

From: Carlos Nalda

To: Behnam Ghaffari

Date: October 14, 2020

Subject: FCC File No. 0708-EX-CN-2020

Message:

Response to FCC correspondence:

Satellite Information

Satellite Coverage (Narrow Beam (NB) or Earth Coverage (EC))

- NB (when visible from Tucson, AZ only)

Receive antenna gain

- 15.44 dBi

Beamwidth of the receive antenna at the half power points

- Vertical plane 25° ; ($\pm 12.5^{\circ}$), Horizontal plane 60° ; ($\pm 30^{\circ}$)

Name of Satellite

- LEMUR-2 (KeyW Payload)

Antenna polarization

- H, V

Satellite Inclination Angle

- 51.6° ;

Apogee

- 419 km

Perigee

- 419 km

Orbital Period

- 1.5 hours

Number of Satellites in the System

- 1

Earth Station Information

Transmit antenna gain (dbi)

- 41.2 dBi (9875 MHz)

Beamwidth of transmit antenna at the half-power points

- 1.5° ; (9875 MHz)

Transmit antenna azimuth

- $0-360^{\circ}$;

Elevation of transmit antenna ASL (in meters)

- 820m

Elevation of transmit antenna AGL (in meters)

- 19m

Antenna polarization

- H, V

Best regards,

Carlos Nalda

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