

Manufacturing Inspection District Office
Capital City Airport
[REDACTED]
New Cumberland, PA 17070

Tel.: [REDACTED]
Fax: [REDACTED]

EXPERIMENTAL OPERATING LIMITATIONS **OPERATING AMATEUR-BUILT AIRCRAFT**

BUILDER: Snyder, Robert L. _____ MODEL: Challenger II _____
SERIAL NUMBER: CH2-1003-2381 REGISTRATION NUMBER: N381RS _____
DATE OF ISSUANCE: Oct. 27, 2004 _____ EXPIRATION DATE: none _____

Phase I Operating Limitations

During initial flight testing, and prior to compliance with operating limitation number 7, the following operating limitations shall apply:

1. No person may operate this aircraft for other than the purpose of meeting the requirements of 14 CFR §91.319(b) during initial flight testing, as stated in the applicant's program letter (required by 14 CFR §21.193) dated Oct. 4, 2004 for this aircraft. In addition, this aircraft shall 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 §91.319(e). These operating limitations are a part of the FAA Form 8130-7, Special Airworthiness Certificate, and are to be carried in the aircraft at all times for availability to the pilot in command of the aircraft.
2. This aircraft shall be flown a minimum of 40 hours in order to accomplish phase I flight testing, and all flights shall be conducted within the geographical flight test area described as follows: A 25 nautical mile radius from the Ridgely airport, (RDG). Flight prohibited in the Dover AFB, (DOV), control zone, Restricted Areas, and Class B airspace. Flight in the Washington D.C., (DCA), Air Defense Identification Zone, ADIZ), Prohibited until such time as installed Transponder and Encoder are Certified.
3. Takeoffs and landings from the airports within the assigned geographical flight test area are authorized provided the NOTE below is complied with

Note: Permission from the airport operator(s) must be obtained prior to conducting operations at any of these airports.
4. No operations, including takeoffs and landings, shall be conducted over densely

populated areas or in congested airways.

5. This aircraft shall be operated under Visual Flight Rules (VFR), day only.
6. No person may be carried in this aircraft during flight unless that person is essential to the purpose of the flight.
7. Guidance concerning the scope and detail of test flights can be found in Advisory Circular 90-89, *Amateur-built Aircraft and Ultralight Flight Testing Handbook*. Following satisfactory completion of the required number of flight hours in the flight test area, the pilot shall certify in the records that the aircraft has been shown to comply with §91.319(b). Compliance with §91.319(b) shall be recorded in the aircraft records with the following or a similarly worded statement:

"I certify that the prescribed flight test hours have been completed and this 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. speeds V_{SO} 37 mph, V_X 53 mph, V_{NE} 100 mph, and V_Y 58 mph, and the weight 695 lbs and the CG location 88.0 inches at which they were obtained."

8. During phase I flight testing, if the builder states the aircraft is capable of aerobatic flight, this aircraft may conduct aerobatic flight in accordance with the provisions of §91.303. Aerobatic flight shall not be attempted until sufficient flight experience has been gained to establish that the aircraft is satisfactorily controllable and in compliance with §91.319(b). Aerobatic maneuvers that have been satisfactorily accomplished during phase I flight testing shall be recorded in the aircraft records by use of the following or similarly worded statement:

"I certify that the following aerobatic maneuvers have been test flown and the aircraft is controllable throughout the maneuver's normal range of speeds and is safe for operation. The flight tested aerobatic maneuvers are: NONE, and _____."

9. Aircraft instruments and equipment installed and used under §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.
10. No person may operate this aircraft for carrying persons or property for compensation or hire.
11. The pilot in command of this aircraft shall advise each person carried of the experimental nature of this aircraft, and explain that it does not meet the certification requirements of a standard certificated aircraft.