Ericsson
Exhibit to STA Application, File No. 0795-EX-ST-2017
Date Filed: 6/13/2016

Ericsson submits this application for Special Temporary Authority to conduct a 5G demo, together with Sprint, for President Trump at the White House on June 22. The demo is being requested by OSTP, as part of a White House meeting with technology companies. We are requesting the license period to start on June 21 only to allow for the possibility for set up for the demo. The operation will be limited in time to the technology meeting and any necessary setup.

The demo will use spectrum and antenna parameters that the Commission has granted authorization for Ericsson to use previously.[1] We will use only one experimental 5G base station and one piece of experimental 5G mobile user equipment. We will be aiming to keep the base station and mobile unit within 50 feet of each other. (We have included a larger radius of operation of 0.1 km on the application in case we must go a bit farther than 50 feet.). Finally, the maximum EIRP will be 35 dBm. (Note that the ERP listed on the application is actually the EIRP.)

As set out below, [redacted] of the antenna, the lower power and the limited radius of operation, and the limited duration, 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: Keith Shank, 214-679-4362.

Ericsson is requesting authorization to transmit on 14.5-15.35 GHz only because the experimental equipment we will be using for the demo was designed in Sweden to operate on this spectrum.[2]

Directional Antenna Information

The base station antenna parameters will be:

Polarization: [redacted]
Horizontal HPBW: [redacted]
Vertical HPBW: [redacted]
Antenna gain: [redacted]
EIRP: $\leq$ 35 dBm
Electrical tilt: [redacted]
Mechanical tilt: [redacted]

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[1] *See, e.g.*, File No. 0666-EX-ST-2016.

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Diagram for the V-pol antenna elements: azimuth

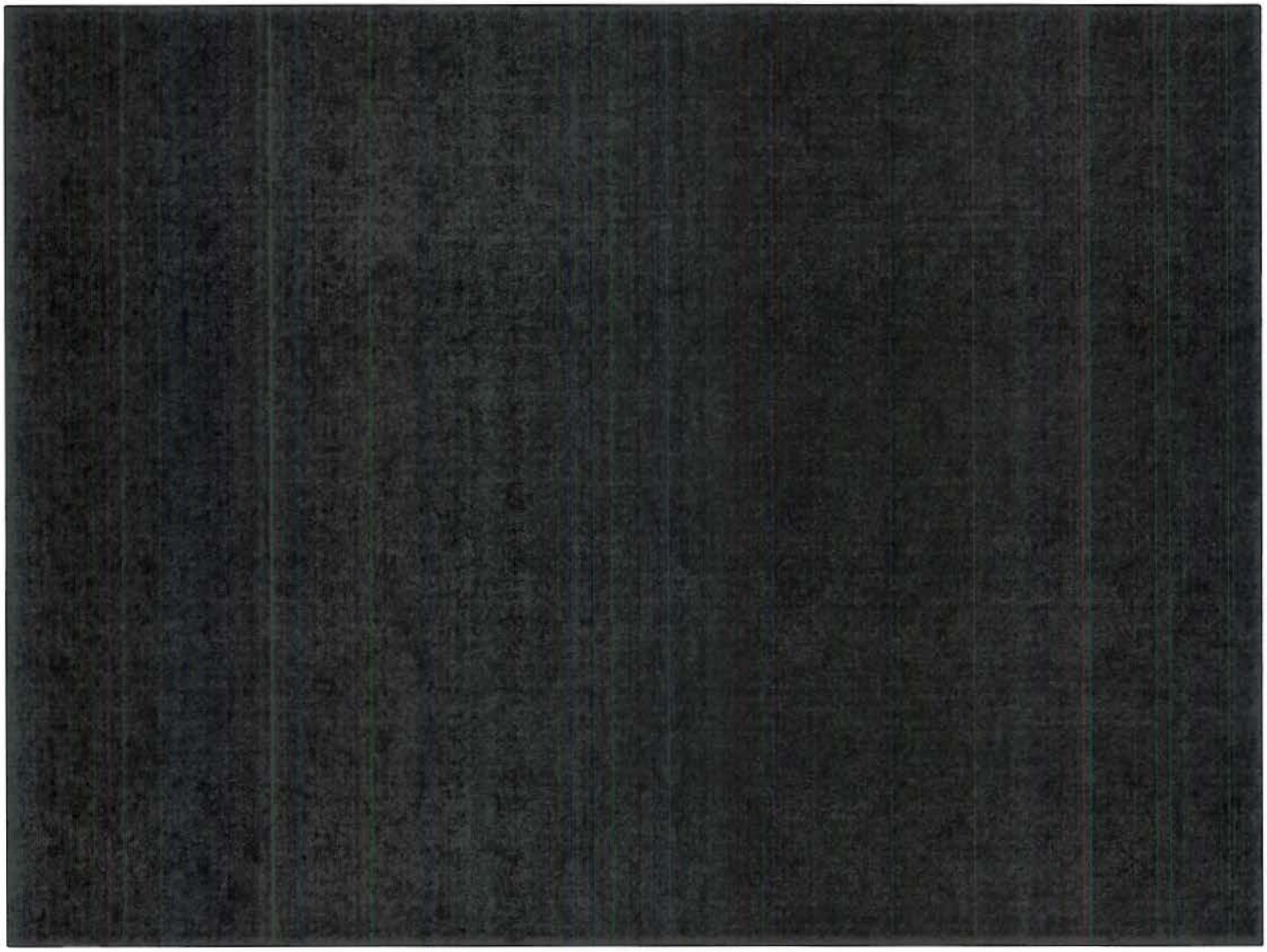

Diagram for the V-pol antenna elements: elevation.