

Operation dates: 10/08/2018 – 12/08/2018.

Administrative Information

Status	ENGINEER PROPOSAL
Call Sign	
Licensee Code	MARDEV
Licensee Name	Maris Developments LLC

Site Information

BOARDMAN, OR

Venue Name	
Latitude (NAD 83)	45° 51' 16.6" N
Longitude (NAD 83)	119° 37' 55.1" W
Climate Zone	A
Rain Zone	5
Ground Elevation (AMSL)	96.19 m / 315.6 ft

Link Information

Satellite Type	Low Earth Orbit
Mode	TO - Transmit-Only
Modulation	Digital
Minimum Elevation Angle	5.0°
Azimuth Range	0.0° to 360°
Antenna Centerline (AGL)	2.74 m / 9.0 ft

Antenna Information

Transmit - FCC32

Manufacturer	ViaSat
Model	5.4 meter
Gain / Diameter	39.2 dBi / 5.4 m
3-dB / 15-dB Beamwidth	1.38° / 3.70°

Max Available RF Power	(dBW/4 kHz)	9.8
	(dBW/MHz)	33.8

Maximum EIRP	(dBW/4 kHz)	49.0
	(dBW/MHz)	73.0

Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%

Frequencies:

Mission	Frequency Bands (MHz)	T/R Mode	Antenna Polarization(H,V, L,R)	Emission
DG - WV1/2/3	2085.6875 - 2085.6875	T	RHCP	1M32G1D / BPSK, TT&C
DG - WV1/2/3	2085.0275 - 2086.3475	T	RHCP	1M32G1D / BPSK, TT&C
DG - WV4	2052.0000 - 2052.0000	T	RHCP	NON
DG - WV4	2051.3400 - 2052.6600	T	RHCP	1M32G1D / BPSK, TT&C

Satellites:

International Designator	NORAD Catalog Number	Name	Source	Launch Date
2007-041A	32060	WORLDVIEW-1 (WV-1)	US	2007-09-18
2009-055A	35946	WORLDVIEW-2 (WV-2)	US	2009-10-08
2014-048A	40115	WORLDVIEW-3 (WV-3)	US	2014-08-13
2016-067A	41848	WORLDVIEW-4 (WV-4)	US	2016-11-11