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June 7th, 2017

Timco Engineering, Inc.
849 NW State Road 45
P.O. Box 370
Newberry, Florida 32669

Request for Limited Modular Approval

FCC ID: OZFSC5420B

Host Name: Street Light Controller
Host Model No: SC-5421

To Whom It May Concern:

It is desired to obtain limited modular approval for the Part 15 device FCC ID: OZFSC5420B.

This device does not have shielding around the front end section and for test convenience reasons the device was not tested in a stand-alone configuration but rather in the third party host device for which it was designed. The device was however tested in the third party enclosure under worst case operating conditions (from an EMI perspective) with the third party Power Line Carrier (PLC) circuitry operational. The third party integrator desires to deliver the final product with 2 options; a) with PLC enabled and b) with the PLC circuitry removed.

This product was only designed for one single third party integrator and it will be professionally installed. Once the device has been inserted into the host device it will be permanently sealed.

This device is not a software defined radio, but it does have the ability to transmit using 3 different modulation rates (all of which have been tested by the regulatory compliance company). The end customer chooses at which modulation rate the device will operate.

For this reason the application is for a limited modular approval. In accordance with Part 15.212 the device meets all of the remaining modular requirements:-

The Antenna must be permanently attached.

The antenna is a surface mount antenna and permanently attached to the PCB. It is not possible to attach another antenna to this configuration.

The transmitter must have buffered modulation/data inputs.

The transceiver has an internal data management unit inside that samples the data line and prevents over modulation. The end user cannot change the data rate, the transceiver has an internal state machine that cannot be changed by the end user.

The transmitter must have its own power supply regulation.

The unit incorporates its own DC to DC converter followed by line regulation devices with filtering. Changes to the applied DC input will have no effect on the operating conditions of the transmitter.

The transmitter must be equipped with a permanently attached label.

Complies; Refer to the label exhibits submitted with this application.

The transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.

The module is compliant with all applicable FCC rules. Please refer to the user manual for a detailed description of field deployment instructions that must be adhered to.

The transmitter must comply with any applicable RF exposure requirements.

The unit meets RF exposure requirements as outlined in the RF exposure document attached to this exhibit.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Fairburn', with a horizontal line extending to the right.

Mark Fairburn
RF Design Engineer
Tantalus Systems Corp.