

FAA-Designated New York UAS Test Site



Griffiss International Airport (KRME) is home to the **NY UAS Test Site (NYUASTS)**, owned by Oneida County and operated by AX Enterprize (AX). One of the seven FAA designated UAS test sites in the country, the NYUASTS is the only one based at a towered airport with Class D Airspace and access to Class A, C, E, and G airspace above varied terrain, urban/rural, inland lakes, coastal and maritime areas.

The FAA designation offers distinctive authorities including waivers that enable customers to take their product from proof of concept all the way through testing and certification and support for operations from the surface up to 17,999 ft. Unique NYUASTS capabilities include:

- **Instrumented Beyond Visual Line of Sight (BVLOS) UAS flight corridors** with real-time reach back to a State-of-the-Art Operations and Data Management Center.
- Instrumented corridor includes Saab ASDE-X Multilateration System, Saab SR-3 Surface Movement Radar, SRC LSTAR Radar, SRC R1400 Radars, uAvionix pingStations, and Remote ID Finders.
- Over 80 Certificates of Authorization enable small UAS to large fixed and rotary-wing aircraft testing.
- Operations Center has four pilot workstations and a data wall that provides a 3D visualization capability for real-time Air Space Management.



The NY UAS Test Site strives to immerse public and private UAS capabilities under test into the airspace of the future with a very active airport that includes general aviation and military traffic while leveraging a diverse set of UAS Traffic Management/Advanced Air Mobility (UTM/AAM) experience and tools.

Public and private partners are supported by an experienced team of engineers and pilots to ensure technical success and operational safety. The flight operations team includes experienced BVLOS UAS pilots, Part 107 pilots, and commercial and private aviation pilots.

The **NYUASTS UAS Mobile Operations Center** can be integrated with the NYUASTS or used as a stand-alone capability. Features include:



- 3 pilot workstations (GCSs) with two 4K monitors
- Indoor and outdoor Wi-Fi access points
- VHF radio with external antenna
- 40' mast with 300-lb capacity
- Handheld radios for ground support
- Indoor and outdoor 55" smart monitors

Solve problems and know the risks before flying in the “Wild”!

SkyDome, adjacent to the NY UAS Test Site Operations Center, is a 150'(W) X 150'(L) X 40'(H) indoor/outdoor instrumented UAS, Internet of Things and Cyber Physical System experimentation facility that will support year-round development and test of advanced technologies including Radio Frequency (RF) spectrum for command and control, detect and avoid, vehicle to vehicle to communications, mobile networking, autonomous swarms and counter UAS.



- Enables all-season, all-weather, day or night flight by multiple concurrent battery-powered hover-capable small VTOL UAS.
- Unique GPS-denied test environment with walls constructed to support varied RF reflection and absorption emulating an urban environment.
- Fully instrumented control room with networked computers for flight test management, observation and measurement.
- Dedicated data center with patchable fiber connectivity.
- 16 instrumentation junction boxes are distributed throughout the walls and ceiling with RF coaxial cable and fiber optic cable (including multiple dark single-mode OS2 fibers for expansion) reach back to the SkyDome data server. Filtered power at each node includes 220VAC outlet on a 30A circuit, a 110VAC outlet on a 30A circuit, and four standard 110V outlets on a 20A circuit.
- RF emissions in the license free Industrial, Scientific, and Medical (ISM) bands (400 MHz to 6 GHz), other free license bands, or bands where a user has the required license have no restrictions. In all cases, the Federal Communications Commission (FCC) rules apply and transmit power levels will be monitored to ensure non-negligible leakage.
- **Testing RF emissions in aviation safety critical frequency bands, including in or near Global Navigation Satellite System (GNSS, including GPS, Galileo, GLONASS, etc.), will be addressed on a case by case basis.**
- SkyDome doors open to a netted area measuring approximately 150'(W) X 42' (L) X 70' (H).

