

## **EXHIBIT 1**

### **PROGRAM OF RESEARCH AND EXPERIMENTATION**

Pursuant to 47 C.F.R. § 5.61, Verizon Wireless requests a six-month special temporary authorization (“STA”) for conventional experimental operations to develop radio technique and equipment, consisting of fixed stations, related to an existing or proposed radio service. The proposed STA operations will allow Verizon Wireless to obtain a better understanding of the characteristics of millimeter wave operating bands, specifically 28 GHz and 39 GHz, channel bandwidths and U/L ratios for residential/commercial deployments.

The fixed stations will employ directional, beamforming antennas pointing north, and any antennas pointing south, southwest, or southeast will have a maximum antenna elevation of 0 degree or below from the horizon. The technical parameters and other details regarding the equipment are specified in the accompanying STA Form.