

Technical Description

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Purpose

This special temporary authorization (STA) request is being submitted to support a Department of Defense (DoD) technical demonstration.

Operation Description

This request will support a data link between a ground station and an airborne UAS.

S-Band Mobile Airborne and Fixed Ground Equipment

Manufacturer:	Persistent Systems
Model:	Wave Relay
Frequencies:	2391 - 2507 MHz
Emission:	22M0D1D

Airborne Output Power:	2 Watts
Airborne Power in ERP:	1.22 Watts ERP
Airborne Antenna Gain:	0 dB
Airborne Antenna Type:	Dipole
Airborne Antenna Polarization:	Vertical

Ground Output Power:	2 Watts
Ground Power in ERP:	555 Watts ERP
Ground Antenna Gain:	26.5 dB
Ground Antenna Type:	Parabolic
Ground Antenna Polarization:	Vertical
Beamwidth:	6.5 degrees horizontal and 8 degrees vertical

Dates of Operation

Start Date:	June 1, 2015
Stop Date:	November 30, 2015

Stop Buzzer

Stop buzzer for this operation is the Insitu operations center at 509-637-4691.

Location

Dugway Proving Grounds, Utah
Restricted Airspace
40-07-23 N
113-16-21 W
Radius of operation is 50 kilometers
Maximum Flight Level is 6,000 feet