

T-Mobile License LLC
Application for Special Temporary Authority

DESCRIPTION OF REQUEST

By the associated application and pursuant to Section 5.54 of the Commission’s rules,^{1/} T-Mobile License LLC requests special temporary authority (“STA”) for six months – from July 20, 2026, to December 21, 2026 – so that its affiliate, T-Mobile USA, Inc. (“T-Mobile”) may conduct separate experimental tests using spectrum in the 2690-2800 MHz (“2.7 GHz”) band at (i) the Federal Aviation Administration’s (“FAA”) Mike Monroney Aeronautical Center (“MMAC”) located in Oklahoma City, Oklahoma, and (ii) the National Weather Service’s (“NWS”) Radar Operations Center (“ROC”) located in Norman, Oklahoma.

A. Purpose of Operation and Need for Experimental License

The purpose of the testing at both locations is to evaluate the operation of prototype wireless equipment located in close proximity – both spectrally and geographically – to Federal radar systems. Specifically, the proposed testing will assess the use of a prototype base station at each location and evaluate its ability to coexist with Federal radars operated and relied upon by the NWS and the FAA. The testing will allow T-Mobile to both study adjacent-channel compatibility between the systems as well as develop any necessary interference mitigation techniques.

The testing will include the use of a single temporary fixed base station deployed on a Cell-on-Wheels platform at each location. No mobile devices will be used in either test. Testing will occur only at the MMAC and the ROC. At each location, testing will be confined to a geographic area with an expected coverage radius of approximately 20 kilometers from the base station’s location.

Grant of the STA will serve the public interest because it will allow T-Mobile to conduct testing in coordination with the NWS and the FAA to evaluate use of the 2.7 GHz band for commercial wireless services in controlled environments, but under real-world conditions. Not only will this help achieve the Administration’s goal to promptly make the 2.7 GHz band available for next-generation wireless services,^{2/} but it is also consistent with the National Telecommunications and Information Administration’s objective to “free[] up spectrum for 6G without compromising mission performance.”^{3/}

B. Restrictions on Operation

T-Mobile will restrict its experimental operations to only the 2.7 GHz band at the MMAC and the ROC, as depicted in the map below. As noted above, the research will be conducted in

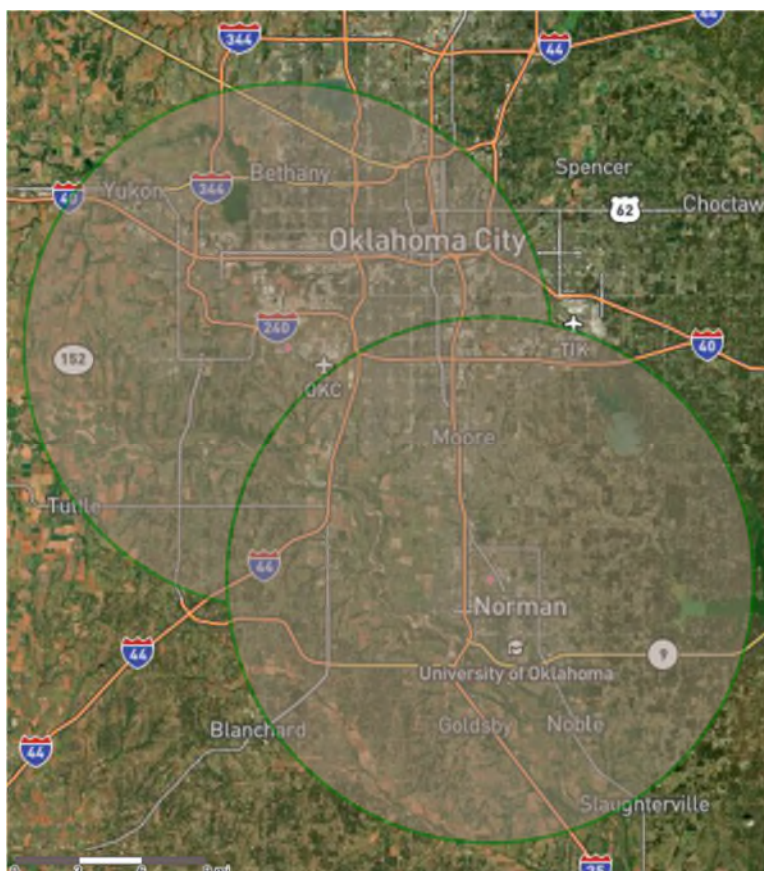
^{1/} See 47 C.F.R. § 5.54.

^{2/} See Presidential Memorandum on Winning the 6G Race, THE WHITE HOUSE (Dec. 19, 2025), <https://www.whitehouse.gov/presidential-actions/2025/12/national-security-presidential-memorandum-nspm-8-0bda/>.

^{3/} See Press Release, *Plan to Repurpose 2.7 GHz Band Clears Key Milestone, Fueling U.S. 6g Leadership*, NTIA (Apr. 14, 2026), <https://www.ntia.gov/press-release/2026/plan-repurpose-27-ghz-band-clears-key-milestone-fueling-us-6g-leadership>.

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controlled environments, and they will not involve any commercial deployment or service provision. T-Mobile will also conduct its operations consistent with the Commission's equipment marketing and importation rules.^{4/}



C. Protection Against Causing Interference

There will be no adverse impact on the spectrum environment by grant of the STA. There are no active licenses for non-Federal use of the 2.7 GHz band in or around the MMAC or the ROC. In addition, as noted above, T-Mobile will coordinate its use of the spectrum with the Federal users of the band. T-Mobile is already in contact with Oscar Valle-Colon at the FAA and Randall Silver at the National Oceanic and Atmospheric Administration, which oversees the NWS, and will continue its coordination with both agencies.

^{4/} See 47 C.F.R. § 2.803.

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In any case, T-Mobile has established a point of contact identified below with “kill switch” authority should any harmful interference occur:

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T-Mobile also recognizes that STAs are issued on a secondary, non-interfering basis only and that grant of the authorization will provide it with no additional rights to permanently operate on the spectrum covered by the authorization.