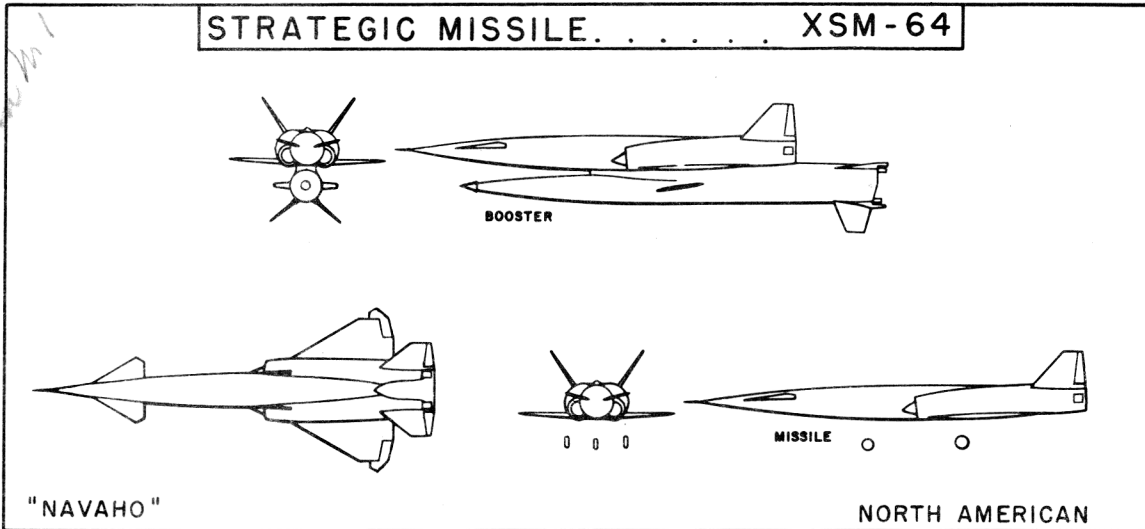


Block 100

Unclassified
~~Confidential~~
SECRET
XSM-64 NAVAHO/char

Characteristics Summary

STRATEGIC MISSILE XSM-64



"NAVAHO"

NORTH AMERICAN

Wing Area 418 sq ft Length (Missile) 67.8 ft
 (Booster) 76.4 ft
 Span 28.6 ft (Combination) 84.0 ft
 Height 17.3 ft

AVAILABILITY

PROCUREMENT

Number available

Number to be delivered in fiscal years

| ACTIVE | RESERVE | TOTAL |
|--------|---------|-------|
| | | |

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

STATUS

1. Mock-up: Jul 52
2. First flight: Nov 56
3. Completion of development: Sep 58

Navy equivalent: None

Mfr's model: - - - -

POWER PLANT

(2) XRJ47-W-5
Wright Aero. Corp.

ENGINE RATINGS

| ALT | LB | MACH |
|--------|------|------|
| 55,000 | 8050 | 2.75 |

BOOSTER

Nr & Model... (1)XLR71-NA-1
 Mfr North American
 Thrust (lb) 240,000
 Duration (sec) 64.8

FEATURES

Low delta wing
 Completely movable forward surfaces
 Parallel mounted liquid rocket propelled booster
 Air conditioned guidance compartment
 Recoverable thru glide brakes, drag chute and tricycle gear with brakes
 Max fuel cap: 6360 gal

GUIDANCE

SYSTEM

*Inertial
 ** { AN/ARW-55 and
 AN/ARW-56 command
 guidance for recovery

CONTROL

System: Auto-navigator & auto-pilot

* For advanced versions
 ** For early flight tests

Classification cancelled
 or changed to ~~Unclassified~~ ~~Confidential~~
 AUTH: A J G A G de la Cruz Jumbo 1 Jan 64
 By G R Sornborum Japox 19 Jan 64
 Signature and Grade 23 Feb 1967 19 Dec 69

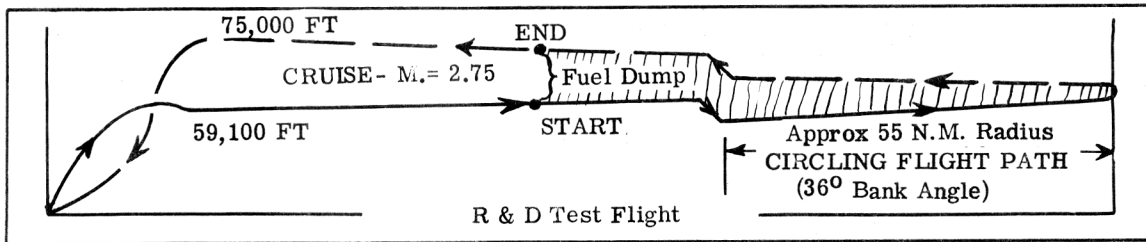
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XSM-64

4th ed addn #20

Characteristics Summary Basic Mission XSM-64



P E R F O R M A N C E

| ENDURANCE | RANGE | S P E E D |
|--|--|--|
| 46.3 minutes | 1061 naut mi. M = 2.75 Cruise | M = 2.75 at cruise power |
| LAUNCHING | CLIMB | ALTITUDE |
| Launched vertically from ground using booster providing 240,000 lb of thrust; booster separates at 48,300 ft. | _____ fpm sea level, launching wt., max power | Begin Cruise 59,100 ft. |
| | _____ fpm ft alt, begin cruise wt., max power | End Cruise 75,000 ft. |
| L O A D | W E I G H T S | R E C O V E R Y |
| Fuel Booster: Alcohol 4330 gal Oxidizer 4193 gal Missile: JP-5 6360 gal | Empty (Missile) 21,665 lb Booster 8546 lb Landing 23,100 lb Launch (Missile) 60,000 lb (Booster) 75,843 lb Combination 135,843 lb | Recovery made thru automatic control of flight path and air speed in power-off condition. Glide brakes used throughout letdown. Drag parachute and conventional brakes employed after touchdown on a tricycle gear. |

N O T E S

1. Performance Basis:
 - (a) Contractor's estimated data
2. Revision Basis:
 - (a) To revise performance
3. Future plans provide for advanced non-recoverable experimental versions which will be capable of flights to a range of 2435 nautical miles.