

19-Dec-06

Question 7: Purpose of Experiment

- a) Per NTIA criteria provided via email originated by Karl Nebia, the station class should be "XT." The device (GPS re-radiator) is to be used as Experimental RNSS test equipment for the purpose of testing GPS receivers installed in aircraft while the aircraft are inside the Sacramento Citation Service Center (CSC) hangar.

Other attachments to this application show how this system complies with the criteria of section 8.3.28 of the NTIA Manual. Attachments to this application are:

- System diagram with parts list
 - Facility drawing with radiating antenna locations
 - Specifications for components
 - Power calculations
 - Stop buzzer Points of Contact
 - FAA Coordination Statement
- b) The specific objective we wish to accomplish is to ensure aircraft GPS navigation systems are functioning properly without having to relocate the aircraft outside of the hangar. Relocating an aircraft takes several people. Work on the aircraft cannot be performed while it is being moved. Often, other aircraft must be moved to clear a path to the hangar door. This can disrupt work on additional aircraft with associated delays and costs.
- c) This program will reduce time required to service aircraft, increase efficiency and contribute to ensuring the reliability of aircraft GPS navigation systems.

Very Respectfully,

Danny Hankins
Engineer-Sr-D
Cessna Aircraft Company