January 21, 2011

By Hand Delivery
Marlene H. Dortch
Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, D.C. 20554

Re: Notice of Written Ex Parte Presentation in LightSquared Subsidiary LLC Application for Modification of Authority for Ancillary Terrestrial Component, File No. SAT-MOD-20101118-00239

Dear Ms. Dortch:

On January 19, 2011, representatives of the United States GPS Industry Council ("U.S. GPS IC") and several member companies held a teleconference with officials from the Commission’s Office of Engineering and Technology, International Bureau, Public Safety and Homeland Security Bureau, and Wireless Telecommunications Bureau to discuss the results of empirical experimentation conducted by Garmin International ("Garmin") to assess the impact on GPS receivers operating in the 1559-1610 MHz band of fixed, high-power terrestrial broadband transmitters of the new, non-ancillary type LightSquared Subsidiary LLC ("LightSquared") first proposed in its above-referenced November 2010 application. The LightSquared application proceeding has been designated to have permit-but-disclose status for purposes of the Commission’s ex parte rules.

The U.S. GPS IC duly filed an ex parte notice of the teleconference on January 20, 2011, and provided a copy of the Garmin report, entitled Experimental Evidence of Wide Area GPS Jamming That Will Result from LightSquared’s Proposal to Convert Portions of L Band 1 to High Power Terrestrial Broadband, that was discussed during the meeting. On January 21, 2011, the U.S. GPS IC made the attached written ex parte presentation to provide several pieces of information that Commission personnel requested during the January 19, 2011 teleconference.
In accordance with Section 1.1206 of the Commission's Rules, 47 C.F.R. § 1.1206, two copies of this letter and its enclosure are provided for inclusion in the Commission's files.

Please direct any questions to me.

Respectfully submitted,

Stephen D. Baruch
Counsel for the United States GPS Industry Council

Enclosure

cc: (w/Enclosure): Julius Knapp, Chief, OET
    Ronald Repasi
    Michael Ha
    Mark Settle
    Robert Weller
    Robert Nelson
    Sankar Persaud
    Pat Amodio
    Paul Murray
    Tom Peters
January 21, 2011

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

Re: Additional Information from U.S. GPS Industry Council in Response to Questions Posed During January 19, 2011 Teleconference

Dear Mr. Knapp:

During the January 19, 2011 teleconference representatives of the United States GPS Industry Council (“U.S. GPS IC”) and several member companies had with officials from your Office, along with the Commission’s International Bureau, Public Safety and Homeland Security Bureau, and Wireless Telecommunications Bureau to discuss the results of empirical experimentation conducted by Garmin International (“Garmin”) to assess the impact on GPS receivers operating in the 1559-1610 MHz band of fixed, high-power terrestrial broadband transmitters of the new, non-ancillary type LightSquared Subsidiary LLC (“LightSquared”) first proposed in its above-referenced November 2010 application, the U.S. GPS IC was asked to provide some additional information. We now provide the materials described below.

Appendix 1 to this letter contains the notch filter response information requested during the teleconference.

Appendices 2a and 2b to this letter contain the out-of-band characteristics of the LightSquared transmitter simulator used in the study presented in the Garmin report. The unmodulated carrier is presented in the figure in Appendix 2a, and the modulated signal is given by the figure in Appendix 2b. Please note that the high noise floor is explained by the fact that the laboratory where the study was done was not equipped with a tracking filter that could extend the spectrum analyzer’s dynamic range.
Finally, the characteristics of the GPS front end used in the Garmin nüvi 265W receiver analyzed in the Garmin report are available for download at the following locations on the component manufacturer’s web site:

http://www.infineon.com/dgdl/BGM781N11.pdf?folderId=db3a30431f848401011fcbf2ab4c04c4&fileId=db3a304325afd6e001261d7b53dd601e

http://www.infineon.com/dgdl/AN184.pdf?folderId=db3a30431f848401011fcbf2ab4c04c4&fileId=db3a304326c2768b0126dc49af342f1f

To the extent that you, your staff, or any of the Commission personnel on Wednesday's call have any questions regarding this material, please direct those questions to me and I will coordinate any further response.

Respectfully submitted,

F. Michael Swiek
Executive Director

Enclosures

cc: (w/ enclosures):  Julius Knapp, Chief, OET  
Ronald Repasi  
Michael Ha  
Mark Settle  
Robert Weller  
Robert Nelson  
Sankar Persaud  
Pat Amodio  
Paul Murray  
Tom Peters