Characteristics Summary

TANKER ............ KB-50 J&K

Wing Area ............... 1720 sq ft  Length .................... 105.1 ft
Span ..................... 141.2 ft  Height ................... 33.6 ft
(flat folded) ............ 20.6 ft

<table>
<thead>
<tr>
<th>AVAILABILITY</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number available</td>
<td>Number to be delivered in fiscal years</td>
</tr>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

STATUS

1. The KB-50J and K airplanes are identical except by origin. The KB-50J's are modified B-50D and TB-50D aircraft. The KB-50K's are modified TB-50H's. Major modifications are:
- addition of 477-GE-23 engines in pods suspended on pylons in place of external fuel tanks and pylons, and incorporation of a fuselage refueling reel extended fairlead mechanism which results in a six feet increase in fuselage length.
- First Flight ... Dec 57
- First Accept ... Jan 58
- Prod. Completion ... (128 A/C) Oct 58 (est)
- Mfr's Model: 

POWER PLANT

(4) R-4360-35 or 35A
Pratt & Whitney
ENGINE RATINGS
BHP - RPM - ALT - MIN
T.O.* 3500 - 2700 - Turbo - 5
3250 - 2700 - Turbo - 9
3250 - 2700 - Turbo - 30
Cont
Mil: 3250 - 2700 - Turbo - 30
Navy: 2650 - 2550 - Turbo - 30
*Wet: (Approx 8 min water plus supply)
(2) 1477-GE-23 General Electric
S.L.Static LB - RPM - MIN
Max: 5910 - 7950 - 5
Mil: 5620 - 7800 - 30
N: 5270 - 7630 - Cont

FEATURES

Crew ................. 6
- Cabin pressurization and heating
- Type A-12B-1 flight refueling reels
- Type MA-2 reception coupling
- Simultaneous aerial refueling of three fighter type aircraft by probe and drogue method
Max fuel cap: 12,467 gal

ARMAMENT

All defensive armament removed
### Characteristics Summary Basic Mission... KB-50 J & K

#### Performance

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 naut. mi with 31,263 lb payload at 219 knots avg. in 10.1 hours.</td>
<td>4727 naut. mi with 12,487 gal fuel at 191 knots avg. in 24.8 hours at 176,478 lb T.O. wt.</td>
<td>COMBAT 376 (b) (d) knots at 23,000 ft alt, max power</td>
</tr>
<tr>
<td>MAX 386 (363) (b) knots at 17,000 ft alt, max power</td>
<td>BASIC 319 (b) (d) knots at 5000 ft alt, max power</td>
<td></td>
</tr>
</tbody>
</table>

#### Climb

<table>
<thead>
<tr>
<th>Sea level, take-off weight METO power</th>
<th>Sea level, combat weight maximum power</th>
</tr>
</thead>
<tbody>
<tr>
<td>1470 fpm</td>
<td>3260 fpm</td>
</tr>
</tbody>
</table>

#### Ceiling

<table>
<thead>
<tr>
<th>Sea level, take-off weight METO power</th>
<th>Sea level, combat weight maximum power</th>
</tr>
</thead>
<tbody>
<tr>
<td>32200 ft</td>
<td>38800 ft</td>
</tr>
</tbody>
</table>

#### Take-off

<table>
<thead>
<tr>
<th>Ground run</th>
<th>No assist</th>
<th>Assisted</th>
</tr>
</thead>
<tbody>
<tr>
<td>4750 ft</td>
<td>——— ft</td>
<td>——— ft</td>
</tr>
</tbody>
</table>

#### Load Weights

<table>
<thead>
<tr>
<th>Transfer Fuel: 31,263 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty... 93,155 lb</td>
</tr>
<tr>
<td>Combat... 116,350 lb</td>
</tr>
<tr>
<td>Take-off 178,629 lb</td>
</tr>
</tbody>
</table>

#### Stalling Speed

116 knots power-off, landing configuration, take-off weight

#### Time to Climb

—

### Notes

1. Performance Basis:
   - (a) Data based on flight tests of KB-50 J aircraft.
   - (b) The speeds shown are limit airspeeds and can be attained at power settings less than maximum.
   - (c) Speed in parenthesis are for all hoses and drogues extended.
   - (d) These speeds are for hoses and drogues extended or retracted.


3. Revision Basis: To incorporate current flight test data and increased gross weight.