

Exhibit

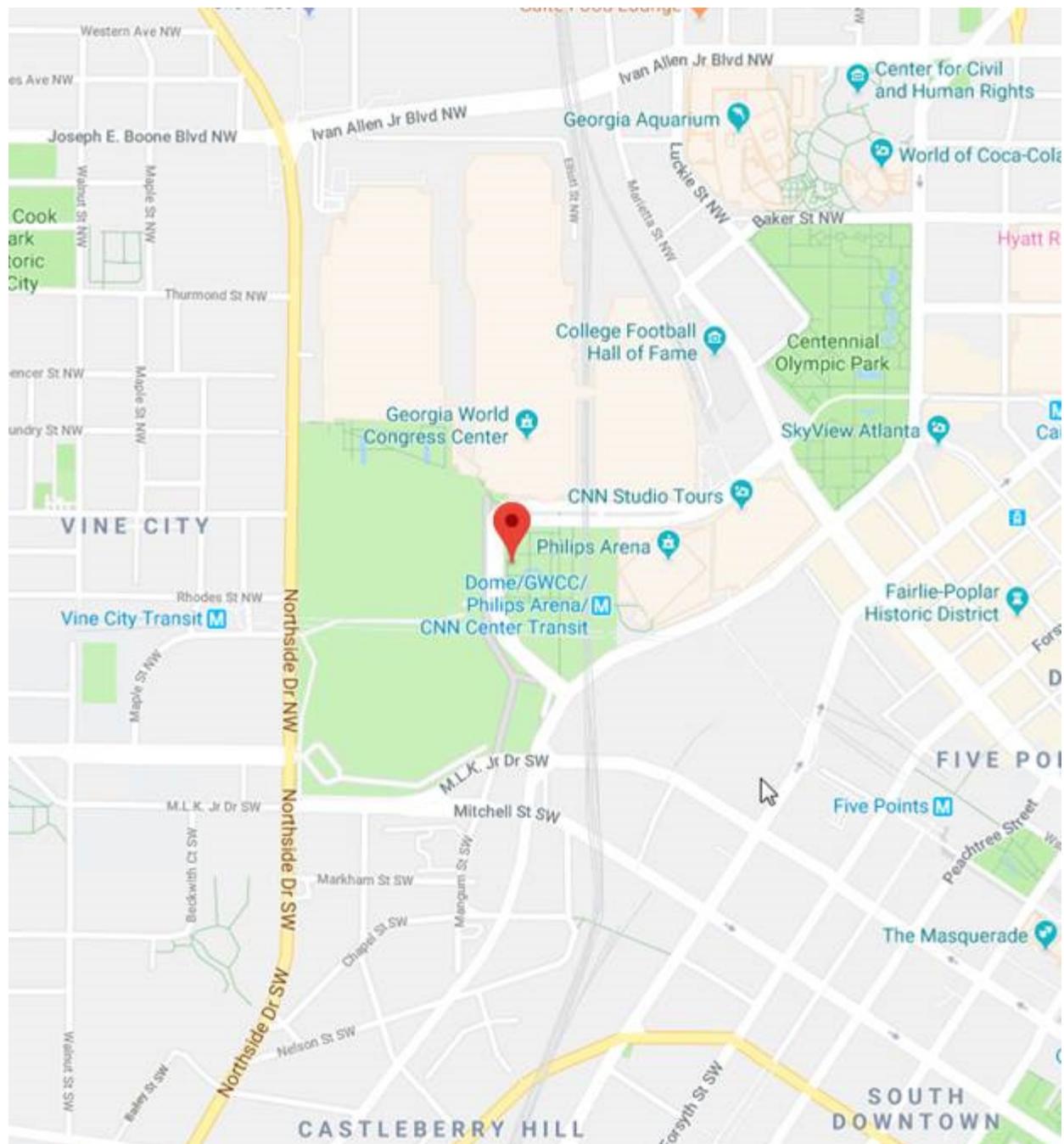
Applicant seeks Special Temporary Authority (STA) to operate a 28 GHz experimental 5G NR system at an event held at Atlanta's Georgia International Plaza located on 8 Andrew Young International Blvd., Atlanta, GA, 30313. The STA is needed from November 1, 2018 to November 30, 2018.

The industry organization 3rd Generation Partnership Project ("3GPP") has 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 will utilize advanced antenna technologies with beamforming and multiple in multiple out ("MIMO") technology, as well as more efficient coding and modulation schemes. These technologies are expected to result in higher spectral efficiencies and reduced latency, enabling gigabit per-second (Gbps) mobile and fixed broadband services, significantly faster than today's average 4G speeds using the Long Term Evolution ("LTE") connections.

Applicant's 5G demonstrations will involve communications between up to 2 fixed (FX) base stations and up to 4 user equipment (UE) units placed within 100 meters of the base station antennas. The base stations and the UE antennas will be placed outdoors with antennas at a height of less than 4 meters above the ground (the location is shown in the map below with a red marking). The base stations will have connectivity to internal servers and/or the Internet, to provide content over the 5G air interface for the purposes of these demonstrations. The UEs can provide services to various devices through Wi-Fi access points that are connected to the UEs via Ethernet cable.

The 5G air links provided through this STA will be used to demonstrate various applications that require very high speeds and very low latencies now made possible by 5G advanced wireless communication systems. The results will provide valuable information to users whose feedback could be used to enable product development and system optimization, as well as to improve future system standards and the deployment processes.





Western Ave NW
es Ave NW
Joseph E. Boone Blvd NW
Cook Park
Historic City

Thurmond St NW
Vine City
Vine City Transit M

Maple St NW
Rhodes St NW
Maple St SW

M.L.K. Jr Dr SW
Markham St SW
Chapel St SW
Nelson St SW
Walnut St SW

Ivan Allen Jr Blvd NW
Georgia Aquarium
College Football Hall of Fame
Georgia World Congress Center
Dome/GWCC/Philips Arena/CNN Center Transit
MLK, Jr Dr SW
Mitchell St SW
Northside Dr SW

Center for Civil and Human Rights
World of Coca-Cola
Hyatt R
Centennial Olympic Park
SkyView Atlanta
CNN Studio Tours
Philips Arena
Fairlie-Poplar Historic District
Five Points M
The Masquerade
SOUTH DOWNTOWN