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To: Michael Uppenkamp, OnRamp Operations Dept.
From: Jeff Goos, OnRamp RF Principal Engineer.
Date: 5/19/2011.
RE: Changes to the AP and eNode products as they effect product certification.

This is an official letter to inform you of the changes that have been made to the AP product (model: ULPAP110) and eNode product (model: ULPENODE110) as they affect compliance testing. This letter is required by FCC and IC to support the Class II Permissive changes.

XTE-ULPAP110
8655A-ULPAP110
AP (model: ULPAP110)
The pertinent changes made to this product are:

- Changed the RF output switch from the CEL/NEC UPG2009TB-A to the CEL/NEC UPG2155TB-A. This is a drop-in replacement switch that has very similar specifications, except that it can handle about 3dB higher RF power. This makes it a "better than" substitution.
- Changed the Power Over Ethernet (POE) transient suppressors to higher power handling versions. During normal operation these suppressors have no effect. They kick in when the nominal 48VDC rises above 75V. This part replacement is not a drop-in, changes to the PCB were required.

XTE-ULPENODE110
8655A-ULPENODE110
eNode (model: ULPENODE110)
The pertinent changes made to this product are:

- Changed the U806 clock reference buffer from a 74LVC1G04 to a 74AUG1G04 to improve clock symmetry and duty cycle. This generally has no direct effect on the RF characteristics since this reference clock is low pass filtered before going to the radio.

Jeff Goos
OnRamp Principal RF Engineer

Received
On the basis of the above changes, On-Ramp Wireless hereby requests a Class II Permissive Change and RSS Reassessment.

By:
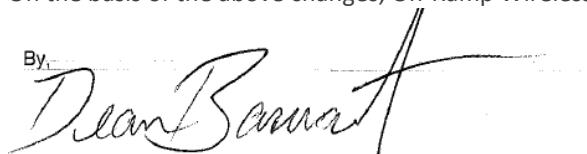
Dean Barnat
VP of Operations
On-Ramp Wireless, Inc.