

Compliance with NTIA 8.3.28

Overview:

Hewlett Packard Enterprise is filing this application for use of a GPS re-radiation system at its facility at 2971 Hawthorne Drive, Conroe Texas 77302 to re-radiate GPS within the building to perform maintenance on company owned Gulfstream G600. The aircraft relies on GPS location to utilize onboard systems and operations.

General compliance with NTIA section 8.3.28 set forth below are Hewlett Packard Enterprise's responses to the requirements of 8.3.28 as those answers apply for this location. For any questions about this application, please contact Matthew Geczi,

Compliance with the Requirements of NTIA Manual Section 8.3.28

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

a. Hewlett Packard Enterprise confirms that there is only one device specified in this application and is only for indoor use inside the facility.

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.

a. Yes, Hewlett Packard Enterprise confirms that this application for frequency assignment is applied for as an XT station class and will be used as Experimental RNSS Test Equipment for the purpose of aircraft maintenance. Specifically, this device is used to re-radiate GPS within the building to verify signal acquisition of GPS on company owned Gulfstream G600 and perform GPS and Navigation operational checks as needed.

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

a. Hewlett Packard Enterprise accepts the fact that the requested frequency of 1575.42 Mhz will be published in the Government Master File (GMF) database.

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

a. Hewlett Packard Enterprise confirms understanding that the authorization will be for two (2) years, and it will seek renewals when required.

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

a. Hewlett Packard Enterprise is in sole control of the GPS re-radiator units inside the building 2971 Hawthorne Drive, Conroe, Texas 77302

6. The maximum equivalent isotopically 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.)

a. Answer: The re-radiators will be running at -141.10 dBm at 100 feet from the building, this does not include attenuation from the building itself. Free space loss includes the 100 feet outside of the nearest point of the building. The calculations showing compliance with this requirement are attached along with a diagram of the configuration.

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.

a. Hewlett Packard Enterprise will post notices that re-radiated GPS is in use and may cause disruption of GPS service.

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

a. Hewlett Packard Enterprise confirms that these units are for testing of it's aircraft GPS and Navigational related systems.

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.

a. To "Stop Buzzer" contact: Matthew Geczi, e-mail address, matthew.geczi@hpe.com or contact phone number (248)504-9558.