

**Ericsson**  
**File No. 0827 -EX-CN-2017**  
**10/25/2017**

Ericsson has already been granted special temporary authority to operate under these parameters until Jan 1, 2018, under call sign WL9XZDY.<sup>1</sup> We have been using the STA to seek to understand the characteristics of the millimeter wave operating bands, channel bandwidths, and the U/L ratios for residential and commercial deployments. We have found that we will need longer than 6 months to conduct this testing and so are applying for a conventional license. This application is asking for the same terms and conditions of operation as our existing STA.<sup>2</sup> The only change is that we are seeking the longer term.

#### Directional Antenna Exhibit

The antenna parameters will be:

Polarization: **REDACTED**  
Horizontal HPBW: **REDACTED**  
Vertical HPBW: **REDACTED**  
Antenna gain: **REDACTED**  
Electrical tilt: **REDACTED**  
Mechanical tilt: **REDACTED**  
Horizontal Beam Steering: **REDACTED**  
Vertical Beam Steering: **REDACTED**

#### Call Sign Waiver Request

The experimental 5G base stations are not built to transmit a call sign. While we have determined that we would be able to modify the base stations to transmit a call sign in simple Morse code should the Commission not grant the waiver in its current form, Ericsson requests that the requirement to transmit a call sign be waived for this experiment. We will be experimenting with new modulations, and other parties will not have receivers that can read the call signs. We will coordinate with existing users to prevent interference.

---

<sup>1</sup> See Grant for File No. 0492-EX-ST-2017 (effective July 1, 2017)

<sup>2</sup> 47 C.F.R. 5.61(c).