



Federal Communications Commission Equipment
Authorization Division, Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21048

Subject: Request for Class 2 Permissive Change (C2PC)

Equipment / FCC ID: **RFID Board Version 1.4, FCC-ID: Y5X53339474278, limited single modular, initial approval 04/20/2011;**

Applicant: **Electric Transportation Engineering Corporation (ETEC) d.b.a. ECOTality North America**

Pursuant to CFR47 §2.1043, **ECOtality** requests approval of a class 2 permissive change (C2PC) for the equipment identified above for the following reasons:

- co-location with
 - HSUPA mini PCI-E Modem of ZTE Corporation, IC: 5200A-ZTEMF212, Single Modular;
 - WiFi module of Unigen Corporation, IC: 5125A-UGWDS82,
- within the following host product: **Electric Vehicle Charging Station**.
- Replaced the NXP MFRC530 RFID reader/writer IC, which supports only ISO 14443 Type A, with an alternate NXP MFRC531 RFID reader/writer IC, which supports ISO 14443 Types A and B*;

*Note: Even though the NXP MFRC531 RFID reader/writer IC supports ISO 14443 Types A and B, only Type A functionality has been implemented in the device's firmware. The RFID Board Version 1.4 only supports ISO 14443 Type A functionality. For Type A functionality, the RF portion of the alternate NXP MFRC531 RFID reader/writer is identical to the NXP MFRC530 RFID reader/writer so that comparable RF performance can be expected.

- Replaced the 8-bit Microchip PIC18F4520 microcontroller with an alternate pin-compatible 8-bit Microchip PIC18LF4520 microcontroller, which supports a wider input voltage range;
- Moved the power/data connector from the front of the board to the back of the board;

It has been verified through appropriate and documented re-assessment at the lab of CETECOM Inc., Milpitas, California that the minimum requirements of the relevant FCC rule parts are not violated by the described changes.

The functional capabilities of our equipment remain unchanged.

No other than the above explained modifications to the radio circuitry have been made.

Based on above and on re-assessment evidence provided with this application we confirm that the equipment still qualifies for certification.

This C2PC application is further supported by updated exhibits where relevant.



Sincerely,

A handwritten signature in black ink that appears to read "Joshua Winkler".

Joshua Winkler
Engineering Project Manager
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