

25 May 2016



Additional Information Regarding CP Communications' STA Request

Short Notice for Application Filing and Request for Expedited Approval

Due to developments within the past 48 hours regarding the availability of the required location, production/performance schedules and the availability of key participants, the date for testing, and for which the STA is requested, was determined late in the day on Tuesday 24 May, 2016. In order for the project currently in development, for which this testing is crucial, to move forward in a timely manner, Wednesday the 1st of June is now the only date available that accommodates the circumstances and all parties involved. A postponement of the testing will result in a several month delay in this development project. Since by all accounts the forward auction could be completed, the Channel Reassignment Public Notice published and the 39 month transition period commencing as early as next summer 2017, time, like available RF spectrum, is in short supply.

CP Communications, itself and on behalf of its client, would greatly appreciate an expedited grant of the application.

Purpose of Testing

These tests are to determine the RF propagation characteristics of a potential future proprietary wireless microphone product, specifically the RF levels propagating from the transmitter location inside the venue to the outdoors under both typical deployment practices and worst case (the greatest amount of RF energy measured outdoors) scenarios.

GN Docket 14-166, *Promoting Spectrum Access for Wireless Microphone Operations* and the subsequent Notice of Proposed Rulemaking FCC 14-145 adopted September 30, 2014, proposed making the 1435-1525 MHz band (1.4 GHz band) spectrum available for use by wireless microphones on a secondary licensed basis under the coordination of the FCC designator of this band, the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).¹ This proposal is mostly supported by the primary stakeholders; AFTRCC, the wireless microphone manufacturers and a significant upper tier user base.

¹ See Paragraph 175, FCC NPRM 14-145



Whereas the actual technical rules governing transmission characteristics, frequency coordination and coordinator verification/control are yet to be established and approved, AFTRCC, CP Communications and the developer of the potential 1.4GHz wireless microphone, have a need to understand the levels of RF energy that would be present outside the venue should 1.4GHz band wireless microphone equipment be deployed within the confines of the performance area inside the venue. This will provide the beginnings of understanding of how such wireless microphone operations might potentially affect aeronautical mobile telemetry (AMT) operations, whether by Federal or private industry users, and is a crucial element in the development of the future proprietary wireless microphone product.

Transmitter

Transmitter is a prototype utilizing a proprietary digital modulation scheme. It was designed, built and tested to meet current requirements of FCC Part 74H, §74.861(d)(4)(ii) “*Beyond one megahertz below and above the carrier frequency, emissions shall be attenuated 90 dB below the level of the unmodulated carrier*” excepted. Transmitter will be tested at frequencies at least 1MHz below the upper channel edge of the band (1525MHz).

AFTRCC Coordination Approval

On 25 May 2016, AFTRCC provided approval for the one day test on 1 June 2016.

From: wayne.morris@L-3com.com
Sent: Wednesday, May 25, 2016 9:11 AM
To: 'Henry Cohen' <Henry.Cohen@cpcomms.com>; Bill Hurlock <Bill.Hurlock@cpcomms.com>
Subject: RE: Coordination Request: 1.4GHz Propagation Testing at RCMH

There is nothing going on that day (coordinated) within a 10 mile radius. I have no issues with CP and RCMH conducting a 1 day test as we have previously discussed in recent telecons. Please consider this email your 1 day authorization.

V/R

Wayne Morris
AFTRCC Telemetry Coordinator

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