

**Ericsson**

**Exhibit to STA Application, File No. 1319-EX-ST-2016**

**Date Filed: September 7, 2016**

AT&T, together with Ericsson, plans to conduct a 5G demo at the Texas Wireless Summit, which will be held inside the Blanton Museum of Art's Edgar Smith Building, 200 E Martin Luther King Jr. Blvd., Austin TX, 78701. The Commission has previously granted Ericsson Special Temporary Authority to conduct nearly identical demos numerous times, including at the 2016 CTIA show.<sup>1</sup>

The exhibition will use 2 experimental 5G base stations and one piece of experimental 5G mobile user equipment. The demo will be entirely indoors, inside the Smith Building's auditorium, and will have, at most, a 30-foot radius of operation. [REDACTED] and the transmissions will be at no more than 2 Watt EIRP. Because of [REDACTED], the lower power, and the indoor location, the experiment will not interfere with existing users. Out of an abundance of caution for the government systems in the requested band, we are nonetheless providing a 24 hour emergency contact to turn off any transmissions should interference be detected. The contact information is: Yuri Karmalita, 514-451-7430.

Ericsson is requesting to operate on the government spectrum band only because the prototypes we are able to demo with were designed in Sweden to operate on the band. Although we have submitted numerous requests for STAs to demo 5G on this band, we have no plans to request that this spectrum be repurposed for commercial use.

Directional Antenna Information

The base station, which has a directional antenna, will be located inside the auditorium of the Edgar Smith building. The antenna will be at 8 feet high [REDACTED].

The antenna parameters will be:

- Polarization: [REDACTED]
- Horizontal HPBW: [REDACTED]
- Vertical HPBW: [REDACTED]
- Antenna gain: [REDACTED]
- EIRP:  $\leq 2$  Watts
- Electrical tilt: [REDACTED]
- Mechanical tilt: [REDACTED]

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<sup>1</sup> See File No. 1023-EX-ST-2016.

**Diagram for the V-pol antenna elements: azimuth**

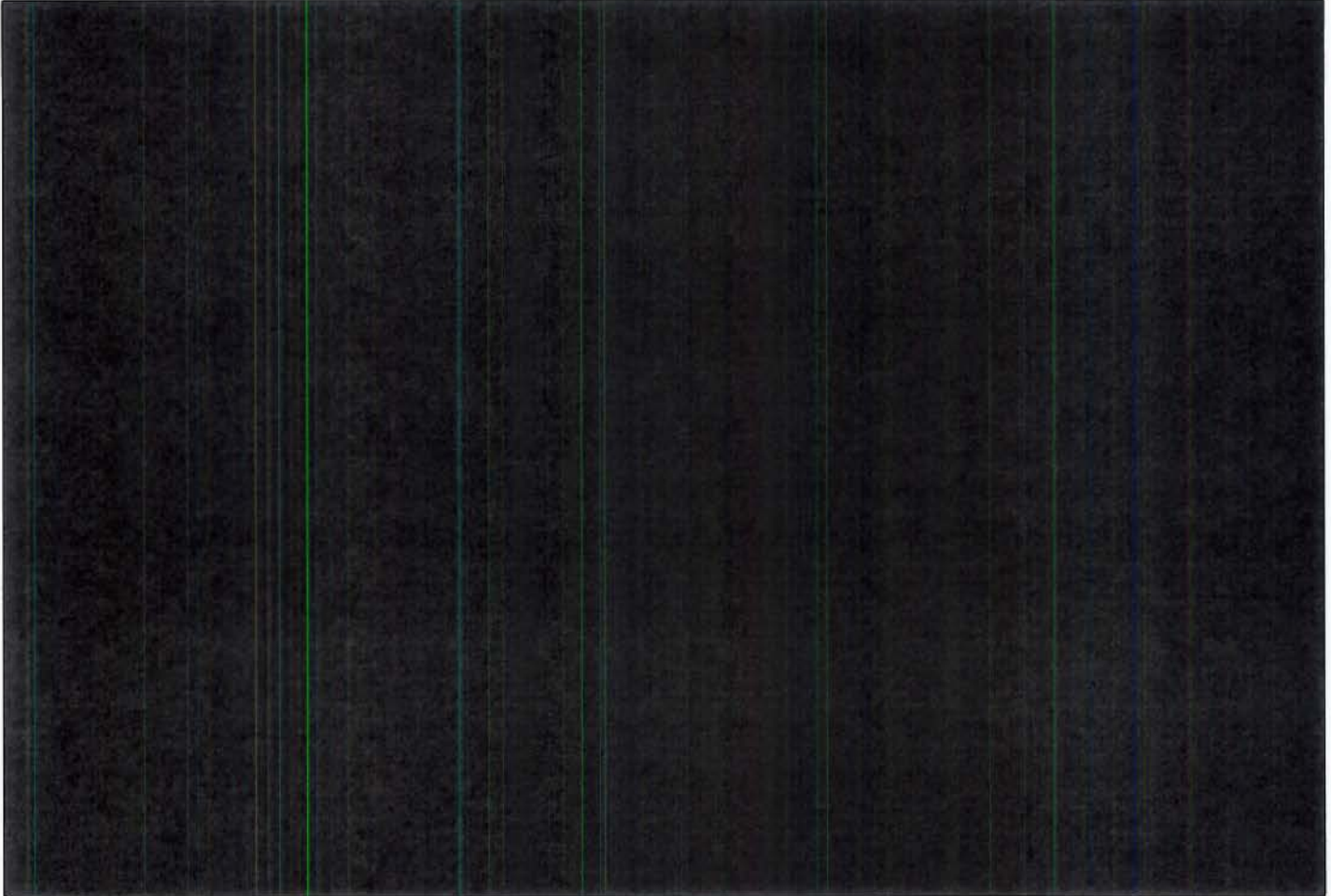


Diagram for the V-pol antenna elements: elevation.

