

November 17, 2015

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

Re: Request for Special Temporary Authority  
Hagerstown, Maryland Earth Station KA258

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days, commencing December 20, 2015, to use its Hagerstown, Maryland Ku-band earth station—call sign KA258—to provide launch and early orbit phase (“LEOP”) services for the Express AMU1 satellite. Express AMU1 is expected to be launched on December 20, 2015.<sup>2</sup> The LEOP period is expected to last approximately 10 days.<sup>3</sup>

The Express AMU1 LEOP operations will be performed in the following frequencies: 17301.5 MHz and 17303.0 MHz in the uplink (RCHP or LCHP), and 11700.2 MHz and 11702.5 MHz in the downlink (RCHP or LCHP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>4</sup> All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the Express AMU1 mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)  
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat hereby attaches Exhibits A and B, which contain technical information demonstrating that the operation of the earth station will be compatible with its

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<sup>1</sup> Intelsat has filed its STA request, an FCC Form 159, a \$195.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

<sup>2</sup> The permanent orbital location for Express AMU1, which Intelsat understands is licensed by the Russian Federation, will be at 36° E.L. The in-orbit testing location will be 69.5° E.L.

<sup>3</sup> Intelsat is seeking authority for 30 days to accommodate a possible launch delay.

<sup>4</sup> Airbus, the manager of the Express AMU1 mission, will handle the coordination.

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electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility, and a waiver request. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference. Intelsat also notes that for purposes of the Express AMU1 LEOP mission, it is seeking to operate in the frequencies listed in this request at power levels not to exceed 22.9 dBW.

Finally, Intelsat clarifies that during the Express AMU1 launch, Airbus will serve as the mission manager. Airbus will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to Airbus. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the Express AMU1 satellite. This, in turn, will help provide service continuity and expansion in the Russian Federation and sub-Saharan Africa. Grant of this STA therefor promotes the public interest.

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

Respectfully submitted,



Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Paul Blais