

# STANDARD AIRCRAFT CHARACTERISTICS

## ZPG-2

GOODYEAR



## POWER PLANT

NO. & MODEL.....(2) R-1300-2A  
 MFR.....WAC  
 SUPERCH.....1 Stage, 1 Speed  
 RED. GEAR RATIO.....0.338  
 PROP. MFR.....Curtiss  
 BLADE DESIGN NO.....C6348-C16  
 NO. BLD/DIA.....3/16" 7"

## RATINGS

BHP • RPM • ALT.

TAKE-OFF	800	2600	0-3,500 ft.
NORMAL	700	2400	0-5,000 ft.

## ELECTRONICS

For Airships BUAER Serial No.  
 135445 through 135448

Radio Alt.....AN/APN-22  
 Loran.....AN/APN-70  
 Range Rec.....AN/ARC-5  
 IFF.....AN/APX-6 or 6B  
 IFF.....AN/APX-7  
 Radio Compass.....AN/ARN-6  
 ICS.....AN/AIC-7A  
 MAD.....AN/ASQ-8  
 ECM.....AN/APR-9B  
 ECM.....AN/APR-4AY or AN/ALR-5  
 ECM.....AN/APA-7A  
 ECM.....AN/ALA-2  
 ECM-DF.....AN/APA-69  
 Marker Beacon.....AN/ARN-12  
 Transmitter MEF.....AN/ART-13  
 Receiver MEF.....AN/ARR-15A  
 Search Radar.....AN/APS-20B  
 Sonobuoy Rec.....AN/ARR-26  
 Sonar.....AN/ASQ-2  
 Trans/Rec UHF.....AN/ARC-27A  
 Searchlight.....AN/AVQ-2A

## MISSION AND DESCRIPTION

The basic mission of the model ZPG-2 airship is anti-submarine warfare patrol in collaboration with other ASW air and surface craft.

A major departure in general configuration from conventional airship design is the incorporation of an "X" empennage arrangement.

A mixer control system with conventional aircraft wheel and column controls regulates the ruddervators.

Equipment installed for in-flight refueling from surface vessels allows extended patrols of a weeks duration, or longer. The two main engines are mounted inside the car for ease of servicing in flight. The propellers are carried on outriggers and are driven thru cross-shafts and bevel gears.

Electronic installations include ECM, sonobuoy, MAD, radar, search light, navigational, and radio communication equipment for detecting and tracking submarines in open ocean areas as well as coastal waters.

Galley and sleeping accommodations are provided for a normal crew of fourteen.

## DEVELOPMENT

Prototype - - - - - Model ZPG-1  
 First flight - - - - - 20 March 1953  
 Service use - - - - - February 1954

## DIMENSIONS

Dimensionally Relaxed envelope  
 Volume.....1,000,000 cu.ft.  
 Design envelope Vol.....975,000 cu.ft.  
 Ballonets Vol. (4).....247,300 cu.ft.  
 Length.....342.65 ft.  
 Height.....94.68 ft.  
 Width.....75.42 ft.  
 Max. Dia.....75.42 ft.  
 Prop. Grd. Clearance.....1.47 ft.

\* Tires deflated and oleo struts fully compressed.

## WEIGHTS

For Airships BUAER Serial  
 135445 through 135448

135445 135446-135448

LOADINGS	LBS.	LBS.
EMPTI.....	47032(A)	45038
STATIC LIFT*.....	60141(A)	60141
STATIC & MAXIMUM		
DYNAMIC LIPT.....	66141(A)	66141

\* 97% inflated at .062 lb/cu.ft. @ S.L.

## FUEL AND OIL

NO. TANKS	GAL.	LOCATION
2 Fixed	880	Car
2 Combination	880	Car
Fixed		
3 Slip	755	Car

