



For Immediate Release

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Near Space Corporation

#Space@1g

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First Commercial High Altitude Balloon Flight Facility Gets Major Upgrade and Integrates Drone Operations with FAA Designated UAS Test Range

Broomfield, Colorado, -- Near Space Corporation, a commercial flight test provider supporting NASA's Flight Opportunities Program, is proud to announce a major upgrade to the Johnson Near Space Center in support of the new collocated Tillamook UAS Test Range. The \$1.4 million dollar upgrade utilized grants from the State of Oregon, to provide essential infrastructure and key range personnel to further the testing and integration of unmanned aircraft. The upgrades provide a unique instrumented range that encompasses both low and high altitude airspace for the testing of unmanned technologies outside of restricted airspace. The infrastructure includes upgrades to the Operations Control Center with new ground stations, secure data servers, local radar/ADS-B coverage, range video & communication systems, SODAR, high altitude sounding system, GPS Simulator, and other specialized test equipment. The grant will also support the hiring of a full time Test Range Manager and Range Safety Officer to allow NSC to support more customers.

The Johnson Near Space Center, located at the uncontrolled Tillamook Airport on the Oregon coast, first began operation in the spring of 2013. The center was custom designed to facilitate NSC's high altitude balloon flight testing that it conducted for both government and commercial entities. The state of the art balloon facility houses NSC's engineering, production and flight operations, and includes a large integration hangar and dedicated control tower, as well as a 100 acre launch area.

The Tillamook UAS Test Range became operational in November of 2015, as part of the Pan Pacific UAS Test Range Complex, one of the six special FAA designated UAS Test Sites. The upgrade will allow NSC to competitively address the emerging UAS test flight market and increase the number of flights at the Tillamook UAS Test Range along with supporting unique high altitude (up to 130kft) flight tests of unmanned balloons, drones and hybrid aircraft.

The combined operations of the Johnson Near Space Center and Tillamook UAS Test Range offers a truly unique state of the art flight test facility, instrumented range, access to a wide array of testing environments, professional range support, and the ability to provide expedited flight approvals for testing of unmanned technologies.

Though NSC has been performing balloon and UAS operations from Tillamook for customers such as NASA for almost 20 years, this major upgrade will allow NSC to offer a truly unique flight test environment and dramatically increase our capability and capacity to support new commercial customers. In addition to our past emphasis on high altitude flight testing, we are establishing the Tillamook UAS Test Range as a center of excellence supporting testing and training with unmanned technologies for Disaster Response and Public Safety applications.

For more information about Near Space Corporation, the Johnson Near Space Center and the Tillamook UAS Test Range, please see the attached flyers, visit <http://www.nsc.aero>, or contact Near Space at info@nsc.aero / 503.842.1990 You can also follow NSC on Twitter at #space@1g

TILLAMOOK UAS TEST RANGE (TUTR)

FAA Designated UAS Test Range
Operating under the PPUTRC

RANGE FEATURES

Location & Airspace

- ◆ TUTR's primary facility, the Johnson Near Space Center (JNSC) located 60 Miles west of Portland at Tillamook airport (KTMK)
- ◆ KTMK is an uncontrolled Airport, 3 miles south of Tillamook
- ◆ Co-located with Port of Tillamook Bay Industrial Park/Blimp Hanger
- ◆ Operations area covers 32,000 square miles in Western Oregon, from Coast to Cascades and Columbia River to California border
- ◆ Local airspace is Class G and E with access to Class D, and High Altitude Operations extending through above Class A
- ◆ Three pre-coordinated (Airport LOA) flight test operations areas
- ◆ Special Use Airspace (W-570) 7,500 square miles, surface to 50kft
- ◆ State-wide operational support in collaboration with the Warm Springs and Pendleton FAA designated UAS ranges
- ◆ Includes: maritime, littoral, forests, mountains, urban and rural

TARGET APPLICATIONS

Flight Test / Research

- ◆ Low, Medium, and High Altitude Flight Testing (SFC to 130,000')
- ◆ UAS Integration & Operations from Uncontrolled Airports
- ◆ Range Instrumentation: Live Radar/ADS-B /Wx Feeds, AWOS, SODAR, Radiosonde, Tracking Antennas/Cameras, and Range Comms
- ◆ BVLOS and Escorted Operations with Manned Aircraft

