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GROUP 4 DOCUMENT
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Standard Aircraft Characteristics

NAVY MODEL S-3A AIRCRAFT

Req #
624007

(TITLE UNCLASSIFIED)

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**PUBLISHED BY DIRECTION OF THE
COMMANDER OF THE NAVAL AIR SYSTEMS COMMAND**

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JANUARY 1973

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STANDARD AIRCRAFT CHARACTERISTICS, NAWEP'S FORM 13100/48 (REV. 7-65)

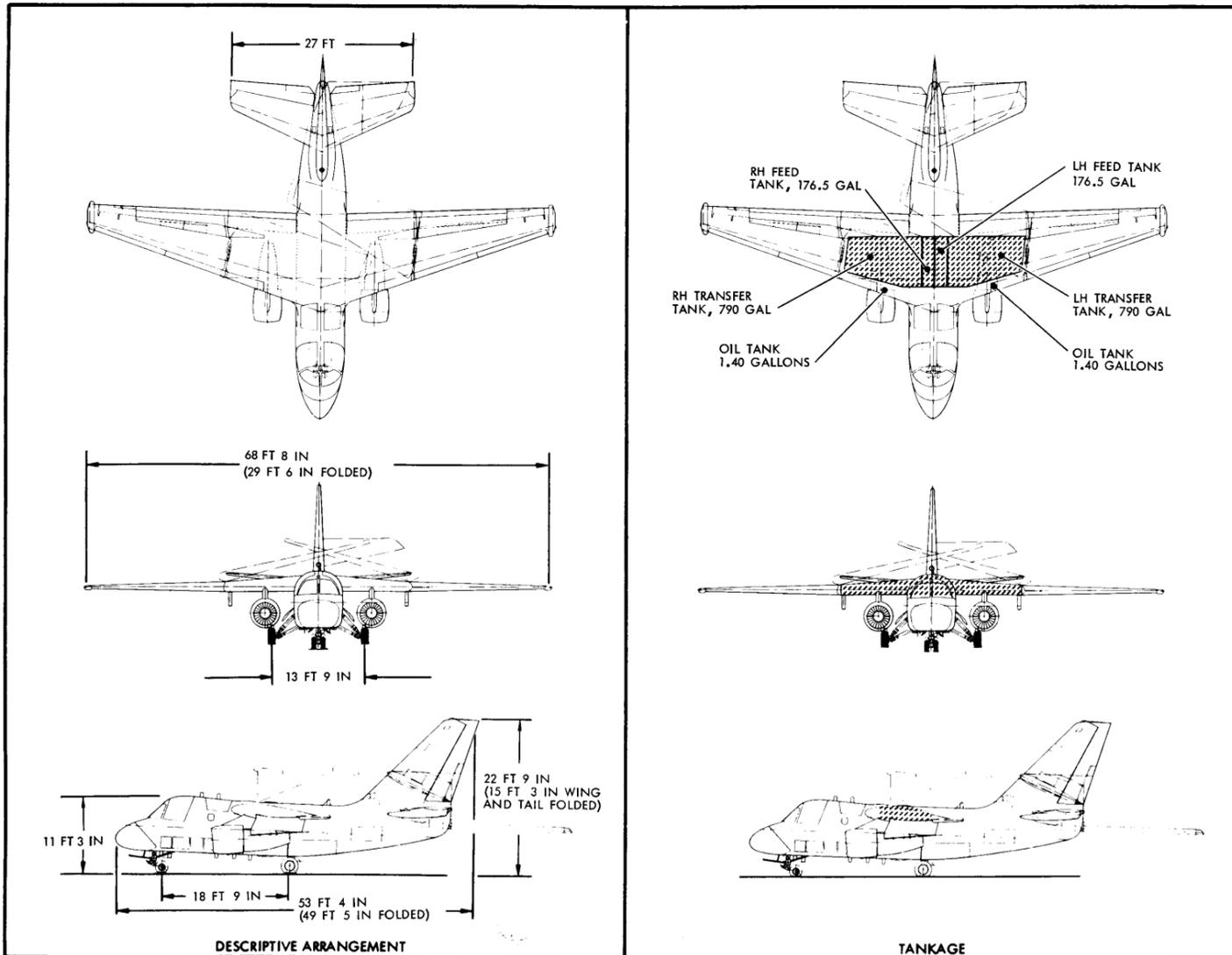
STANDARD AIRCRAFT CHARACTERISTICS

S-3A

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STANDARD AIRCRAFT CHARACTERISTICS, NAVYFORM 13100/48 (Rev. 7-63)

