

Collision Control Pre-emptor System Test/Demonstration

The purpose of this experimental license application is to provide a proof of concept demonstration, and product test/evaluation for an Emergency Vehicle Traffic Signal Preemptor technology/system.

The test system shall consist of 4-each Emergency Vehicle mounted mobile units (AKA Mobile Pre-emptor units), 1-each Stationary Manual Pre-emptor unit, and 4-each Stationary NEMA TS-2 compatible Traffic Signal Pre-emptor units.

The Mobile Pre-emptor units shall periodically transmit a short digital clear-text message containing the Pre-emptor Serial Number, Pre-emptor type, and Direction-of-travel. The Stationary Manual Pre-emptor transmits a similar message with a fixed "Direction-of-travel" when manually activated.

The stationary NEMA TS-2 compatible Traffic Signal Preemptor units, respond to received pre-emption messages with a message containing the serial numbers of all pre-emption messages received within the last 1-2 minutes and the current status traffic signal pre-emption status.

This system test and test license is intended to provide two objectives.

The first objective is to validate the systems design, provide engineering test information on the hardware and software design, and assist in the systems hardware and software development and debugging.

The second objective is to demonstrate the basic pre-emptor technology and implementation to prospective clients, buyers and possible end users.