

Sportvision
Application for Special Temporary Authority
Description of Purpose of STA
File Number 1708-EX-ST-2026

Sportvision, a wholly-owned subsidiary of SMT (SportsMEDIA Technology) is and has been in the process of developing, refining and testing a Race Track Wireless Data System, to provide data communications between motor vehicles on a race track and one or more fixed base stations installed along the track. One application of this system is a video image enhancement for television broadcasting of automobile racing events. The system allows television viewers to see displayed on screen the real-time location of cars during a racing event. The vehicles are equipped with GPS receivers and other sensors that generate a data packet every 200 milliseconds. The wireless system is responsible for collecting those packets from all rovers and delivering them to a control station in real time. A small amount of outbound data from the control station is sent to all the vehicles as well.

The radio units to be installed at the base stations and rovers are identical. The radio itself is a direct sequence spread spectrum unit, using production radios for 2.4 GHz. The system may ultimately be deployed on an unlicensed basis in the 2.4 GHz band or elsewhere, but the high noise levels in that band in the test locations (commercial automobile racetracks) are unsuitable for development and testing of the product.

This application specifies a test deployment at four test venues: Bristol Motor Speedway, Bristol TN; Kansas Speedway, Kansas City, KS; Las Vegas Motor Speedway, Las Vegas, NV; and Charlotte Motor Speedway, Concord, NC. These are short duration test events, the first beginning September 15, 2026 and the last ending October 12, 2026. No event lasts longer than five days including setup and teardown. All equipment will be removed by the applicant after the event.

An Intersil baseband processor performs the Direct Sequence modulation and demodulation. It is part of a five-chipset developed for the 802.11b standard. It uses 1/4th of the standard 802.11 speed resulting in a relatively narrow occupied RF bandwidth. The power supply generates 3.3 Volts to power all circuits of the board. The radio, including the power amplifier, amplifies the signal up to 30 dBm. Power measurement is active, and keeps the transmit power at the desired level. Transmitter output is programmable, from 0 to 28 dBm. The occupied bandwidth is 4.6 MHz.

The frequency band requested is allocated for aeronautical flight test telemetry. Four separate applications are being filed soon hereafter for consent from AFTRCC, one for each venue, and when each coordination grant is received, they will be filed as additional exhibits hereto. Any complaint of interference from authorized entities and licensees will result in cessation of operation until the interference is corrected. Similar STA grants have been authorized and conducted over the past few years without any interference reports whatsoever.

A contact for interference resolution issues and the stop-buzzer contact is Matthew Bertram, Vice President for Active Tracking Technology, SMT, whose telephone number is 541-829-1360. Other inquiries, and an alternative stop buzzer contact, can be addressed to the office of communications counsel for the applicant, as follows:

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