

Applicant: Intelsat Licensee LLC, as debtor-in-possession
Call Sign: No Call Sign
File No.: SES-STA-20210201-00198
Special Temporary Authority (“STA”)

Intelsat Licensee LLC, as debtor-in-possession (“Intelsat”) is granted Special Temporary Authority for 60 days, commencing February 25, 2021, to conduct antenna performance testing on thirty SD ATMA 0.23-m Ku-Band airplane-mounted Earth Station in Motion (“ESIM”) antennas in the Fixed Satellite Service within the United States and its territories to communicate with geostationary orbit Intelsat satellites and Hispasat 143W-1 (S3058) satellite at orbital location 143°W and in order to provide customer service. Operations of the ESIM antennas will be in-flight and on the tarmac on Ku-band frequencies 14000-14500 MHz (Earth-to-space), and 10700 – 11700 MHz (space-to-Earth) and 11700-12200 MHz (space-to-Earth) under the following conditions:

1. Operations 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 that range from 300KG7W to 9M00G7W with maximum 6.9 dBW/4kHz on 14000 MHz, 7.2 dBW/4kHz on 14500 MHz.
3. Operations shall comply with 47 C.F.R. § 25.228 (a-c), (g), (i).
4. Operations shall comply with 47 C.F.R. § 25.218 (f)(1).
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 [ww.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. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat's risk.
12. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending 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.