

From: Ryan Peterson

To: Travis Nguyen

Date: April 14, 2026

Subject: Request for Info - File # 0151-EX-CN-2026

Message:

The following information was emailed to the FAA on 4/14/2026:

Hello,

This email is in response to a question regarding FCC experimental license file number 0151-EX-CN-2026 submitted by SRI International.

The FCC responded to SRI with the following question: "For the request frequency 9200-10000 Mhz at location Baltimore , MD and Dahlgren, VA, FAA wants to have emission mask and antenna height. Please provide these information to: Hibner, Walter CTR (FAA) walter.ctr.hibner@faa.gov Pigg, Timothy J (FAA) timothy.j.pigg@faa.gov And CC : Navid Golshahi Navid.Golshahi@fcc.gov"

The following is SRI's response to the FAA question:

The Breckenridge radar system is a custom AESA-based software-defined radar built by SRI for advanced marine navigation. Over the 9,200 to 10,000 MHz frequency band, the mean ERP is 18 kW with a peak ERP of 60 kW. The Breckenridge radar emission mask is 40 dB below mean/peak ERP 20 MHz outside of operating band. Operating band is software-controlled. Emissions are controlled through analog and digital filtering of transmitted waveform. A guard-band can be programmed to limit radar operating range to 9220-9980 MHz to ensure emissions are -40 dBc relative to mean/peak ERP outside of the operating band. The figure below shows the emission mask of the Breckenridge radar waveform when tuned to a 9400 MHz center frequency.

The Breckenridge radar is planned for testing in the Baltimore, MD and Dahlgren, VA locations on a marine craft or land vehicle with an antenna height not exceed 5 m above the ground or water line.