

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 and IC application form has been prepared in support of a request for a Class II Permissive Change for FCC: NP4-5016-500 and IC: 773B-5016500.

The certification NP4-5016-500 and 773B-5016500 has been granted to CalAmp Wireless Networks Corporation for its Guardian VHF radio modem. CalAmp Wireless Networks Corporation does the final assembly and markets the Guardian VHF unit. The NP4-5016-500 and 773B-5016500 certificate has been granted for several bit rates at 2-level FSK type of modulation scheme with a total of 5 emission designators. The change intends to add two emission designators for use with audio modulation (10K2F3D, and 10K2F3E.) This change involves the software only, with no change whatsoever occurring in the hardware of the Guardian VHF transceiver.

EXISTING CONDITIONS

The unit utilized for these occupied bandwidth and mask-compliance measurements was a Pilot unit built from production NP4-5016-500 and 773B-5016500 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 NP4-5016-500.

PROPOSED CONDITIONS

It is proposed to accept the request for the Guardian 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 and audio.

PERFORMANCE MEASUREMENTS

All measurements for Occupied Bandwidth and mask compliance as per 2.1043 (b)(2) and RSP-100 were conducted in accordance with the Rules and Regulations Section 2.1041 and 2.1049 of Title 47 of the Code of Federal Regulations and RSS-Gen 4.6.1 and RSS-119 4.2.1. 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 July 20, 2010 and July 22, 2010.

CONCLUSION

Given the results of the measurements contained herein, the applicant requests to be applied a Class II Permissive Change for the Certificate NP4-5016-500/773B-5016500 to add the emission designators of 10K20F3D and 10K20F3E to the existent list.



7/25/11

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