

MICROSOFT INFRASTRUCTURE GROUP

Amendment to IBFS File No. SES-LIC-20201230-01436

Microsoft Infrastructure hereby amends the pending application with IBFS file no. SES-LIC-20201230-01436 to replace the currently listed point of communication with the U.S.-licensed satellite YAM-3, operated by Loft Orbital Solutions, (call sign S3072).

This amendment does not reflect any change to the facilities of the earth station as described in the pending application. Characteristics such as antenna model, transmit EIRP, and coordinated frequencies/arc remain unchanged. To the extent necessary, attachments and other materials associated with that pending application are incorporated by reference hereto.

Detailed information relating to the YAM-3 spacecraft is included in the materials submitted in support of that space station application (particularly Form 312 Schedule S).¹ However, pertinent information from the YAM-3 space station application is included below for convenience, as well as consolidated technical details relating to earth station operations.

Uplink Beams:

Antenna size	6.1 m
Antenna Manufacturer/Model	Comtech Ground Systems T355
Center Frequency	2071.875 MHz
Bandwidth	132 kHz
Emission Designator	132KG1D
Polarization	RHCP
Transmit Gain	36.5 dBi (at 2.025GHz)
Maximum EIRP per Carrier	72.6 dBW
Maximum EIRP Density per Carrier	48.6 dBW/4kHz
Location (NAD83)	Lat. 47° 14' 22.0"N Lon. 119° 53' 5.5"W
Site Elevation (AMSL)	406.05 m

Antenna size	6.1 m
Antenna Manufacturer/Model	Comtech Ground Systems T355
Center Frequency	2071.875 MHz
Bandwidth	132 kHz
Emission Designator	132KG1D
Polarization	LHCP
Transmit Gain	36.5 dBi (at 2.025 GHz)
Maximum EIRP per Carrier	72.6 dBW
Maximum EIRP Density per Carrier	48.6 dBW/4kHz
Location (NAD83)	Lat. 47° 14' 22.0"N Lon. 119° 53' 5.5"W

¹ See Application of Loft Orbital Solutions, Inc., IBFS File No. SAT-LOA-20200907-00105 (filed Sep. 7, 2020).

Site Elevation (AMSL)	406.05 m
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Downlink Beams:

Center Frequency	8125 MHz
Bandwidth	100 MHz
Emission Designator	100MG1D
Polarization	RHCP
Transmit Gain	16.2 dBi
Maximum EIRP per Carrier	23.2 dBW
Maximum EIRP Density per Carrier	-56.8 dBW/Hz
Site Elevation (AMSL)	406.05 m
Rx Location (NAD83)	Lat. 47 ° 14' 22.0 "N Lon. 119 ° 53' 5.5 "W
Rx Site Elevation (AMSL)	406.05 m
Rx Antenna Gain	52.9 dBi (at 8.2125 GHz)

Point(s) of Communication:

Satellite	YAM-3
Call Sign	S3072
Orbit Type	NGSO
Orbital Parameters	Apogee: 525.0 km Perigee: 525.0 km Inclination: 97.6 degrees RAAN: 108.7 degrees Orbital Period: 5708.0 seconds Argument of Perigee: 0.0 degrees