

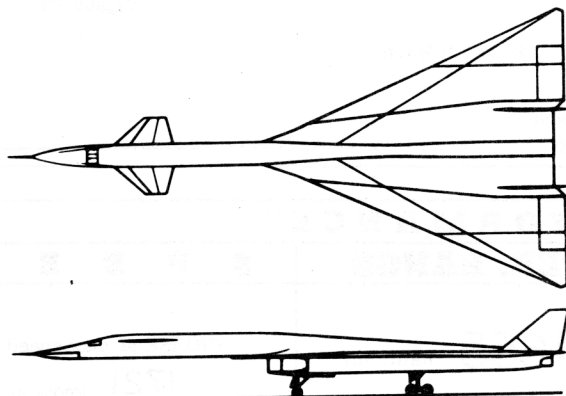
unclassified
~~CONFIDENTIAL~~

SECRET

A-1
(X)B-70a char
EXPERIMENTAL

Characteristics Summary

BOMBER (SUPERSONIC) XB-70 Air Vehicle Nr 3



VALKYRIE

NORTH AMERICAN

Wing Area 6298 sq ft. Length 185.8 ft.
Span 105.0 ft. Height 30.7 ft.

AVAILABILITY

PROCUREMENT

Number available

Number to be delivered in fiscal years

TEST	INVENTORY	TOTAL	FY 64			
			1			

STATUS

- 1. Design Initiated: Nov 55
- 2. Mock-up: Mar 59
- 3. First Flight Jul 64 (est)
- 4. Prototype air vehicles are to be used to obtain test data in the B-70 flight spectrum.

Navy Equivalent: None

Mfr's Model: NA-278

POWER PLANT

(6) YJ93-GE-3
General Electric

S.L.S.	LB	- RPM	- MIN
Max:	*28,000	- 6825	- Cont
Mil:	19,900	- 6825	- Cont
Nor:	17,700	- 6825	- Cont

*With afterburner

FEATURES

Crew 4
Canard
Airframe constructed from steel and titanium
Variable area inlet
Convergent-divergent exhaust nozzle
Folding wing tips
ILS AN/ARN-58
IFF radar AN/APX-46
UHF command AN/ARC-50
Interphone AN/AIC-18
TACAN AN/ARN-65

Max fuel capacity: 46,745 gal
Grade JP-6

GUIDANCE

Bomb-Nav Sys . . . AN/ASQ-28
Frequency Diversity Radar with high resolution attachment
Stellar Inertial Platform
Doppler Radar
Main & Emergency Digital Computers
Operator's Console

SPECIAL STORES

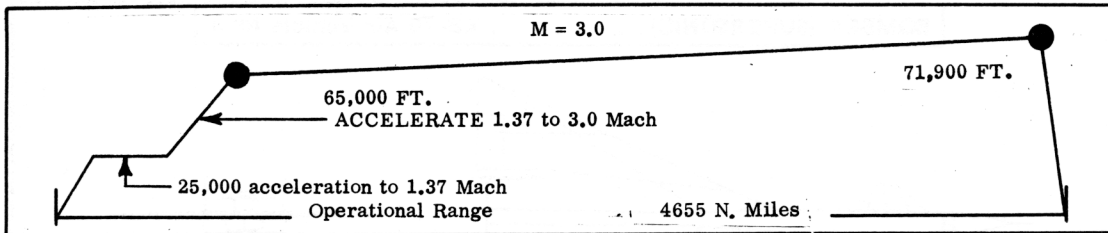
BOMBS:
Nr.
1 Class A
2 Class B
2 Class C
6-8 Class D

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Development 29 Mar 67
D.M. White

57WC-4983

Characteristics Summary Basic Mission . . . XB-70 Air Vehicle Nr 3



PERFORMANCE ⁽¹⁾		
COMBAT RADIUS	OPER. RANGE	S P E E D
NOT APPLICABLE	4655 naut. mi with 10,000 lb payload in 3.52 hours	CRUISE at max speed 1721 knots at 65,000-71,900 ft alt, min A/B
C L I M B	C E I L I N G	T A K E - O F F
10,000 fpm sea level, take-off weight maximum power	79,950 ft 100 fpm, 288,267 lb (3) maximum power	ground run 7940 ft no assist ft assisted
31,750 fpm sea level, 288,267 lb (3) maximum power	79,700 ft 500 fpm, 288,267 lb (3) maximum power	over 50 ft height 11,400 ft no assist ft assisted
L O A D	W E I G H T S	MIN. SAFE SPEED
10,000 lb Store Fuel: 45,992 gal protected 0 % droppable 0 % external 0 %	Empty..... 205,284 lb Combat . . . 288,267 lb (3) Take - off 542,029 lb limited by mission	164 knots T.O. wt. 109 knots Landing wt. with canard flaps down

- N O T E S**
1. Performance Basis: Estimated data
 2. Revision Basis: Reordinated
 3. 288,267 lb is the weight 1200 N. Mi. prior to mission completion.