

From: Benjamin Malphrus

To: Behnam Ghaffari

Date: January 12, 2021

Subject: FCC File No. 0612-EX-CN-2020

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Message:

UPDATE to 442 LICENSE APPLICATION BASED ON CORRESPONDENCE

Applicant: Morehead State University

File Number: 0612-EX-CN-2020

Correspondence Reference Number: 59227

Date of Original Email: 01/04/2021

PURPOSED SATELLITE

HIGH GAIN ANTENNA

THE SATELLITE TRANSMITTER ANTENNA GAIN: 15 dB

BEAMWIDTH: 30 deg

POLARIZATION: RHCP

LOW GAIN ANTENNA

THE SATELLITE TRANSMITTER ANTENNA GAIN: 5 dB

BEAMWIDTH: 140 deg

POLARIZATION: RHCP

PURPOSED EARTH STATION

THE EARTH STATION TRANSMITTER ANTENNA GAIN: 51.6 dBi (@2.25 GHz)

BEAMWIDTH: 0.37 deg

POLARIZATION: RHCP, LHCP, VERT, HORZ

THE EARTH STATION MEAN SEA LEVEL (MSL) AND ANTENNA ABOVE GROUND LEVEL (AGL):

MSL: 349.6 m

AGL: Maximum vertical height above ground (apex of feed at 90 degrees elevation): 25.6 m (84 ft)

Height to elevation axle: 14.17 m (46.5 ft.)