

April 24, 2026

Archer
1585 Moffett St
Salinas, CA 93905

FEDERAL COMMUNICATIONS COMMISSION
1270 Fairfield Road
Gettysburg PA 17325-7245

Application Narrative for Proposed Equipment

Proposed Program

Archer Aviation Inc. is developing advanced electric vertical takeoff and landing (eVTOL) aircraft intended to operate within urban air mobility (UAM) frameworks. To support the safe and effective integration of these aircraft into the national airspace, Archer seeks a Part 5 Experimental License to conduct controlled testing of airborne and ground-based radio frequency systems.

The experimental operations will focus on evaluating:

- **Air-to-ground and air-to-air communications** using prototype avionics and telemetry systems
- **GNSS augmentation and RF-based navigation techniques** for precision flight control
- **Spectrum coexistence and interference mitigation strategies** in congested urban environments
- **System performance under dynamic flight conditions**, including takeoff, hover, and transition phases

This experimental authorization is essential to validate the performance, reliability, and safety of Archer's integrated RF systems prior to commercial deployment. It supports innovation in next-generation aerospace technologies while ensuring adherence to FCC rules and non-interference with incumbent services.