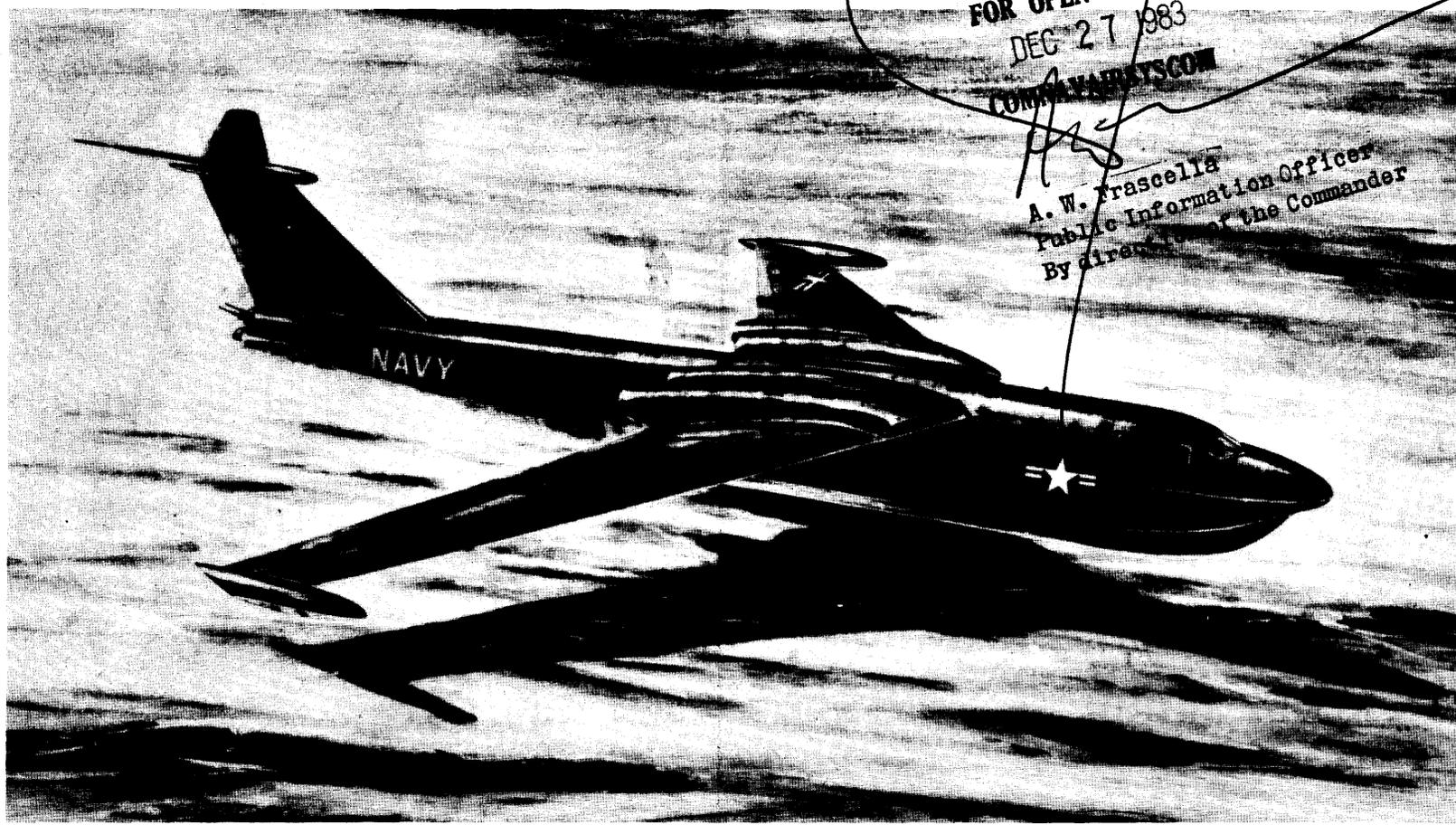


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FOR OPEN PUBLICATION
DEC 27 1983
COMNAVISTCOM

