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Federal Communications Commission
P.O. Box 429
Columbia, MD 21045

Date: February 3, 2016

RE: Application for Limited Modular Approval Certification for the M2 GATEWAY2 module

Dear Sir or Madam:

The following information addresses the requirements to support a limited modular approval as required by FCC Part 15.212, Modular Transmitters.

Dear Sir or Madam:

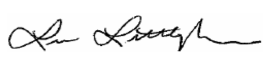
The following information addresses the requirements to support a limited modular approval as required by FCC Part 15.212, Modular Transmitters.

1. The direct sequence spread spectrum transmitter section is only partially shielded. The DSSS front end section has been shielded but the RF ASIC does not have a shield. Testing has been performed to assure compliance. The frequency hopping spread spectrum transmitter section has been shielded.
2. The M2 GATEWAY2 does not have external modulation or data inputs. The RF section is driven by an on board MCU which controls RF data lines and does not allow excessive modulation.
3. The modular transmitter has its own power regulation. The module will be integrated into a meter host which also offers power regulation.
4. The direct sequence and frequency hopping transmitters have antennas that are permanently imbedded into the module circuit board.
5. The M2 GATEWAY2 module was tested within a host meter. This module will always be integrated internal to a meter host.
6. The M2 GATEWAY2 register module will be labeled as required. The meter host will also have the required labeling.
7. Operating requirements are included in the host technical manual.
8. MPE measurements are provided to demonstrate RF compliance. There is a cautionary statement that is included in the technical manual stipulating the 20 cm separation distance.

All meter forms which act as hosts to the M2 GATEWAY2 module will be tested with the M2 GATEWAY2 module for compliance and documented during certification or through the permissive change process.

Sincerely,

Name: Lee Littlejohn
Title: Regulatory Engineer

Signature: 
Date: February 3, 2016



Electric / Gas / Water
Information collection, analysis and application

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