

From: Kevin Grauberger

To: Leann Nguyen

Date: June 27, 2016

Subject: Request for Info - File # 0958-EX-ST-2016

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Message:

I am following up on a request for more information on the application I submitted this morning. I apologize the information was incomplete.

Please clarify what information you would like regarding the emission designator bandwidth. I know our XBee devices will operate between 902 and 928 MHz, but I am unclear what you mean by emission designator.

I (Kevin Grauberger) can serve as the point of contact if interference occurs.

Regarding our proposed testing operation: We plan to use Arduinos to control temperature, humidity, and carbon dioxide sensors. We will attach a XBee board to each Arduino. The Arduinos will take the information from the sensors and transmit the data through the XBee boards to a XBee board attached to a Raspberry Pi micro computer. Using about twenty Arduino/XBee sensors placed at various locations in a greenhouse we aim to track the greenhouse's overall temperature, humidity, and carbon dioxide levels. Because our prototype calls for more than five wireless devices, I believe we need a license for experimental purposes. We are building these prototypes as a contractor for a different company. If the prototypes are successful, we will manufacture more devices for this company, but not for additional customers. Thus, I believe this prototype project would be considered experimental only.