A. W. Trascella
Public Information Officer
By direction of the Commander



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

STANDARD AIRCRAFT CHARACTERISTICS

XP6M-1 "SEA-MASTER"

CLASSIFICATION (ORIGINALLY) BY AUTHORITY OF
AIR-7203
ON 12-16-83 O. H. Persons Sec. Sped.
(DATE) (NAME) (RANK)
NAVY AIR STATION
DEPARTMENT OF THE NAVY

DECLASSIFIED

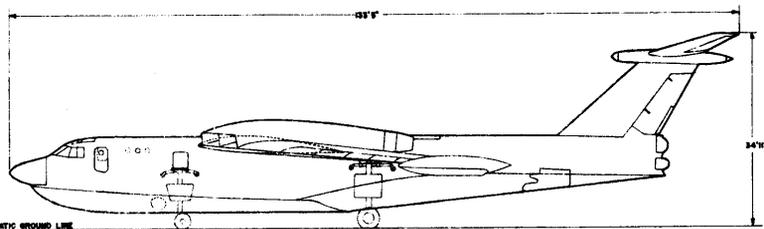
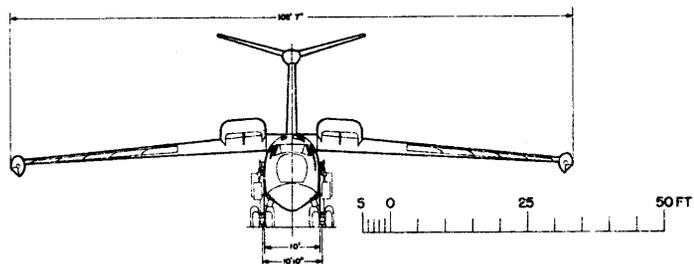
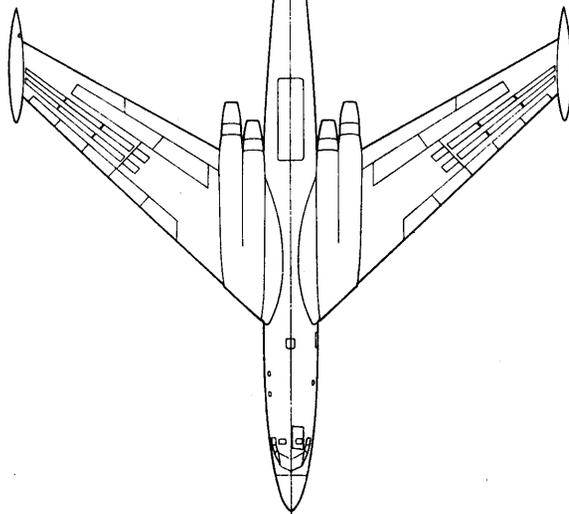
APRIL 1954

XP6M-1

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

87' 0"

WING AREA — 1900 SQ. FT.
WING SECTION — N.A.C.A. ROOT 63A31
TIP 63A308
M.A.C. — 247.31
HULL DISPL. — 534,000 LBS
WING TIP FLOAT DISPL. — 5600 LBS



