

From: Michael Gold

To: Leann Nguyen
Date: August 13, 2015

Subject: FCC file 0316-EX-RR-2015

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The information provided below is submitted in response to the July 16, 2015 correspondence (Ref. No. 28758) concerning Bigelow Aerospace, LLC's pending experimental license renewal application.

Transmitter and Receiver Information:

A- Location:

a) Earth station: provide lat/long, city/state

(1) North Las Vegas (CLARK), NV-NL 36-12-45; WL 115-10-04
Altitude: 646.0m (MSL)

(2) Naalehu (HAWAII), HI, NL 19-00-49; WL 155-39-48
Altitude: 379.7m (MSL)

(3) North Pole (FAIRBANKS), AK - NL 64-48-15; WL 147-30-01
Altitude: 161.0m (MSL)

(4) Loring AFB (AROOSTOOK), ME - NL 46-57-18; WL 67-54-18
Altitude: 222.5m (MSL)

b) Space station: provide orbital information including

- Inclination angle: +28 deg inclination

- Apogee (km): 400 km altitude (circular orbit)

- Perigee (km): 400 km altitude (circular orbit)

- orbit period (hours): 1 hour

- Fractions of hours in decimal: .544 fraction of hour

- Number of satellites including name: 2 satellites planned. B330_1 and B330_2

The original satellites operated by Bigelow Aerospace are no longer transmitting. The information provided above applies to its planned follow-on spacecraft in the B330 series. The ground stations will continue to be used for proof of concept and planning for the B330 spacecraft and for future on-orbit programs. Bigelow Aerospace will seek modification of its authorization in the event that the parameters for the B330 program deviate from the information provided above.

B- Polarization: Circular Polarized

C- Orientation: Right Hand

D- Antenna Dimensions:

VHF Frequencies (145-146 MHz): 10' boom yagi

a) Gain (in dBi): 12.34 dBi

b) Beamwidth (in degrees): 52 deg circular

c) Azimuth (in degrees clockwise for True North): Full 0-360 deg travel

d) Elevation (in meters - MSL): See response A(a)(1)-(4) for elevation by location.

e) Height (in Meters - MSL): antennas are on 6m towers

UHF Frequencies (402.4-403 MHz): 11.5' boom yagi

a) Gain (in dBi): 16.20 dBi

b) Beamwidth (in degrees): 30 deg circular

c) Azimuth (in degrees clockwise for True North): Full 0-360 deg travel

d) Elevation (in meters - MSL): See response A(a)(1)-(4) for elevation by location.

e) Height (in Meters - MSL): antennas are on 6m towers at each location