

**APPLICATION FOR SPECIAL TEMPORARY AUTHORITY
U.S. SAILING
ISAF SAILING WORLD CUP MIAMI REGATTA
File No. 0015-EX-ST-2014**

NARRATIVE AND FREQUENCY COORDINATION EXHIBIT

The purpose of this experiment is to field deploy for developmental testing and proof-of-concept testing purposes a radiolocation system developed by ST Sportservice of Germany (a division of Swiss Timing) for purposes of precise location of sailing vessels in a sailing regatta.

The applicant, U.S. Sailing, is the sponsor of the 2014 ISAF Sailing World Cup Miami, a televised sailing regatta that is part of the 2013-2016 international ISAF Sailing World Cup Regatta. In the United States, this event will take place in Biscayne Bay, Florida, on January 22 through and including February 2, 2014. Fixed, land-based receivers for the radiolocation facilities that are to be deployed in connection with this RF system will be located at and controlled from the U.S. Sailing Center in Miami at 2476 South Bayshore Drive in Coconut Grove, Florida 33133. **The Stop Buzzer contact for this testing is Mr. Gary Bodie, whose telephone number on site is 757-342-4252.** He can also be reached at garybodie@gmail.com.

The application proposes the use of two types of transponders for short-range and long-range radiolocation of individual sailing craft participating in the regatta. There will be six different race courses in use simultaneously. The short-range system will be operated in the band 902-928 MHz using seven different, one-megahertz bandwidth channels. The transmitter power will be up to 316 milliwatts (+25 dBm) with omnidirectional dipole antennas. The transmit duty cycle will be 2 milliseconds every 2 seconds. There will be up to 500 devices used at any given time.

The long-range system will operate in the band 433-435 MHz with seven channel pairs, each channel being 25 kHz wide, at transmitter power levels up to 10 watts (+40 dBm). Antennas will be omnidirectional, at up to 4 dBi gain. The transmitter duty cycle is less than one second on each 2 seconds.

This application proposes the use of frequency bands allocated to the Amateur Radio Service. Operation pursuant to this STA will be coordinated in advance with ARRL, the national association for Amateur Radio, and with local frequency coordinators of the Florida Repeater Council. Should any interference be reported, operation on the subject frequency will immediately cease and will not resume unless and until resolved to the satisfaction of the licensee affected. Channels will be selected in the 902-928 MHz band which are not in use by LMS system licensees in south Florida.

Kindly address any questions about this application to undersigned counsel:

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