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**Congress of the United States**  
**House of Representatives**  
COMMITTEE ON ENERGY AND COMMERCE  
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December 20, 2013

Mr. Julius Knapp  
Chief  
Office of Engineering and Technology  
Federal Communications Commission  
445 12th Street, S.W.  
Washington, D.C. 20554

Dear Mr. Knapp:

Thank you for appearing before the Subcommittee on Communications and Technology on November 13, 2013, to testify at the hearing entitled "Challenges and Opportunities in the 5 GHz Spectrum Band."

Pursuant to the Rules of the Committee on Energy and Commerce, the hearing record remains open for ten business days to permit Members to submit additional questions for the record, which are attached. The format of your responses to these questions should be as follows: (1) the name of the Member whose question you are addressing, (2) the complete text of the question you are addressing in bold, and (3) your answer to that question in plain text.

To facilitate the printing of the hearing record, please respond to these questions by the close of business on January 14, 2014. Your responses should be e-mailed to the Legislative Clerk in Word format at [Charlotte.Savercool@mail.house.gov](mailto:Charlotte.Savercool@mail.house.gov) and mailed to Charlotte Savercool, Legislative Clerk, Committee on Energy and Commerce, 2125 Rayburn House Office Building, Washington, D.C. 20515.

Thank you again for your time and effort preparing and delivering testimony before the Subcommittee.

Sincerely,



Greg Walden  
Chairman

Subcommittee on Communications and Technology

cc: Anna Eshoo, Ranking Member, Subcommittee on Communications and Technology

Attachment

## **Attachment – Additional Questions for the Record**

### **The Honorable Steve Scalise**

1. You state in your testimony that “permitting additional shared-use requires significant collaboration with stakeholders to enable non-interfering shared-use of the spectrum.” Can you elaborate what type of collaboration will definitely ensure that a plan will not interfere with incumbents?
2. From a spectrum propagation perspective, can you talk about the potential for interference by expanding unlicensed use from indoor use to outdoors as well?

### **The Honorable Henry Waxman**

1. Do you believe the technical and engineering discussions between the Wi-Fi and Intelligent Transportation Systems (ITS) communities are going well? What can the Administration do to support these discussions?