To: Laura Stefani
E-Mail: LAStefani@mintz.com
From: Nimesh Sangani
Date: April 19, 2021

Subject: Additional Information Request

Message:

Please address the following questions/concerns:

1) The attached copy of the Papua New Guinea ("PNG") license only showed the grant for the 617-960 MHz and 1710-2200 MHz bands. Please provide an updated PNG license to include the proposed frequency bands 400.15-401 MHz, 437-438 MHz, 47.2-50.2 GHz and 50.4-51.4 GHz had been granted, and to include BW3 satellite that will orbit between 500 km and 600 km above the earth.

2) Please provide the ITU link and the name of PNG ITU filing that registered the uplink and downlink frequency bands (400.15-401 MHz, 437-438 MHz, 788-798 MHz, 845-846.5 MHz, 846.5-849 MHz, 47.2-50.2 GHz and 50.4-51.4 GHz) for The BW3 satellite.

3) Please provide an updated agreement from AT&T to include the proposed frequency bands 788-798 MHz and 845-849 MHz bands.

4) Please provide the number of 2.4m antennas located at Midland, TX and Kapolei, HI. Please provide the number of handsets to be used for the tests.

5) Please note in RESOLUTION 122 (REV.WRC-19), ITU stated that FSS satellite networks with earth station antenna diameters of 2.5 meters or larger operating as a gateway-type station are capable of sharing with HAPS ground stations. Please address the proposed 2.4m antenna is capable to share with HAPS ground stations or consider to change the size of 2.4m antenna

6) Please provide the antenna patterns/performance and/or manufacture specification/certification of the 2.4m antenna operating in the 400.15-401 MHz, 437-438 MHz, 788-798 MHz, 845-846.5 MHz, 846.5-849 MHz, 47.2-50.2 GHz and 50.4-51.4 GHz bands.

7) Please provide the maximum height of antenna (in meter) above the ground (AGL) and AMSL.

8) Please provide a radiation hazard analyses of the gateway 2.4m antenna.

9) Please provide the name and number of handsets for operations in the 788-798 MHz, 845-846.5 MHz, 846.5-849 MHz. Please confirm that the handsets already approved by the FCC and the SAR level transmitted from the handsets was reviewed and approved by the FCC. If the handsets had not been approved by FCC, please provide a radiation hazard analyses for of the handsets.

10) Do all the users equipment route through the terrestrial networks before they transmit directly to BW3 satellite ? Or do all the users equipment route through the terrestrial networks before they transmit to BW3 satellite via gateway station? If so, please address and provide an updated Figure 2.

11) Please amend the power 28.2W (ERP) to 1.22W (ERP) /3 dBW EIRP (2W & 0dBi from Schedule S) for emission 30K0FXD in the 400.15-401 MHz and 437-438 MHz bands.

12) Please amend the power 0.12W (ERP) to 485.2W (ERP) /29.01 dBW EIRP (0.2W & 36dBi from Schedule S) for emission 180KDXD in the 788-798 MHz and 845-849 MHz bands. Please consider to choose a different handset with much lower antenna gain and power or change to different frequency bands.

13) Please amend the power 97.7kW (ERP) to 64863W (ERP) /50.27 dBW EIRP (3W & 45.5 dBi Schedule S) for emission 10M0DXD in the 47.2-50.2 GHz and 50.4-51.4 GHz.

14) Please address the allocation and co-share bands (47.2-50.2 GHz and 50.4-51.4 GHz.) in the US Table of Section 2.106 of Commission's rules. Please provide interference analyses on how the proposed NGSO operations (EIRP and EIRP density of emissions for both an individual and aggregate) transmitting from 2.4m antenna(s) on ground to NGSO BW3 satellite would not cause harmful interference into GSO FSS & BSS operating in the 47.2-50.2 GHz and 50.4-51.4 GHz.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of April 19, 2021 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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