

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 PEA001 New York, NY and PEA007 Boston, MA. 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 21° vertically and 120° horizontally. The equipment will be mounted in the same orientation as existing antennas used by Verizon Wireless.

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)
Walpole, MA	70;180;320
Wareham, MA	100;190;305
Boston, MA	0;85;215
Boston, MA	70;175;270
Walpole, MA	70;250;340
Attleboro, MA	50;170;290
Wareham, MA	80;170;270
Woonsocket, RI	0;140;270
Manville, RI	40;130;270
Attleboro, MA	40;150;280
Westborough, MA	40;160;280
Boston, MA	30;150;270
North Smithfield, RI	50;170;290
Franklin, MA	20;110;255
Foxboro, MA	30;140;260
Brookline, MA	10;130;270
Boston, MA	40;135

Site	Horizontal orientation of antennas (in degrees)
Westborough, MA	27;147;267
Woonsocket, RI	50;205;305
Woonsocket, RI	40;130;290
Wareham, MA	80;185;300
Walpole, MA	50;170;300
Foxboro, MA	20;160;267

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.