

Behnam Ghaffari

Subject: FW: Experimental licensing

From: Hibbeler, Rich [<mailto:rhibbele@comsearch.com>]
Sent: Tuesday, April 01, 2014 3:40 PM
To: Behnam Ghaffari
Subject: RE: Experimental licensing

Ben, below is what I got from the client for the Satellite – I have answered the other questions below by your question.

From: Craig Okuda [<mailto:craig@mbari.org>]
Sent: Monday, March 31, 2014 5:30 PM
To: Hibbeler, Rich
Subject: RE: Experimental licensing

Rich,
This is what I got for the sat antenna:

2. Receive antenna gain: **+2.40 dBic @ 90° (Zenith, Top)**

3. Beamwidth of the receive antenna at the half power points: **3dB Beam Width is 172°**

If you have any questions, or require additional information, please feel free to contact me.

Sincerely,

Rich Hibbeler
Manager, FCC Licensing Group
COMSEARCH
(703) 726-5671

From: Behnam Ghaffari [<mailto:Behnam.Ghaffari@fcc.gov>]
Sent: Wednesday, March 26, 2014 9:27 AM
To: Hibbeler, Rich
Subject: RE: Experimental licensing

Rich,
The “Experiment Descriptions” indicates that there will be a communication link with Globalstar satellite modem. Which satellite is this? And what is the Longitude?
In addition, please address the following items:

Please provide the following information with respect to the satellite(s):

1. Satellite coverage (Narrow Beam(NB) or Earth Coverage(EC))
2. Receive antenna gain
3. Beamwidth of the receive antenna at the half power points

Please provide the following information with respect the transceiver ground-station antenna(s): the antennas being used are various -

1. Transmit antenna gain (dbi) For the 900MHz band 12.2dBi; For the 2.4GHz band – 14dBi
2. Beamwidth of transmit antenna at the half-power points for the 900MHz band – 45 degrees; for the 2.4GHz band 35 degrees.
3. Transmit antenna azimuth From 210 to 290 degrees; all out towards the ocean. The research building is located right on the ocean front.
4. Elevation of transmit antenna MSL (in meters) 16m
5. Elevation of transmit antenna AGL (in meters) 13m – the antenna will be mounted on top of the research building.

Ben