

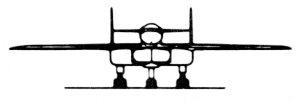
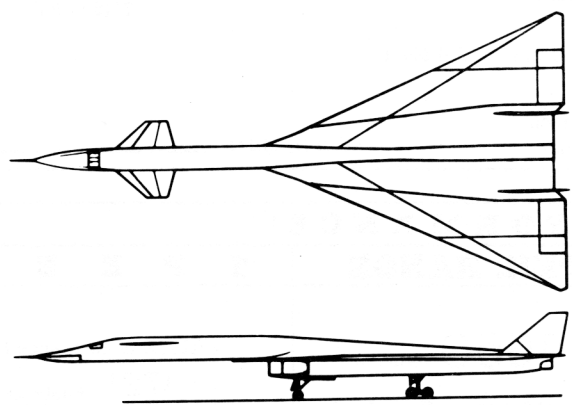
*unclassified*  
~~CONFIDENTIAL~~

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

- Design Initiated: . . . . . Nov 55
- Mock-up: . . . . . Mar 59
- First Flight . . . . . Jul 64 (est)
- 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-type trimming device  
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:

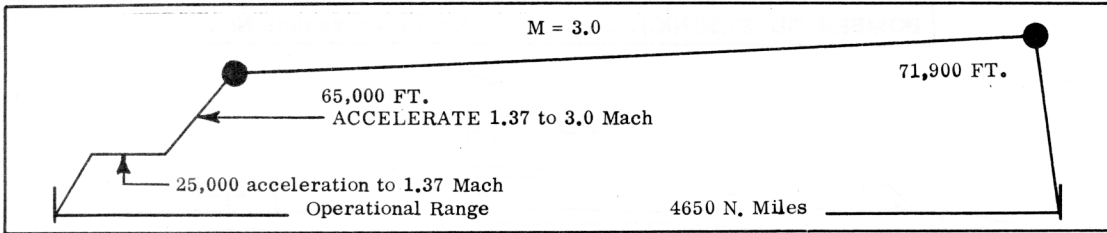
Nr.	
1	Class A
2	Class B
2	Class C
6-8	Class D

DOWNGRADED AT 3 YEAR INTERVALS;  
DECLASSIFIED AFTER 12 YEARS  
DOD DIR 5200.10  
a. r. *28 Mar 67*

*D.M. White 2/19/59*

*57WC-4983*

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



<b>PERFORMANCE</b> <sup>(1)</sup>		
<b>COMBAT RADIUS</b>	<b>OPER. RANGE</b>	<b>S P E E D</b>
NOT APPLICABLE	4650 naut. mi with 10,000 lb payload	CRUISE at max speed 1721 knots at 65,000-71,900 ft alt, min A/B
<b>C L I M B</b>	<b>C E I L I N G</b>	<b>T A K E - O F F</b>
10,000 fpm sea level, take-off weight maximum power	79,950 ft 100 fpm, 288,467 lb (3) maximum power	ground run 7940 ft   ft no assist   assisted
31,750 fpm sea level, 274,557 lb (3) maximum power	79,700 ft 500 fpm, 274,557 lb (3) maximum power	over 50 ft height 11,400 ft   ft no assist   assisted
<b>L O A D</b>	<b>W E I G H T S</b>	<b>MIN. SAFE SPEED</b>
10,000 lb Store  Fuel: 45,992 gal protected 0 % droppable 0 % external 0 %	Empty..... 205,284 lb 288,467 lb (3)  Take - off 542,029 lb  limited by mission	164 knots T.O. wt. 107 knots Landing wt.  with canard flaps down

- N O T E S**
1. Performance Basis: Estimated data
  2. Revision Basis: Data reCOORDINATED and mfr's model nr changed.
  3. 288,467 lb is the weight 1200 N.Mi. prior to mission completion.