

Response to items contained in 8.3.28

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

The two proposed repeaters will only be used indoors.

b. 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.

This note and description will be included in another attachment, but it is also included here:

The two repeaters to be used at Meter Group, Inc. USA will be used as Experimental RNSS Test Equipment for the purpose of testing GPS receivers. The data loggers we manufacture will contain GPS receivers. In order to ensure the GPS receivers work and have been successfully integrated with the data logger, the repeater will be used.

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

Ok.

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

We are requesting a license for two years and will renew in the future if necessary.

e. The area of potential interference to GPS reception (e.g., military or contractor facility) has to be under the control of the user. Areas beyond the range for potential interference are protected by the maximum power calculation described in f. below, and thus no further record notes are required for frequency assignments.

The repeaters will only be use on the premises of Meter Group, Inc. USA where we have full control of the device.

f. The equivalent isotropically radiated power (EIRP) must be such that the 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 calculation for maximum EIRP shall be based on free space propagation with no allowance for additional attenuation (e.g., building attenuation) as shown below.

The calculations are contained in a separate document called EIRP Calculations.

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

Users will be notified that GPS information may be impacted at a company meeting and via a posted notice.

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

The sole of the repeaters is to test RNSS equipment.

i. A "Stop Buzzer" point of contact for the authorized device must be identified and available at all times during GPS re-radiator operations.

Dustin Hill will be the "Stop Buzzer" point of contact and will be available at all times during the GPS re-radiator operations.