October 2, 2017

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

Re: Application for Authority to Launch and Operate Galaxy 15R
File Nos. SAT-LOA-20170524-00078; SAT-AMD-20170613-00086

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat"), at the request of the International Bureau staff, herewith supplements its above-referenced Application to provide power flux density calculations for Ka-band.

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

Sincerely,

/s/ Cynthia J. Grady

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

Enclosure

cc: Kathyrn Medley
Jay Whaley

**Galaxy 15R - Ka-band PFD Calculations**

| **Ka band Spot Beams** | | | | | | |
|---|---|---|---|---|---|---|
| Elevation Angle (degrees) | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 90.0 |
| Peak EIRP Density (dBW/Hz) | -16.0 | -16.0 | -16.0 | -16.0 | -16.0 | -16.0 |
| Spreading Loss (dB/$m^2$) | 163.3 | 163.2 | 163.0 | 162.9 | 162.8 | 162.1 |
| Maximum EIRP Spectral Density (dBW/$m^2$/MHz) | -119.3 | -119.2 | -119.0 | -118.9 | -118.8 | -118.1 |
| Part 2.106 Footnote US255 Limit | -118.0 | -118.0 | -118.0 | -118.0 | -118.0 | -118.0 |
| Margin (dB) | 1.3 | 1.2 | 1.0 | 0.9 | 0.8 | 0.1 |

| **Ka band Global Beam** | | | | | | |
|---|---|---|---|---|---|---|
| Elevation Angle (degrees) | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 90.0 |
| Peak EIRP Density (dBW/Hz) | -32.0 | -32.0 | -32.0 | -32.0 | -32.0 | -32.0 |
| Spreading Loss (dB/$m^2$) | 163.3 | 163.2 | 163.0 | 162.9 | 162.8 | 162.1 |
| Maximum EIRP Spectral Density (dBW/$m^2$/MHz) | -135.3 | -135.2 | -135.0 | -134.9 | -134.8 | -134.1 |
| Part 2.106 Footnote US255 Limit | -118.0 | -118.0 | -118.0 | -118.0 | -118.0 | -118.0 |
| Margin (dB) | 17.3 | 17.2 | 17.0 | 16.9 | 16.8 | 16.1 |