



GE Renewable Energy

GE MDS LLC

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Dear Application Examiner:

GE MDS is seeking limited modular approval for radio model SDM9-1, FCC ID E5MDS-SDM9-1. The radio meets the requirements for modular approval as detailed in FCC 15.212.

Limited Modular Approval is requested as the equipment is intended for professional installation only. Please see the Professional Installation exhibit.

Compliance to each of the requirements is described below:

1. "The modular transmitter must have its own RF shielding." The radio portion of the module is contained in its own RF shielding. The shielding is installed at the factory. Please see the Internal Photos exhibit.
2. "The modular transmitter must have buffered modulation/data inputs." The EUT has buffered data inputs to ensure compliance with Part 15 requirements under conditions of excessive data rates or over-modulation. Please see the Schematics exhibit.
3. "The modular transmitter must have its own power supply regulation." The EUT has its own power supply regulation to ensure compliance with Part 15 requirements regardless of the quality or level of external DC supplying the module from the host unit. Please see Schematics exhibit. Also, the technical report exhibit contains AC power line conducted emissions data taken with the EUT powered from a linear power supply that contains no EMC suppression components.
4. "The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c)." The EUT is intended for professional installation. The professional installer is responsible for ensuring that the proper antenna is employed, and that the maximum antenna gain used is 9.15dBi to ensure compliance with RF exposure distance limits as listed in the User Manual. The professional installer is required to select the appropriate antenna to adhere to the Licensee's ERP restrictions.
5. "The modular transmitter must be tested in a stand-alone configuration." The EUT was tested in a stand-alone configuration. The module was greater than 10 cm from the host device. Please see test setup photos exhibit and technical report exhibit.
6. "The modular transmitter must be labeled with its own FCC ID number." The EUT is labeled with its own FCC ID number. Please see FCC ID label & location exhibit. If the FCC ID number will not be visible when the module is installed inside a host device, another label with the FCC ID will be applied to the exterior of the host device.

7. "The modular 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 EUT is compliant with all applicable FCC rules. Please refer to the module integration instructions exhibit for details on maintaining compliance.
8. "The modular transmitter must comply with any applicable RF exposure requirements." The EUT is compliant with all applicable RF exposure requirements. Please see RF Exposure Exhibit.

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Best regards,

A handwritten signature in black ink, appearing to read "Jonathan Vilagy".

Jon Vilagy
Senior Technical Regulations and Standards Engineer
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