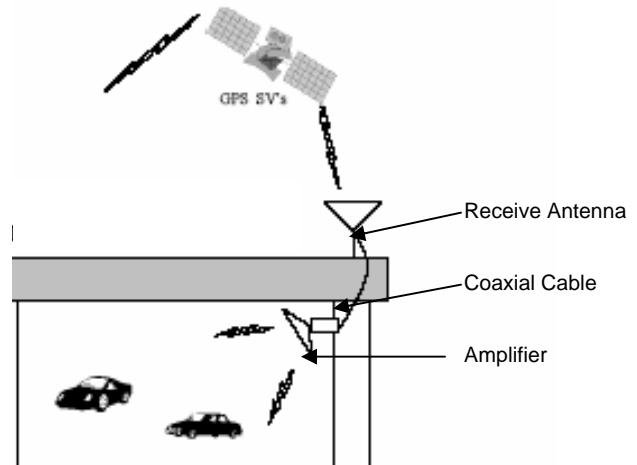


## Question 7 Narrative Statement

### Subpart A:

Hyundai Motor Manufacturing Alabama, LLC (“Hyundai Alabama”) requests use of a GPS re-radiation system to permit testing of GPS navigation systems inside its electrical repair facility. This facility is made of metal, which attenuates the already low power of GPS signals to a level below the useable threshold of its navigation systems.

The GPS re-radiation system that Hyundai Alabama proposes to use is not experimental, and is manufactured by a recognized leader in the GPS industry, GPS Source, Inc. The GPSRKL1 - L1 Repeater Kit (“GPS Repeater Kit”) Hyundai Alabama intends to use will receive GPS L1 signals via an active antenna mounted atop the roof of the building and pass the signals through coaxial cable. Once through the coaxial cable, the signals will be passed onto an amplifier that will re-radiate the GPS signals inside of the electrical repair facility. Further technical information regarding the repeater kit is attached as Exhibit 4 to this application.



*Courtesy of GPS Source, Inc.  
Drawing not to scale. Receive  
Antenna is approximately 1 ft in  
height.*

### Subpart B:

The GPS Repeater Kit permits Hyundai Alabama to verify proper installation and operation of onboard navigation systems for the 2009 Hyundai Sonata. Presently, without the system, Hyundai Alabama’s electrical engineers and technicians must leave the electrical repair area to test vehicle onboard navigation systems. In many cases, multiple vehicle systems are being serviced or installed concurrently. If Hyundai Alabama were permitted to operate the system, its electrical engineers and technicians involved in vehicle testing could work more efficiently. Moreover, a wired repeater system would not be a feasible alternative solution in this case. Without a spectrum-based vehicle solution, electrical engineers and technicians could not troubleshoot vehicle antennas indoors.

### Subpart C:

Other vehicle manufacturers are using in-building repeaters to streamline navigation diagnosis and repair times. Hyundai Alabama seeks to realize these cost efficiencies and permit its electrical engineers and technicians to test onboard navigation systems inside its electrical repair facility.

**Exhibit 1: Hyundai Motor Manufacturing Alabama, LLC**  
**FCC Form 442**  
**File No.: 0404-EX-PL-2007**

## **Question 12**

Hyundai Alabama is a Limited Liability Company. For further information regarding Hyundai Alabama, please visit its company website at <http://www.hmmausa.com/>.