

## **Exhibit**

Applicant seeks a one (1) month Special Temporary Authority (STA) to demonstrate at the AT&T SHAPE Conference, the functionality, features, and capabilities of the fifth generation (“5G”) 3GPP NR-based wireless communication systems using experimental equipment operating in the 28 GHz spectrum band. The STA is needed from June 1, 2019 to July 1, 2019.

The industry organization 3<sup>rd</sup> Generation Partnership Project (“3GPP”) completed the R15 NR specifications in June 2018, which together with 3GPP final NR specifications in Release 16, will be submitted for consideration as an IMT 2020 Radio Interface Technology at the July 2019 ITU-R WP5D meeting. 5G systems provide low latency gigabit per-second (Gbps) mobile and fixed broadband services. AT&T seeks the STA to further demonstrate the advanced applications and services possibilities in the requested mmWave frequency band.

Applicant’s 5G demonstrations will involve communications between up to 3 fixed (FX) base stations, and up to six (6) user equipment (UE) units placed within 100 meters of the base station antennas. The base station and the UE antennas will be placed indoors at a height of less than four (4) meters above the floor in a room or open space inside buildings on the Warner Brothers Studios located at 4000 Warner Boulevard, Burbank, CA 91522 as shown in the maps below. The red dots indicate the three potential building sites. Base stations will have connectivity to an internal server to provide content over the 5G air interface for the purposes of this demonstration. The UEs can provide services to various devices through Wi-Fi access.



