

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

BIRM
REVISION 1

SKYPOWER
BN-41-1000

December 12, 1990

TYPE CERTIFICATE DATA SHEET NO. BIRM

This data sheet, which is part of Type Certificate No. BIRM, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Skypower
Route Box 28-B
Vadito, New Mexico 87579

I. Model GBN-41-1000, Captive Gas, Manned Free Balloon, Approved April 6, 1981

Description:	(a) Diameter	41 ft.
	(b) Displacement	35,310 cu. ft. (1000 cu. meters)
	(c) Lifting gas	Helium
	(d) Ballast provisions	Sand bags
	(e) Nominal empty weight	387 lbs. AA gondola (excluding occupants 407 lbs. BB gondola and ballast)
	(f) Maximum weight	2308 lbs.
Maximum number of occupants:	Six (6)	
Minimum crew:	One (1) pilot	
Minimum ballast:	20 percent of gross takeoff weight plus trail rope	
Serial Nos. eligible:	110 and up	

Data Pertinent to all Models

Certification Basis Part 31 of the Federal Aviation Regulations dated July 1, 1964, as amended by 31-1 through 31-3 plus section 31.65 of amendment 31-4. Application for Type Certificate dated May 3, 1979. Type Certificate No. BIRM issued April 6, 1981.

Production Basis None. Prior to original certification, an FAA representative must perform a detailed inspection for workmanship, materials, and conformity with the approved technical data, and a check of the flight characteristics.

Equipment The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

In addition to the above required equipment, the following equipment is also required:

- Trail rope
- Knife, 2-1/2 in. or longer, blade, sheathed.
- For night VFR operations, approved position light system.
- FAA Approved Balloon Flight Manual dated April 6, 1981, or later approved revision.

Maintenance and Inspection

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A. Annual 100-hour inspections required by FAR 91.169 must include inspection

of fabric condition.

- B. The fabric and the hook and pile closure tapes shall be inspected as outlined in the Skypower Balloon Maintenance Manual.
- C. Criteria for repairing the envelope fabric must be obtained from Skypower and must be accomplished in accordance with FAR 43.

NOTE 1. Current weight and balance report, including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each balloon at the time of original certification.

NOTE 2. Each balloon envelope must have an individual registration number. An individual envelope is eligible for a Standard airworthiness certificate when mated with any approved gondola for that model balloon. Change to an eligible combination must be documented by making a logbook entry endorsed by pilot in command or certified mechanic.

NOTE 3. For the purpose of maintenance and inspection, operation records (logbooks) must be maintained with each balloon envelope.

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