

Statement Required by Question #7

The present application seeks a license to use a GNSS repeater system for the purpose of enabling indoor testing and development of GNSS-enabled equipment and systems for use in the agriculture industry. The proposed repeater system includes a passive external antenna/repeater (Antcom part no. G5Ant-3AT1) for receiving GNSS signals and delivering the received signals to a splitter/amplifier (GPS Source part no. S14). The splitter/amplifier amplifies the GNSS signals and communicates the signals to multiple passive internal repeaters (Antcom part no. Q5Ant-3PT1).

The proposed GNSS repeater system will be used to support research and development related to GNSS-enabled telemetry and guidance systems configured for use with agricultural machinery. Such telemetry systems broadly include data collection devices (e.g., sensors) and GNSS receivers associated with a machine, as well as communications devices for communicating sensed data and location information derived from the GNSS receivers to remote computer systems. The remote computer systems analyze the sensed data and the location information and generate location-based status and performance information for the machine.

The guidance systems broadly include GNSS receivers and computing devices configured to use location information derived from the GNSS receivers to locate the machine on a map, chart a course, follow a charted course, and to enable automated location-based functions including automatic steering and rate and section control (e.g., on sprayer and seeder machines).