

To: File
From: Timothy R. Walters
Subject: GE kV2c Utilinet Endpoint (25-1054) Modular Approval Request 10/27/06

1 Scope

FCC Public Notice **DA 00-1407** released June 26, 2000 communicated guidelines for products requesting modular approval. In particular, 8 requirements were enumerated along with a request that each of the 8 be explained for any product requesting such approval.

It is the purpose of this document to respond to those 8 guidelines in regard to the Cellnet product: 25-1054.

2 Modular Approval Requirements

2.1 RF Shielding

The GE kV2c Utilinet Endpoint radio 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.

2.2 Buffered Modulation / Data Inputs

The GE kV2c Utilinet Endpoint does not have external modulation or data inputs. Rather, the RF section is driven by an on-board microprocessor which directly controls the RF data lines and operates so as to not allow excessive modulation.

2.3 Power Supply Regulation

The GE kV2c Utilinet Endpoint uses a switching buck regulator to provide all the electronics with a supply that is fixed, even when the input voltage is varied.

2.4 Antenna Requirement

The GE kV2c Utilinet Endpoint includes a detachable flex dipole antenna with 1dBi gain. The antenna connector is MCX which is considered unique and complies with the antenna requirements of Section 15.203.

2.5 Stand-Alone Testing

All testing on the GE kV2c Utilinet Endpoint module was conducted stand-alone. No shields or enclosures were used, other than that fully integrated to the module itself. No ferrites were used on data or power lines during testing. The device is DC powered, and exceeds applicable conducted emission requirements.

2.6 Labeling

As indicated, each module will have its own FCC ID label. In addition, devices into which it is placed will have a sticker indicating that this module is contained within. Exact text will be as specified in the FCC Public Notice.

2.7 Specific Rules and Operating Requirements

The GE kV2c Utilinet Endpoint complies with all the pertinent rules for its section. Other than its reduced power level, it shares common code and is functionally equivalent to the 26-1055 product which is FCC certified as R7PIWRS3.

2.8 RF Exposure Requirements

The GE kV2c Utilinet Endpoint complies with all exposure requirements. As a component used in the Utility industry, this product is not intended for use near human operators. It is a reduced-power version of products that reside in the same locations and have already been approved for use.