Characteristics Summary

BOMBER (SUPersonic)...... XB-70A Air Vehicle Nr 1

VALKYRIE

Wing Area ............................. 6298 sq ft.  Length ............................. 185.3 ft.
Span ................................. 105.0 ft.  Height ............................. 30.7 ft.

NORTH AMERICAN

AVAILABILITY

<table>
<thead>
<tr>
<th>Number available</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST</td>
<td>INVENTORY</td>
</tr>
<tr>
<td></td>
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</table>

PROCUREMENT

<table>
<thead>
<tr>
<th>Number to be delivered in fiscal years</th>
</tr>
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<tbody>
<tr>
<td>FY 65</td>
</tr>
<tr>
<td>1</td>
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</tbody>
</table>

STATUS

1. Design Initiated: Nov 55
2. Mock-up: Mar 59
3. First Flight, Air Vehicle Nr 1: Sep 64
4. Experimental air vehicles are to be used to obtain test data in the B-70 flight spectrum.
5. Roll out at contractor's plant: 11 May 64

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:  19,000 - 6825  - Cont
Nor:  17,700 - 6825  - Cont
*With afterburner

FEA TURES

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/ARC-18
TACAN  ................. AN/ARN-65

Max fuel capacity: 43,646 gal
Grade ............................. JP-6

SPECIAL STORES

NOT APPLICABLE

Feb 65

(AFG 1,Addn 70) (11 of 82)
### Performance

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>M = 3.0</td>
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</tr>
<tr>
<td>65,000 FT</td>
<td></td>
</tr>
<tr>
<td>Accelerate 1.37 - 3.0 Mach</td>
<td></td>
</tr>
<tr>
<td>25,000 FT</td>
<td></td>
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<tr>
<td>Acceleration to 1.37 Mach</td>
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</tbody>
</table>

#### Operational Range
- 3726 N. Miles

#### Speed
- Max: 1721 knots at 65,000-72,500 ft alt, min A/B power
- With 41,688 gal fuel
  - at 3.00 knots avg.
  - in 3.00 hours
  - at 521,056 lb T.O. wt.

#### Climb
- 7170 fpm sea level, take-off weight
  - mil power
- 30,380 fpm sea level, combat weight
  - maximum power

#### File Line
- 77,350 ft 100 fpm, combat weight
  - max power
- 77,100 ft 500 fpm, combat weight
  - maximum power

#### Take-off
- 7400 ft ground run
  - no assist
  - assisted
- Over 50 ft height
  - 10550 ft no assist
  - assisted

#### Load Weights
- Empty: 231,215 lb
- Combat: 309,590 lb
- Take-off: 521,056 lb

#### MIN. SAFE SPEED
- 160.5 knots - T.O. Wt.
- 112.3 knots - Landing Wt

#### NOTES
1. Performance Basis:
   - (a) Performance is based on actual empty weight of air vehicle.
   - Flight test instrumentation and instrumentation package not included.
   - (b) 309,590 lbs is the weight 1200 N Miles prior to mission completion

Revision Basis: To reflect latest characteristics and performance based on actual weight.