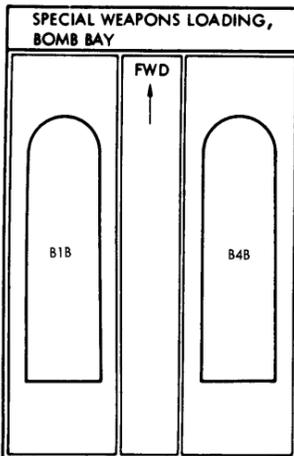
DESCRIPTIVE ARRANGEMENT

TANKAGE

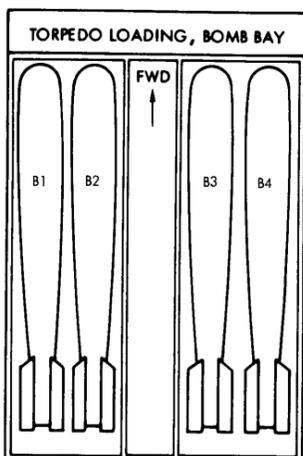
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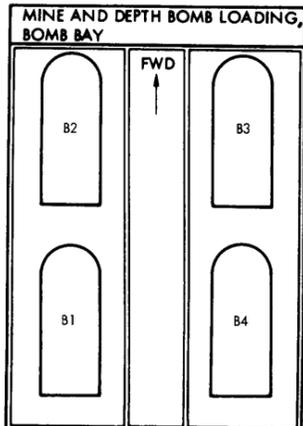
NOTE: NUMBERS SHOWN ARE STORES
RELEASE STATIONS
ALL INTERNAL STATIONS UTILIZE
AERO 65A1 BOMB RACKS



STORES STATIONS - TOP VIEW

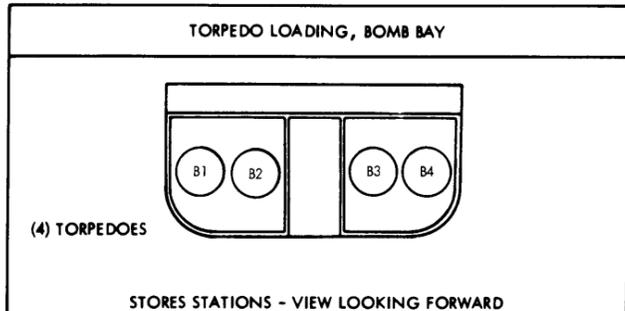


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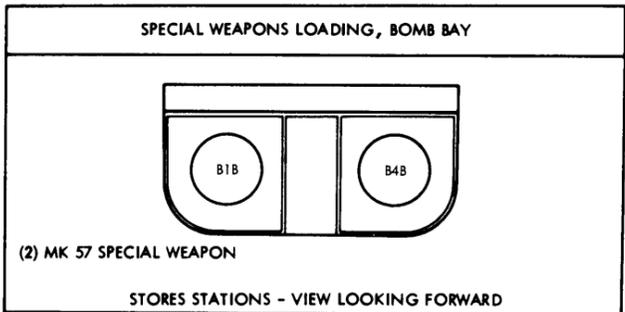
STORES STATIONS - TOP VIEW

ARMAMENT



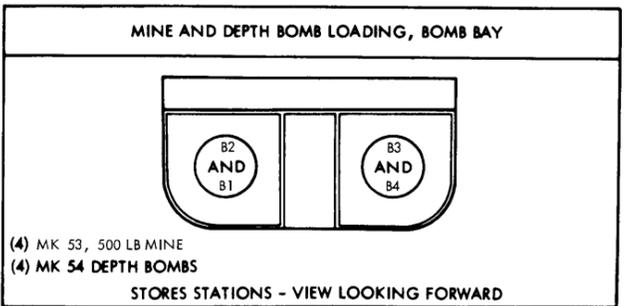
(4) TORPEDOES

STORES STATIONS - VIEW LOOKING FORWARD



(2) MK 57 SPECIAL WEAPON

STORES STATIONS - VIEW LOOKING FORWARD



(4) MK 53, 500 LB MINE
(4) MK 54 DEPTH BOMBS

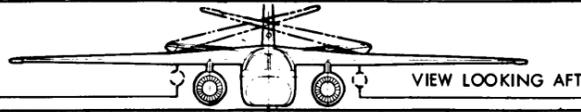
STORES STATIONS - VIEW LOOKING FORWARD

ARMAMENT

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STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/48 (Rev. 7-65)