Emergency Management / Public Safety

- ◆ Disaster Preparedness, Training, Search & Rescue, Infrastructure Inspection, First Responders, Law Enforcement
- ◆ Technology Development and CONOPS for UAS Integration



Managed & Operated by:



Tillamook UAS Test Range

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NEARBY

Portland Metropolitan Area (75 mi)
PDX—Portland Int'l Airport

KTMK—Tillamook Airport (on-site)
(5000' & 4000' Paved Runways/RNAV-GPS Approach/AWOS/PAPI & Taxiway lighting/New FBO/100LL & Jet A/ Hangars /Rental Cars)

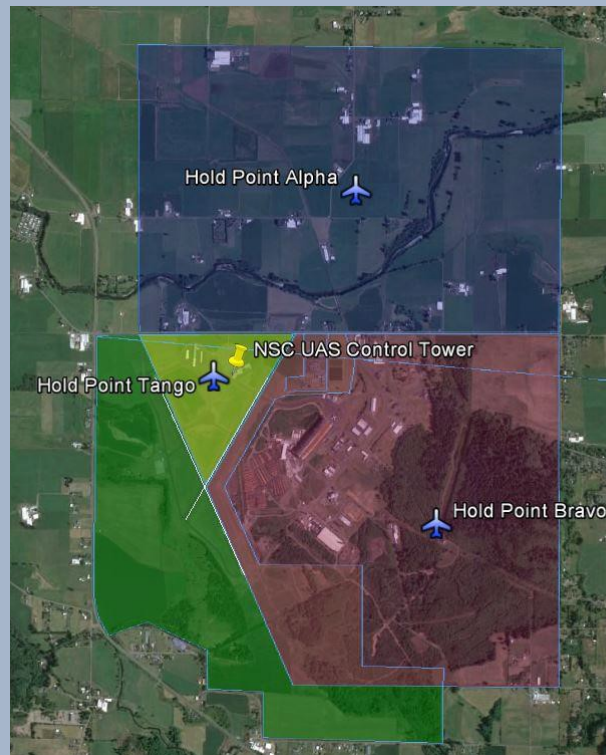
Port of Tillamook Bay (POTB)
TNAS Blimp Hangar (Air Museum, Café)
New Light Industrial Park (Office/ Fabrication/Storage)
Meeting Spaces (Conference/Classes)
UPS Facility (on-site)
Gym

City of Tillamook
Lodging (Customer Rates Available)
Restaurants/Breweries
Industrial Base (supplies/machine shops)

Tillamook Bay Community College

Operations Support

- ♦ Johnson Near Space Center— High altitude flight test facility, 20 years experience testing in non-special use airspace within NAS
- ♦ 5000 sq ft heated Integration hangar (avionics lab/test benches/alt. chamber/GPS sim/ADS-B analyzer/shop/through-fence access)
- ♦ 3 story UAS Control Tower with Operations Control Center
- ♦ SUAS Launch/Recovery: 600ft asphalt circle or ~80 acres grass infield
- ♦ Remote ground operations supported with Mobile Command Center
- ♦ Specialized ADS-B beacons provide tracking from surface to 100+kft
- ♦ Mission Requirements, Implementation & CONOPS Development
- ♦ Mission Planning, Safety, and Operational/Flight Readiness Reviews
- ♦ Platform and Payload Integration, Airworthiness & Testing Support
- ♦ FAA/FCC coordination/tracking/airspace de-confliction
- ♦ Range Safety Officer & Trained UAS Observers
- ♦ Public Aircraft Operations (National Test Site/Specialized local COAs)
- ♦ On-site 20 person conference/training room (video conferencing)
- ♦ 3 Station Operations Control Center (live traffic/WX feeds/ range com & video system/secure data server & fiber internet)



TILLAMOOK UAS TEST RANGE Managed & Operated by

The Tillamook FAA UAS Test Range is part of the Pan-Pacific UAS Test Range Complex, one of six official FAA test sites in the United States. The Complex spans seven climate zones, allowing UAS manufacturers and users to test their equipment in the Arctic, the tropics and arid environments. Managed by the UAF Center for Unmanned Aircraft Systems Integration, which is part of the UAF Geophysical Institute