MODEL XP6M

CONFIDENTIAL

DESCRIPTIVE ARRANGEMENT

NAVAER

CONFIDENTIAL

ARMAMENT & TANKS

NAVAER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

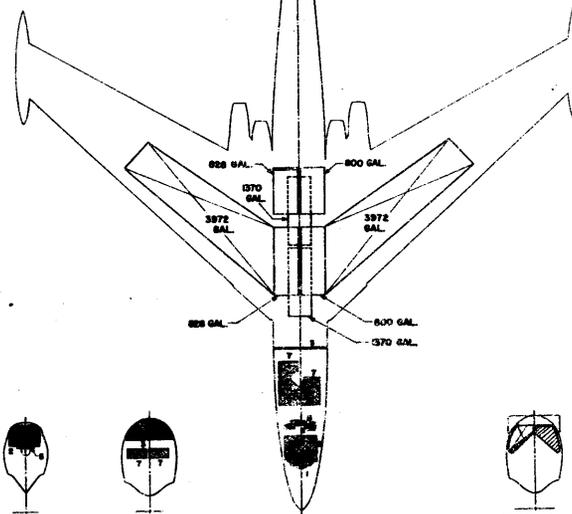
- ARMOR PLATE
- FLAK CURTAIN
- ▨ SELF-SEALING TANK
- ⊠ NON SELF-SEALING TANK

2-20MM CANNON
1000 RDS TOTAL

PROTECTION

- | | |
|--------------------------------------|------------|
| 1. WINDSHIELD | 1970 LBS. |
| 2. PILOT & CO-PILOT - AFT | 234.0 LBS. |
| 3. FLIGHT DECK - AFT | 194.1 LBS. |
| 4. STABILIZER CYLINDER | 25.5 LBS. |
| 5. PILOT & CO-PILOT - (FLAK CURTAIN) | 200 LBS. |
| 6. PILOT & CO-PILOT - FLOOR (FLAK) | 168.0 LBS. |
| 7. FLIGHT DECK - FLOOR (FLAK) | 241.4 LBS. |

FUEL TANK CAPACITY
NORMAL 11200 GALS.
MAXIMUM (WITH MINE BAY TANKS) 13940 GALS.

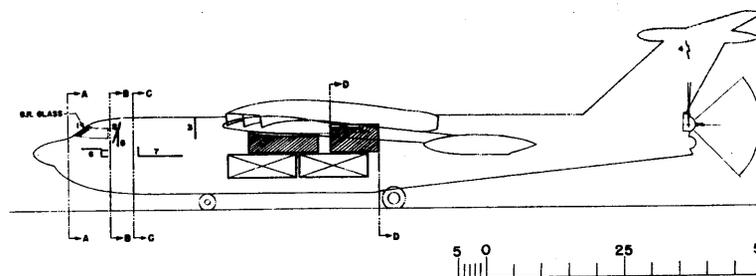
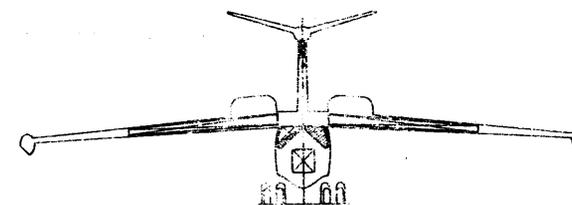


VIEW A TO B

VIEW B TO C

VIEW C

VIEW D



DECLASSIFIED

POWER PLANT

NO. MODEL.....(4)YJ71-A-4
 MFR.....Allison
 TYPE.....Turbo-jet
 LENGTH.....203"
 DIAMETER.....57"
 AUGMENTATION.....Afterburner

RATINGS

	<u>LBS</u>	<u>@ RPM</u>	<u>@ ALT</u>
MIL + AB	13,000	6100	S.S.L.
MILITARY	9,370	6100	S.S.L.
NORMAL	7,920	5950	S.S.L.

SPEC. NO. 365-A

MISSION AND DESCRIPTION

The XP6M-1 is a swept wing four-engined jet seaplane. The primary mission is mine-laying. Secondary missions are photo-reconnaissance and heavy attack.

The seaplane hull is of the extended after-body type designed for rough water. Features included in the configuration are tee tail, wing tip floats, spoiler-aileron, single-slotted wing flaps, automatic leading edge slats, hydro-flaps (alternating as dive brakes), and a rotating type mine door.

DEVELOPMENT

Mock up March 1953
 First flight April 1955
 Service use.....1958

WEIGHTS

<u>LOADINGS</u>	<u>LBS</u>	<u>L.F.</u>
EMPTY.....	84,494.....	
BASIC.....	86,656.....	
DESIGN.....	140,000.....	3.8.
COMBAT.....	141,800.....	3.7.
MAX.T.O.....	160,000*.....	3.3.

