

NTIA Requirements

8.3.28 USE OF FIXED DEVICES THAT RE-RADIATE SIGNALS RECEIVED FROM THE GLOBAL POSITIONING SYSTEM

Except as otherwise authorized under Part 7.14, federal agencies and departments may, under the following conditions, operate fixed devices that re-radiate signals received from the Global Positioning System (GPS).

1. Individual authorization is for indoor use only, and is required for each device at a specific site.

Our individual authorization is for indoor use for a single device at our Salem location specified on the application.

2. Applications for frequency assignment shall be applied for as an "XT" station class with a note indicating the device is to be used as an "Experimental RNSS Test Equipment for the purpose of testing GPS receivers" and describing how the device will be used.

Our frequency assignment is an XT station class used for Experimental RNSS Test Equipment. We will be testing GPS receivers and antennas using the Re-radiating kit from NavtechGPS.

Functional testing will consist of powering up our GPS receivers/antennas and verifying communications with the GPS satellites.

3. Approved applications for frequency assignment will be entered in the GMF.

Frequency is specified in the application

4. The maximum length of the assignment will be two years, with possible renewal.

We are looking at a total of 5 years for this experiment

5. The area of potential interference to GPS reception (e.g., military or contractor facility) has to be under the control of the user.

None

6. The maximum equivalent isotropically radiated power (EIRP) must be such that the calculated emissions are no greater than *140 dBm/24MHz as received by an isotropic antenna at a distance of 100 feet (30 meters) from the building where the test is being conducted. The calculations showing compliance with this requirement must be provided with the application for frequency assignment and should be based on free space propagation with no allowance for additional attenuation (e.g., building attenuation).

See application.

7. GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.

In progress

8. The use is limited to activity for the purpose of testing RNSS equipment/systems.

This test is limited only for testing RNSS

9. A "Stop Buzzer" point of contact for the authorized device must be identified and available at all times during GPS re-radiation operation of the device under any condition.

Included in the quote.