

January 22, 2013

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



Re: Request for Special Temporary Authority  
Castle Rock, Colorado Earth Station E990323

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days commencing February 1, 2013 to use its Castle Rock, Colorado Ku-band earth station -- call sign E990323 -- to provide de-orbit services for the NileSat-101 satellite that is scheduled to be de-orbited starting February 1, 2013.<sup>2</sup> The de-orbit period is expected to last approximately 14 days.<sup>3</sup>

The NileSat-101 de-orbit operations will be performed in the following frequency bands:

Uplink: 17301.0 MHz and 17302.5 MHz (CP);  
Downlink: 12498.0 MHz and 12499.0 MHz (CP).

The maximum uplink EIRP transmitted during the de-orbit operations will be 85 dBW, with an emission designator of 816KFXD. The de-orbit operations will be coordinated with all operators of satellites that use the same frequency bands and are in the de-orbit path. As such, there would be no risk of interference with respect to lawfully operating, co-frequency radiocommunication facilities. Nevertheless, 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 NileSat-101 de-orbit mission is as follows:

Ph.: (202) 944-7701 – East Coast Operations Center (primary)  
(310) 525-5900 – West Coast Operations Center (back-up)

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<sup>1</sup> Intelsat has filed its STA request, an FCC Form 159, a \$180.00 filing fee and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

<sup>2</sup> NileSat-101 is currently located at 7.0° W.L.

<sup>3</sup> Intelsat is seeking authority for 30 days to accommodate a possible delay in the de-orbit schedule.

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Request to speak with Harry Burnham or Kevin Bell.

In addition, Intelsat attaches Exhibits A and B, which contain a waiver request as well as 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. 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.

Finally, Intelsat notes that during the NileSat-101 de-orbit, the spacecraft will be controlled by Astrium, which is the satellite's manufacturer and the manager of the de-orbit mission. Astrium 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 Astrium. Intelsat will remain in control of the baseband unit, RF equipment and antenna.

Grant of this STA request will allow Intelsat to help de-orbit the NileSat-101 satellite. This, in turn, will help ensure the safety of operational geostationary satellites and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (202) 944-7848.

Respectfully submitted,



Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Paul Blais