All weights are calculated.

* Maximum anticipated loading.

FUEL AND OIL

<u>Gals.</u>	<u>No. Tanks</u>	<u>Location</u>
7944	2	Wing
3256	4	Fuselage
2740	2	Bomb bay

FUEL GRADE.....JP-4
 FUEL SPEC...MIL-F-5624A

OIL

CAPACITY(Gals.).....25
 SPEC.....MIL-L-7808

ORDNANCEGUNS

<u>No.</u>	<u>Size</u>	<u>Location</u>	<u>Rds.</u>
2	20mm	Tail	1000

FIRE CONTROL

Aero 23B AGL Tail Turret
 Aero X8A Minelaying system
 GPL Minelaying-Navigation system

BOMBS AND MINES

(Cont'd on NOTE page)

DIMENSIONS

WING
 AREA.....1900 sq.ft.
 SPAN.....102' -7"
 M.A.C.....20' -7"
 SWEEPBACK(1/4 CHORD)....40°
 LENGTH.....133' -5"
 HEIGHT.....34' -11"
 TREAD.....10' -10"

ELECTRONICS

INTERPHONE.....AN/AIC-5B
 RADIO.....AN/ARC-27
 RADIO(VOR).....AN/ARN-21
 ALTIMETER.....AN/APN-22
 DIRECTION FINDER....AN/ARA-25
 IFF.....AN/APX-20
 IFF.....AN/APA-89
 CHAFF DISPENSER....AN/ALE-4
 RADAR.....ASB-1
 ECM.....-

(Cont'd on NOTE page)

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BOMBS AND MINES

(Cont'd on NOTE page)

