

EXHIBIT 1

PROGRAM OF RESEARCH AND EXPERIMENTATION

Cellco Partnership d/b/a Verizon Wireless (“Verizon Wireless”) hereby requests an experimental short term authorization (“STA”) to use the 3.7 – 3.8 GHz band in portions of PEA002 Los Angeles, CA and one location in PEA394 Martin, SD. Verizon Wireless plans to use this STA to co-develop different mobile devices with equipment manufacturer partners. The 100 MHz sought under this STA is a subset of the recently auctioned flexible use C-Band and ultimately will be part of Verizon Wireless’s post clearing assignments. Verizon Wireless’s request is temporary, expiring nine months from grant.

Testing under the STA will occur both outdoors and indoors, and all transmissions will be controlled at the locations provided in the application. The fixed base stations and mobile terminals will employ directional, beamforming 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 30° vertically and 120° horizontally. The equipment will be mounted in the same orientation as existing antennas used by Verizon Wireless, except at the SD location where two additional azimuths will also be tested. The South Dakota and one California sites will also be tested at the highest available transmit power. These sites were specifically selected due to their extreme distance to the nearest earth station; that distance should allow us to perform this specific testing without interfering with the earth stations.

Additional technical parameters are specified in the accompanying Form 442. The following table provides detail with the orientation of antennas where multiple values cannot be entered into the Form 442.

Site	Horizontal orientation of antennas (in degrees)
Baker, CA	45,225
Jackson, SD	100,140, 260, 300

Verizon Wireless has identified the nearest earth stations and will coordinate operations under the STA with those earth station licensees to avoid any potential disruptions to their operations. In the unlikely chance that those licensees experience interference, Verizon Wireless will immediately cease interfering operations. And while Verizon Wireless expects this testing will end once the earth stations have successfully cleared Phase 1 (100 MHz of the A-Block), Verizon Wireless will cease operations in the areas which are part of the A-Block clearing phase upon notice by a new licensee that they plan to initiate operations in the relevant area.