

- Demonstrate techniques used to mitigate the physical effects of G forces and vertigo due to unusual attitudes.

- Demonstrate vehicle energy management principles.

- Demonstrate proficiency in the operation of a rocket-propelled simulator from liftoff to landing.

Issued in Washington, DC, on 24 February 2014.

**George C. Nield,**

*Associate Administrator for Commercial Space Transportation.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### Office of Commercial Space Transportation: Waypoint 2 Space Safety Approval Performance Criteria

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice.

**SUMMARY:** This is notification of criteria used to evaluate the Waypoint 2 Space, Inc. (W2S) safety approval application. The FAA issued W2S a safety approval, subject to the provisions of Title 51 U.S.C Subtitle V, ch. 509, and the orders, rules and regulations issued under it. Pursuant to Title 14 Code of Federal Regulations (14 CFR) § 414.35, this Notice publishes the criteria that were used to evaluate the safety approval application.

**FOR FURTHER INFORMATION CONTACT:** For questions about the performance criteria, you may contact Randal Maday, Licensing and Evaluation Division (AST-200), FAA Office of Commercial Space Transportation (AST), 800 Independence Avenue SW., Room 331, Washington, DC 20591, telephone (202) 267-8652; Email [randal.maday@faa.gov](mailto:randal.maday@faa.gov).

#### SUPPLEMENTARY INFORMATION:

*Background:* W2S applied for, and received, a safety approval for its ability to provide as a service that includes classroom training in: Aerospace Physiology, Centrifuge, Altitude Chambers, Weightlessness, Neutral Buoyancy, Aerobatic Flight, Spacecraft Systems, Crew Resource Management, Pilot Procedures, Nominal and Off Nominal Procedures, Emergency Procedures, Egress, Survival, Search and Rescue, and Extra-Vehicular Activity. The training service includes Space Flight Participant, Commercial Payload Specialist, and Spaceflight Instructor Training Programs. In addition, the service includes practical Sub-Orbital

and Orbital Flight training in: Neutral Buoyancy Environments, Parabolic Flight, Flight Simulators, Altitude Chambers, Spin and Upset Recovery, and G-Force adaptation.

W2S may offer its commercial space training service to a prospective launch and reentry operator to meet the applicable crew and space flight participant training requirements of 14 CFR 460.5 and 14 CFR 460.51.

#### Criteria Used To Evaluate Safety Approval Application

The performance criteria for this safety approval include: Air Education and Training Instruction 11-219 Initial Flight Screening, Air Force Instruction (AFI) 11-401 Aerospace Physiological Training Program, AFI 11-202V1 Aircrew Training, AFI11-202V2 Aircrew Standardization/Evaluation Program, NASA/TP-2001-213726 A Review of Training Methods and Instructional Techniques, AFI 11-2C-130V1 C-130 Aircrew Training, and AFI 11-301V1 Aircrew Flight Equipment (AFE) Program. Furthermore, the performance criteria include 14 CFR 61.31(g) for additional training required for operating pressurized aircraft capable of operating at high altitudes. These United States Air Force, NASA, and FAA criteria are acceptable technical criteria for reviewing a safety approval application per 14 CFR 414.19. Many aspects of aviation training also apply to aerospace operations because it addresses human-vehicle interactions common to both aviation and aerospace. Training for Extra Vehicular Activity (EVA) is also applicable because it pertains to operations that include Intra Vehicular Activity (IVA) in microgravity, which is performed during ascent and entry.

The Spaceflight Instructor Training Program serves to develop instructors to better train space flight participants and crew. The FAA's evaluation included assessment of W2S's commercial space training service lesson plans and objectives, which include classroom, simulator, and flight training for crew and space flight participants to experience and demonstrate knowledge of the following through testing:

- Understand operations, environments, and the physiological effects associated with space flight.
- Understand and demonstrate crew resource management operations.
- Demonstrate adaptation and the ability to conduct applicable operations in spaceflight environments, which include flight during high and low gravity phases.

- Demonstrate competence in operations requiring use of a partial pressure suit.

- Demonstrate emergency egress procedures and proper use of life support equipment without assistance.

- Understand and experience nominal and off nominal vehicle conditions during flight.

Issued in Washington, DC, on February 24, 2014.

**George C. Nield,**

*Associate Administrator for Commercial Space Transportation.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### Public Notice for Waiver of Aeronautical Land-Use Assurance

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of intent of waiver with respect to land; Cleveland Hopkins International, Cleveland, Ohio.

**SUMMARY:** The FAA is considering a proposal to change approximately 2.54 acres of airport land from aeronautical use to non-aeronautical use and to authorize the lease of airport property located at Cleveland Hopkins International, Cleveland, Ohio. The aforementioned land is not needed for aeronautical use.

The property is located near the northwest corner of Brook Park Road and Rocky River Drive, north of the airport and outside the airport fence line. The property is currently vacant land not being used by the airport and is flat, weedy, and grassy. The property will be leased for the development of a gas/service station.

**DATES:** Comments must be received on or before May 12, 2014.

**ADDRESSES:** Documents are available for review by appointment at the FAA Airports District Office, Marlon Peña, Program Manager, Detroit Airport District Office, 11677 South Wayne Road, Suite 107, Romulus, Michigan 48174, Telephone: (734) 229-2909/Fax: (734) 229-2950 and Cleveland Hopkins International Airport, 5300 Riverside Drive, Cleveland, Ohio 44181, Telephone: (216) 265-6793.

Written comments on the Sponsor's request must be delivered or mailed to: Marlon Peña, Program Manager, Federal Aviation Administration, Airports District Office, Detroit Airport District Office, 11677 South Wayne Road, Suite 107, Romulus, Michigan 48174,