Robert Bosch LLC
Request for Grant of Special Temporary Authority
File No. 0994- EX-ST-2019
Narrative Exhibit Describing Operation

Please note that this application for STA is a replacement for an application for an Experimental License that was dismissed without prejudice. See, File No. 0287-EX-CN-2019 which sought similar facilities. This STA application differs, however, in that it is limited to test operation at three specific sites and at each, within a radius around a centerpoint.

This application, filed by Robert Bosch LLC, an international manufacturer of tools, automotive equipment, and industrial and consumer products, requests special temporary authority during a six-month period beginning on or before July 1, 2019 and ending six months later, to permit development and testing of a device that will permit vehicle maintenance. Bosch is developing a trial product to sense sections of a vehicle. Therefore Bosch is planning to conduct pilot test runs in the field in the areas requested in the test license. The device supports connectivity using commercial mobile networks in the area. Communications for this connectivity will be commercially provided through AT&T or another commercial service provider for this series of experiments using SIM cards from the local commercial mobile service provider. ***Bosch will not be using spectrum in the cellular bands that is allocated to any commercial service provider other than through a commercial service provider (in this case AT&T), so no interference on those allocations can arise to any other carrier from the use of this device.*** Specific frequencies will be determined by the network operator only. There will be no RF signals transmitted without the SIM card from the commercial service provider. The product uses network data services provided by the commercial service provider to transfer information to the server. This system is capable of using 3G and LTE depending on the SIM provided by the commercial mobile services provider.

The purpose of this STA is to evaluate the product in the field; to collect data for analytics in the field; develop applications for this device and explore different use cases by incorporating it in various vehicles; and to improve product implementation during this pilot phase. All of the experimental devices will be retrieved by Robert Bosch LLC from all test vehicles upon completion of the operation.

The bands sought herein are as follows:

3G Band 2: 1850 to 1910 MHz
3G Band 5: 824 to 849 MHz& 869 to 894 MHz
LTE Band 2: 1850 to 1910 MHz & 1930 to 1990 MHz
LTE Band 4: 1710 to 1755 MHz & 2110 to 2155 MHz
LTE Band 5 : 824 to 849MHz
LTE Band 7: 2500 to 2570 MHz
LTE Band 12: 699 to 716

There will also be a GPS receiver included in the product.

Neither the composite product nor its components is certified in the United States as of yet. Hence the need for the STA for this pre-production testing, evaluation, data gathering, and development of applications/use cases for the device.

The Stop Buzzer contact in the United States for Bosch for this test series at all locations will be Ramdurai Balasubramanian of Bosch, whose mobile phone number is 248-320-0424 and whose e-mail is Ramdurai.Balasubramanian@us.bosch.com. Should any interference arise or be complained of by any entity during the event, all operation will cease until the interference complaint is resolved to the satisfaction of the complainant.

Should any question arise concerning this application, kindly notify undersigned counsel.

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