

S E C R E T

Date 23 April 1945

CONTRACTOR & TYPE Boeing - Medium Bombardment MODEL XB-47

No. on Contract & Delivery Date Letter contract for Phase I engineering has been signed.

Expend. Ord. No. or Contract No. & Date W33-038-ac-8429 Proj. No. MX-584

Spec. No. D-6171

I. POWER PLANT

- (1) No. of Engines 4 (Mfr. & Type) General Electric TG-180
- (2) ~~Supercharger~~ Axial Flow Compressor
- (3) Propeller None Red. Gr. Ratios
- (4) Engine Ratings BHP/RPM/Alt.
 - a. T. O.
 - b. Normal
 - c. Mil. 4,000 lb. thrust at sea level at 0 mph.
 - d. W. E.

II. PERFORMANCE (Des. Gross Wt. less one-half fuel) Sea Level Tactical Operating Alt.

- (1) High Speed MPH/Alt./BHP 496/Military 526/35,000/Military
- (2) Rate of Climb FPM/Alt./BHP 2000/Military
 - Mil. Power
 - War Emer. Power
- (3) Time to Climb Min./Alt./BHP
- (4) Range or Endurance

	G. W. (lbs.)	Mi. or Hrs.	MPH or BHP	Fuel (gal.)	Bombs (lbs.)
a. D. G. W. no bombs	<u>100,000</u>	<u>2,900</u>	<u>406</u>	<u>4,888</u>	<u>8,000</u>
b. D. G. W. max. bombs					
c. Alt. G. W. no bombs					
d. Alt. G. W. max. bombs					
e.					
- (5) Ceilings

	Altitude (ft.)	BHP
a. Combat		
b. Service, all engines	<u>41,700</u>	<u>Military thrust</u>
c. Service, half engines	<u>20,400</u>	<u>" "</u>
- (6) Take-off & Land over 50' obst.

	Take-off	Landing	Weight
a. D. G. W.	<u>5,400</u>		<u>100,000</u>
b. Alt. G. W.		<u>4,100</u>	<u>53,400</u>

III. CHARACTERISTICS

- (1) Wing
 - a. Area (sq. ft.) 1,200
 - b. Span (ft.) 113.75
 - c. M. A. C. (inches) 142.6
 - d. Dihedral, L. E., Top surf. 4.5 deg.
 - e. Sections

	Chord (in.)	Incidence	Designation
1. Root	<u>185</u>	<u>2 deg.</u>	<u>10%</u>
2. Tip	<u>89</u>	<u>2 deg.</u>	<u>10%</u>
 - f. Sweepback
- (2) Weight & Structure
 - a. Wt. Empty (lbs.) 56,295
 - b. Design U. L. (lbs.) 43,705
 - c. Gross Weight

	Pounds	Lim. Factor	Wing Loading	C.G. % MAC (whls. up)
1. Design	<u>100,000</u>	<u>3.00</u>	<u>77</u>	<u>32.7</u>
2. Max. Alt.				

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III. CHARACTERISTICS (Cont.)

(2) d. Group Weights

1. Wing	<u>16,800</u>	4. Al. Gr.	<u>6,070</u>	7. F.E.	<u>6,015</u>
2. Tail	<u>1,720</u>	5. Eng. Sect.	<u>1,950</u>		
3. Body	<u>10,000</u>	6. Pwr. Plt.	<u>13,740</u>		

e. Type of Structure Semi-Monocoque

(3) Aerodynamic Data

a. Wetted Area (sq. ft.) b. f. 20 c. e.

(4) Alighting Gear

a. Wheel Size—Main	<u>70"</u>	Nose	XXX <u>33"</u>
b. Tread	<u>19"</u>	c. Wheel Base	<u>33.5'</u>

(5) Over all Length 101' - 8" (6) Fuselage Height 150" Width 144"

(7) Crew Normal 3 Alternate 3

IV. ARMAMENT

(1) Guns & Cannon No. Cal. Rds/Gun Type or Position

a. Normal	<u>2</u>	<u>.50</u>	<u>500</u>	<u>Tail turret</u>
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b. Alternate	<u>2</u>	<u>.60</u>	<u>350</u>	<u>Tail turret</u>
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(2) Bombs	a. Normal	b. Alternate
	<u>No.</u> <u>Size</u>	<u>No.</u> <u>Size</u>
	<u>16</u> <u>500</u>	<u>24</u> <u>500</u>
		or <u>18</u> <u>1,000</u>
		or <u>6</u> <u>2,000</u>
		or <u>4</u> <u>4,000</u>
		or <u>1</u> <u>10,000</u>
		or <u>1</u> <u>12,000</u>
		or <u>1</u> <u>22,000</u>

V. ARMOR & FUEL PROTECTION (Describe) Flak protection for crew and engines. Self-sealing fuel tanks and lines.

VI. OTHER ITEMS (Radio, Oxygen, Etc.) Radio consists of VHF command set, Liaison Set, Radio compass, Marker Beacon, Blind Landing Equipment, and Inter-phone Equipment. Pressure demand oxygen system.

VII. SPECIAL FEATURES Pressure cabin, radar bombsight, and gun laying equipment.

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