

Submitted by Joel Thorsheim on behalf of Insitu
The Boeing Company
Frequency Management Services
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Why a Special Temporary Authorization is Necessary:
Required to support UAS ground testing at Carnation, WA.

Operation Description:

THE RADIO FREQUENCY EQUIPMENT WILL BE USED TO SUPPORT COMMAND AND CONTROL TRANSMISSIONS ON THE GROUND IN A TRAINING ENVIRONMENT. NO AIRBORNE OPERATIONS.

The below tables list the radio frequency equipment specifications, including frequency band of operation, transmitter output power, emissions, antenna types and gains, and maximum ERP.

Frequency Data	
Transmit	1370-1390 MHz
Transmitter Data	
Transmitter Model	P-501X005
Transmitter Manufacturer	Freewave Technologies
Transmitter Power Output	1 Watt
Antenna Gain	0 dB
Antenna Type	Center-Fed Half-Wave Dipole (Vertical)
Power Output ERP	1 Watt
Emission Data	
Emissions	230KF1D

Table 1 – Freewave C2 Aircraft Data

Frequency Data	
Transmit	1370-1390 MHz
Transmitter Data	
Transmitter Model	P-501X005
Transmitter Manufacturer	Freewave Technologies
Transmitter Power Output	5 Watt
Antenna Gain	23 dB
Antenna Type	1.8 Meter Parabolic Reflector Ant. Vert. Beamwidth: 8 degrees Ant. Horz. Beamwidth: 8 degrees
Power Output ERP	608 Watts
Emission Data	
Emissions	230KF1D

Table 2 – Freewave C2 Ground Control Station Data

City	State	Latitude	Longitude	Radius (KM)	Station Type
Carnation	WA	47-40-36 N	121-57-01 W	2	Fixed/Ground

Table 3 – Location Data

Stop Buzzer POC:

Stop Buzzer for this operation is Insitu Operations Action Center at 509-493-4691.

Start Date: 12/10/2020

Stop Date: 5/30/2020