

From: Jeff Jackson

To: Doug Young

Date: October 05, 2015

Subject: Request for Info - File #0412-EX-PL-2015

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Message:

This is a reply to the request for more information from the NTIA regarding our experimental license application in the 225 MHz to 300 MHz band, and will hopefully clarify our needs.

The goal of our work is to acquire detailed measurements related to electromagnetic wave propagation in forested environments to support the development of advanced communication systems operating under these conditions. There are both limiting and enabling characteristics of forested environments that we are exploring. Of particular interest is the delay spread encountered by signals operating in the requested band as relevant to inter-symbol interference, and the effectiveness of frequency and spatially diverse communication implementations. Access to a wide instantaneous and contiguous bandwidth, up to 50MHz but at least 25MHz, is required to support an accurate assessment of time delay spread and, through analysis, the channel's coherence bandwidth. The contiguous band could reside anywhere within the 225-300MHz spectral band.

The data collected is in support of government research and will be provided to a community of researchers and developers in this field.