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December 7, 2018

National Technical Systems – Silicon Valley TCB
41039 Boyce Road
Fremont, CA. 94538

RE: Class II Permissive Change for E5MDS-LN400

The enclosed documents constitute a formal submittal and application for a Class II Permissive change for a transceiver pursuant to the following rules:

- Part 90 of FCC Rules

The original FCC grant for E5MDS-LN400 had an upper frequency of 470MHz. This C2PC request is to extend the frequency range to 512MHz. The original grant has 13.183 Watts for FSK and QAM modems. This C2PC request is for powers of 6.31 Watts for the FSK modems (emission designators F1D, F2D and F3D) in the added 470-512 MHz band and 13.183 W for the QAM modems (emission designator D1D).

The LN400 transceiver employs a digital modulation and synthesizer tuning architecture that enables the manufacturer to add new frequency ranges via a controlled software change. The changes specific to frequency control are localized in the integrated synthesizer IC. Only passive tuning components were changed to LPF and BPF to the Transmit chain.

National Technical Systems – Silicon Valley, as duly authorized agent prepared this submittal. A copy of the letter of our appointment as agent is included with the application.

If there are any questions or if further information is needed, please contact National Technical Systems – Silicon Valley for assistance.

Sincerely,

A handwritten signature in black ink that reads "David W. Bare". The signature is written in a cursive, flowing style.

David W. Bare
Chief Engineer

DWB/dmg