Characteristics Summary

TACTICAL FIGHTER X (W.S. 324A) . . . . . . . . TYPICAL DESIGN

WADD 46

Wing Area (wgs out) .......... 500 sq ft Length ......................... 73.0 ft
Span .......................... 70.0 ft Height ......................... 19.0 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>TEST</th>
<th>INVENTORY</th>
<th>TOTAL</th>
</tr>
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</table>

PROCUREMENT

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

Official go-ahead was received on 5 Sep 61. Present planning is being revised to reflect Joint Service (USAF & Navy) participation. Request for proposal was submitted to industry Oct 61; contract award was made to General Dynamics Corp and Boeing Co on 1 Feb 62.

Elimination of the unsuccessful contractor will be made as a direct result of source selection re-evaluation being conducted. The Pratt & Whitney Aircraft Division of United Aircraft Corp was selected as engine contractor.

POWER PLANT

(2) TF-30 (TF10A-20)
Pratt & Whitney

ENGINE RATINGS

SLS  LB  -  RPM  -  MIN
Max  *15,500  -  14,000  -  30
Mil  10,700  -  14,500  -  30
Nor  9500  -  14,000  -  Cont

*With afterburner operating

FEATURES

Crew  ....................... 2
Short T.O. and Landing Capability
Reconnaissance Capability
Variable Sweep Wing

Forward Looking Radar
Weapons Bay

Fuel Capacity (Internal) 3700 gal

ARMAMENT

The complete spectrum of nuclear and conventional weapons may be carried. The majority of these weapons can be carried in the weapons bay, although external carriage for conventional weapons is provided.

Downgraded at 3 year intervals:
Declassified after 12 years

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### Performance

**Combat Radius**

- (LO - LO - HI)
  - 800 naut. mi
  - with 2000 lb payload

**Ferry Range**

- 3920 naut. mi
- with 4000 gal fuel
- at 400 knots avg.
- in 9.8 hours
- at 60,000 lb T.O. wt.

**Speed**

- COMBAT: 1.2 Mach at 500 ft alt, max power
- MAX: 2.5 Mach at 40,000 ft alt, max power
- BASIC: 1.2 Mach at 500 ft alt, max power

**Ceiling**

Approximate:

- 600 naut. mi
- at 2.2 Mach
- at 60,000 lb T.O. wt

**Take-Off**

- Ground run: 1682 ft, no assist
- Over 50 ft height: 2200 ft, no assist

**Load Weights**

- Design Mission:
  - Special Store: 2000 lb
- Fuel:
  - 3760 gal protected
  - 0%
  - droppable: 0%
  - external: 0%

- For WADD 46
  - Empty: 33,083 lb
  - Combat: 48,000 lb
  - Take-off: 60,000 lb

**Landing Dist**

- Over 50 ft obstacle
  - wt = 37,500 lb
- W/Thr Rev: 2590 ft
- W/O Thr Rev or Drag Chute: 4000 ft

### Notes

1. Performance Basis:
   - (a) Estimated data
   - (b) The Load, Weights, Landing Distance data reflect the characteristics of the WADD 46 (60,000 lb) configuration for this weapon system and present values which can be expected for an air vehicle of this size incorporating variable sweep wing design.


3. Revision Basis: Data recoordinated.