

## Technical Description

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Tables (1) and (2) lists the equipment that will be used for the Ground Control Station and manned and unmanned aircraft.

<b>Frequency Data</b>	
Transmit Frequencies	2267, 2310, 2377, and 2395-2483 MHz
<b>Transmitter Data</b>	
Transmitter Power Output	6 Watt total (3 transmitters with 2 Watts each) optional 20 Watt amplifier with single transmitter
<b>Antenna Data</b>	
Power Output ERP	12.3 Kilowatts ERP 15 Watts ERP
<b>Emission Data</b>	
Emission Designators	5M0D1D, 10M0D1D, 20M0D1D

**Table 1 – Ground Equipment Data**

<b>Frequency Data</b>	
Transmit Frequencies	2267, 2310, 2377, and 2395-2483 MHz
<b>Transmitter Data</b>	
Transmitter Power Output	6 Watts (3x2Watts)
<b>Antenna Data</b>	
Power Output ERP	15 Watts ERP
<b>Emission Data</b>	
Emission Designators	5M0D1D, 10M0D1D, 20M0D1D

**Table 2 – Unmanned/Manned Aircraft Equipment Data**

Table (3) lists the locations/areas of operations, as well as the station class of the operation.

City	State	Latitude	Longitude	Radius (KM)	Station Type
Bingen	WA	45-42-23 N	121-27-23 W	1	Fixed Ground Testing Only
Hood River Airport	OR	45-40-18 N	121-32-24 W	1	Fixed Ground Control Station
Boardman	OR	45-44-54 N	119-47-38 W	1	Fixed Ground Control Station
Wasco (Jackass Springs)	OR	45-31-19 N	120-46-58 W	1	Fixed Ground Control Station
The Dalles (Wasco Butte)	OR	45-36-26 N	121-19-53 W	1	Fixed Ground Control Station
Bald Peter	OR	45-39-23 N	121-41-33 W	1	Fixed Ground Control Station
Dee (Long Branch)	OR	45-34-31 N	121-46-13 W	1	Fixed Ground Control Station
Opal City (Grey Butte)	OR	45-25-04 N	121-05-51 W	1	Fixed Ground Control Station
Arlington	WA	45-43-13 N	120-10-45 W	1	Fixed Ground Control Station
Boardman Airborne <b>(Unmanned Aircraft)</b>	OR	45-44-54N	119-47-38W	50	Mobile up to 10,000 Feet Flight Level
Bingen Airborne <b>(Manned Aircraft)</b>	OR	45-42-23 N	121-27-23 W	200	Mobile up to 10,000 Feet Flight Level

**Table 3 – Location Data**

**Stop Buzzer**

Stop buzzer for this operation is a 24-7 staffed number at 509-637-4691.