

SUBJ: Proposed Approval for Testing Persistent Systems Wave Relay Data Downlink System for testing in the Fort Collins area.

Description:

Persistent Systems, LLC has developed a data downlink system for use with airborne and ground terminal users. Several customers have requested testing of the Persistent Systems Data Link for evaluation of this technology for mobile and airborne operations. Testing with customers is scheduled for 2018, setup and training will begin as soon as a grant is approved (please see requested dates below).

Frequency Requested: 2277.00 MHz

Duration of Program: 6 months (anticipate continued testing after initial testing)

Program Notes: 2277.00 MHz is the preferred frequency to provide a consistent benchmark for testing and evaluation. The Wave Relay Data Link center frequency is available from 2200-2500 MHz in 5Mhz steps. Frequency change can be facilitated remotely should the need to do so arise. Planned testing can take place during daytime and/ or night time hours as needed. A seven (7) day week is planned for testing and evaluation.

Note: Map showing the area of operations on following page for program plans discussed below.

Wave Relay Data Link will operate primarily in the 20MIRAD area shown in the map below daily as needed for testing. A ground antenna will be located at 5042 Technology PKWY, Fort Collins, CO (40.517153°N, -105.014967°W). The ground station antenna can use either directional or omni directional antennas. It is intended to maintain a link with mobile ground stations in the local area. The MIRAD for this request is 20mi (32km) to ensure coverage of operations area and allow for limited range testing.

Testing will cover systems operation, real-time sensor/ telemetry data, and high definition full motion video to and from individual data links. Throughout the testing period, frequency changes and/ or complete shutdown of all radiating sources from the Wave Relay units can be accomplished from the ground within 30 minutes of notification. Operation is for ground test only at this time.

For stop buzzer please contact Trent Bowman @ (646) 627-8931 (primary POC), Mat Buhler (646) 627-8174.

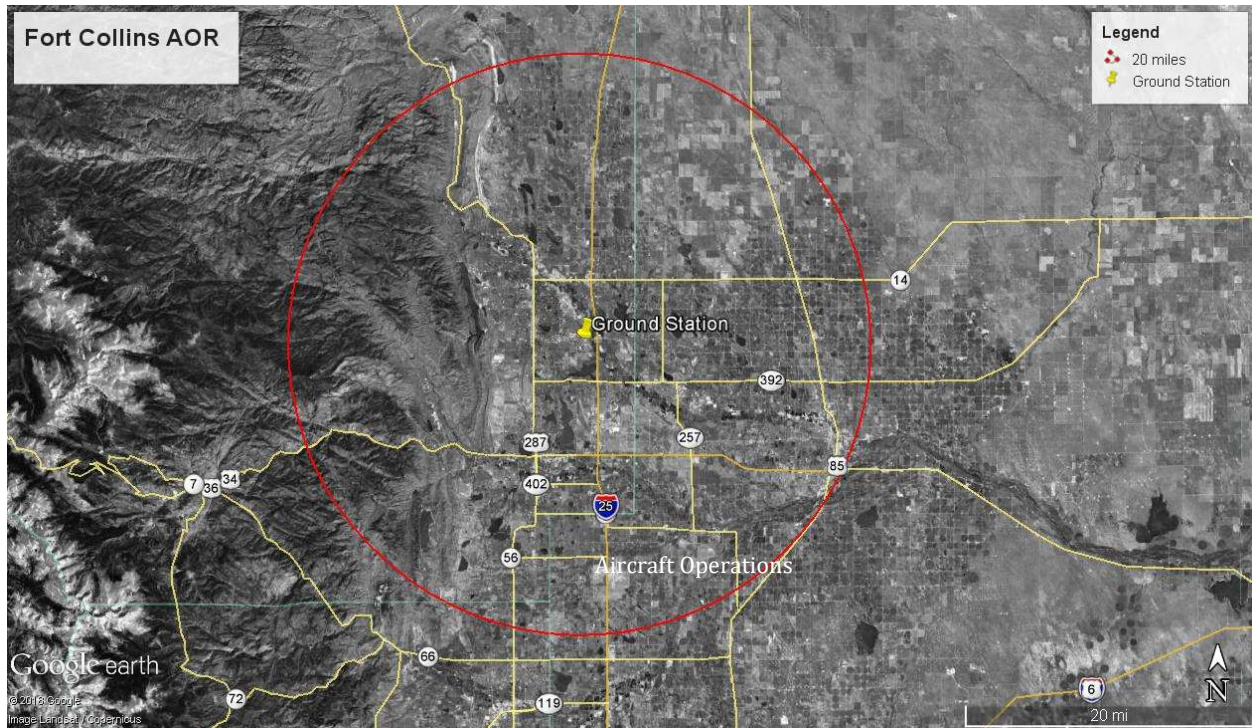


Figure 1 Area of Operations