

## **AMENDMENT TO APPLICATION**

### **File No. 1455-EX-ST-2019**

#### **Question 7 – Purpose of Experiment (Extension of Special Temporary Authorization, File No. 0439-EX-ST-2019 (Granted June 5, 2019))**

By this filing, we are amending our pending STA application (File No. 1455-EX-ST-2019) to request a four-month extension, *i.e.*, until December 31, 2019, rather than a three-month extension, of our existing authorization (File No. 0439-EX-ST-2019).

Pursuant to Part 5 of the Commission's Rules (47 C.F.R. 5.61(c)), HawkEye 360, Inc. ("HE360"), on August 8<sup>th</sup>, 2019, submitted an application (File No. 1455-EX-ST-2019) requesting authority for a one month extension, *i.e.*, until October 1, 2019, of its existing special temporary authority ("STA") (File No. 0439-EX-ST-2019, granted June 5, 2019). On September 11<sup>th</sup>, 2019, HawkEye 360, Inc. submitted an amendment to this application requesting a two-month extension of its existing authorization, *i.e.*, until November 1<sup>st</sup>, 2019. On October 14, 2019, HawkEye 360, Inc. submitted an amendment to this application requesting a two-month extension of its existing authorization, *i.e.*, until December 1<sup>st</sup>, 2019. In the previously filed STA, the FCC approved HE360's request until September 1, 2019 to communicate in certain frequencies in the S-band (space-to-Earth) from the Pathfinder experimental satellites to the HE360 Herndon, Virginia, ground station.

HE360 has been working to transition communications in the requested frequency bands to the Kongsberg Satellite Services (KSAT) ground station at Svalbard, Norway. We were on schedule to complete this transition by September 1, 2019. Unfortunately, there were unforeseen delays in the commissioning of KSAT's ground station operations that have not allowed us to complete this transition by September 1, 2019.

HE360 and KSAT have had several successful UHF/S-Band full-duplex passes at Svalbard. However, there is a ground network problem between HE360's server hosted at KSAT, and the Ettus n210 radio also hosted at KSAT Svalbard in a different building. HE360 and KSAT have ordered hardware to address the problem. This hardware arrived and has been installed. However, engineering teams are still resolving outstanding technical issues. We cannot guarantee the problems will be resolved by December 1, 2019. For this reason, out of an abundance of caution, we are amending our STA extension application (File No. 1455-EX-ST-2019) requesting a modest extension of its existing authorization until December 31, 2019.

All other parameters specified in the prior application remain the same and HE360 hereby incorporates them by reference.<sup>1</sup> HE360 has initiated coordination with the relevant federal agencies.

#### **Specific Objectives Sought to be Accomplished**

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<sup>1</sup> See ELS File Nos. 1804-EX-ST-2017 (granted Nov. 9, 2018, as revised); 1703-EX-ST-2018 (granted Nov. 9, 2018, as revised).

See Narrative Description in ELS File No. 0024-EX-CN-2017 (filed January 11, 2017).

**How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.**

See Narrative Description in ELS File No. 0024-EX-CN-2017 (filed January 11, 2017).

**Estimated Experiment Duration**

HE360 requests a modest four-month extension of its existing authorization until December 31, 2019.