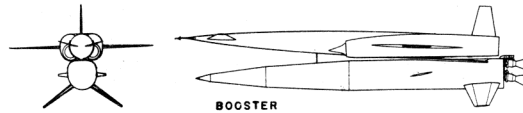
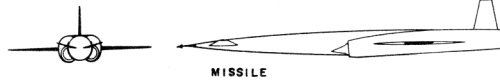
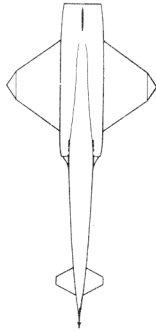


~~Confidential~~ *unclassified* C6
~~SECRET~~ XSM-64A NAVAHO/char

Black Book

Characteristics Summary

STRATEGIC MISSILE SM-64A



"NAVAHO"

NORTH AMERICAN

Wing Area 750.7 sq ft	Length (Missile) 87.3 ft
	(Booster) 91.5 ft
Span 40.2 ft	(Combination) 95.1 ft
	Height 14.9 ft

AVAILABILITY

PROCUREMENT

Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

STATUS

1. The SM-64A is the ultimate vehicle in the MX-770 (NAVAHO) program and will meet the military requirements for range. Tentative plans provide for preceding the SM-64A with a recoverable test version (XSM-64A)
2. Release of XSM-64A to detail design: Dec 54
3. Initial flight-XSM-64A: Jun 58 (est)
4. First flight-SM-64A: Sep 61 (est)

Navy Equivalent: None

Mfr's Model ---

POWER PLANT

(2) XRJ47-W-7

Wright Aero. Corp.

ENGINE RATINGS

ALT	-	LB	-	MACH
57,000		11,300		3.25

— BOOSTER —

No. & Model: (1) XLR83-NA-1
Mfr North American
Thrust (lb) 405,000
Duration (sec) 100

FEATURES

Low Thickness Ratio Trap-ezoidal wing
Completely Movable Forward Surfaces
Parallel Mounted Liquid Rocket Propelled Booster
Air Conditioned Guidance Compartment
Rocket Thrust Chambers Hinged for Control During Boost
Fuel Dumping Provisions

Max Fuel Cap: 12,572 gal

GUIDANCE

SYSTEM

*Inertial

CONTROL

System: Auto-Navigator and Auto-Pilot

*No radiating equipment

11 MAY 55

~~SECRET~~

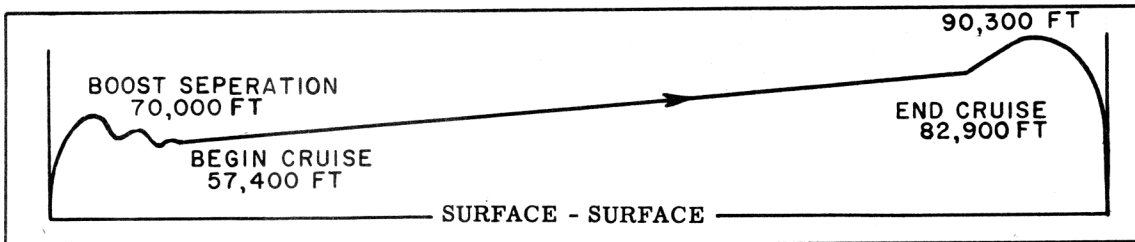
SM-64A

Initial Issue
Revised to reflect revision of status + features 14 Sep 55

unclassified
Classification cancelled or changed to unclassified
Auth: A.J. St. A.J. R. Sec. Cross Guide 1 Jan 64
By: A.R. Bonebrun 7 Apr 64
Signature and Grade 16 Dec 1966
11 Jun 68

4th Ed addn # 5

Characteristics Summary Basic Mission SM-64A



P E R F O R M A N C E		
ENDURANCE	RANGE	S P E E D
NOT AVAILABLE	5500 naut mi. with 7000 lb payload at 1868 knots avg. 3.25 Mach in 3.050 hours	CRUISE 1868 (3.25' Mach) at cruise power
LAUNCHING	CLIMB	ALTITUDE
Launched vertically from a concrete pad using an erector vehicle adaptable to emplaced or mobile concepts of operation.	NOT AVAILABLE	Begin Cruise 57,400 ft. End Cruise 82,900 ft.
L O A D	W E I G H T S	T A R G E T A C C U R A C Y
Fuel Booster: JP-5 7285 gal Oxidizer . . . 10,795 gal Missile: JP-5 12,572 gal Payload: 7000 lb	Empty (Missile) 24,490 lb Booster 12,850 lb Launch(Missile) 120,500 lb Booster 169,500 Combination 290,000 lb	50% hits within 2 nautical miles radius of target for 5500 nautical mile range.

N O T E S

1. Performance Basis:
 (a) Contractor's estimates not substantiated by WADC.
 2. Revision Basis: Initial Issue