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Suite 5
Frederick, MD 21703

Subject: Cover Letter for Class II Permissive Change
FCC ID: 2BK18-201A
Applicant: United Mesh Solutions, LLC

To Whom It May Concern,

This letter is submitted to request authorization for a Class II Permissive Change to the device bearing FCC ID: 2BK18-201A, originally certified under Part 15.247. The modification consists solely of replacing the existing antenna with a patch antenna from Molex, Part Number 2124980150.

The new antenna type, gain, and characteristics are documented in the updated test report accompanying this application. The device remains electrically and functionally identical to the originally certified configuration, except for the antenna change. No modifications have been made to the radio circuitry, RF power settings, or mechanical layout other than accommodating the new antenna form factor.

The UMS GPS Tag device continues to operate under the same conditions described in the original filing. It transmits GPS signals and collects environmental data (temperature, humidity, and acceleration), which are transmitted using a proprietary IEEE 802.15.4 mesh protocol. The implementation of the Molex patch antenna does not alter the fundamental design, operating frequency bands, modulation scheme, or output power of the transmitter.

Test results provided with this filing confirm continued compliance with all applicable requirements under FCC Part 15.247.

Sincerely,
David G. Evans
Chief Technology Officer
United Mesh Solutions
Telephone: 703-568-7612