

EXHIBIT 1

PROGRAM OF RESEARCH AND EXPERIMENTATION

Cellco Partnership d/b/a Verizon Wireless ("Verizon Wireless") hereby requests an experimental authorization to use the 4.8 – 4.9 GHz band (B79A) in and around its lab in Los Angeles, California. Verizon Wireless's request is temporary, expiring one year from grant. The experimental authorization is necessary to test Ericsson software and hardware in a non-commercial environment.

Verizon Wireless requests this authorization to demonstrate 5G advanced technology use cases such as object sensing as a precursor to 6G Integrated Sensing and Communication (ISAC). This work will facilitate the adoption of use cases across commercial, public safety, and defense sectors. The Ericsson hardware available for this test system utilizes radios compatible with the 4.8 - 4.9 GHz band.

Grant of the experimental authorization will allow Verizon Wireless to set up hardware radiating in 4.8-4.9 GHz as part of a private network not connected to commercial operators. The radios are certified for use under 47 C.F.R. Part 27 and Part 96. The testing will be conducted using varying bandwidths to allow for range, resolution, and confidence assessments.

Testing will occur outdoors and all transmissions will be controlled at the locations provided in the application. The fixed base stations will employ directional antennas and will have a maximum antenna elevation as described in the application. The base station antenna has a half-power beam width of approximately 24° vertically and 65° horizontally.

Verizon Wireless is unable to determine the incumbent users in the 4.8-4.9 GHz band. Verizon Wireless will coordinate with the incumbents once the FCC and NTIA have provided the agencies impacted, and prior to commencing testing, to avoid any potential disruptions to their operations.

If incumbent licensees experience interference, Verizon Wireless will cease interfering operations.

In the event of interference, the following person can be contacted:

Los Angeles Lab: Luke Wang, (213) 407-1177.

The proposed testing serves the public interest and should be granted. The grant of this request will allow Verizon Wireless to pursue the development of future 6G technology. Verizon Wireless is limiting this application to a small area around its lab facilities for the trial. If a deployment develops out of this trial, Verizon Wireless will utilize its own licensed spectrum for the network deployment.