S-3A



	W ₂ (STBD)	INTERNAL	W ₁ (PORT)
BOMBS	(1) OR (3) MK 82 LD OR SNAKEYE (1) A/A 37B -5 (TER-7) WITH (3) MK 76 MOD 5 OR (3) MK 106 MOD 5	(4) MK 54 (4) MK 82 LD	(1) OR (3) MK 82 LD OR SNAKEYE (1) A/A 37B -5 (TER-7) WITH (3) MK 76 MOD 5 OR (3) MK 106 MOD 5
CLUSTER BOMBS	(1) OR (3) MK 20 MOD 2		(1) OR (3) MK 20 MOD 2 * *
TORPEDOES		(4) MK 46/0 (4) MK 46/1	
FLARE PODS	(1) OR (3) SUU 44/A * *		(1) OR (3) SUU 44/A * *
MINES	(1) OR (3) MK 36 DST (1) MK 55 * (1) MK 56 * (1) MK 52 *	(4) MK 53 (4) MK 36 DST	(1) OR (3) MK 36 DST (1) MK 55 * (1) MK 56 * (1) MK 52 *
SPECIAL WEAPONS		(2) MK 57/0	
MISSILES OR ROCKETS	(1) OR (3) LAU 10A/A * * (1) OR (3) LAU 68/A * * (1) OR (3) LAU 61/A * * (1) OR (3) LAU 69/A * *		(1) OR (3) LAU 10A/A * * (1) OR (3) LAU 68/A * * (1) OR (3) LAU 61/A * * (1) OR (3) LAU 69/A * *
FUEL TANKS	(1) 300 GAL AERO 1B		(1) 300 GAL AERO 1B
RACKS	(1) BRU-11A (1) TER-7 * * *	(4) BRU-14A	(1) BRU-11A (1) TER-7 * * *
NOTE:	* -AND ASSOCIATED TRAINING UNITS * * (1) EACH ON BRU-11A RACK; (3) EACH ON TER-7 RACK * * * (1) EACH ON BRU-11A RACK		

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NAVAIR 00-110AS3-1

PRE SERVICE

POWER PLANT		MISSION AND DESCRIPTION		WEIGHTS																																					
GENERAL ELECTRIC No. and Model: Turbofan Model TF34-GE-2 Manufacturer: General Electric Company Specification: E1130A, dated 1 AP 1970 Length: 100 in. Diameter: 52.4 in. Compressor Type: Axial Flow Tail Pipe Nozzle: Fixed		The Lockheed S-3A is a two engine ASW airplane capable of operating off CVS-11 class or better aircraft carriers. This airplane has the ability to detect, localize, and destroy enemy submarines and surface vessels using a variety of sensor weapons including mines, torpedoes, and rockets. A crew of 4 consists of the pilot, copilot, sensor operator, and TACCO. All have ejection seats with 0-0 capability. Crew compartment is pressurized to 8,000 feet when the airplane altitude is 40,000 feet. This airplane has inflight refueling capability for extended mission performance. Wing upper and lower surface spoilers provide the capability of steep dive angles and high roll control response. The horizontal stabilizer is electrically powered for pitch trim. Longitudinal, lateral, and directional control surfaces are actuated by dual, hydraulic powered, irreversible control systems. High lift system consists of Fowler flaps and leading edge flaps.		<table border="1"> <thead> <tr> <th>LOADINGS</th> <th>LB</th> <th>LIMIT L.F.</th> </tr> </thead> <tbody> <tr> <td>Empty</td> <td>26,581</td> <td>-</td> </tr> <tr> <td>Design</td> <td>36,574</td> <td>3.5</td> </tr> <tr> <td>Combat</td> <td>38,192</td> <td>3.35</td> </tr> <tr> <td>Take-off, Normal</td> <td></td> <td></td> </tr> <tr> <td> Field</td> <td>43,449</td> <td>2.95</td> </tr> <tr> <td> Catapult</td> <td>43,449</td> <td>2.95</td> </tr> <tr> <td>Max Take-off, Design</td> <td>52,539</td> <td>2.5</td> </tr> <tr> <td>Max Landing, Design</td> <td></td> <td></td> </tr> <tr> <td> Field</td> <td>45,914</td> <td>2.79</td> </tr> <tr> <td> Arrested</td> <td>37,695</td> <td>3.40</td> </tr> <tr> <td>Max In-flight</td> <td>52,539</td> <td>2.5</td> </tr> </tbody> </table>		LOADINGS	LB	LIMIT L.F.	Empty	26,581	-	Design	36,574	3.5	Combat	38,192	3.35	Take-off, Normal			Field	43,449	2.95	Catapult	43,449	2.95	Max Take-off, Design	52,539	2.5	Max Landing, Design			Field	45,914	2.79	Arrested	37,695	3.40	Max In-flight	52,539	2.5
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STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100, 4C (Rev. 7-65)

