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APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
AC BidCo E120106 STA Extension Request for AMC-1 at 130.9 WL Jan 2018

1. Applicant

<b>Name:</b>	AC BidCo LLC	<b>Phone Number:</b>	312-517-5566
<b>DBA Name:</b>		<b>Fax Number:</b>	
<b>Street:</b>	111 N Canal St., Suite 1500	<b>E-Mail:</b>	melias@gogoair.com
<b>City:</b>	Chicago	<b>State:</b>	IL
<b>Country:</b>	USA	<b>Zipcode:</b>	60606 -
<b>Attention:</b>	Marguerite Elias		



60 days "with conditions"

File # SES-STA-20180126-00066

Call Sign E120106 Grant Date 02/09/2018  
(or other identifier)

Term Dates  
From: 02/03/2018 To: 04/04/2018

Approved: Paul E. New

SECRET

CLASSIFICATION: \_\_\_\_\_  
EXEMPT FROM: \_\_\_\_\_ IC: \_\_\_\_\_  
(SI OF 1952) (SI OF 1952)  
CEN 2000 CEN 2000  
DATE: \_\_\_\_\_

Applicant: AC BidCo LLC  
Call Sign: E120106  
File No.: SES-STA-20180126-00066  
Special Temporary Authority



File # SES-STA-20180126-00066

Call Sign E120106 Grant Date 02/01/2018  
(or other identifier)

Term Dates

From: 02/03/2018 To: 04/04/2018

Approved: [Signature]

AC BidCo LLC (AC BidCo) is granted extension of special temporary authority for 60 days, beginning on February 4, 2018, to operate up to 20 earth stations aboard aircraft (ESAAs) (0.24 meter AeroSat model HR6400) to communicate with the AMC- I satellite (Call Sign S2445) during and after its relocation from 129.15° W.L. to 130.9° W.L., using the following frequency bands: 14000 - 14500 MHz (Earth-to-space) and 11700-12200 MHz (space-to-Earth). Operations must be in accordance with the relevant technical limits specified in its current E120106 authorization are subject to 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 14.00-14.50 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 14.47-14.50 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 14.00-14.50 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/(mA<sup>2</sup> MHz)) for  $\text{THETA} \leq 40$ ;  $-112$  dB(W/(mA<sup>2</sup> 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 operator of AMC- I and operators of other Ku-band geostationary satellites within six angular degrees of AMC- I (call sign 2445). In the event that another GSO Fixed-Satellite Service (FSS) space station commences operation in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, ESAAs operating pursuant to this temporary authority shall cease transmitting unless and until such operation has been coordinated with the new space station's operator or AC BidCo demonstrates that such operation will not cause harmful interference to the new co-frequency space station.

6. AC BidCo 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. The licensee shall ensure installation of terminals on aircraft by qualified installers who have an understanding of the antenna's radiation environment and the measures best suited to maximize protection of the general public and persons operating the aircraft and equipment. A terminal exhibiting radiation exposure levels exceeding 1.0 mW/cm<sup>2</sup> in accessible areas, such as at the exterior surface of the radome, shall have a label attached to the surface of the terminal warning about the radiation hazard and shall include thereon a diagram showing the regions around the terminal where the radiation levels could exceed 1.0 mW/cm<sup>2</sup>.

7. 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](mailto:noc@AC BidCoair.com).

8. Stations authorized herein must not be used to provide air traffic control communications.

9. For each ESAA transmitter AC BidCo shall maintain records of the following data for each operating ESAA, a record of the aircraft location (i.e., latitude/longitude/altitude), transmit frequency, channel bandwidth and satellite used shall be time annotated and maintained for a period of not less than one year. Records shall be recorded at time intervals no greater than one (1) minute while the ESAA is transmitting. The ESAA operator shall make this data available, in the form of a comma delimited electronic spreadsheet, within 24 hours of a request from the Commission, NTIA, or a frequency coordinator for purposes of resolving harmful interference events. A description of the units (i.e., degrees, minutes, MHz) in which the records values are recorded will be supplied along with the records.

10. ESAA operations in the Ku-band frequencies on the ground must not transmit at elevation angles less than three degrees. 47 C.F.R. § 25.205(b).

11. AC BidCo shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.

12. 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.

13. Grant of this authorization is without prejudice to any determination that the Commission may make regarding AC BidCo's pending or future applications.

<b>2. Contact</b>	
<b>Name:</b> Karis Hastings	<b>Phone Number:</b> 202-599-0975
<b>Company:</b> SatCom Law LLC	<b>Fax Number:</b>
<b>Street:</b> 1317 F Street, N.W. Suite 400	<b>E-Mail:</b> karis@satcomlaw.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20004 -
<b>Attention:</b>	<b>Relationship:</b> Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number SESMFS2017122001351 or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification    CGB – Mobile Satellite Earth Stations	
5. Type Request	
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date 02/03/2018	
7. CityMobile	8. Latitude (dd mm ss.s h) 0 0 0.0







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## **12. Description**

AC BidCo LLC respectfully requests a 60-day extension of the special temporary authority it was granted in File No. SES-STA-20171127-01278 to allow ESAA terminals to continue to communicate in the conventional Ku-band frequencies with the AMC-1 satellite, call sign S2445, at 130.9 deg. W.L. Continuing authority is sought pending action on a modification application seeking to add AMC-1 at 130.9 W.L. as an authorized point of communication, File No. SES-MFS-20171220-01351. AC BidCo incorporates by reference the supporting materials submitted in File No. SES-STA-20171127-01278.