

T-Mobile License, LLC
Application for Modification of Experimental Authorization
FCC Form 442
Call Sign WL2XDE

DESCRIPTION OF REQUEST

By the associated FCC Form 442, T-Mobile License LLC seeks to modify its experimental authorization associated with call sign WL2XDE so that its affiliate T-Mobile USA, Inc. (“T-Mobile”) may operate at an additional site. The technical parameters of the current experimental authorization would otherwise remain the same. T-Mobile requests authorization for a period of two years beginning on grant of the modification application.

A. Background:

On July 20, 2020, T-Mobile filed an application for experimental authorization to operate in the 3700-3800 MHz band in and around the Las Vegas, NV; Houston, TX; Phoenix, AZ; Bellevue, WA; and New York, NY areas.^{1/} T-Mobile requested experimental authorization to test use of the spectrum for Fifth Generation New Radio (“5G NR”) services. The Commission issued T-Mobile an experimental authorization under call sign WL2XDE on August 31, 2020.^{2/} On July 14, 2021, T-Mobile filed an application to modify its experimental authorization under call sign WL2XDE to (i) expand its experimental operations on the 3700-3800 MHz band to the full 280 megahertz of C-band spectrum at 3700-3980 MHz; and (ii) add additional locations (also using the full C-band spectrum).^{3/} The modification application was granted on July 20, 2021.^{4/}

B. Purpose of Operation and Need for Experimental License:

As noted above, the Office of Engineering and Technology has already authorized T-Mobile to use the 3700-3980 MHz band in multiple locations across the country in support of T-Mobile’s assessment of the potential use of C-band spectrum for 5G NR operations in cooperation with equipment manufacturers.^{5/} T-Mobile requests modification of its existing authority for the limited purpose of adding a site, which will allow T-Mobile to test its 5G NR services at that site.

^{1/} See Application for Experimental Authorization of T-Mobile License LLC, ELS File No. 0605-EX-CN-2020 (filed July 20, 2020).

^{2/} See FCC Experimental Authorization (Call Sign WL2XDE).

^{3/} See Application for Modification of T-Mobile License LLC, ELS File No. 0140-EX-CM-2021 (filed July 14, 2021).

^{4/} See E-Mail from OET Systems Administration (Batch Processing) OET Systems Administration (Batch Processing) to Chris Wiczorek, T-Mobile (dated July 20, 2021), <https://apps.fcc.gov/els/GetAtt.html?id=278420&x=>.

^{5/} T-Mobile was a winning bidder in the C-band auction, submitting \$9.3 billion in gross bids and winning 142 licenses covering 72 Partial Economic Areas (“PEAs”). See *Auction of Flexible-Use Service Licenses in the 3.7-3.98 GHz Band Closes; Winning Bidders Announced for Auction 107*, Public Notice, 36 FCC Rcd 4318, at Attach. A (rel. Feb. 24, 2021). The spectrum for which T-Mobile is licensed is subject to the Phase II clearing deadline – meaning the spectrum is not expected to be available for full

C. Protection Against Causing Interference:

Consistent with its existing experimental authorization, the impact on the spectrum environment in the Los Angeles market by grant of this modification will be limited in geographic scope. T-Mobile's request is limited to a specific site in Los Angeles. And its proposed testing will include directional antennas, and the beamwidth will be 120 degrees at the half power point. Horizontal and vertical orientations will vary. T-Mobile will actively work with equipment manufacturers during the authorized period to test equipment and minimize interference.

T-Mobile recognizes that experimental authorizations are issued on a secondary basis only. T-Mobile has identified the nearest earth stations in the proposed region and will coordinate its experimental operations with those earth station operators in order to avoid any potential disruptions. T-Mobile will immediately cease transmissions if those operators experience harmful interference.

While other winning bidders in the C-band auction have also been issued licenses for spectrum covering the Los Angeles market, T-Mobile does not anticipate use of the spectrum by other terrestrial wireless service providers during the period covered by the experimental authorization. T-Mobile will nevertheless notify those other licensees of its proposed operations and, unless they have agreed otherwise, terminate its operations immediately upon notification that those other licensees have initiated operations.

T-Mobile has established a point of contact identified below with "kill switch" authority should any interference occur to a primary licensed services:

Chris Wieczorek
T-Mobile USA, Inc.
601 Pennsylvania Ave., NW
Washington, DC 20004
202-654-5913
chris.wieczorek@t-mobile.com

Should there be any questions regarding this application, the Commission is asked to contact Mr. Wieczorek.

commercial use until after December 5, 2023. *See Expanding Flexible Use of the 3.7 to 4.2 GHz Band*, Report and Order and Order of Proposed Modification, 35 FCC Rcd 2343, ¶ 154 (2020). The already-issued experimental authorization permits T-Mobile to collect data at various locations, which will enable it to accelerate deployment and lead to greater innovation and better services to consumers when it has access to its authorized spectrum.