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Exhibit 5: SSEL Earth Station (ES) in Bozeman, Montana USA

The REAL satellite will transmit and receive its telemetry and telecommand links with an existing ES (model number M2436CP30), located in Bozeman, Montana, USA. The antenna will be operated specifically by the Space Science and Engineering Lab (SSEL) at Montana State University (MSU).

The UHF ES is located at 45°39'59" N, 111°2'45.6" W. The street address is Cobleigh Hall, Montana State University, Bozeman, Montana 59717

The full technical specifications of the SSEL ES can be found in the table below.

Table 1. UHF-band Characteristics of SSEL ES in Bozeman, Montana

Parameter	Value
Antenna Type	Circularly Polarized Yagi
Beamwidth	28° Circular
Tracking Velocity and Acceleration	AZ ~6.21 deg/sec EL ~2.68 deg/sec
Antenna Travel Range	Az: ± 165 deg (15 deg -345 deg) El: 0.0 – 180 deg
Transmit RF Bands	435 - 455 MHz (antenna limited)
Transmit Gain	16 dBi
Transmit EIRP	31 dBw
Transmit Polarization	RHCP
Receive RF Bands	435 – 455 MHz (antenna limited)
Receive G/T	-15.7 dB/K (ground station)
Receive Polarization	RHCP