DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

TS00002AT Revision 1 Skycruiser S1000

March 4, 2004

TYPE CERTIFICATE DATA SHEET NO. TS00002AT

This data sheet, which is a part of Type Certificate No. TS00002AT, 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		Skycruiser Corporation 161 Tcom Drive Elizabeth City, North Carolina 27909			
I.	Model Sentinel 1000 Airship. (Normal Category), Approved October 22, 1993				
	<u>Envelope</u>	Volume Maximum Pressure Minimum Pressure	353,146 ft ³ (10, 3.2 in. H ₂ O 1.1 in. H ₂ O	000 m ³)	
	Lifting Gas	Helium Gas			
	Engine	Two (2) Porsche 930/67/A1/3 engines (Reduction Ratio 37:19)			
	Fuel	100LL minimum grade aviation gasoline			
	<u>Oil</u>	Mobil 1 5W-30 (winter, +10°C and below) Mobil 1 15W-40 (summer, +5°C and above)			
	Engine Limits	Maximum continuous, 4,60 Takeoff (5 minutes), 5,20 Maximum manifold pressur Maximum cylinder head ten	00 (FMP) rpm: (2. e is 45.5 in Hg (A	55 hp) bsolute)	
	<u>Propeller and</u> <u>Propeller Limits</u>	Two (2) Hoffmann HO-V 1 Diameter, 66 in. No reducti Pitch settings at propeller tij Forward Cruise Variab Forward Cruise Forward Max Power Forward Fine Reverse	on allowed. ps:	(FCV); 19° to 24° (FC); 22° (FMP); 17° (FF); -2° (R); -19°	
	Airspeed Limits	Maximum Operating Limit Speed (V_{MO}) 50 knots IASDesign speed for maximum gust intensity (V_B) 45 knots IAS			
	C.G. Range	See FAA Approved Flight N	Manual		
	Datum	Forward face of the engine room bulkhead, which is located at envelope station 103.00. All station measurements are shown in feet.			
	Leveling Means	Inclinometer located on the	left and right hand	d sides of the flight deck speaker boxes.	

Page No.	1	2	3
Rev. No.	1		1

<u>Maximum Weights</u>	Maximum operating weight Maximum suspended (car) weight Minimum operating weight Maximum static heaviness Maximum static lightness	20,240 lb. (9,200 kg) 12,760 lb. (5,800 kg) 14,300 lb. (6,500 kg) 770 lb. (350 kg) 440 lb. (200 kg)		
Minimum Crew	One (1) pilot			
No. Of Seats	Ten (10) seats including the pilot's seat. See the Airship Flight Manual for approved seating configurations.			
Fuel Capacity	Total capacity180 gal (682.2 liters)Usable fuel168 gal (635.2 liters)			
Oil Capacity	Total capacity4.4 gal (16.8 liters)Usable oil4.1 gal (15.5 liters)			
Maximum Operating Altitude	5,000 ft AGL (above ground level)			
Control Surface Movements	Total one-way travel each direction for each co	ntrol surface is $23^{\circ} + 2^{\circ}$		
Vector System	The propulsor vector system travel is from +11	0° (nose up) to -80° (nose down)		
Serial Numbers Eligible	S1000-01 and subsequent			
Certification Basis	FAR 21.17(b) through Amendment 21-68 dated August 10, 1990			
	Compliance with FAR 21.17(b) has been show. Circular 21.17-1A dated October 30, 1992, Sec met under this provision are the Airship Design dated July 24, 1992, as amended by FAA letter	tion 5. The airworthiness requirements Criteria (ADC), FAA P-8110-2, CHG 1,		
	Application for Type Certificate dated January	11, 1991.		
	Type Certificate No. TS00002AT issued Octob	er 22, 1993.		
Production Basis	None. Prior to original certification of each air perform a detailed inspection for workmanship approved technical data, and a check of the flig	, materials and conformity with the		
<u>Equipment</u>	The basis required equipment as prescribed in t requirements (see Certification Basis) must be In addition, the following equipment is also req	installed in the aircraft for certification.		
	FAA Approved Airship Flight Manual, FS-M-0 FAA approved revision.	001, dated October 22, 1993, or later		
	WAI Sentinel 1000 Ground Handling Manual, be made available to the operator's flight and g			
Maintenance and Inspection	Maintenance and inspection of airship Serial N according to the Sentinel 1000 Recommended dated May 1993. In accordance with FAR 21.5 instructions for Continued Airworthiness must delivery of the first airship or issuance of a star whichever occurs later.	Maintenance Schedule, PD-M-001, 50 and ADC paragraph 7.12, complete be submitted for approval prior to		

NOTE 1.	A current weight and balance report, together with a list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification. The certificated empty weight must include unusable fuel of 71 lb. at station +6.88
NOTE 2.	All placards required in the approved airship flight manual must be installed in the appropriate locations.
NOTE 3	Reserved.
NOTE 4.	See Section 7 of the Sentinel 1000 Recommended Maintenance Schedule, PD-M-001, for a listing of life-limited parts.
NOTE 5	This type certificate retyped without technical changes on February 5, 2001.
NOTE 6	This type certificate was originally issued to Westinghouse Airship, Inc, in the US, on October 22, 1993. It was transferred to Global Skyship Industries, in the US, on August 7, 1997, And to Skycruiser Corporation, in the US, on March 4, 2004.

.....END.....