JANUARY 1973

S-3A

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PERFORMANCE SUMMARY							
TAKE-OFF LOADING CONDITION	① HI-HI-HI CLEAN	③ SEARCH & ATTACK 2 Mk 57 Depth Bombs 48 Sonobuoys	⑤ SURFACE SURVEIL. 2 MK 57 Depth Bombs 48 Sonobuoys	⑦ CONTACT INVEST. #1 4 MK 46 (1) Torpedoes 60 Sonobuoys	⑨ CONTACT INVEST. #2 4 MK 46 (1) Torpedoes 60 Sonobuoys	⑪ FERRY RANGE ⑫ ⑬	
TAKE-OFF WEIGHT	lb.	40,941	43,449	43,449	44,947	44,947	45,516
Fuel internal/external (JP-5)	lb./lb.	13,142/-	13,142/-	13,142/-	13,142/-	13,142/-	13,142/4,080
Payload	lb.	0	2,458	2,458	3,906	3,906	0
Wing loading	lb./sq. ft.	68.5	72.7	72.7	75.2	75.2	76.1
Stall speed—power-off (25 Deg. Flap)	kn.	97	100	100	102	102	103
Take-off run at S.L.— calm	ft.	1,800	2,040	2,040	2,210	2,210	2,270
Take-off run at S.L.— 25 kn. wind	ft.	1,110	1,310	1,310	1,420	1,420	1,470
Take-off to clear 50 ft.— calm	ft.	2,500	2,790	2,790	2,970	2,970	3,030
Max. speed/altitude	kn./ft.	-	393/40,000	429/S.L.	429/S.L.	429/S.L.	-
Rate of climb at S.L.	fpm.	4,450	4,150	4,150	4,000	4,000	3,780
Time: S.L. to 20,000 ft.	min.	5.8	6.3	6.3	6.6	6.6	6.9
Time: S.L. to 30,000 ft.	min.	10.9	12.0	12.0	12.6	12.6	13.7
Service ceiling (100 fpm)	ft.	40,900	39,800	39,800	39,100	39,100	38,500
Combat range	n.mi.	2,765	2,628	1,439	2,506	1,310	3,368
Average cruising speed	kn.	348	356	210	355	276	346
Cruising altitudes	ft.	39,000/40,000	37,800/40,000	1,500	36,400/40,000	20,000/40,000	35,500/40,000
Combat radius/mission time	n.mi./hr.	1,360/8.1	458/7.2	0/7.7	826/6.9	609/5.3	-
Average cruising speed	kn.	345	353	-	346	435/347 C	-
Search time/altitude	hr./ft.	4.5/40,000	4.5/40,000	7.7/SEA LEVEL	2.0/SEA LEVEL	2.0/SEA LEVEL	-
Search Speed	kn.	370	370	165	168	166	-
COMBAT LOADING CONDITION	② CLEAN	④ STORES RETAINED	⑥ STORES RETAINED	⑧ STORES RETAINED	⑩ STORES RETAINED		
COMBAT WEIGHT	lb.	35,684	38,192	38,192	39,690	39,690	-
Engine power		INTERMEDIATE	INTERMEDIATE	INTERMEDIATE	INTERMEDIATE	INTERMEDIATE	-
Fuel	lb.	7,885	7,885	7,885	7,885	7,885	-
Combat speed/altitude	kn./ft.	410/40,000	405/40,000	429/SEA LEVEL	429/SEA LEVEL	429/SEA LEVEL	-
Rate of climb/altitude	fpm/ft.	560/40,000	420/40,000	4,750/SEA LEVEL	4,550/SEA LEVEL	4,550/SEA LEVEL	-
Combat ceiling (500 fpm)	ft.	40,700	39,400	39,400	38,500	38,500	-
Rate of climb at S.L.	fpm.	5,120	4,750	4,750	4,550	4,550	-
Max. speed at S.L.	kn.	429	429	429	429	429	-
Max. speed/altitude	kn./ft.	447/20,000	447/20,000	447/20,000	447/20,000	447/20,000	-
LANDING WEIGHT	lb.	28,877	31,409	31,409	32,920	32,920	29,593
Fuel	lb.	1,078	1,102	1,102	1,115	1,115	1,299
Stall speed—power-off/approach power	kn./kn.	78/77	81/80	81/80	83/82	83/82	78/77
Landing distance—ground roll/over 50 ft. obst.	ft./ft.	1,900/2,860	2,045/3,060	2,045/3,060	2,140/3,180	2,140/3,180	1,940/2,920

NOTES

RANGE AND/OR RADIUS ARE BASED ON INSTALLED ENGINE SPECIFICATION DATA INCREASED 5%
PERFORMANCE BASIS: CONTRACTOR ESTIMATED

