

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.

Harris Kayot Marine is applying for an experimental authorization to use GPS re-radiation for the purpose of testing NAVMAN GPS systems installed in our production boats. The installation will be for one antenna and two re-radiation devices. One for our fiberglass production facility and one for our aluminum production facility.

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.

Harris Kayot Marine has filed for a New Experimental Radio Station Authorization (form 442). The purpose of testing NAVMAN GPS systems installed in our production boats to verify the systems are working properly. Inclement weather and possible personal injury prohibit the testing of the product outside of the facility.

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

Harris Kayot Marine requests the assistance of the FCC and NTIA to ensure that this frequency assignment is entered into the government master file.

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

Harris Kayot Marine is requesting an authorization that will last 2 years with possible renewal.

5. The area of potential interference to GPS reception (e.g., military or contractor facility) has to be under the control of the user. **Our manufacturing facility has restricted access to employees only; the general public cannot just enter the plant. Harris Kayot Marine is willing to post signs inside the plant alerting employees that re-radiation is in use. The radiation system will only be in use for limited**

periods of time during the testing NAVMAN GPS systems installed in our production boats.

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).

Harris Kayot Marine is submitting those calculations as part of a link budget at the end of the exhibit, Further, we are submitting diagrams showing the installation and distances from the installation to the door to almost 100 feet outside of the building. Attachment A.

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.

As stated above Harris Kayot Marine is willing to post signs in the plant to notify employees that there is potential interference to GPS reception.

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

Harris Kayot Marine will only be testing NAVMAN GPS systems installed in our production boats to verify proper installation. This is not for operational use.

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.

The "Stop Buzzer" point of contact is Steve David of Harris Kayot Marine, Quality Control. Telephone # 260-399-4073.