

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: NP4-5096-500 and IC: 773B-5096500.

The certification NP4-5096-500 and 773B-5096500 has been granted to CalAmp Wireless Networks Corporation for its Guardian 900 radio modem. CalAmp Wireless Networks Corporation does the final assembly and markets the Guardian 900 unit. The NP4-5096-500 and 773B-5096500 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 four emission designators for use with audio modulation (10K2F3D, 10K2F3E, 15K3F3D, 15K3F3E.) This change involves the software only, with no change whatsoever occurring in the hardware of the Guardian UHF transceiver.

EXISTING CONDITIONS

The unit utilized for these occupied bandwidth and mask-compliance measurements was a Pilot unit built from production NP4-5096-500 and 773B-5096500 with variant modulation source (prototype firmware) used to create the modulation scheme. The transceiver operates on frequencies ranging from 928.000 MHz to 960.000 MHz. The frequency tolerance of the transceiver is 1 part per million as granted in NP4-5096-500.

PROPOSED CONDITIONS

It is proposed to accept the request for the Guardian 900 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 October 1, 2011 and October 10, 2011.

CONCLUSION

Given the results of the measurements contained herein, the applicant requests to be applied a Class II Permissive Change for the Certificate NP4-5096-500/773B-5096500 to add the emission designators of 10K2F3D, 10K2F3E, 15K3F3D and 15K3F3E to the existent list.



10/10/11

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