

June 6, 2018

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

Re: Request for Special Temporary Authority  
Riverside, California Earth Station E060384

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests an additional 30 days of Special Temporary Authority (“STA”)<sup>1</sup> previously granted Intelsat to use its Riverside, California Ku-band earth station—call sign E060384—to provide telemetry, tracking, and command (“TT&C”) services for Intelsat 5 (Call Sign S2704) during its drift from 156.9° E.L. to 137.0° W.L.<sup>2</sup> and on station at 137.0° W.L.<sup>3</sup> Intelsat 5 arrived at 137.0° W.L. on May 30, 2018.

TT&C operations will continue to be performed in the following frequencies: 14498 MHz (H) and 13999 MHz (RHCP) in the uplink; and 11451 MHz (H, V, and RHCP), 11452 MHz (H, V, and RHCP), and 11454 MHz (RHCP, and LHCP) in the downlink. On-station at 137.0° W.L., Intelsat will continue to operate in conformance with FCC rules and any relevant coordination agreements.

In further support of this request, Intelsat incorporates by reference Exhibits A-D submitted with its original STA request, which contain technical information that demonstrates that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility, or into Federal systems operating in the 13.75-14.00 GHz band. To provide sufficient interference protection to U.S. Navy shipboard radiolocation operations, Intelsat will continue to operate based on the table provided below for uplink operation in

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<sup>1</sup> Intelsat has filed its STA request, an FCC Form 159, a \$200.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

<sup>2</sup> Intelsat originally intended to redeploy Intelsat 5 to 93.2° W.L. See *Policy Branch Information; Actions Taken*, Report No. SAT-01311, File No. SAT-STA-20180410-00027 (Apr. 20, 2018) (Public Notice). When the FCC recently made available for reassignment the C-band frequencies at 137° W.L., Intelsat filed to modify the authorization for the Intelsat 5 satellite to instead redeploy it to 137.0° W.L. Intelsat has also filed two STAs in support of the new redeployment. See *Intelsat License LLC, Modification of authorization to Redeploy to, and Operate Intelsat 5 (S2704) at, 137.0 W.L.*, File No. SAT-MOD-20180501-00036 (filed May 1, 2018); See *Policy Branch Information; Actions Taken*, Report No. SAT-01314, File No. SAT-STA-20180502-00039 (May 11, 2018) (Public Notice); See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-01316, File No. SAT-STA-20180502-00040 (May 11, 2018) (Public Notice).

<sup>3</sup> Intelsat is also utilizing the following antennas on station for Intelsat 5: KL92, E140121, and KA258.

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band 13.75-14.00 GHz from Riverside, CA. Using the below mentioned power levels, the earth station's signal flux density toward the shoreline will always be less than  $-167.0 \text{ dBW/m}^2/4\text{KHz}$ . Therefore, there should be no interference to the U.S. Navy radar systems.

<i>Arc</i>	<i>Power</i>
<i>45 to 190 W</i>	<i>76 dBW</i>
<i>45 to 185 W</i>	<i>82 dBW</i>
<i>45 to 180 W</i>	<i>86 dBW</i>
<i>45 to 175 W</i>	<i>88 dBW</i>

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.

Grant of this STA extension request will allow Intelsat to continue safely station-keep Intelsat 5 at its new location. This, in turn, will help meet a new service demand at the  $137.0^\circ \text{ W.L.}$  orbital location and thereby promotes the public interest.

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

Respectfully submitted,

*/s/ Cynthia J. Grady*

Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Paul Blais