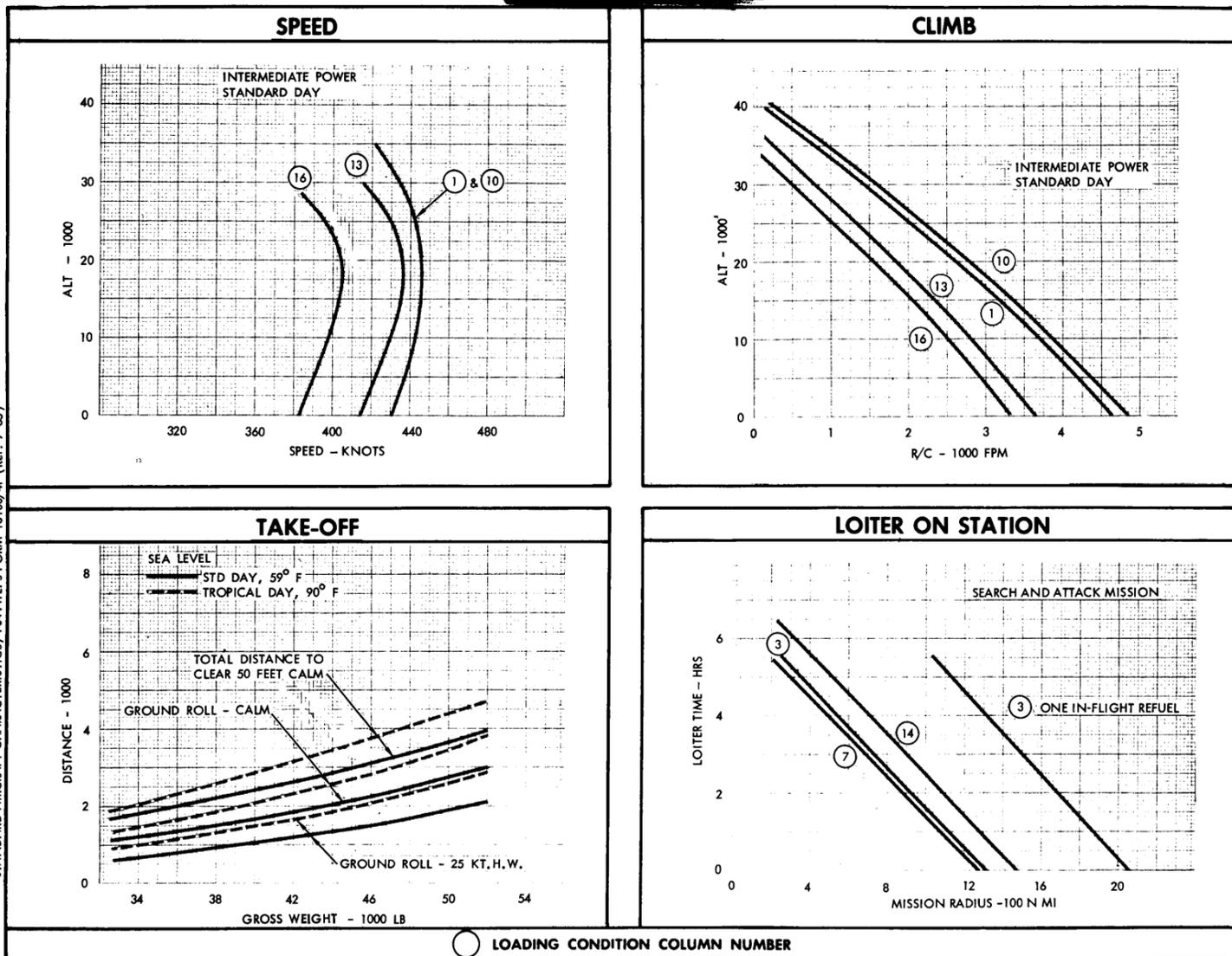
- Ⓐ MAXIMUM POWER; STANDARD DAY (59°F)
- Ⓑ INTERMEDIATE POWER
- Ⓒ OUTBOUND SEGMENT/RETURN SEGMENT
- Ⓓ EXTERNAL FUEL TANKS RETAINED THROUGHOUT MISSION

