CHARACTERISTICS SUMMARY

GENERAL PURPOSE FIGHTER F5D-1
DOUGLAS SKYLANCER

WING AREA 557 Sq. Ft.
WING SPAN 33.5 Ft.
LENGTH 53.8 Ft.
HEIGHT 14.8 Ft.

<table>
<thead>
<tr>
<th>AVAILABILITY</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER AVAILABLE</td>
<td>NUMBER DELIVERED IN FISCAL YEARS</td>
</tr>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

STATUS

First Flight: 21 April 1956
SR-38 Part I completed: September 1957
SR-38 Part II local completed: March 1958
BIS start: April 1958
Service use: 1958

SERVICE

ENGINES
(1) Pratt & Whitney J57-P-8

<table>
<thead>
<tr>
<th>THRUST</th>
<th>MIL + A/B</th>
<th>Military</th>
<th>Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000</td>
<td>16,000</td>
<td>10,200</td>
<td>8,700</td>
</tr>
</tbody>
</table>

FEATURES
Aero 24A Armament Control System providing all-weather manual and automatic operation with the noted armament.
In-flight re-fueling.
Pressure fueling.

ARMAMENT
72 2-in. Rockets
2 Sparrow II AAM
4-30mm Mk.12-O fixed guns with a total of 470 rounds of ammunition.

NOV 12 1955
# CHARACTERISTICS SUMMARY

**BASIC MISSION** F5D-1

- 42,500 Ft.
- 37,500 Ft.
- 38,900 Ft.
- 40,500 Ft.
- 40,000 Ft.

### PERFORMANCE

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>COMBAT RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>402 naut. mi. at 523 knots avg. in 1.89 hours</td>
<td>1159 naut. mi. at 523 knots avg. in 2.2 hours</td>
<td>828 kn. (M = 1.44) at 35,000 ft. Combat Weight Maximum Thrust 563 kn. (M = .98) at 35,000 ft. Combat Wt., Mil. Thrust</td>
</tr>
</tbody>
</table>

### CLIMB

- 5560 ft./min. Sea Level, T.O. wt. Military Thrust
- 10,200 ft./min. 35,000 ft., Combat Wt. Maximum Thrust

### CEILING

- 49,200 ft.
- 100 ft./min. T.O. wt. Military Thrust
- 47,900 ft.
- 500 ft./min. Combat wt. Maximum Thrust

### TAKE OFF

- 4000 ft. Calm Minimum Ground Run
- 2850 ft. - 25 kn. Wind Minimum Ground Run

### LOAD

- Fuel 1333 gal. (JP-5) 72 2-in. Rockets

### WEIGHTS

- Empty 17,444 lbs.
- Combat 24,445 lbs.
- Take-off 28,072 lbs.

### STALLING SPEED

- 122 knots Take-off weight Power off

### TIME TO CLIMB

- 30,000 ft. in 7.9 min. Take-off weight Military Thrust

### NOTES

Performance is based on preliminary flight tests of F5D-1 with uncambered inlet duct and 72 2-inch rockets.

Combat missions are based on fuel consumption from Pratt & Whitney specification N-1694B for the J57-P-8 engine dated 9-15-55 increased 5%.