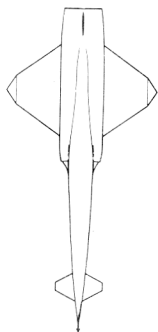
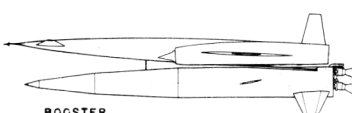
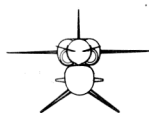


Characteristics Summary

STRATEGIC MISSILE SM-64A



MISSILE



BOOSTER

"NAVAHO"

NORTH AMERICAN

Wing Area 750.7 sq ft	Length (Missile) 87.3 ft
	(Booster) 91.5 ft
Span 40.2 ft	(Combination) 95.2 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 WS-104A (NAVAHO) program and will meet the military requirements for 5500 nautical mile range.
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
45,000	20,070	3.25

— BOOSTER —

Nr & Model: (1) XLR83-NA-1
 Mfr North American
 Thrust (lb) 415,000
 Duration (sec) 110

FEATURES

Low Thickness Ratio Trap-ezoidal wing
 Completely Movable Forward Surfaces, Rudder & Ailerons
 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

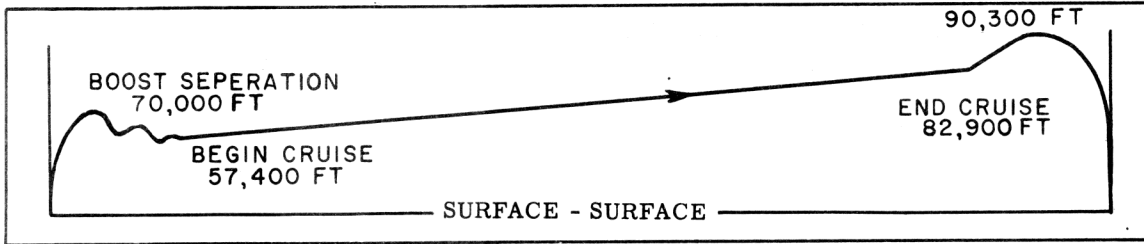
System: Auto-Navigator and Auto-Pilot

*No radiating equipment

Duplicate
 AUTH: 77 sq. ft. inc. cruise guide 900 dir
 By A.R. Johnson report 1 Jan 64 5200.10
 Signature and Grade 16 Dec 1966 19 Dec 69

Classification cancelled or changed to ~~Confidential~~

Characteristics Summary Basic Mission SM-64A



PERFORMANCE

ENDURANCE	RANGE	S P E E D
NOT AVAILABLE	<p>5500 naut mi.</p> with 7000 lb payload at 1868 knots avg. in 3.050 Mach 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	TARGET ACCURACY
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
2. Revision Basis: To revise status and engine data.