

Exhibit 1 - Request for Special Temporary Authorization

U.S. Cellular submits this application for a six (6) month special temporary authorization from the Federal Communications Commission to conduct short-term experimental testing between 3550-3600 MHz in suburban and rural environments in Penobscot and Somerset counties in Maine as well as Buncombe and Henderson counties in North Carolina. The experimental testing will involve studying the radio propagation characteristics of frequencies in the proposed Citizens Broadband Radio Service (CBRS) spectrum to help determine the applicability of this spectrum to support various future wireless services.

Radio System:

The test will involve base station and end-user equipment operating in the proposed CBRS band. The base station equipment will be mounted on existing U.S. Cellular tower facilities and will transmit at a maximum EIRP of 47 dBm/10 MHz, consistent with the current proposed CBRS rules for Class-B CBRS Base Station Devices. The user equipment will transmit at a maximum EIRP of 23 dBm, also consistent with proposed CBRS rules. LTE Modulation will be used with up to two (2) 20 MHz carriers within the 3550 to 3600 MHz spectrum.

Test Locations:

The base station equipment and antennas will be installed at four (4) locations.

Latitude	Longitude	Antenna Height (AGL)
N 35° 19' 43.8"	W 82° 29' 35.8"	156'
N 35° 31' 52.7"	W 82° 40' 36.7"	140'
N 45° 05' 35.0"	W 69° 05' 05.6"	220'
N 44° 45' 57.2"	W 69° 37' 30.2"	150'

The end-user equipment will be placed at various locations within 10 miles of the base station locations listed above. The end-user equipment will be mounted at heights up to 15' above ground level (AGL).

Directional antennas will be used at both the base station and end-user equipment locations.

All the base station and end-user locations will be outside of the proposed CBRS "Exclusion Zones" defined by the National Telecommunications and Information Administration (NTIA) which protects incumbent users of the spectrum.