



**REDACTED PUBLIC VERSION**

January 26, 2016

Dr. Nnake Nweke  
Chief, Experimental Licensing Branch  
Federal Communications Commission  
445 Twelfth Street SW  
Washington, DC 20554

Re: File No. 0055-EX-RR-2016

Dear Dr. Nweke:

In File No. 0055-EX-RR-2016, Google Inc. has requested renewal of its Experimental Authority, without revision of its terms, for a period of 24 months beginning March 1, 2016. Consistent with 0035-EX-PL-2014 (Call Sign WH2XCD), authority is needed for continued nationwide testing of transmitters operating in the 76.0-77.0 GHz (76 GHz) band.

This letter provides information concerning Google's anticipated use of the requested authority, which the Commission may find relevant. Extension of Google's authority would allow additional testing of [REDACTED]. Google plans to test in [REDACTED].

[REDACTED]	Centerpoint	Radius (miles)	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Austin, TX (current location)	30° 23' 10.0" N 97° 44' 11.1" W	40	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Mountain View, CA (current location)	37° 3' 45.0" N, 95° 40' 37.4" W	40	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

The technical characteristics of the authorized transmitters and the [REDACTED] will remain the same. Because the technical characteristics of Google's operation are

not changing, renewal of this nationwide authorization will not adversely impact any authorized user of RF spectrum.

Google requests confidential treatment of the material underlined in this letter for the length of the proposed experiment and thereafter in order to protect its evolving business and technology strategies. The information Google seeks to keep confidential includes information regarding proprietary wireless applications, and therefore represents a trade secret as recognized by the Commission. [REDACTED] is the subject of fierce competition from multiple third parties, and the release of the information provided by Google would provide valuable insight into Google's technology innovations and potential business plans and strategies. In particular, the [REDACTED]. Moreover, Google has limited the number of people involved in the tests/experiments, and required all third parties involved in the testing process to execute robust nondisclosure agreements. Consistent with 47 C.F.R. § 0.459(d)(1), Google requests notification if release of confidential information is requested pursuant to the Freedom of Information Act or otherwise.

Please do not hesitate to reach to me with any questions regarding this renewal application.

Sincerely yours,



Aparna Sridhar  
Counsel  
Google Inc.