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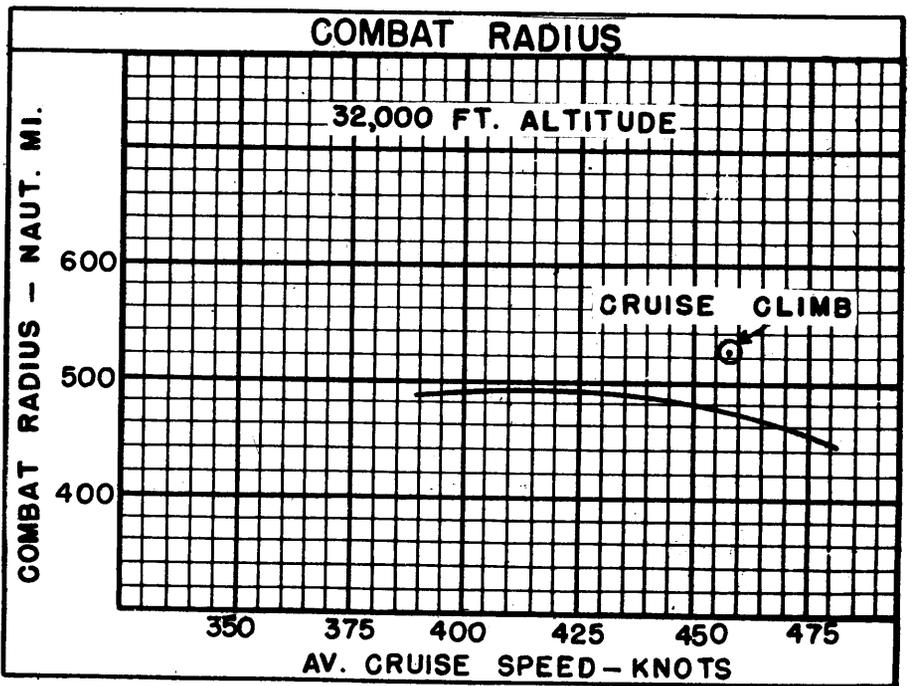
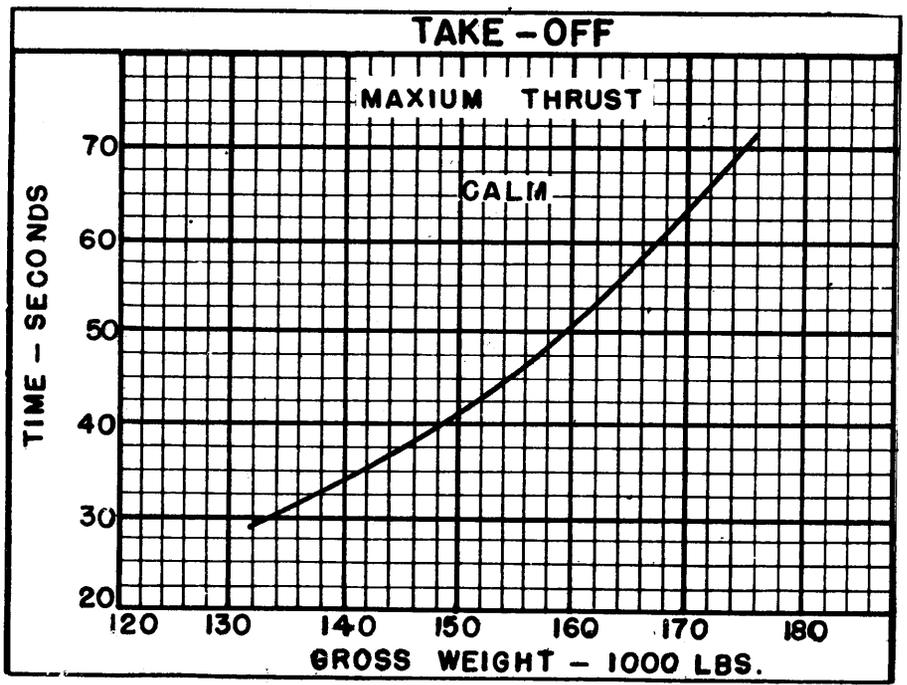
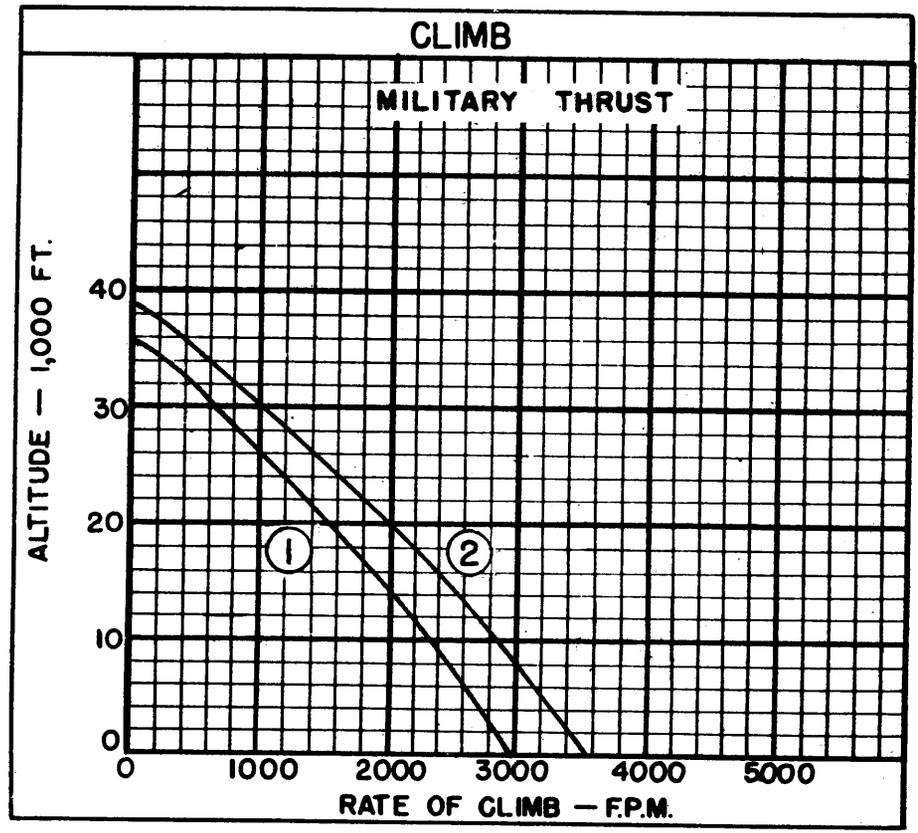
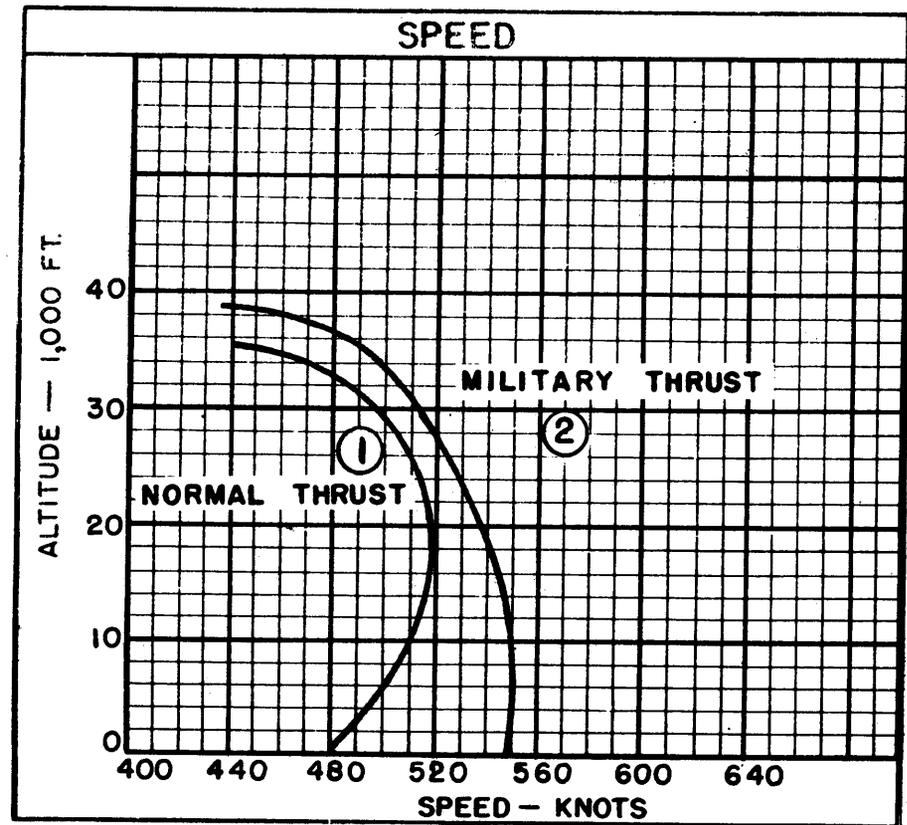
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 ALTIMETER.....AN/APN-22
 DIRECTION FINDER...AN/ARA-25
 IFF.....AN/APX-20
 IFF.....AN/APA-39
 CHAFF DISPENSER....AN/ALE-4
 RADAR.....ASB-1
 ECM.....-

