

## Exhibit A

LightSquared Subsidiary LLC (“LightSquared”) requests experimental authority to conduct Ancillary Terrestrial Component (“ATC”) testing to determine the effects of L-band LTE signals on GPS devices in a live field test environment. The testing is an outgrowth of the requirements established in FCC Order DA 11-133.<sup>1</sup> All testing will be conducted consistent with LightSquared’s ATC authorization and the FCC’s Part 5 rules.<sup>2</sup> LightSquared is in the process of coordinating the proposed testing with Inmarsat and will operate on a non-harmful interference basis with respect to such testing, pending completion of coordination.

Prior to and during testing, LightSquared will seek input from the GPS Technical Working Group (“TWG”) that was formed pursuant to FCC Order DA 11-133. TWG members also will be permitted to participate in the testing and evaluate independently the effects of L-band LTE signals on GPS devices.

Testing will occur in a 2 km radius near five sites. Four of these sites are located in Maryland and Virginia, representing urban, suburban, and rural morphologies. One of these sites is located near IAD airport in Virginia and the other three sites are within 27 kilometers of BWI airport in Maryland. Testing at these locations will be conducted during daytime hours. The fifth test site is located on Holloman Air Force Base (“AFB”) in New Mexico. At this location, testing will occur between 11:45 pm – 1:00 pm Zulu and will be conducted with the permission of and in consultation with relevant Holloman AFB authorities.<sup>3</sup> The approximate locations of all the test sites are provided in the associated FCC STA Form and Exhibit B.

LightSquared’s operational (stop-buzzer) and technical points of contacts are listed in Exhibit B. LightSquared will be able to cease transmissions within minutes of any notification of harmful interference. Exhibit B also contains a summary of the technical parameters that the Commission has indicated may be relevant for the testing.

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<sup>1</sup> See *In the Matter of LightSquared*, DA 11-133, at ¶¶ 41-43 (January 26, 2011); see also GPS Technical Working Group Progress Report #1 (March 15, 2011), submitted as an attachment to Letter from Henry Goldberg to Marlene H. Dortch, File No. SAT-MOD-20101118-02039 (March 15, 2011).

<sup>2</sup> See *In the Matter of Mobile Satellite Ventures Subsidiary LLC*, 19 FCC Rcd 22144 (2004); *In the Matter of SkyTerra Subsidiary LLC*, 25 FCC Rcd 3043 (2010).

<sup>3</sup> The transmitter will be located 100 feet AGL on a temporary structure (i.e. “Cell on Wheels”).