



Tantalus Systems Corp.
200-3555 Gilmore Way, Burnaby, BC Canada, V5G 0B3
Tel. 604.299.0458 · Fax 604.451.4111
www.tantalus.com

July 26th, 2021

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

Request for Limited Modular Approval

FCC ID: OZFDC1320

Host Name: Polyphase Electricity Meter
Host Model Line: Centron

To Whom It May Concern:

It is desired to obtain limited modular approval for the Part 15 device FCC ID: OZFDC1320

The device will be integrated into a Centron polyphase electricity meter that can have different meter forms and different meter classes. The AC conducted emissions and unintentional radiated emissions were tested on 5 different units that would be representative of the Centron series product line from Itron.

The meter communication module does not have shielding around the front end section, but it was tested outside of the host meter to ensure that the radiated emissions are the most representative and worst case.

Once the device has been professionally installed and connected to the load devices, for which it will control, 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 these reasons 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 connection from the RF front end and the antenna is permanently attached to the PCB of the communication module. 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 module must demonstrate compliance in a stand-alone configuration

The device was tested in a stand-alone configuration for intentional radiated emissions to ensure worst case emissions are present. AC conducted emissions and unintentional emissions were tested with the communication module integrated into 5 different hosts that are representative of the entire polyphaser electricity meter product line.

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
Sr. RF Design Engineer
Tantalus Systems Corp.