



INTELSAT.

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January 27, 2020

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

Re: Request for Special Temporary Authority to Operate New Ku-band Earth Station in Motion Antennas

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests Special Temporary Authority (“STA”)¹ for 60 days, commencing February 17, 2020, to utilize 150 new Earth Station in Motion (ESIM) Ku-band antennas (collectively, the “ESIM Antennas”), within the United States and its territories to communicate with Intelsat satellites in order to provide customer service.² Fifty of the proposed ESIM Antennas are Kymeta u7 flat panel antennas, fifty are GetSat Millisat Wide flat panel antennas, and the other fifty are GetSat Millisat High flat panel antennas. The ESIM Antennas will operate in motion on terrestrial vehicles. Intelsat will be seeking permanent authority to use these antennas.

The proposed operations will be performed in the following frequency bands: 14000-14500 MHz (Earth-to-space) and 11700-12200 MHz (space-to-Earth). The Kymeta antenna has a transmit gain of 34.5 dBi at 14000-14500 MHz, and a receive gain of 33 dBi at 11700-12200 MHz. The total EIRP for all carriers will be 48.4 dBW. The GetSat Millisat Wide antenna has a transmit gain of 30 dBi at 14000-14500 MHz and a receive gain of 29.4 dBi at 11700-12200 MHz. The total EIRP for all carriers will be 47 dBW. The GetSat Millisat High antenna has a transmit gain of 30 dBi at 14000-

¹ Intelsat has filed this STA request, an FCC Form 159, and a \$210.00 filing fee electronically via the International Bureau’s Filing System.

² The satellite used by each individual ESIM Antenna is determined by the location of the antenna and satellite availability. Both factors, antenna location and satellite, are unique to each antenna and may change over the course of the STA period. As such, Intelsat is seeking to communicate with its fleet of satellites in order to support customer service on the ESIM Antennas. The proposed operations will be consistent with all applicable coordination agreements.

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14500 MHz and a receive gain of 29.4 dBi at 11700-12200 MHz. The total EIRP for all carriers will be 47 dBW.

The 24x7 contact information for the requested operations is as follows:

Ph.: (404) 589-3360 – Intelsat Secure Operations Center

Request to speak with Jerry Funk.

In further support of this request, Intelsat attaches a Radiation Hazard Report for each antenna type. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its ESIM Antennas, Intelsat will take all reasonable steps to eliminate the interference.

Grant of this STA request will serve the public interest by enabling Intelsat to provide new customer service.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

/s/ Cynthia J. Grady

Cynthia J. Grady
Senior Counsel
Intelsat US LLC

cc: Paul Blais