE BASE AT SPEED FOR MAXIMUM RANGE AT SEA LEVEL

LANDING RESERVE: 10% OF INITIAL FUEL



LOADING CONDITION COLUMN NUMBER

## ENDURANCE MISSIONS

## ①④ GENERAL ENDURANCE MISSIONS

WARM-UP AND TAKE-OFF: 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE AT SEA LEVEL

CRUISE: AT SPEED FOR MAXIMUM ENDURANCE AT SEA LEVEL

LANDING RESERVE: 10% OF INITIAL FUEL

## ② ANTI-SUBMARINE WARFARE (ASW)

WARM-UP AND TAKE-OFF: FUEL ALLOWANCE OF 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE AT SEA LEVEL

CLIMB OUT: ON COURSE TO 1500 FEET AT MAXIMUM CONTINUOUS TORQUE

CRUISE OUT: TO TARGET 35 N.MI. FROM TAKE-OFF AT 120 KTS AT 1500 FEET.

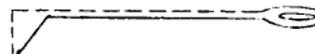
LOITER: STATED TIME AT 1500 FEET AT SPEED FOR MAXIMUM ENDURANCE

DROP STORES (TORPEDO, MARINE MARKERS, SONOBUOYS WITH A TOTAL WEIGHT OF 999 LBS)

CRUISE BACK: TO HOME BASE AT SPEED FOR MAXIMUM RANGE AT 1500 FEET

DESCEND TO SEA LEVEL: NO FUEL USED, NO DISTANCE GAINED

LANDING RESERVE: 10% OF INITIAL FUEL



## ③ ANTI-SHIP MISSILE DEFENSE (ASMD)

WARM-UP AND TAKE-OFF: FUEL ALLOWANCE OF 2 MINUTES AT MAXIMUM CONTINUOUS TORQUE

CLIMB OUT: ON COURSE TO 1500 FEET AT MAXIMUM CONTINUOUS TORQUE

CRUISE OUT: 10 NAUTICAL MILES AT 120 KNOTS AT 1500 FEET

LOITER: STATED TIME AT SPEED FOR MAXIMUM ENDURANCE AT 1500 FEET

CRUISE BACK: 10 NAUTICAL MILES AT SPEED FOR MAXIMUM RANGE AT 1500 FEET

DESCEND TO SEA LEVEL: NO FUEL USED, NO DISTANCE GAINED

LANDING RESERVE: 10% OF INITIAL FUEL

