

Technical Description

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This experimental license application is being submitted in lieu of a Special Temporary Authorization (STA) extension. The STA was previously granted under FCC Call Sign WN9XYF and file number 2113-EX-ST-2018.

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

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

Table 1 – Ground Equipment Data

Frequency Data	
Transmit Frequencies	2267, 2310, 2377, and 2395-2483 MHz
Transmitter Data	
Transmitter Power Output	6 Watts (3x2Watts)
Antenna Data	
Power Output ERP	15 Watts ERP
Emission Data	
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	44-25-04 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 (Unmanned Aircraft)	OR	45-44-54N	119-47-38W	50	Mobile up to 10,000 Feet Flight Level
Bingen Airborne (Manned Aircraft)	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.

Start Date: September 1, 2019

Stop Date: August 30, 2021