

June 20th, 2020

Cattron North America Inc.
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Reference:

Applicant: Cattron North America Inc.
Equipment: 450/2400MHz Transceiver Device
Model p/n: 90273 TRX
FCC ID: CN290273
IC: 1007A-90273

With regard to the FCC Part 15 and ISED RSS-210 requirements for modular approval, Cattron North America Inc. would make the following observations with regard to the numbered requirements for the RF module: 90273 TRX (FCC ID: CN290273, IC:1007A-90273) as a limited single-module.

- I. The radio elements must have the radio frequency circuitry shielded. -Complies, the module has top shielding cover.
- II. The module must have buffered modulation/data inputs. -The equipment into which this module is installed is exclusively designed and manufactured by and for Cattron North America Inc, the equipment is of our own design and the data is carefully controlled to maintain FCC compliance.
- III. The module must contain power supply regulation on the module. -The equipment into which this module is installed is exclusively designed and manufactured by and for Cattron North America Inc. and all have their own regulated and monitored 3.3V supply voltage, excursions of more than +/-10% result in equipment shut down.
- IV. The module must contain a permanently-attached antenna, or contain a unique antenna connector, and be marketed or operated only with specific antenna(s)-The antenna requirements are met by having third party tested the integral and variants of external antennas as part of the FCC submission.
- V. The module must demonstrate compliance in a stand-alone configuration. -
The modular transmitter compliance can be demonstrated only in the defined stand-alone configuration in which the transmitter will be used.
- VI. The module must be labeled with its permanently fixed FCC ID label, or use an electronic display. -
The Labeling requirements of the modular approvals will be followed, as previously stated the module is only incorporated into Cattron North America Inc. equipment, the label will be installed on the outside of the equipment into which it is incorporated.
- VII. Operating parameters are controlled within system requirements specifications, these define the specific voltage tolerance, data rate, deviation and Duty Cycle. Further with regard to Duty Cycle, this is limited to no more than 50%
- VIII. RF exposure limits are maintained by, a) Limiting power to 0.073W and Duty Cycle to 25% at 450MHz; 0.030W at 2400MHz; b) Posting warnings in the operations manual to warn of the possible harmful effects of human exposure to radiation.

Sincerely,



David Stagg
Product Manager