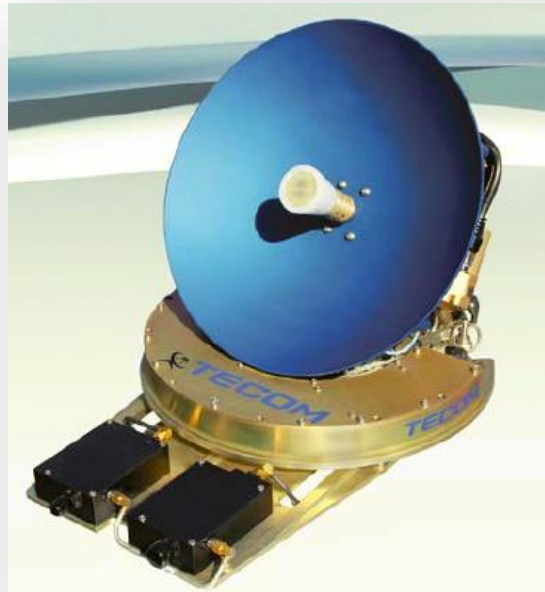
**Narrative:**

The project objective is to support development, test, verify, and demonstrate a 12" circular reflector motion stabilized antenna system.

While the antenna is intended for operation on an aircraft, TECOM is currently seeking an experimental license for static ground based testing. TECOM may request an amendment for airborne and motion testing at a later date.

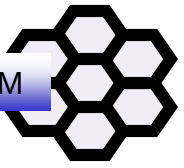


Static testing supports verification of cross-polarization rejection, linearity (spectral regrowth) at maximum power, Modulation & Coding optimization, etc. Ground testing verifies tracking and satellite switching. Calculations for forward and reverse links are done ahead of operation, but are verified during testing.

Testing is planned for a date as soon as an FCC license becomes available and will continue for at least one year. Many test events are anticipated which typically will be of duration from 1 day to one month. We are requesting testing for up to 24 months.

The terminal will be tested in Southern California (Thousand Oaks, San Diego), Arizona, Florida, Denver, Virginia Beach and other locations. We are requesting operation within CONUS excluding 125 km (or line of sight) around NASA and NSF sites.

Testing under this license is planned with human supervision to ensure safety and compliance with the terms of the license.



Various hub antenna systems may be used depending on availability. Link budgets will be performed to ensure compliance with off-axis spectral density using spectral spreading.

A technical brief is included with this filing. This document provides technical details of the system, antenna patterns, pointing performance, link budgets, and analysis for spectral spreading requirements.