

Detailed answers to questions 1 through 9 of Section 8.3.28

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

1a. This will be for indoor use only for the one device we are requesting. It will be centrally mounted above our functional testers that require a GPS signal to pass functional testing.

2. Applications for frequency assignment should 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.

2a. The purpose of Jabil applying for a GPS re-radiator is due to the demand from our customers to test GPS functionality so in effect it will be used as an Experimental RNSS Test Equipment for the purpose of testing GPS receivers. We currently use a hard-wired solution (roof mounted antenna, amplified splitter that is connected directly to the devices under test) which limits how many units can be tested at any given time. A re-radiating solution is a "real world" wireless functional test that would be more in line with our customers' requirements.

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

3a. Jabil (JDAS) (Jabil Defense and Aerospace Services) is an OEM sub-contracted provider of circuit card assemblies supplying primary US government contractors and civilian companies for production and test solutions. We are not re-radiating a new frequency but intend on re-radiating an existing GPS signal. If the frequencies that we need to re-radiate have to be entered into the Government Master File, that is fine. We wish to conform to all rules and regulations as required by the FCC.

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

4a. On the application we requested five years not realizing there was a two year limit. Our commitment period to our customers is generally in five year increments and we are assuming that we will have to apply for a continuance after the initial two year period.

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

5a. The amount of power out of the antenna will be controlled with a variable amplifier. At maximum setting it will still be within compliance (see link budget) to insure no external interference is generated.

6. The maximum equivalent isotropically radiated power (EIRP) must be such that the calculated emissions are no greater than -140 dBm/24 MHz 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.)

6a. The link budget for the re-radiating antenna was submitted with the request but is added again here for your convenience. The re-radiating antenna we specified is within the limits specified in question 6.

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.

7a. Once the re-radiating antenna is installed a general e-mail will be sent to all employees in the building informing them of this. There are no other impacted users who would fall into the potential interference range.

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

8a. The re-radiating antenna will only be used to test the specific GPS receiver functionality for the product we build that requires such. If that GPS signal requirement ceases or product goes end of life then the power will be removed from the re-radiating antenna effectively disabling it.

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.

9a. This person has been identified as John Stevenson, Jabil Defense and Aerospace Services test engineer. In addition Jabil Security personnel are on hand 24/7 to respond to such an urgent need. Contact information is:

John Stevenson

Jabil Circuit Security Office

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