

From: Derek Ofori

To: Behnam Ghaffari

Date: October 20, 2020

Subject: FCC File No. 1434-EX-ST-2020

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Message:

1. What are the coordinates for the site located at Ft Bragg, NC?

35° 8' 29.239" N 79° 0' 28.782" W

2. Where is the NOC located?

Fayetteville, NC

What are the coordinates (Lat, Long) for the NOC owned by USSOCOM?

35° 8' 29.239" N 79° 0' 28.782" W

You indicated that the Terminal will be transmitting and receiving at Ku Band frequency on end customer network.

Yes

Where is the location of end customer network?

This is a loopback test/demo. end customer network is back at Fayetteville.

Please provide the coordinates (Lat, Long) for the end customer network.

35° 8' 29.239" N 79° 0' 28.782" W

4. What is the size (in meter) and antenna gain (in dBW) of the proposed antenna: Flat Panel Tactical Terminal?

The equivalent aperture size is 12" and antenna gain of 35-38 dBW

5. You indicated that you will be using an iDirect 950 MP modem and integrating with a 6 Panel RX assembly and a 4 panel TX assembly.

Yes.

Is that there will be 6 Flat Panel Tactical Terminals for the transmit and 4 Flat Panel Tactical Terminals for receive?

No, there is only one (1) terminal and this terminal has a grid of 4 transmit terminals and 6 receive panel.

6. You indicated that the STA is for A demonstration of ESA platform on a GEO constellation.

Yes

Is Flat Panel Tactical Terminal an ESA antenna which is located at aircraft?

It's an ESA antenna that is part of an aircraft. However, the demonstration does not include an aircraft.

If so, what is the altitude (height above ground in feet) of aircraft. What is the operating aircraft radius around the site of Ft Bragg, NC and Fort Benning, GA?

Not applicable. Since aircraft is not included or supplied as part of demo.

Please specify the receiving frequency bands (for example: 10.7-11.7 GHz, 11.7-12.2 GHz, 12.2-12.7 GHz)

11.7948 GHz

8. Please specify the transmitting frequency bands (for example: 12.75-13.25 GHz, 13.75-14.5 GHz)

14.0948 GHz

9. You indicated that the STA is for A demonstration of ESA platform on a GEO constellation. What is the point of communication(s) (name, call sign and file no. of GEO satellite(s)) operating in the 10.7-14.5 GHz frequency bands?

97W

10. Experimental license does not authorize to receive signals from satellite operating in the receiving frequency bands. Please remove the receiving frequency bands from your proposed 10.7-14.5 GHz frequency band.

Ok

Will provide follow on for item 11.