

Applicant: Learjet Inc.
File Number: 0127-EX-PL-2016
Reference Number: 31170

Response to NTIA Manual Section 8.3.28

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

The installed equipment and location coordinates of the installed unit are listed in Exhibit 1. A diagram of the hanger and the GPS re-radiate transmitter location inside of the hangar are detailed in [Exhibit 2 BDL Page 4](#).

- 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.

The Experimental RNSS Test Equipment will be used for the purpose of testing GPS receivers installed onboard aircraft.

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

N/A

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

Experimental Radio License application 0127-EX-PL-2016 request a license period of two years.

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

The area of potential interference does not extend beyond property under control of Learjet Inc. A satellite image showing the 100 ft. re-radiation perimeter and Learjet Inc. property boundaries is included with this response.

- f. 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.)

The Gli-Metro-G shall be configured via the front panel setting for an output level of -75 dBm into a 24 MHz bandwidth, which results in a signal level of -140.52 dBm/24 MHz at a distance of 100 feet from the building where the test is being conducted. Calculations are included in the attachment previously submitted as "[Exhibit 2 BDL](#)."

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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.

The satellite image included as part of this attachment shows the 100 ft. re-radiation perimeter overlaid on Learjet Inc. property. Only Learjet Inc. employees and authorized visitors are allowed access to this area.

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

The Experimental RNSS Test Equipment will be used for the purpose of testing RNSS systems installed onboard aircraft situated inside the hangar (Bldg. 85-173).

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

The Stop Buzzer POC is:

PRIMARY:

Douglas Elmlinger
Work Phone: 1-860-292-7308
Mobile: 1-518-728-182
E-Mail: doug.elmlinger@aero.bombardier.com

SECONDARY:

Jim Iwersen
Work Phone: 1-860-292-7181
Mobile: 1-860-724-6001
E-Mail: jim.iwersen@aero.bombardier.com

BDL - GPS Re-rad Location

Write a description for your map.

Legend

- BDL - 100' from nearest hangar wall
- BDL - 120' around GPS Re-rad transmitter
- Bradley International
- Closest off-property location (287')
- GPS Re-Radiator Location
- Learjet Inc. property boundaries

GPS Re-Radiator Location

