

REQUEST FOR EXPERIMENTAL STA

Pursuant to Sections 5.3(j) and 5.51(a) of the Commission’s rules, Cox Communications, Inc. (“Cox”) requests Special Temporary Authority (“STA”) to operate on frequencies within the 3550-3700 MHz band, at two fixed locations in Tuttle (Grady County), Oklahoma. The purpose of this request is to test the efficacy of radio equipment that Cox intends to use to deploy Citizens Band Radio Service (“CBRS”) networks.

Cox is a leading national provider of cable television, telecommunications, and home automation services. In FCC Auction No. 105, Cox acquired a large portfolio of Priority Access Licenses (“PALs”), which it intends to use to provide broadband access services to the public, including in rural areas. Cox is seeking an STA in order to deploy and test experimental equipment on the trial CBRS network it is constructing in Tuttle, Oklahoma. This testing will include radios using mMIMO (Massive MIMO) technology, which is designed to improve data throughput. Experimental authority is needed pending certification of the equipment’s Domain Proxy – the interface through which the Spectrum Access System (“SAS”) dynamically assigns CBRS channels to carriers.

The proposed sites will use directional antennas with the following orientations:

	Location 1			Location 2		
	Alpha	Beta	Gamma	Alpha	Beta	Gamma
Horizontal Orientation (Degrees)	0	120	240	60	180	300
Vertical Orientation (Degrees)	0	0	0	0	0	0

Cox understands that its proposed use will be on a non-interference basis and will work directly with a SAS Administrator to coordinate operations. In the event Cox determines that its operations may be causing interference to another carrier, Cox will suspend transmissions immediately. The stop buzzer contact for the proposed operations is:

Brady Puckett
Cox Communications, Inc.
(678)725-3243

The requested STA will provide Cox with valuable data regarding the design and deployment of CBRS networks, benefiting both current and potential future customers. Accordingly, approval of this request will serve the public interest, convenience, and necessity.