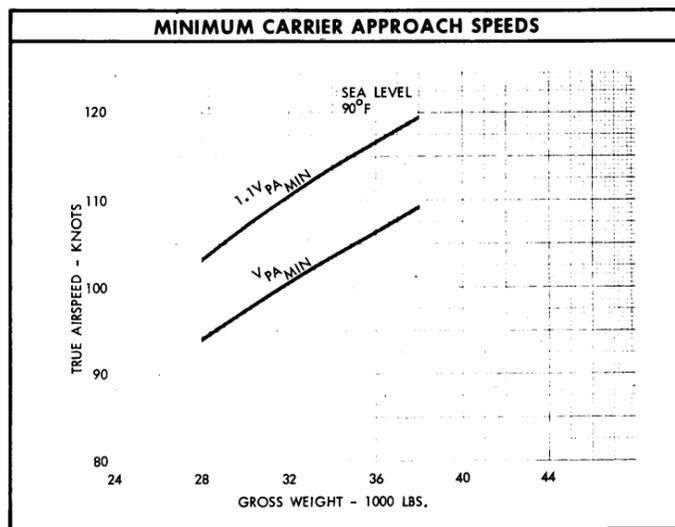
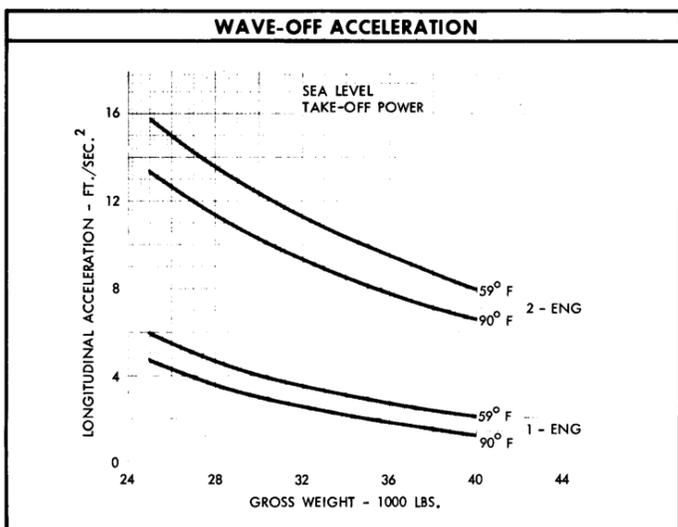
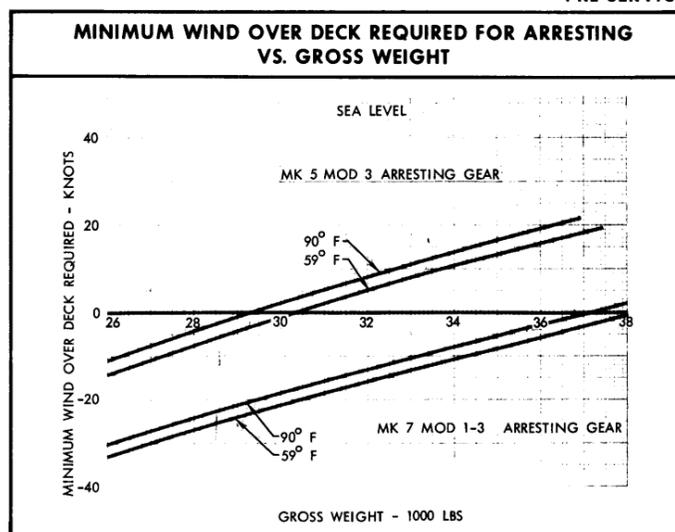
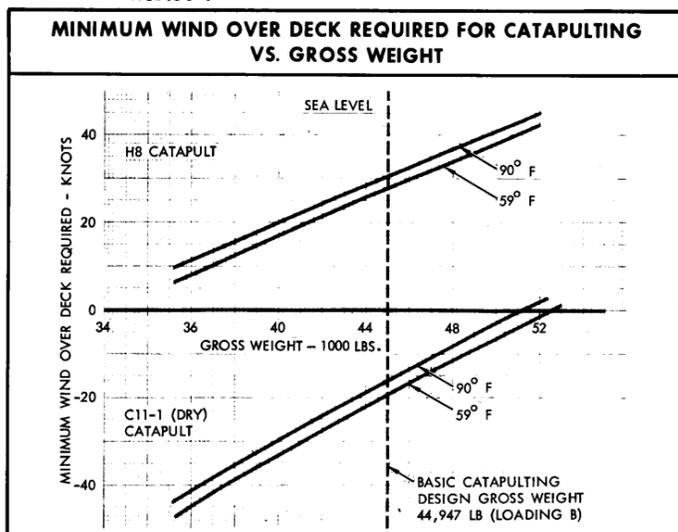
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MISSION SUMMARY — ALTERNATE LOADINGS											
		SEARCH & ATTACK		SURFACE SURVEILLANCE		CONTACT INVEST. #1		CONTACT INVEST. #2		MINELAYING	
STORE LOADING	T.O.B.W.	COMBAT RADIUS N. MI.	MISSION TIME hr.								
③ 2 MK-57 DEPTH BOMBS 48 SONOBUOYS	43,449	458	7.2	0	7.7	870	7.0	630	5.3	-	-
⑦ 4 MK-46 MOD 1 TORPEDOES 60 SONOBUOYS	44,947	407	6.8	0	7.4	826	6.9	609	5.3	-	-
⑫ 1 MK-57 DEPTH BOMB 2 MK-46 MOD 1 TORPEDOES 49 SONOBUOYS	43,900	443	7.1	0	7.7	857	7.0	622	5.4	-	-
⑬ 2 MK-57 DEPTH BOMBS 48 SONOBUOYS 2 - 300 GALLON EXT TANKS	48,499	677	8.5	0	9.3	1114	8.5	862	6.6	-	-
⑭ 4 MK-46 MOD 1 TORPEDOES 60 SONOBUOYS 2 - 300 GALLON EXT TANKS	49,997	618	8.1	0	9.0	1072	8.2	840	6.5	-	-
⑮ 2 MK-46 MOD 1 TORPEDOES 2 MK-54 BOMBS 60 SONOBUOYS 2 LAU-61 ROCKET PACKS: EXT.	45,927	306	6.3	0	7.1	749	6.4	572	5.1	-	-
⑯ 2 MK-46 MOD 1 TORPEDOES 2 MK-82 L.D. BOMBS 60 SONOBUOYS 6 LAU-10 A/A 2 TERS: EXT.	48,471	-	-	0	6.1	526	5.3	449	4.6	-	-
⑰ 1 MK-57 DEPTH BOMB 2 MK-46 MOD 1 TORPEDOES 49 SONOBUOYS 2 - 300 GALLON EXT TANKS	48,950	655	8.3	0	9.2	1108	8.5	858	6.6	-	-
⑱ 10 MK-36 DST MINES 4 INTERNAL 6 EXTERNAL	47,626	-	-	-	-	-	-	-	-	853	5.2

