

Robert Bosch LLC
Request for Grant of Special Temporary Authority
File No. 1008- EX-ST-2019
Narrative Exhibit Describing Operation

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 August 1, 2019 and ending six months later, to permit development and proof- of-concept testing of a mobile communications and processing device integrating 4G LTE, GPS, Wi-Fi, Bluetooth and on-board machine communications via CAN, Ethernet and RS-232. The device is ideally suited for advanced telematics applications such as machine health monitoring, agronomic data capture, advanced logistics and remote diagnostics. It is environmentally sealed and rigorously tested to ensure performance in the most demanding environmental conditions. The host vehicle for this device is for off-road, farming vehicles. The tests of the device will occur while the farming vehicle is running, and the deployment area in each location will be on farmland and not on roadways. Communications for necessary 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.**

Operation is proposed in the following states, at locations determined by Bosch, working with a manufacturer of farming vehicles:

1. Alabama
2. Arkansas
3. Arizona
4. California
5. Colorado
6. Florida
7. Georgia
8. Iowa
9. Illinois
10. Indiana
11. Kansas
12. Kentucky
13. Louisiana
14. Minnesota
15. Mississippi
16. Nebraska
17. North Carolina
18. Ohio
19. South Carolina
20. Texas

21. Virginia
22. Wisconsin
23. Washington
24. Wyoming

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 farming 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 17: 704 to 716 MHz and 734 to 746 MHz
WLAN: 2400 to 2483.5 MHz & 5180-5320 MHz & 5500 to 5825 MHz
BLE: 2402-2483.5 MHz

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 B.N Prakash of Bosch, whose mobile phone number is +91 97422 58416 and whose e-mail is Prakash.Bn@in.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 and for an additional Stop Buzzer Contact, kindly notify undersigned counsel.

Christopher D. Imlay
Booth, Freret & Imlay, LLC
14356 Cape May Road
Silver Spring, MD 20904-6011
(301) 384-5525 telephone
(301) 384-6384 facsimile
(301) 351-3795 mobile
chris@imlaylaw.com
chris.imlay@gmail.com