(Cont'd on NOTE page)

DECLASSIFIED



○ LOADING CONDITION COLUMN NUMBER

DECLASSIFIED

9

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

NOTES

MINE LAYER

WARM-UP, TAXI, TAKE-OFF: 5 minutes at normal thrust plus 1 minute at maximum thrust at sea level.

CLIMB: To cruise altitude at military thrust.

CRUISE-OUT: At speed for long range at cruise altitude.

DESCEND: To sea level.

RUN-IN: 50 nautical miles at military thrust.

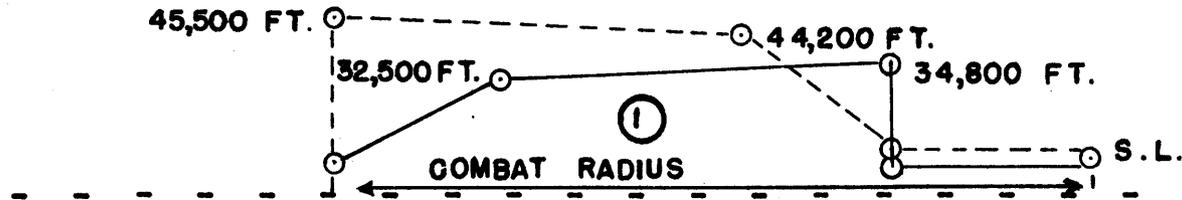
DROP MINES

RUN-OUT: 50 nautical miles at military thrust.

CLIMB: To cruise altitude at military thrust.

CRUISE-BACK: At speed for long range at cruise altitude.

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



Combat Radius (mine layer problem) is reduced approximately 4.5 nautical miles for each additional minute of military power operation.

HIGH ALTITUDE PHOTO RECONNAISSANCE

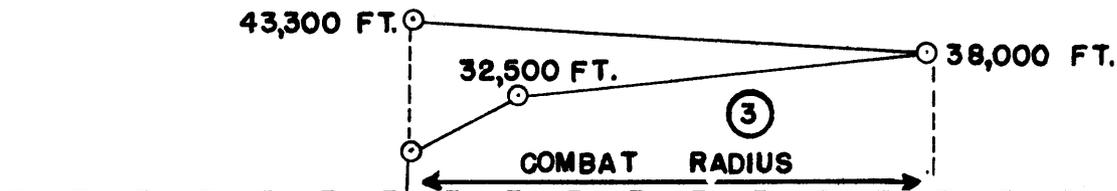
WARM-UP, TAXI, TAKE-OFF: 5 minutes at normal rated thrust plus 1 minute maximum thrust at sea level.

CLIMB: To cruise altitude at military rated thrust.

CRUISE-OUT: At speed for long range at cruise altitudes.

CRUISE-BACK: At speed for long range at cruise altitudes.

RESERVE: 10% of initial fuel load.



Rate-of-climb, at sea level, military thrust, one engine inoperative, flaps and gear retracted.

Gross Weight - lbs.

Rate-of-Climb - Ft./min.

80000

5210

120000

3250

160000

2200

180000

1825



LOADING CONDITION COLUMN NUMBER

DECLASSIFIED

NOTES

ORDNANCE (Cont'd)BOMBS AND MINES

<u>Type</u>	<u>Size</u>	<u>Location</u>	<u>No.</u>
MK 50	500#	Bomb Bay	36
MK 36-3	1000#	Bomb Bay	28
MK 25-2	2000#	Bomb Bay	15
MK 39-0	2000#	Bomb Bay	8
MK 19-2	500#	Bomb Bay	15
MK 10-9	1860#	Bomb Bay	5
T54E-2 (DEMO)	750#	Bomb Bay	21
EX 11 (G.P.)	2000#	Bomb Bay	5
MK 83-1 (G.P.)	1000#	Bomb Bay	14
EX-12 (G.P.)	500#	Bomb Bay	27
EX-2 (G.P.)	250#	Bomb Bay	27
XG-3A	1000#	Bomb Bay	15
AN-M-64A1 (G.P.)	500#	Bomb Bay	36
AN-M-65A1 (G.P.)	1000#	Bomb Bay	28
*AN-M-66, -66A-1 (G.P.)	2000#	Bomb Bay	15

* Requires Suspension Band

MAX. LOAD CAP. 30,000 lbs.

ELECTRONICS (Cont'd)

TAIL WARNING RADAR*..... AN/ALQ-2
 HF COMMUNICATIONS..... AN/ARC-38
 RADAR NAV. SYS..... AN/APN-66

* Receiver only

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