Fuel grade.....91/96  
 Fuel Spec.....MIL-F-5572

## OIL

CAPACITY.....40 gals.  
 OIL GRADE.....1120  
 OIL SPEC.....MIL-O-6082

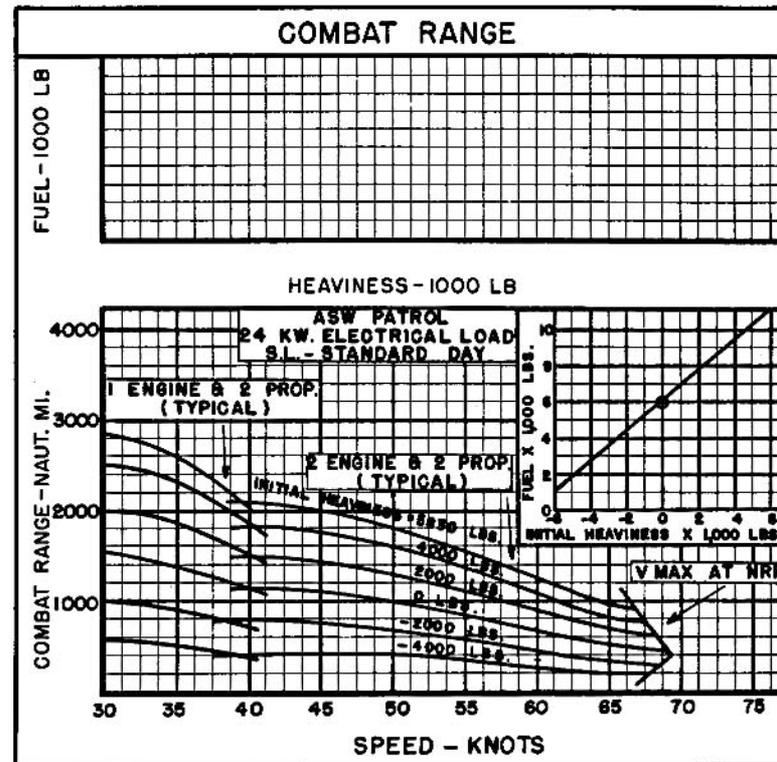
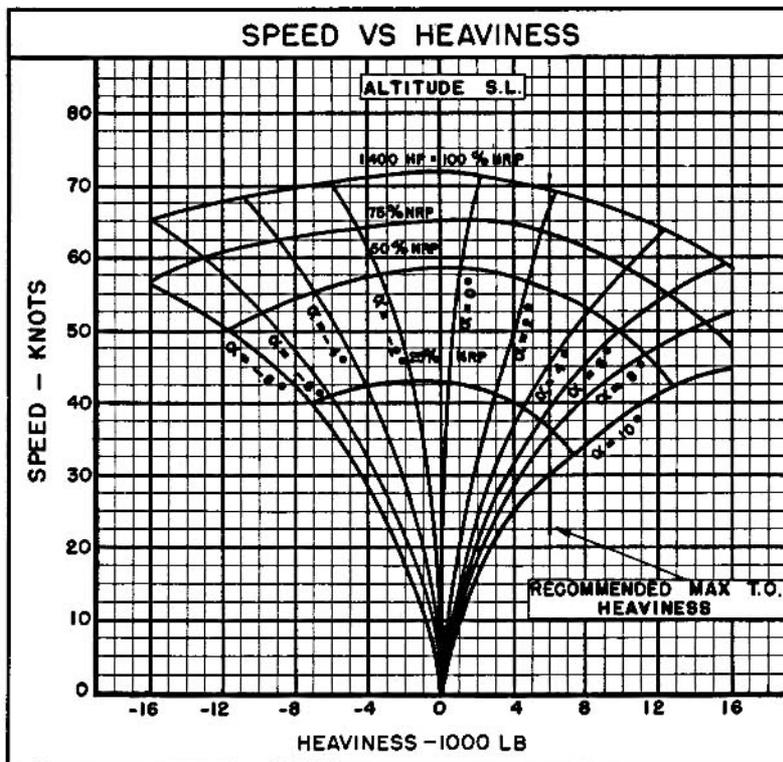
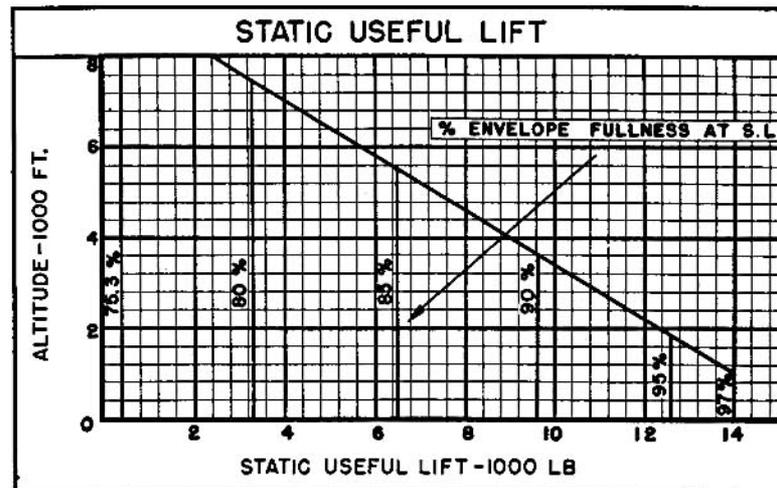
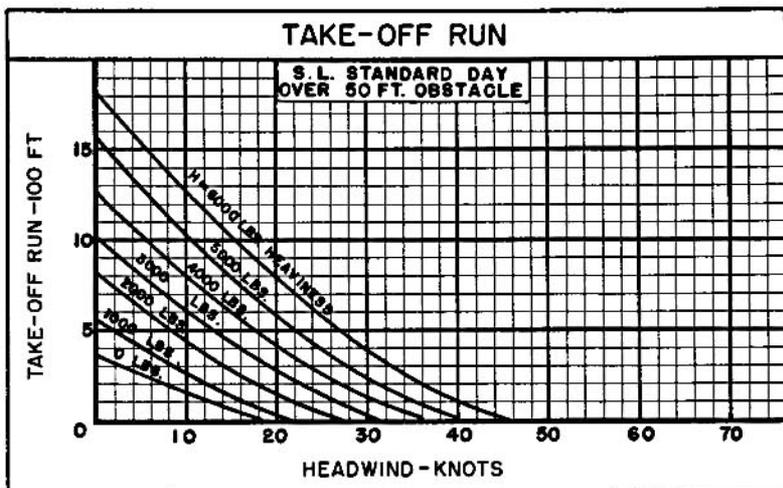
## ORDNANCE

NO.	TYPE
2 Torpedoes	Mark-34-1
2 Torpedoes	Mark-35
2 Torpedoes	Mark-24
2 Depth Bombs	Mark-54
2 Depth Bombs	Mark-90
2 Practice Bomb containers	Aero-5A

All units carried externally.

Maximum units carried.....two.





○ LOADING CONDITION COLUMN NUMBER

Standard Aircraft Characteristics NAVAER 1335J