

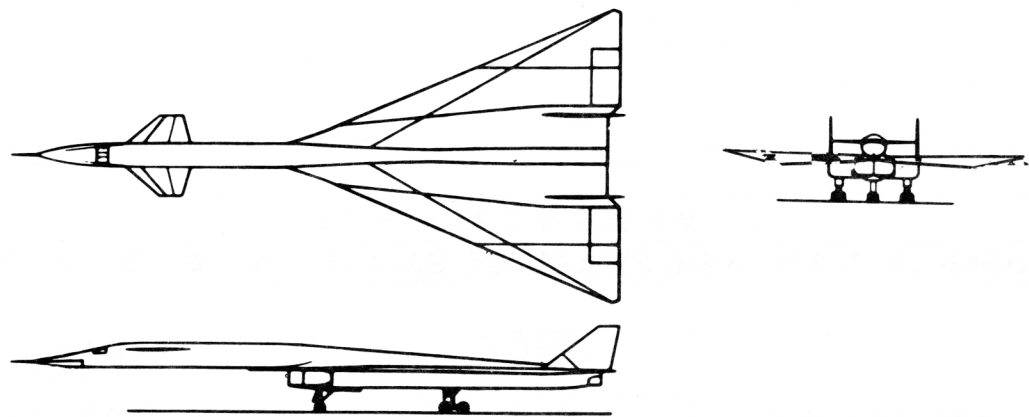
Unclassified
~~CONFIDENTIAL~~

A1
(X) B-70A/char

EXPERIMENTAL

Characteristics Summary

BOMBER (SUPERSONIC) XB-70A Air Vehicle Nr 2



VALKYRIE

NORTH AMERICAN

Wing Area 6297 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 65			
			1			

STATUS

1. Primary purpose of the vehicle is to demonstrate airworthiness in a sustained Mach 3 high altitude environment.
2. Design Initiated: Nov 55
3. Mock-up: Mar 59
4. First Flight, Air Vehicle Nr 2: Jul 65
5. Sustained Mach 3.0 Flight (32 Min): 19 May 66
6. Destroyed in Crash: 8 Jun 66

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 2
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: 47,470 gal
Grade JP-6

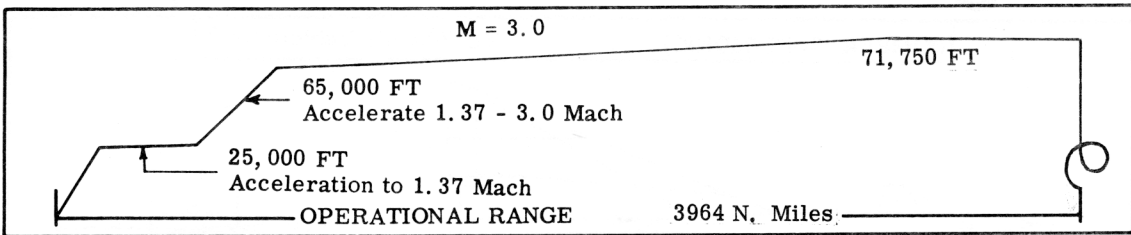
SPECIAL STORES

NOT APPLICABLE

Classification cancelled or changed to *Unclassified*
 AUTH: 87th 4907N/5916E dtl 25 Aug '71
 By *Edward M. White, GS-9, 3/8/77*
 Signature and Grade

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

Characteristics Summary Basic Mission XB-70A Air Vehicle Nr 2



P E R F O R M A N C E		
COMBAT RADIUS	OPERATING RANGE	S P E E D
NOT APPLICABLE	3964 naut. mi with 44,439 gal fuel at knots avg. in 3.15 hours at 542,029 lb T.O. wt.	MAX 1721 knots at 65,000 - 71,750 ft alt, Min A/B power
C L I M B	C F I L I N G	T A K E - O F F
6830 fpm sea level, take-off weight military power	76,950 ft 100 fpm, combat weight max. power	ground run 8100 ft no assist ft assisted
30,350 fpm sea level, combat weight maximum power	76,750 ft 500 fpm, combat weight maximum power	over 50 ft height 11,500 ft no assist ft assisted
L O A D	W E I G H T S	M I N . S A F E S P E E D
Fuel: 44,439 gal protected % droppable % external % Density: JP-6 lb/gal (6.55)	Empty..... 230,876 lb Combat... 313,086 lb Take - off 542,029 lb	163.4 Knots - T. O. Wt 113.0 knots - Landing Wt
		T I M E T O C L I M B

N O T E S

1. Performance Basis:
 (a) Based on actual weight of air vehicle. Flight test instrumentation & instrumentation package not included.
 (b) 313,086 lbs is the weight 1200 n. miles prior to mission completion.
 Revision Basis: No change