

Description of the Experiment and Objectives to be Accomplished<sup>1</sup>

As part of our work in developing 5G, Ericsson is seeking this authorization to conduct pre-commercial outdoor field trials to validate key 5G concepts and associated performance. This research will continue and expand the development of 5G technologies, which is necessary to ultimately enabling 5G deployment. [REDACTED]

[REDACTED]

Timing

We request authorization to begin on October 1, 2017.

Output Power

The maximum power at the base station will be 50 dBm and the maximum EIRP will be 50 dBm. The maximum EIRP for the user equipment will be 36 dBm.

Directional Antenna Information

The base stations contain a directional antenna:

- (a) Width of beam in degrees at the half-power point: 12
- (b) Orientation in horizontal plane: +/-60 deg
- (c) Orientation in vertical plane: +/- 60 deg

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 will coordinate with existing users in advance to address interference issues.

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<sup>1</sup> See 47 C.F.R. 5.63(c)(1)