

McCain Inc. STA justification

STA File Number: 0129-EX-ST-2021
FRN: 0030485163

1. Introduction

McCain, Inc. creates intelligent transportation solutions and traffic control equipment to promote safer, more mobile and livable communities. A wholly-owned subsidiary of the SWARCO Group, the San Diego-based transportation technology firm provides high-quality products and services to optimize signalized intersections, improving safety and quality of life for all road users. McCain's innovative solutions are paving the way to the future by creating the next generation of smart city solutions and helping to prepare the infrastructure for connected and autonomous vehicles.

This Special Temporary Authorization (STA) request is to transmit traffic signal and vehicle safety data to support C-V2X communication systems demonstrations.

2. Test Overview

This STA for the range of 5895-5925 MHz is used to demonstrate communication hardware interoperability with McCain Inc. traffic control products.

The interoperability demonstration will take place at the SunGuide Transportation Management Center in Miami, FL. This demonstration will focus on FDOT field demo requirements.

Transmitters will utilize either 1 or 2 low power RF channels with either a 10 MHz or 20 MHz transmission bandwidth.

3. Transmitter Information

McCain Inc. is requesting an STA to enable a demonstration with C-V2X communication devices using a 10 or 20 MHz transmission bandwidth

Table 1: Transmitter Information

Type	Frequency (MHz)	Power (dBm EIRP)	Power (W EIRP)	Power (W ERP)	Bandwidth (MHz)	Emissions Designator	Location
Fixed	5895-5925	33	2	1.21	10 and 20	10M00W7W 20M00W7W	Vista, CA
Mobile	5895-5925	33	2	1.21	10 and 20	10M00W7W 20M00W7W	Vista, CA