

To: File
From: James L. Stortz
Subject: Comms Host, FCC ID: R7PNG0R1S6 Limited Modular Approval Request
2020

January 28,

Scope

47CFR 15.212 communicates requirements for products requesting modular approval. In particular, eight requirements are enumerated along with a request that each of the eight be explained for any product requesting such approval. It is the purpose of this document to respond to those eight requirements in regard to the Landis+Gyr product: Comms Host.

Modular Approval Requirements

1.1 RF Shielding

The Comms Host module is self-shielding and is not dependent on any component or characteristic of the device into which it is embedded. Shielding is accomplished through a combination of metallic self-shielding components, copper planes, guards, and vias in the PCB. The result is a design that has been proven to be neither sensitive to outside influence nor capable of introducing interference into outside components.

1.2 Buffered Modulation / Data Inputs

The Comms Host module does not have external modulation or data inputs. Rather, the RF sections are driven by an on-board microprocessor which directly controls the RF data lines and operates so as to not allow excessive modulation.

1.3 Power Supply Regulation

The Comms Host module uses a linear, low-dropout regulator to provide all the electronics with a supply that is fixed, even when the input voltage is varied.

1.4 Antenna Requirement

The Comms Host module utilizes a 0dBi Inverted-F antenna.

1.5 Stand-Alone Testing

All testing on the Comms Host module was conducted standalone. No shields or enclosures were used, other than those fully integrated into the modules themselves. No ferrites were used on data or power lines during testing. These devices are DC powered and exceed applicable conducted emission requirements.

1.6 Labeling

As indicated, each Comms Host module will have its own FCC ID label. In addition, devices into which they are placed will have labels indicating that this module is contained within. Exact text will be as specified in 47CFR 15.212.

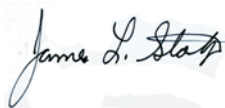
1.7 Specific Rules and Operating Requirements

The Comms Host module complies with all pertinent rules for its section.

1.8 RF Exposure Requirements

The Comms Host module complies with all exposure requirements. As a component used in the Utility industry, this product is not intended for use near human operators.

Sincerely,
James L. Stortz



Title: Director of Hardware Engineering