

NARRATIVE STATEMENT

Pursuant to Sections 5.51 and 5.53 of the Commission's rules, 47 C.F.R. §§ 5.51, 5.53 (2012), Broadcom Corporation respectfully requests an experimental license to operate in the 2500-2570/2620-2690 MHz band for the purpose of conducting tests and demonstrations in connection with the design and development of long term evolution ("LTE") equipment. The testing will be conducted within the immediate area of its campus at Irvine, California.

The following provides more details for this request.

A. Purpose of Operation and Need for Experimental License:

Broadcom Corporation is a global leader and innovator in semiconductor solutions for wired and wireless communications and is continually engaged in the design and development of new and innovative communications equipment. The experimental authority requested herein will allow the company to test and demonstrate the performance and functionality of prototype devices. Specifically, Broadcom seeks to evaluate cellular base station and handset characteristics..

B. Location of Proposed Operation:

Broadcom proposes to conduct the proposed tests using up to eight base station transmitters and antennas that will be installed at temporary fixed locations within the immediate area of its campus at Irvine, California. Specifically, the stations will be installed within a radius of one kilometer of its office at 5300 California Avenue, Irvine, California, as identified in the accompanying application on FCC Form 442.

C. Technical Specifications:

1. Frequencies Desired

Broadcom requests authorization to operate in the band 2500-2570/2620-2690 MHz.

2. Effective Radiated Power

All power levels will comply with the limits set forth in the FCC's rules, including those relating to human exposure to radiation. The units to be deployed are configured to operate at a power level of 250 mW effective radiated power ("ERP"). Broadcom will vary the actual powers within the maximums noted above to test coverage results.

In addition, Broadcom will evaluate environmental considerations to ensure compliance with Section 1.1307 of the FCC's rules, 47 C.F.R. § 1.1307 (2012), and, in particular, the human exposure requirements set forth in FCC OET Bulletin No. 65.

3. Modulation and Emissions

The primary emission designator for these operations is 10M0D7D. Other emission modes may be utilized, but in no event will the emissions extend beyond the frequency bands requested.

4. Antenna Information

The fixed base station transmitter antennas will be located either indoors or outdoors. The antenna elevation above ground level will not be greater than 63 feet. No antennas will be mounted in a fashion that will require approval under FAA and FCC rules and regulations.

5. Equipment To Be Used

Broadcom expects that it will be able to conduct its tests and evaluations with a maximum of eight base stations and twenty five mobile/portable units. In addition, as noted above, Broadcom will limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the equipment.

D. Restrictions on Operation:

Broadcom is not seeking authority to perform a market study under this experimental license. Moreover, no fees will be charged to entities using the equipment during this test. After the test is completed, Broadcom will recall and recover all devices that do not comply with FCC regulations.

Broadcom also recognizes that the operation of any equipment under an experimental authority must not cause harmful interference to authorized facilities. Should interference occur, Broadcom will take immediate steps to resolve the interference, including if necessary arranging for the discontinuance of operation.

In addition, Broadcom will advise entities using the equipment that permission to operate has been granted under experimental authority issued to Broadcom, that such operation is strictly temporary, and that the equipment may not cause harmful interference. Entities will also be advised in accordance with Section 2.803 of the Commission's rules, 47 C.F.R. §2.803 (2012), that any unapproved devices have not been authorized as required by the rules of the FCC and are not being offered for sale or lease, or sold or leased, until authorization is obtained.

E. Public Interest Statement:

Broadcom submits that issuance of an experimental license as requested is in the public interest, convenience, and necessity. Grant of an experimental license will permit Broadcom to develop innovative equipment that will accommodate the communications needs of users.

F. Contact Information:

For questions about this application, please contact:

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