

Numerica Corporation

Narrative Statement

Application for STA for Experimental Authority to Test Radar in the 15.7 – 17.2 GHz Band

Numerica Corporation (Numerica) seeks an STA for experimental authorization to test and demonstrate short-range air defense (SHORAD) radar for the United States Special Operations Command exercise in Red Springs, North Carolina. The radar is designed to detect unmanned aerial system (UAS) threats.

Numerica plans to commence testing no earlier than March 25, 2024.

Numerica already holds experimental authority (Call Sign WN2XWH; File No. 0295-EX-CM-2023) to test and demonstrate the same equipment from three fixed sites in Colorado.

Numerica now seeks an STA to operate for thirty-one (31) days from fixed locations within the area described below.

Location: Emerging Technology Institute, Red Springs, North Carolina

Coordinates: NL 34-50-2; WL 79-10-57

Radius of Operation: .06 km

Stop Buzzer Point of Contact: Evan Everett; 713-855-5121; evan.everett@numerica.us

Numerica understands that the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Numerica is aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.

Numerica is aware that our system's development within 15.7-16.2 GHz will be severely impaired due to FAA usage nationwide, which has priority and was stated in prior conditional concurrences. The transmissions will only occur in the direction away from the nearest airport.