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May 17, 2018

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, DC 20554

Re: HawkEye 360, Inc., IBFS File # SAT-LOA-20190102-00001, Call Sign S3042

Dear Ms. Dortch,

HawkEye 360, Inc. ("HE360") is writing to provide additional information regarding its Part 25 space station application, IBFS File # SAT-LOA-20190102-00001. Specifically, on page 3 of Exhibit A, HE360 represented that the proposed constellation and related facilities will be comprised of "possible future Earth stations inside and/or outside the United States at locations to be determined, for the purposes of increasing opportunities for data transmissions. HE360 will coordinate all non-U.S. ground stations with Federal operators in the relevant band prior to operating any such stations and requests authority for such communications subject to coordination with relevant Federal operators."¹

More specifically, HE360 intends to communicate to and from the following KSAT non-U.S. ground stations: Svalbard, Norway; Troll, Antarctica; Tromso, Norway; Punta Arenas, Chile; Awarua, New Zealand; and Hartbeesthoek, South Africa. HE360 has informed NTIA of its intent to use these facilities and has requested NTIA begin precoordination technical analysis of communications to and from the proposed constellation to these ground stations. Communications to and from these ground stations will be in all X-Band and S-Band frequencies requested for payload and spacecraft TT&C communications. The KSAT earth station coordinates and relevant frequencies are specified in the attached exhibit.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Rob Rainhart", written over a horizontal line.

Mr. Rob Rainhart
E.V.P. of Engineering and Product

CC: Stephen Duall, Policy Branch Chief, International Bureau Satellite Division

¹ Exhibit A, HawkEye 360 Inc., Response to Question 43, FCC Form 412, IFBS File # SAT- LOA-20190102-00001(January 2, 2019).

Exhibit

Constellation Downlink, Uplink, and KSAT Ground Station Information

HawkEye 360 Constellation Downlink Information								
Link Name	Satellite # in each cluster	Center Frequencies (MHZ)	Bandwidth (MHz)	Tx Ant Gain (dBi)	Transmit Power (W)	EIRP (dBW)	ES Rx Gain (dBi)	ES Temp (K)
X-Band Primary Payload DL	Sat 1	8075.000	80	10.4	2	11.91	48.71	159.96
X-Band Primary Payload DL	Sat 2	8165.000	80	10.4	2	11.91	48.71	159.96
X-Band Primary Payload DL	Sat 3	8255.000	80	10.4	2	11.91	48.71	159.96
X-Band Primary Payload DL	Sat 4	8345.000	80	10.4	2	11.91	48.71	159.96
X-Band TTC DL	Sat 1	8291.000	4	4.1	0.55	-0.65	44.42	161.65
X-Band TTC DL	Sat 2	8297.000	4	4.1	0.55	-0.65	44.42	161.65
X-Band TTC DL	Sat 3	8303.000	4	4.1	0.55	-0.65	44.42	161.65
X-Band TTC DL	Sat 4	8309.000	4	4.1	0.55	-0.65	44.42	161.65
S-Band Emerg TTC DL	Sat 1	2236.000	4	6	0.45	2.03	33.21	142.3
S-Band Emerg TTC DL	Sat 2	2242.000	4	6	0.45	2.03	33.21	142.3
S-Band Emerg TTC DL	Sat 3	2254.000	4	6	0.45	2.03	33.21	142.3
S-Band Emerg TTC DL	Sat 4	2260.000	4	6	0.45	2.03	33.21	142.3

HawkEye 360 Constellation Uplink Information								
Link Name	Satellite # in each cluster	Center Frequencies (MHZ)	Bandwidth (MHz)	Each ES Transmit Power (W)	ES Transmit Gain (dBi)	Transmit EIRP (dBW)	Rx Ant Gain (dBi)	Rx Ant Noise Temp (K)
S-Band Primary Payload UL	Sat 1	2068.200	2.66	14.7	36.3	44.82	6	1081.04
S-Band Primary Payload UL	Sat 2	2062.700	2.66	14.7	36.3	44.82	6	1081.04
S-Band Primary Payload UL	Sat 3	2077.400	2.66	14.7	36.3	44.82	6	1081.04
S-Band Primary Payload UL	Sat 4	2072.000	2.66	14.7	36.3	44.82	6	1081.04
S-Band TTC UL	Sat 1	2063.965	0.12	25	31.7	44.22	6	759.84
S-Band TTC UL	Sat 2	2064.965	0.12	25	31.7	44.22	6	759.84
S-Band TTC UL	Sat 3	2065.965	0.12	25	31.7	44.22	6	759.84
S-Band TTC UL	Sat 4	2065.465	0.12	25	31.7	44.22	6	759.84
S-Band High Speed TTC UL	Sat 1	2063.965	0.18	210	31.7	53.46	6	1784.89
S-Band High Speed TTC UL	Sat 2	2064.965	0.18	210	31.7	53.46	6	1784.89
S-Band High Speed TTC UL	Sat 3	2065.965	0.18	210	31.7	53.46	6	1784.89
S-Band High Speed TTC UL	Sat 4	2065.465	0.18	210	31.7	53.46	6	1784.89

KSAT Earth Stations

Earth stations	Svalbard, Norway	Tromso, Norway	Troll, Antarctica	Punta Arenas, Chile	Awarua, New Zealand	Hartbeesthoek, South Africa
Latitude (N)	78.2307	69.6625				
Latitude (S)			72.0014	52.9361	46.5289	25.8844
Longitude (E)	15.3897	18.9403	2.5256		168.3811	27.8844
Longitude (W)				70.8697		