**Characteristics Summary**

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

**VALKYRIE**

<table>
<thead>
<tr>
<th>Wing Area</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>6297 sq ft.</td>
<td>185.8 ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Span</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>105.0 ft.</td>
<td>30.7 ft.</td>
</tr>
</tbody>
</table>

**Availability**

<table>
<thead>
<tr>
<th>Number available</th>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST</td>
<td>TOTAL FY 65</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
</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 vehicle is 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: 19,960 - 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/AIO-18
- TACAN: AN/ARN-65

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

**Special Stores**

NOT APPLICABLE

Apr 67

(AFg 1, Addn 84) 11 of 64

Confidential

XB-70A Air Vehicle Nr 1

System 110A
### Performance

**Combat Radius**
- **Operating Range**: NOT APPLICABLE

**Speed**
- MAX 1721 knots at 65,000-72,500 ft alt, min A/B power

**Climb**
- 7170 ft/s at sea level, take-off weight
- 30,380 ft/s at sea level, combat weight

**Take-off**
- 7400 ft ground run

**Loading Weights**
- Empty... 231,215 lb
- Combat... 309,590 lb
- Take-off 521,056 lb

**Fuel**
- 41,688 gal, protected 40%, droppable 30%, external 30%
- Density: JP-6 1 lb/gal (6.55)

**Minimum Safe Speed**
- 160.5 knots - T.O. Wt.
- 112.3 knots - Landing Wt

**Time to Climb**
- 7400 ft no assist
- 10,550 ft no assist

### Notes

1. Performance Basis:
   - Performance is based on actual empty weight of air vehicle.
   - Flight test instrumentation and instrumentation package not included.
2. 309,590 lbs is the weight 1200 N Miles prior to mission completion
3. Aircraft uses either JP-5 or JP-6 fuels

Revision Basis: To reflect latest characteristics and performance.