



Honolulu Flight Standard District Office
135 Nakolo Place
Honolulu, HI 96819
Ph. 808-837-8371 Fax 808-837-8399

Federal Aviation Administration

EXPERIMENTAL – OPERATING LIMITATIONS
Operating Light – Sport Aircraft

Registration Number: N477DB
Model: Firestar

Aircraft Make: Firestar
Serial Number: F-1281

These Operating Limitations must be carried aboard the aircraft and be accessible to the pilot. This aircraft must be operated in compliance with the following limitations at all times:

Initial Flight Test in Restricted Area

NOTE: No person may operate this aircraft outside the assigned flight test area prior to the completion of flight-testing. This includes the entry in the aircraft maintenance records as required by limitation.

1. No person may operate this aircraft for other than the purpose of meeting the requirements of 14 CFR Part 91.319(b) during flight testing and, for the purpose of operating light-sport aircraft, after meeting these requirements as stated in the program letter (required by 14 CFR Part 21.193) for this aircraft. In addition, this aircraft must be operated in accordance with applicable air traffic and general operating rules of 14 CFR Part 91 and all additional limitations herein prescribed under the provisions of 14 CFR Part 91.319(e). These operating limitations are a part of Form 8130-7, must be carried in the aircraft at all times, and must be available to the pilot in command of the aircraft.
2. This aircraft must display the word “**EXPERIMENTAL**” in accordance with 14 CFR Part 45.23(b).
3. This aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. The owner/operator of this aircraft must obtain written permission from another CAA before operating this aircraft in or over that country. That written permission must be carried aboard the aircraft together with the U.S. airworthiness certificate and, upon request, be made available to an ASI or the CAA in the country of operation.
4. Application must be made to the Honolulu Flight Standards District Office (FSDO) for any amendment to these operating limitations.
5. During flight testing to meet the requirements of 14 CFR Part 91.319(b), or as a result of the incorporation of a major change, all flights must be conducted for at least **five (5) hours** within the geographic area described as follows:



Honolulu Flight Standard District Office
135 Nakolo Place
Honolulu, HI 96819

Ph. 808-837-8371 Fax 808-837-8399

Federal Aviation Administration

a. Flight testing will be conducted along the area:

Twenty-five (25) NM radius of N 19 degree 15.924' W 155 degree 40.464' (pasture airstrip at Waikii Ranch). **Do not conduct flights outside of the houndary area.**

6. Flight testing required for operations or as a result of the incorporation of a major change will be conducted in the assigned test area. Flight test operations will only be conducted under VFR day conditions, with the pilot as the sole occupant of the aircraft. This aircraft must be operated for at least **five (5) hours** in the assigned geographic area. Following the satisfactory completion of the required number of flight hours in the flight test area, the pilot must certify in the aircraft records that the aircraft has been shown to comply with 14 CFR Part 91.319(b) with a statement that includes the following information: **"I certify that the prescribed flight test hours have been completed and the aircraft is controllable throughout its normal range of speeds and throughout all maneuvers to be executed, has no hazardous operating characteristics or design features, and is safe for operation. The flight test was completed under the following conditions: maximum operating weight, style/set of wing or sail, maximum demonstrated airspeed, and minimum demonstrated stall speed."** All major changes or modifications will be listed in the aircraft records and the compliance statement will be restated with the changes listed. The aircraft may not be operated in excess of the weights and speeds demonstrated.

7. Any change to the flight test area location or size must be coordinated with the Honolulu FSDO where the aircraft is based and must get FAA concurrence received in writing.

8. Except for takeoffs and landings, this aircraft may not be operated over densely populated areas or in congested airways.

9. This aircraft is prohibited from operating in congested airways or over densely populated areas, unless directed by air traffic control, or unless sufficient altitude is maintained to effect a safe emergency landing in the event of a power unit failure, without hazard to persons or property on the ground.

10. This aircraft is to be operated under VFR day only.

11. After completion of flight testing, unless appropriately equipped for night and/or instrument flight in accordance with 14 CFR Part 91.205, this aircraft is to be operated under VFR day only.

