Submitted by Joel Thorsheim The Boeing Company Frequency Management Services P.O. Box 3707 MC: 1K-105 Seattle, WA 98124-2207 425-234-4287 Office

Operation Description:

A command and control data link will be established to communicate between the ground station and an unmanned aircraft. The unmanned aircraft will be obtaining experimental certification through the FAA 8130.34D process and all airborne operations will be approved through the 7711-1 COA process.

Tables 1 and 2 list the equipment specifications, including frequency band of operation, transmitter output power, emissions, antenna types and gains, as well as maximum ERP. Table 3 lists the locations that are being requested.

Frequency Data				
Transmit Frequencies	5031.1625 MHz			
	5039.3325 MHz			
Transmitter Data				
Transmitter Model	Freewave			
Transmitter Manufacturer	Freewave Technologies			
Transmitter Power Output	10 Watt			
Antenna Data				
Power Output ERP	25 Watts ERP			
Antenna Type	Dipole			
Antenna Gain	6 dBi			
Emission Data				
Emission Designator	230KF1D			

Table 1 – Ground Equipment Data

Frequency Data				
Transmit Frequency Band	5031.1625 MHz			
	5039.3325 MHz			
Transmitter Data				
Transmitter Model	Freewave			
Transmitter Manufacturer	Freewave Technologies			
Transmitter Power Output	1 Watt			
Antenna Data				
Power Output ERP	1.7 Watts ERP			
Antenna Type	Monopole Omni			
	Patch Antenna			
Antenna Gain(s)	2 dBi			
	4.3 dBi			
Emission Data				
Emission Designator	230KF1D			

Table 2 – Airborne Equipment Data

City	State	Latitude	Longitude	Radius (KM)	Station Type
Glasgow	MT	48-24-46 N	106-31-34 W	3.7 km	Mobile 500 foot AGL

Table 3 – Location Data

Operation Dates:

March 24, 2020 August 24, 2020 Start Date: Stop Date:

Stop Buzzer POC: Stop Buzzer for this operation will be Chris Eisele at 509-637-5310.