

## **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.)