12. No person may operate this aircraft for carrying persons or property for compensation or hire.



**Honolulu Flight Standard District Office
135 Nakolo Place
Honolulu, HI 96819**

Ph. 808-837-8371 Fax 808-837-8399

Federal Aviation Administration

13. No person may operate this aircraft for compensation or hire, except this aircraft may be used for compensation or hire to conduct flight training in accordance with 14 CFR Part 91.319(e), until January 31, 2010, at which time this airworthiness certificate and operating limitation expires.

14. The pilot in command of this aircraft must advise the passenger of the experimental nature of this aircraft and that it does not meet the certification requirements of a standard certificated aircraft.

15. This aircraft must contain the placards and markings as required by 14 CFR Part 91.9. In addition, the placards and markings must be inspected for legibility and clarity, and the associated systems inspected for easy access and operation, to ensure they function in accordance with the manufacturer's specifications during each condition inspection.

16. This aircraft is prohibited from acrobatic flight, that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, an abnormal attitude, or abnormal acceleration not necessary for normal flight.

17. Pilot-in Command of this aircraft must hold a Private Pilot's Certificate.

18. This aircraft must not be used for banner towing operations or intentional parachute jumping.

19. The pilot in command of this aircraft must notify air traffic control of the experimental nature of this aircraft when operating into or out of airports with an operational control tower. When filing IFR, the experimental nature of this aircraft must be listed in the remarks section of the flight plan.

20. Aircraft instruments and equipment installed and used under 14 CFR Part 91.205 must be inspected and maintained in accordance with the requirements of 14 CFR Part 91. Any maintenance or inspection of this equipment must be recorded in the aircraft maintenance records.

21. No person may operate this aircraft unless within the preceding 12 calendar months it has had a condition inspection performed in accordance with the scope and detail to appendix D to 14 CFR Part 43, or other FAA-approved programs, and was found to be in a condition for safe operation. As part of the condition inspection, cockpit instruments must be appropriately marked and needed placards installed in accordance with 14 CFR Part 91.9. In addition, system-essential controls must be in good condition, securely mounted, clearly marked, and provide for ease of operation. This inspection will be recorded in the aircraft maintenance records.



Honolulu Flight Standard District Office
135 Nakolo Place
Honolulu, HI 96819

Ph. 808-837-8371 Fax 808-837-8399

Federal Aviation Administration

22. No person may operate this aircraft to tow a light-sport glider or unpowered ultralight vehicle for compensation or hire or conduct flight training for compensation or hire in this aircraft unless within the preceding 100 hours of time in service the aircraft has been inspected by a certificated light-sport repairman with a maintenance rating, or an appropriately rated certificated mechanic, or an appropriately rated repair station in accordance with inspection procedures developed by the aircraft manufacturer or a person acceptable to the FAA.

23. Condition inspections must be recorded in the aircraft maintenance records showing the following, or a similarly worded, statement: **"I certify that this aircraft has been inspected on [insert date] in accordance with the scope and detail of appendix D to part 43 or the manufacturer's inspection procedures, and was found to be in a condition for safe operation."** The entry will include the aircraft's total time-in-service, and the name, signature, certificate number, and type of certificate held by the person performing the inspection.


24. An experimental LSA owner/operator as a repairman for this aircraft under 14 CFR Part 65.107 or an appropriately rated FAA-certificated mechanic may perform the condition inspection required by these operating limitations.

A handwritten signature in black ink, appearing to read "Herman L. Rios", is written over the printed name.

Herman L. Rios
Aviation Safety Inspector – Airworthiness

10/25/2007

UNITED STATES OF AMERICA
 DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
SPECIAL AIRWORTHINESS CERTIFICATE

A	CATEGORY/DESIGNATION EXPERIMENTAL	
	PURPOSE OPERATING LIGHT SPORT AIRCRAFT	
B	MANUFACTURER	NAME N/A
		ADDRESS N/A
C	FLIGHT	FROM N/A
		TO N/A
D	N- 447DB	SERIAL NO F-1281
	BUILDER David L. Bigelow	MODEL Firestar
E	DATE OF ISSUANCE 10/25/2007	EXPIRY Unlimited
	OPERATING LIMITATIONS DATED 10/23/2007	ARE PART OF THIS CERTIFICATE
SIGNATURE OF FAA REPRESENTATIVE  HERMAN L. RIOS		DESIGNATION OR OFFICE NO. WP13 HNL FSDO

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.