

Exhibit for STA #1187-EX-ST-2016

Otherlab is requesting an STA from the FCC for UAV operations at the JIFX event held by the Naval Postgraduate School at Camp Edwards, CA on November 7-11, 2016. Otherlab will be carrying out experiments and demonstrations of small autonomous aircraft developed under the VAPR Seedling program administered by DARPA. Letters of support from the JIFX organizers or DARPA program manager can be obtained on request.

The UAVs are small, unpowered gliders airdropped from 3000'. Total vehicle weight will be less than 2 kg, and no linear dimension will exceed 2 m. The entire flight will be within the airspace of Camp Edwards and licensed for flight under the auspices of JIFX. Flights will be predominantly autonomous, with manual intervention as necessary. Flights will be monitored and controlled from a ground station located on the base.

Three transmitters will be required to perform our flights. These are all COTS Section 15 devices; an STA is required due to the military nature of the test site. The devices are:

1. RFD-900+ Telemetry Radio
2. Futaba T14SG Transmitter
3. SPOT Trace Anti-Theft Tracking Device

Device 1, the RFD-900+ telemetry radio, will be on board the vehicle. The telemetry will provide a continuous stream of flight data supporting the ground station.

Device 2, the Futaba T14SG transmitter, will be at the ground station. The transmitter will provide manual control of the vehicle as necessary.

Device 3, the SPOT Trace Anti-Theft Tracking Device, will be on board the vehicle. The tracer will emit GPS location data at 5-minute intervals via the GlobalStar satellite network, providing the means to retrieve the vehicle after landing.

All devices are being used following normal procedures in the scenarios envisaged by their designers. Our radio operations are consistent with typical commercial operations carried out by unlicensed operators under Section 15, and as such pose no special communications hazard. Transmission details have been disclosed to the JIFX organizers and relevant personnel at Camp Edwards, who will manage the allocation of spectrum at the event. Further details are available on request.