

## 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 PEA009 Miami, FL. Verizon Wireless plans to use this STA to co-develop different mobile devices with OEM partners. The 100 MHz sought under this STA is a subset of the recently auctioned flexible use C-Band at 3.7 to 3.98 GHz and ultimately will be part of Verizon Wireless’ post clearing assignments. Verizon Wireless’s request is temporary, expiring nine months from grant.

Testing under the STA will occur outdoors, and all transmissions will be controlled at the locations provided in the application. The outdoor fixed base stations and mobile terminals will employ directional, beamforming antennas and will have a maximum antenna elevation as described in the application. The equipment will be mounted using different orientations to avoid Earth Station interference compared to the orientations used today. 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)
10301 Hagen Ranch Road	330;140;220
9740 Boynton Beach Road	0;120;240
1051 HILLSBORO MILE	200;285;345
6933 NW 39TH AVENUE	0;120;240
5550 GLADES ROAD	0;140;285
7000 W. Palmetto Park Road	5;100;240
2500 NW FIRST AVE	0;120;240
2000 S. OCEAN BLVD.	0;170;255
950 GLADES ROAD	0;120;240
6060 SW 18th St.	0;120;240
210 GOOLSBY BLVD.	10;120;240
201 E. SAMPLE ROAD	0;120;240
3114 S Ocean Blvd	0;150;250
12751 HAGEN RANCH ROAD	0;120;240
5150 LINTON BLVD.	0;120;240
210 North University Drive	10;130;240
1401 UNIVERSITY DRIVE	0;120;240
629 SE 19TH AVE	10;180;270

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. Verizon has strategically selected test locations that will not interfere with existing Earth Stations. If those licensees do experience interference, Verizon Wireless will cease interfering operations. In addition, 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.