NOTES

STANDARD AIRCRAFT CHARACTERISTICS, NAVPERS FORM 13100/41 (REV. 7-65)





JANUARY 1973

S-3A

NOTES

SEARCH AND ATTACK MISSION

WARM-UP, TAXI AND TAKE-OFF: 5 minutes at maximum continuous power at sea level.

CLIMB: On course to maximum range altitude* with intermediate power.

CRUISE-OUT: At maximum range speed and altitude.*

SEARCH: At 370 knots for 4.5 hours at maximum endurance altitude.*

CRUISE-BACK: At maximum range speed and altitude.*

RESERVE: 5% of initial fuel load plus fuel for 20 minutes at speed for maximum endurance at sea level.

*not exceeding 40,000 ft

SURFACE SURVEILLANCE MISSION

WARM-UP, TAXI, AND TAKE-OFF: 5 minutes at maximum continuous power at sea level.

LOITER: At sea level and speed for maximum endurance but not less than 150 knots.

RESERVE: 5% of initial fuel load plus fuel for 20 minutes at speed for maximum endurance at sea level.

MINELAYING MISSION

WARM-UP, TAXI AND TAKE-OFF: 5 minutes at maximum continuous power at sea level.

CLIMB: On course to maximum range altitude* with intermediate power

CRUISE-OUT: At maximum range speed and altitude.*

DESCEND: To sea level - no fuel used; no distance gained.

RUN-IN: 50 nautical miles with intermediate power at sea level.

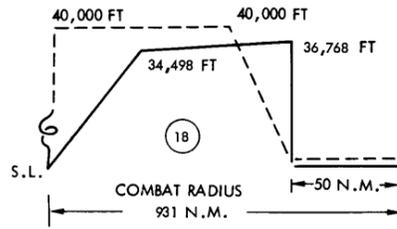
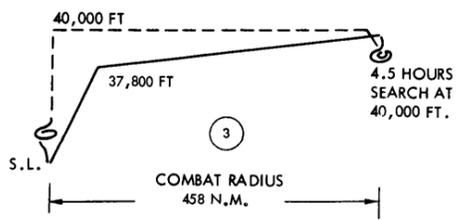
FUEL ALLOWANCE: 5 minutes at intermediate power at sea level. Drop Stores.

RUN-OUT: 50 nautical miles with intermediate power at sea level.

CLIMB: On course to maximum range altitude* with intermediate power.

CRUISE-BACK: At maximum range speed and altitude.*

RESERVE: 5% of initial fuel load plus fuel for 20 minutes at speed for maximum endurance at sea level.



LOADING CONDITION COLUMN NUMBER

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100 4G (REV. 7-63)

NOTES

HI-HI-HI

WARM-UP, TAXI AND TAKE-OFF: 5 minutes at maximum continuous power at sea level.

CLIMB: On course to maximum range altitude with intermediate power.

CRUISE-OUT: At maximum range speed and altitude.

COMBAT: 5 minute intermediate power at cruise altitude.

CRUISE-BACK: At maximum range speed and altitude.

RESERVE: 5% of initial fuel load plus fuel for 20 minutes at speed for maximum endurance at sea level.

CONTACT INVESTIGATION NO. 1

WARM-UP, TAXI AND TAKE-OFF: 5 minutes at maximum continuous power at sea level.

CLIMB: On course to maximum range altitude with intermediate power.

CRUISE-OUT: At maximum range speed and altitude.

DESCEND: To sea level - no fuel used; no distance gained.

LOITER: At sea level for 2 hours at speed for maximum endurance.

CLIMB: On course to maximum range altitude with intermediate power.

