**Characteristics Summary**

**FIGHTER (INTERCEPTOR) . . . . F-102B**

<table>
<thead>
<tr>
<th>Wing area</th>
<th>661.5 sq ft</th>
<th>Length</th>
<th>52.5 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Span</td>
<td>37.0 ft</td>
<td>Height</td>
<td>18.0 ft</td>
</tr>
</tbody>
</table>

**CONSOLIDATED-VULTEE**

**AVAILABILITY**

<table>
<thead>
<tr>
<th>Number available</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
</tr>
</tbody>
</table>

**PROCUREMENT**

<table>
<thead>
<tr>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
</table>

**STATUS**

1. Design Initiated: Sep 50
2. Contract Date: Aug 51
3. First Flight: Aug 55 (est)

Navy Equivalent: None

Mfr's Model: 8

**POWER PLANT**

(1) YJ67 - W - 1
Wright

**ENGINE RATINGS**

<table>
<thead>
<tr>
<th>S.L.S.</th>
<th>LB - RPM - MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max: 21,500-16175/8000-5</td>
<td></td>
</tr>
<tr>
<td>Min: 13,200-16175/8000-5</td>
<td></td>
</tr>
</tbody>
</table>

*With afterburner operating

†First figure represents RPM of low pressure spool while the second that of the high pressure spool.

**FEATURES**

| Crew | 1 |
| Delta Wing |
| Single Vertical Stabilizer |
| Ejection Seat |
| Cockpit Pressurization |
| Drag Chute |
| Power Operated Controls |

**Hughes Fire Control System (MX-1179)**

Max Fuel Capacity: 1550 gal

**ARMAMENT**

| Guns | None |
| Bombs | None |
| Missiles | 6 x XGAR-1A |
| Rockets | .24 x 2.75" FFAR or .96 x 2.75" FFAR |

*Alternate provisions: additional rocket tubes suspended in missile bay.

2 NOV 53  SEC R E T

F-102B
CHARACTERISTICS SUMMARY基本MISSION

F-102B

PERFORMANCE

INTERCEPT

POINT
Total Mission Time for
Interception at 57,600 ft.
Equals 90 minutes

Ferry Range
1110 naut. mi.
with 1050 gal. fuel
at 518 knots avg.
in 2.1 hours
at 25,862 lb. T.O. wt.

SPEED
Point
Combat 570 knots at
57,600 ft. alt., max. power
Max 1173 knots at
35,000 ft. alt., max. power
Basic 1143 knots at
50,000 ft. alt., max. power

CLIMB CEILING TAKE-OFF

POINT
46,000 fpm. at S.L.
Take-Off Weight, Max. Power

CEILING
58,500 ft. at 100 fpm,
Take-Off Weight, Max. Power

TAKE-OFF
Point
49,000 fpm. at S.L.
Combat Wt., Max. Pct.

POINTER
57,600 ft. at 500 fpm,
Combat Weight, Max. Power

CEILING
1980 ft.
no assist

TAKE-OFF
1370 ft.
no assist

LOAD WEIGHS

Point
6) XGAR-IA
Rockets: (24) 2.75” FFAR

WEIGHTS

Empty 18,654 lb.
Combat 24,550 lb. Point

STALLING SPEED

Area 127 knots
power-off, landing config-
uration, take-off weight

TIME TO CLIMB

Point
(b) 3.8 Min.
S.L. to 50,000 Ft.
Take-Off Weight, Max. Power

NOTES

1. Performance Basis:
   (a) Estimated data (not substantiated by WADC)
   (b) From standing start

2. Revision Basis: Initial issue