

The following parameters of a test tower signal, is provided to the FAA regional office for acquiring FAA prior coordination and concurrence. The NGT numbers are needed for a new FCC experimental 6 month STA license. This signal is used in conjunction with WC2XRO license for the testing of TPS-77 radars. If any question please contact John Witt Lockheed Martin Syracuse 315-456-3003.

The TPS77 will utilize test towers at the following site(s):

(1) Syracuse, NY, fixed - NL 43° 06' 47"; WL 76° 11' 29"

- Frequencies:

1275 MHz (Emission Designator 28M0W0N)

1372.5 MHz (Emission Designator 39M0W0N)

- peak envelope power (PEP);

(1) Antenna output = 1 W (ERP), antenna input = 13 dBm maximum

- type of antenna;

(1) Lansdale H-5000R Standard Gain Horn Antenna

- transmit antenna gain;

(1) 17.0 dBi, 3 dB beamwidth: 35° azimuth, 30° elevation

- elevation above sea level of the antenna site;

(1) Syracuse: 124.4 m (408 feet)

- height above ground of the focal point of the antenna;

(1) Syracuse: 27.1 m (89 feet)

- antenna polarization; **Vertical**

- the azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.;

(1) directional, bearing 216° true north

(Vertical orientation is 5° below the horizon)

- pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics (staggered, jittered, fixed) of the equipment;

Not Applicable

- pulse width;

Not Applicable

- equipment nomenclatures;

#TE-77-B (Custom built test equipment not for sale)

- whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking;
No, (directional antenna will be permanently mounted in the fixed position described above)

- radius of operations if appropriate;
Fixed position

- detailed description of the proposed operation to include any technical parameters that will be altered during operations.
This proposed intermittent operation is designed to test the countermeasures capabilities of the TPS-77 system. The station mentioned in this document will be mounted to existing test facilities towers, and will be pointed at a currently licensed TPS-77 system operated under Authorization WC2XRO. One hour operation within a 24 hour period, on occasional days of operation is anticipated. Test Equipment will be turned on and off intermittently. This activity is in support of contract number LVQ2TPS77 with Latvia.