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Memorandum

Date: June 7 2019

From: Venkat Potluri, Airspan Networks Inc.

Subject: Airspan Networks Inc. experimental STA application license for new LTE B53 development and testing along the east coast of Florida for a direct air-to-ground broadband system.

FCC Information:

FRN: 0027651678

FCC File number: 1040-EX-ST-2019

Reference Documents:

RD1: Airspan Networks Memorandum document (this document)

RD2: Additional supporting documents for STA

RD3: FCC Table of frequency allocations (Note US380)

The purpose of this memorandum is to apply the experimental STA application for FRN: 0027651678, presented under Airspan networks Inc.

This application seeks STA for research, development and testing along the east coast of Florida for a direct air-to-ground broadband system that is not yet certified.

The purpose of operation is to demonstrate the LTE-based air-to-ground system (DA2G) that will provide broadband connectivity and internet service to aircraft during flights. Technical details are shown in RD2.

The experimental STA application requests uplink/downlink in the 2484-2495 MHz. On this band, 2484 – 2495 MHz is allocated for Mobile Satellite Service use; however, a non-federal licensee in accordance with FCC table of frequency allocations Note US380 (RD2) also authorizes the allocation for use.

In case of any interference, Airspan will immediately take steps to resolve it, which includes shutting down the operation.

Airspan Networks requests the use of this band 53 on a non-interference basis.

Band	Name	Downlink/Uplink (MHz)	Bandwidth (MHz)
53	TD 2400	2484 - 2495	10

Airspan Networks AirHarmony 1000 will be used as a base station (FX) for the air-to-ground solution. AirHarmony 1000 is a Compact and versatile 4G LTE Micro Base Station provides the outdoor Micro layer of a Heterogeneous LTE-Advanced network deployment. It is deployed extensively throughout the Mobile communication industries.

Airspan Networks AirSky will be used as a Mobile station (MO) for the air-to-ground solution. It is an ultra-compact LTE UE connects to the base station from the aircraft.

Stop Buzzer Contact: Contact person for Stop Buzzer is Mr. Nicholas Pritchard. If any interference during the testing he can be reached at +1 561 654 5926 to cease operations.

In addition, more information regarding the testing locations, base station/mobile antennas specifications are included in the reference documents.

Thank you for your consideration of STA application, please feel free to contact me if you need any further information.

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