

Applicant: Intelsat Licensee LLC, as debtor-in-possession  
Call Sign: E120106  
File No.: SES-STA-20210713-01037  
Special Temporary Authority ("STA")

Intelsat Licensee LLC, as debtor-in-possession ("Intelsat") is granted Special Temporary Authority for 60 days, beginning August 26, 2021, to operate 400 earth station aboard aircraft antennas ("ESAA") in the Fixed Satellite Service to communicate with geostationary orbit satellites Galaxy 16 (Call Sign S2687) at orbital location 99°W and Galaxy 18 (Call Sign S2733) at orbital location 123°W to provide customer service within the CONUS and OCONUS. Operations will be in-flight and on the tarmac with Ku-band frequencies 14000-14500 MHz (Earth-to-space) and 11700-12200 MHz (space-to-Earth) under the following conditions:

1. Operations of the ESAA models: 0.24m Aerosat HR6400 and 0.7 m ThinKom 2Ku ANTENNA are on an unprotected and non-harmful interference basis. Intelsat must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.
2. Operations shall be with digitally modulated emission designators and emission carriers that are authorized under space stations Galaxy 16 and Galaxy 18's current license.
3. Operations shall comply with 47 C.F.R. § 25.218(f) with respect to Galaxy 16 and Galaxy 18.
4. Operations shall comply with 47 C.F.R. § 25.228 (a-c), (g), (i), (j) with respect to Galaxy 16 and Galaxy 18's current operations.
5. Operation pursuant to this authorization must be in compliance with 47 C.F.R. § 25.228(j) the terms of Intelsat's coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration pertaining to operation of ESAAs in the Ku-Band.
6. Intelsat must take all necessary measures to ensure that the operation authorized does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

7. Intelsat must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. Intelsat Secure Operational Center, Phone: +1 404-381-2727, email: ISOC@intelsatgeneral.com  
Primary Point of Contact: Angela Wheeler, Manager, Network Operations, Phone: +1 404-381-2727.
8. Stations authorized herein must not be used to provide air traffic control communications.
9. ESAA (Ku-band frequencies only) on the ground must not transmit at elevation angles less than three degrees pursuant to 47 C.F.R. § 25.205(b).
10. NG527A Earth Stations in Motion (ESIMs), as regulated under 47 CFR part 25, are an application of the fixed-satellite service (FSS) and the following provisions shall apply:
  - (a) In the bands 10.7-11.7 GHz ESIMs may be authorized for the reception of FSS emissions from geostationary and non-geostationary satellites, subject to the conditions that these earth stations may not claim protection from transmissions of non-Federal stations in the fixed service and that non-geostationary-satellite systems not cause unacceptable interference to, or claim protection from, geostationary-satellite networks.
11. The licensee shall not operate in the band 14.0-14.2 GHz within 125 kilometers (km) of the NASA TDRSS facilities in Blossom Point, Maryland (latitude 38° 25' 44" N.L., longitude 77° 05' 02" W.L.), unless and until the licensee enters into an agreement with NASA that NTIA has approved. The licensee must conform its operation with the Commission within 30 days of execution.
12. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat's risk.
13. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending SES-MFS-20210714-01040 or future Intelsat's applications.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective upon release.