

Federal Communications Commission
Experimental Radio Service
P. O. Box 358320
Pittsburgh, PA 15251-5315

Subject: Request for Special Temporary Authorization (STA)
U-125 Emergency Locator Verification Testing – Wichita, KS

Gentlemen,

This request for a Special Temporary Authorization (STA) is submitted for testing of an Emergency Location Transmitter (ELT) system on the U-125 aircraft. The purpose of this STA is to verify proper operation on multiple aircraft (at least 8 aircraft). Two frequencies, 123.3MHz and 246.6 MHz are being used to test ELT operation as an alternative to testing on the actual ELT frequencies.

1. Name and Address:

Raytheon Aircraft Company
9709 E. Central
Wichita, KS 67201-0085
Attn: Martin Coons, B40 Annex

- 2. Need for special action:** This STA is required to conduct beacon (ELT) tests on Raytheon Aircraft U-125 aircraft. The testing window will be intermittent and for a duration of at least six months. The duration of each individual test would be 10 minutes or less.

Type of operations: The tests to be conducted include the use of two frequencies 123.3 MHz and 246.6 MHz.

- 3. Time and Date:** Testing is planned to occur between the dates of November 12, 2002 and November 12, 2003. If STA is approved, Raytheon Aircraft will coordinate the use of frequencies and dates for testing with the appropriate agencies and Frequency Management offices.

4. Class of Station: XR

Call Sign: TBD

Nature of Service: Experimental

- 5. Location:** Proposed test will be at the Raytheon Aircraft Electromagnetic Effects (EME) facility in Wichita, KS. This is a company owned facility located at the following coordinates: 37°41'15"N, 97°13'15"W.

- 6. Equipment Manufacturer:** Hewlett Packard 8673D Generator and Amplifier
Research 150L Amplifier. Hewlett Packard 3325B amplifier.

7. **Frequency Bands:** VHF 123.3 MHz and UHF 246.6 MHz
8. **Power Output to Antenna:** 10 watts
9. **Emission:** CW (NON)
10. **Antenna Height:** Less than 18 feet above ground.
Antenna Type: Log Periodical
Gain: 3 dB
Beamwidth: Less than 90°
Polarization: Various
Direction: 360°

Should you require additional information, please contact Martin Coons at 316-676-6977 or martin_coons@rac.ray.com.

Martin Coons
Raytheon Aircraft Company
9709 E. Central
Wichita, KS 67201-0085
MS 962 / B31

Enclosures:

FCC Form 159

CC: