

NARRATIVE STATEMENT

Pursuant to Sections 5.51 and 5.53 of the Commission's rules, 47 C.F.R. §§ 5.51, 5.53 (2013), Broadcom Corporation respectfully requests a modification of its experimental license issued under call sign WH2XAN 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. See OET File No. 0015-EX-PL-2014. Specifically, Broadcom seeks to conduct experimental tests at a second location in Matawan, New Jersey.

The following provides more details for this request.

A. Purpose of Operation and Need for Modification of 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 modification of its experimental authority requested herein will allow the company to enhance its testing and demonstration of the performance and functionality of prototype devices. Specifically, Broadcom seeks to enhance its ability to evaluate cellular base station and handset characteristics.

B. Proposed Operation at New Location:

Broadcom proposes to conduct the proposed tests using up to eight base station transmitters and antennas that will be installed at temporary fixed locations indoors within buildings located at or in the vicinity (*i.e.*, within a radius of 500 meters) of 90 Matawan Road, Matawan, New Jersey, as identified in the accompanying modification application on FCC Form 442. The requested authority is consistent with the authority it received for its experimental operations at its current test site at Irvine, California.

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 100 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 (2013), 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 15M0D7D. Other emission modes may be utilized, but in no event will the emissions extend beyond the frequency bands requested.

4. Antenna Information

As noted above, Broadcom proposes to conduct tests indoors. The antenna elevations above ground level will not be greater than 63 feet. Moreover, 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. Specifically, it proposes to deploy transmitter authorized under the model number BCM961750/1760. 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 (2013), 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 modification of its 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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