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FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
USA

**Subject: FCC Certification Authorization Application for Class II
Permissive Change Under FCC PART 15, Subpart C, Section 15.247 -
Frequency Hopping Spread Spectrum Transmitters Operating in the
Frequency Band 902.5 - 927.5035 MHz.**

**Product: INET
Model No.: INET900
FCC ID: E5MDS-NH900**

Dear Sir/Madam

As appointed agent for Microwave Data Systems Inc., we would like to submit the application to the Federal Communications Commission for certification of the above product. Please review all necessary files uploaded to FCC OET website for detailed information.

This Class II Permissive Change Pertains to:

(a) Changes to the iNET:

1. Relocated the reference clock oscillator in the digital section
2. Re-layed out the power supply circuit and replaced some easily damaged components
3. Re-layed out the power amplifier circuit for increased stability
4. Increased the fine power control of the RF power amplifier by 1.5x
5. Increased the RX baseband filter bandwidth 10% (non RF related)
6. Added a filter circuit to the RSSI to increase accuracy
7. Changed the power detector circuitry from a single chip to a coupler and a chip for enhanced ESD performance
8. Improved the VCO bias circuit to minimize change over temperature
9. Changed the LED ribbon connector to a more compact connector
10. Added a series diode for reverse polarity protection of the main power supply
11. Added an ethernet link detect line

(b) Addition of New Antenna:

Manufacturer: MDS/MAXRAD
Type: Yagi
P/N: BMOY8903
Frequency Range: 890 – 960 MHz
In/Out Impedance: 50 Ohms
Gain: 8.15 dBi

This device required professional installation; installers and end-users will be provided with the appropriate information for satisfying RF exposure requirements.

If you have any queries, please do not hesitate to contact us.

Yours truly,

Tri Minh Luu, P. Eng.,
V.P., Engineering

Encl