

From: Katabi Dina

To: Nimesh Sangani

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Subject: Additional Information Request

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Message:

The device covered by this experimental license was initially designed at MIT to be in compliance with FCC regulations governing indoor ultra-wideband (UWB) systems (Part 15.517). MIT currently operates the device under an experimental license, callsign WH2XWL. They have successfully used the device over the last couple of years without issue. Emerald Innovations plans to continue to use the same device in its deployments, and requires a similar experimental license to do so.

The application request is for 250 devices nationwide, not 250 devices in each location. Each device will be deployed into an indoor environment such as a home. Barriers such as walls, floors, ceilings, furniture and more limit the range of the signal to a confined area minimizing interference with other technologies. Typically, only a single device is deployed in a particular indoor environment, with some large homes having two devices. The goal of this license is to enable deployments in multiple homes across the country, as such, at some point, all 250 devices may be operating at various locations across the country.

Regarding the specific EIRP power calculations, a document, Description of Power Emissions, has been uploaded detailing peak and average power.