

# EXHIBIT 1

## Program of Research and Experimentation

AT&T Services, Inc. (“AT&T”) seeks Commission consent to the modification of experimental call sign WL2XZL. AT&T has used this call sign to conduct testing in the 3.45-3.55 GHz band with various equipment manufacturer partners. AT&T now requests Commission consent to a license modification that will permit this testing to be expanded to new sites, as described in the attached application.

As is the case with the existing authorization, testing will occur indoors and outdoors, pursuant to the technical parameters outlined in the attached Form 442 and attached spreadsheet. Consistent with the Commission’s Part 5 rules, AT&T will operate on a non-interference basis to all other operators in the 3.45-3.55 GHz band. AT&T will immediately cease transmissions if those operators experience interference. In addition, AT&T will cease operations upon notice by any Auction 110 winning bidder that they plan to initiate operations in the relevant area pursuant to their Auction 110 licenses.

Site	LATITUDE	LONGITUDE	State	Structure Type	Directional Antenna? (Y/N)	Sector	Answer Below if “Yes” to Directional Antenna			Antenna Extend >6m above structure or ground? (Y/N)	Answer Below if “Yes” to Antenna Extend > 6M Above Structure or Ground				
							Width of beam at the half-power point (in degrees)	Orientation in horizontal plane (degrees from true North)	Orientation in vertical plane (degrees from horizontal)		Height above ground to antenna tip (in Meters)	Elevation of ground at antenna site (AMSL) (meters)	Distance to nearest aircraft landing area (in km)	List natural formation or existing man-made structures (e.g. hills, trees, water tanks, towers) that would shield antenna from aircraft.	
1	38° 48' 24"	90° 28' 49"	MD	Monopole	Y	A	65	10	0	Y	31.79	160.38	8.05	Trees, additional building	
							B	65	139						0
							C	65	259						0
2	38° 47' 45"	90° 33' 22"	MD	Self Support	Y	A	65	10	0	Y	28.44	157.27	13.27	Trees, additional building	
							B	65	139						0
							C	65	260						0
3	38° 46' 14"	90° 29' 39.8"	MD	Rooftop	Y	A	65	29	0	Y	22.65	157.55	7.51	Trees, additional building	
							B	65	149						0
							C	65	259						0
4	38° 47' 46"	90° 31' 59.9"	MD	Light Pole	Y	A	65	20	0	Y	19.6	162.82	11.45	Trees, additional building	
							B	65	130						0
							C	65	270						0
5	38° 48' 1.1"	90° 30' 17"	MD	Flag Pole	Y	A	65	60	0	Y	35.75	163.58	9.34	Trees, additional building	
							B	65	170						0
							C	65	290						0
6	38° 49' 47"	90° 31' 53"	MD	Monopole	Y	A	65	40	0	Y	24.78	133.41	13.1	Trees, additional building	
							B	65	160						0
							C	65	290						0
7	38° 47' 21.4"	90° 32' 16"	MD	Monopole	Y	A	65	19	0	Y	30.87	164.62	11.62	Trees, additional building	
							B	65	139						0
							C	65	259						0
8	38° 47' 13"	90° 30' 25.9"	MD	Monopole	Y	A	65	19	0	Y	30.87	166.26	9	Trees, additional building	
							B	65	130						0
							C	65	259						0
9	38° 49' 14"	90° 30' 45"	MD	Monopole	Y	A	65	80	0	Y	24.78	137.12	11.15	Trees, additional building	
							B	65	190						0
							C	65	320						0
10	38° 44' 15"	90° 22' 4"	MD	Rooftop	Y	A	65	19	0	Y	32.23	176.38	0.98	Trees, additional building	