

CalAmp Wireless Networks Corporation
Waseca, MN U.S.A.

ENGINEERING STATEMENT
OF Dale E Jordan

The application consisting of the attached engineering test report and associated FCC form 731 has been prepared in support of a request for a Class II Permissive Change for NP4-5018-500.

The certification NP4-5018-500 has been granted to CalAmp Wireless Networks Corporation for its Viper VHF radio modem. CalAmp Wireless Networks Corporation does the final assembly and markets the Viper VHF unit. The NP4-5018-500 certificate has been granted for several bit rates at 2, 4-level FSK type of modulation scheme with a total of 6 emission designators. The change intends to add an 8 and 16-FSK modulation scheme with 10 new bit rates (3K20F1D, 3K45F1D, 8K50F1D, 8K08F1D, 17K8F1D, 17K0F1D). This change involves the firmware only, with no change whatsoever occurring in the hardware of the Viper VHF transceiver.

EXISTING CONDITIONS

The unit utilized for these occupied bandwidth and mask-compliance measurements was a Pilot unit built from production NP4-5018-500 with variant modulation source (prototype board and firmware) used to create the modulation scheme. The transceiver operates on frequencies ranging from 136.000 MHz to 174.000 MHz. The frequency tolerance of the transceiver is 1.0 parts per million as granted in NP4-5018-500.

PROPOSED CONDITIONS

It is proposed to accept the request for the Viper VHF Transceiver/Modem for operation in the band of frequencies previously outlined. The applicant anticipates marketing the device for use in wireless transmission of data.

PERFORMANCE MEASUREMENTS

All measurements for Occupied Bandwidth and mask compliance as per 2.1043 (b)(2) were conducted in accordance with the Rules and Regulations Section 2.1041 and 2.1049 of Title 47 of the Code of Federal Regulations. Equipment performance measurements were made in the engineering laboratory located at 299 Johnson Ave Suite 110, Waseca, MN 56093 USA. All measurements were made and recorded by myself or under my direction. The performance measurements were made between May 10, 2010 and May 17, 2010.

CONCLUSION

Given the results of the measurements contained herein, the applicant requests to be applied a Class II Permissive Change for the Certificate NP4-5018-500 to add the emission designators of 3K20F1D, 3K45F1D, 8K50F1D, 8K08F1D, 17K8F1D and 17K0F1D to the existent list.



5/17/10

Dale E Jordan
R&D Test Engineer, CalAmp Wireless Networks Corporation.