



File # SES-STA-20170627-00691

Call Sign E120106 Grant Date 6/28/2017
(or other identifier)

Term Dates
From 6/28/2017 To: 7/28/2017

Approved: *Paul E. Ryan*

Applicant: AC BidCo LLC
Call Sign: E120106
File No.: SES-STA-20170627-00691
Special Temporary Authority

AC BidCo LLC (AC BidCo) is granted special temporary authority for 30 days, beginning on June 28, 2017, to operate up to 100 earth stations aboard aircraft (ESAAs) (0.24 meter AeroSat model HR6400) and up to 100 ESAAs terminals (0.74 meter ThinKom, model 2KuAntenna) to communicate with the AMC-4 satellite (Call Sign ⁵³⁴³⁵¹⁰⁴ ~~S2347~~) at the 85° W.L. orbital location in the 14-14.5 GHz (Earth-to-space) and 11.45-11.7 GHz and 11.7-12.2 GHz (space-to-Earth) frequency bands on the following conditions:

1. Operations are on an unprotected and non-harmful interference basis. AC BidCo must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.
2. Operation pursuant to this authorization must be in compliance with the terms of AC BidCo's coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration pertaining to operation of ESAAs in the Ku-Band.
3. Operation pursuant to this authorization outside the United States in the 14.0-14.5 GHz band must be in compliance with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band.
4. When operating in international airspace within line-of-sight of the territory of a foreign administration where Fixed Service networks have a primary allocation in the 14.0-14.5 GHz band, an ESAA must not operate in a manner that would produce predicted ground-level power flux density (pfd) in such territory in excess of the following values unless the foreign administration has imposed other conditions for protecting its FS stations: $-132 + 0.5 \times \text{THETA}$ dB(W/(mA² MHz)) for $\text{THETA} \leq 40$; -112 dB(W/(mA² MHz)) for $40 < \text{THETA} \leq 90$ g. Where: THETA is the angle of arrival of the radio-frequency wave in degrees above the horizontal, and the aforementioned limits relate to the pfd and angles of arrival that would be obtained under free space propagation conditions.
5. Operation pursuant to this authorization must conform to the terms of coordination agreements between the satellite operators within six angular degrees of AMC-4.
6. AC BidCo 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. AC BidCo has specified the following contact information: +1 866-943-4662 and noc@AC BidCoair.com.

7. Stations authorized herein must not be used to provide air traffic control communications.
8. AC BidCo shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.
9. In connection with the provision of service in any particular country, AC BidCo is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
10. Grant of this authorization is without prejudice to any determination that the Commission may make regarding AC Bidco's pending or future applications.
11. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at AC BidCo's risk.
12. 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 immediately. Petitions for reconsideration under Section 1.106 or applications for review under Sections 1.115 of the Commission's rules, 47 C.F.R. § 1.106; 1.115, may be filed within thirty days of the date of the public notice indicating that this action was taken.