CRUISE-BACK: At maximum range speed and altitude.

RESERVE: 5% of initial fuel load plus fuel for 20 minutes at speed for maximum endurance at sea level.

CONTACT INVESTIGATION MISSION NO. 2

WARM-UP, TAXI AND TAKE-OFF: 5 minutes at maximum continuous power at sea level.

CLIMB: On course with intermediate power, to altitude for V_{max} with maximum continuous power.

CRUISE-OUT: At maximum continuous power at altitude for V_{max} .

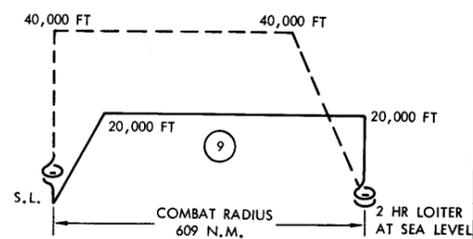
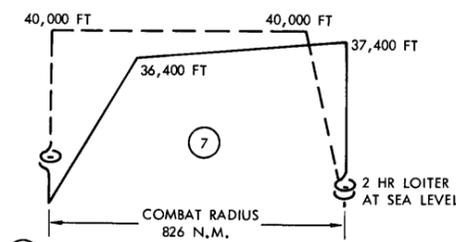
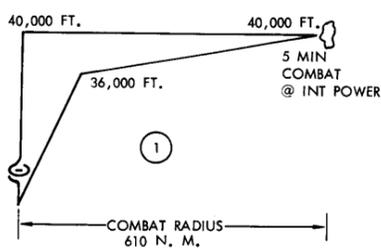
DESCEND: To sea level - no fuel used; no distance gained.

LOITER: At sea level for 2 hours at speed for maximum endurance.

CLIMB: On course to maximum range altitude with intermediate power.

CRUISE-BACK: At maximum range speed and altitude.

RESERVE: 5% of initial fuel load plus fuel for 20 minutes at speed for maximum endurance at sea level.



LOADING CONDITION COLUMN NUMBER

JANUARY 1973

S-3A

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100 4G (REV. 7-65)

NOTES

ELECTRONICS

SEARCH & KILL STORES SUBSYSTEM

Search Stores Control Group, OK-185/ASQ-147
 Armament Control Group, OK-183/ASQ-147
 Armament Monitor & Control

ACOUSTIC PROCESSING SUBSYSTEM

Radio Computing-Tracking Group, OL-82/AYS
 Radio Receiving Set, AN/ARR-76
 Recorder-Reproducer Set, AN/ASH-27

DATA PROCESSING, DISPLAY, & CONTROL SUBSYSTEM

Digital Computer, AN-AYK-10
 Tactical-Acoustic Indicator Display Group, AN/ASA-82
 Signal Data Recorder-Reproducer, RD-348/ASH

NON-ACOUSTIC SENSORS SUBSYSTEM

Magnetic Compensator Group, AN/ASA-65A
 Magnetic Detection Set, AN/ASQ-81(V)
 Infrared Detecting Group, OR-89/AA
 Countermeasures Receiving Set, AN/ALR-47
 Radar Set, AN/APS-116
 Radar Set Converter-Control Group, OU-78/AP
 Interrogator Set, AN/APX-76A(V)
 Transponder Set, AN/APX-72

NAVIGATION & AFCS SUBSYSTEM

Direction Finder Set, AN/ARN-83
 Direction Finder Set, AN/ARA-50
 Electronic Altimeter Set, AN/APN-201
 Navigation Indicator Group, OD-59/A
 Airspeed-Altitude Computer Set, AN/AYN-5
 Radar Navigation Set, AN/APN-200
 Tactical Air Navigation Set, AN/ARN-84
 Sonobuoy Bearing Range Receiving Set, AN/ARS-2
 Induction Compass Transmitter, T-1214/A
 Compass Transmitter Compensator, CN-1381/A
 Inertial Navigation Set, ASN-92
 Inertial Navigation Control Group, AN/ASA-84
 Receiving-Decoding Group, ARA-63
 Attitude Heading Reference Set, AN/ASN-107
 Automatic Flight Control Set, AN/ASW-33
 Radar Beacon, AN/APN-202
 Data Communications Set, AN/ASW-25B
 Rate Gyro

COMMUNICATIONS SUBSYSTEM

Digital to Analog Converter, CV-2830/AYC
 Radio Set (HF), AN/ARC-153
 Radio Receiver-Transmitters (UHF), RT-1017/ARC
 Intercommunication-Communication Control Group, OK-173(V)/AI
 Secure Data Keyer, TSEC/KG-40
 Secure Keyer Control
 Secure Voice Keyer, TSEC/KY-28
 Radio Set Control, C-8057/ARC

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/4G (REV. 7-65)