



U.S. Department
of Transportation
**Federal Aviation
Administration**

Commercial Space Transportation
800 Independence Ave., SW.
Washington, DC 20591

JUN 29 2007

Mr. Bob Steinke
President
SpeedUp
914 Park Ave
Laramie, WY 82070

Dear Mr. Steinke:

The Federal Aviation Administration (FAA) Office of Commercial Space Transportation (AST) has completed its review and evaluation of SpeedUp's petition for waiver of the requirement to obtain a license under 49 U.S.C. Subtitle IX, chapter 701 (Chapter 701) for operation of its rocket propelled Laramie Rose (LR) vehicle at Frontier Astronautics' test site, Platte County, Wyoming. The FAA waives the requirement for SpeedUp to obtain a license for launches from Frontier Astronautics' test site that are described in SpeedUp's petition.

On March 9, 2007, SpeedUp submitted a petition for waiver of Chapter 701 requirements to the FAA to launch a vertical take off and vertical landing, unmanned LR vehicle. For propellant LR uses HTP, which is a mixture of 80-90% by mass hydrogen peroxide, chemical formula H₂O₂, and 10-20% by mass water, chemical formula H₂O.

As reflected by revisions made to the original petition, revisions dated April 30, May 24, June 6, and June 8, 2007, the LR vehicle specifications and operating characteristics as *configured for the purposes of the waived flights* are as follows:

- Vehicle Weight (empty) = up to 515 lbs
- Propellant Weight = up to 175 lbs, including reserves
- Gross lift off weight = up to 710 lbs
- Vehicle Height = up to 9 ft
- Vehicle Diameter = up to 10 ft, inclusive of landing gear footprint
- Thrust = up to 781 lbs
- Burn Time = up to 26 secs (nominal + reserve)
- Total Impulse = up to 16,100 lbs-sec
- Ballistic Coefficient = up to 1.57 lb / sq in

The FAA has determined that operations of the LR from Frontier Astronautics' test site, Platte County, Wyoming, as described in the waiver petition, do not jeopardize public health and safety. This determination was based on the FAA's independent verification that (1) there are no population centers, or federal government property currently in use or planned for future use, within the vehicle's proposed operating area at Frontier Astronautics' test

site, as described in the waiver petition; and (2) the vehicle, which will be flying at low altitudes with a relatively low total impulse as compared to most conventional amateur rockets, can be completely contained by physics within its operating area. Further, FAA/AST finds that operation of the LR at Frontier Astronautics' test site has no impact on the national security or the foreign policy interests of the United States. Therefore, the FAA has determined to waive requirements to obtain a license for tests flights of the rocket propelled LR vehicle at Frontier Astronautics' test site, Platte County, Wyoming, as described in the waiver petition. This waiver is to be granted with the following Terms and Conditions:

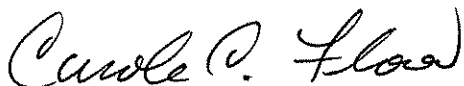
1. SpeedUp may not conduct waived flight activities at Frontier Astronautics' test site until Frontier Astronautics has received its launch site operator license waiver from AST.
2. SpeedUp may not conduct waived flight activities at Frontier Astronautics' test site until they have submitted a copy of the written agreement between SpeedUp and the owner of the troughs and fences stating that SpeedUp will repair or replace the troughs and fences if they are damaged due to the activities of the LR vehicle.

This waiver will become effective August 1, 2007, and will expire on October 31, 2007.

Please be advised that in conducting test flights at Frontier Astronautics' test site, SpeedUp must comply with all local, state, and federal laws applicable to the operation of unmanned rockets, including 14 CFR 101, subpart C - Unmanned Rockets.

Please keep us informed of scheduled launch operations. We want to have the opportunity to attend your launch operations to ensure that the vehicle and its operations are within the scope of the waiver. You may contact me at (202) 267-8353 if you have questions.

Sincerely,



Carole C. Flores
Manager
Licensing and Safety Division