

EXPERIMENTAL LICENSE RENEWAL REQUEST OF T-MOBILE LICENSE LLC

**T-Mobile License LLC
Form 405
Exhibit I**

NARRATIVE STATEMENT

Pursuant to Section 5.3, Section 5.53, and Section 5.71 of the Commission's rules, 47 C.F.R. §§ 5.3, 5.53, 5.71, T-Mobile License LLC ("T-Mobile") hereby respectfully requests an extension of its experimental license authorization (call sign WG2XLN) for the purpose of determining the suitability of spectrum in the 1755-1780 MHz and 2155-2180 MHz bands for commercial mobile broadband services, and to examine technical co-existence with a limited number of incumbent Federal operations, in a defined number of geographic locations, that may remain in the band for an undefined length of time. The technical parameters and facilities requested herein, as well as the applicable background and contact information, are unchanged from those currently authorized (see file number 0596-EX-PL-2012). Pursuant to Section 5.71(a) of the Commission's rules, T-Mobile hereby seeks an extension of its authorization to facilitate continued testing in this band.

Since T-Mobile received its initial STA, T-Mobile has made substantial progress on its planned testing. Specifically, T-Mobile and other interested participants have worked closely with the Department of Defense (DoD) and identified the DoD systems that will be the primary focus of the studies. Also, T-Mobile, AT&T Inc., and Verizon Wireless entered into a Memorandum of Understanding and Non-Disclosure Agreement with DoD to enable greater information exchange. Together with its industry partners, T-Mobile hired two contractors to perform monitoring, simulation, and lab simulations. T-Mobile with its partners and DoD identified the military bases at which these systems operate, and completed monitoring at six locations. Reports from these monitoring activities are complete and have provided information useful to understanding the potential for sharing. Discussions between DoD and the industry partners continues regarding next steps. One area of testing will be aimed at better understanding the impact of a variety of factors, such as clutter, terrain and system loading on the potential for systems to interfere with one another. Industry and DoD are finalizing arrangements to take aeronautical measurements to provide a better sense of the interfering signals that would be received by airborne platforms and to better characterize the RF environment. As part of this test, T-Mobile anticipates that it will be necessary to transmit CW signals in the 1755-1780 MHz band from known locations.

T-Mobile respectfully requests that the Commission extend experimental license WG2XLN for a term of two years. T-Mobile anticipates that it will complete its testing in less than two years after the initial date of this authorization. *See* 47 C.F.R. § 5.71(b).