

Experimental RF Communications and Spectrum Awareness System

Taurus Technologies Aero proposes experimental testing of a wideband RF communications and spectrum awareness system under FCC Part 5 Experimental Radio Service rules. The system will evaluate distributed RF communications and sensing techniques across the frequency range of 400 MHz to 2500 MHz using low-power mobile transmitters not exceeding 10 watts output power.

Experimental Objectives

- Wideband digital communications testing
- Adaptive spectrum utilization techniques
- Distributed RF sensing and situational awareness
- Mobile RF node networking and coordination

Operational Description

Experiments will be conducted using mobile and temporary stations operating within the United States test locations specified in the application. The system will evaluate communications performance, spectrum efficiency, and interference resilience in realistic operating environments.

Interference Protection

All operations will be conducted on a non-interference basis in accordance with FCC Part 5 experimental license conditions. Operations will immediately cease if harmful interference occurs to authorized spectrum users.