IB2016001907

3060-0678 Approved by OMB

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu: STA Extension for AMC-6 @ 72WL (August 2016)

1. Applicant	icant				
	Name:	Row 44 Inc.	Phone Number:	310-437-6000	
	DBA Name:	,	Fax Number:		
	Street:	c/o Global Eagle Entertainment Inc.	E–Mail:	smclellan@geemedia.com	
<u> </u>		4553 Glencoe Avenue, Suite 300			
	City:	Marina Del Rey	State:	CA	
	Country:	USA	Zipcode:	90292 –	
	Attention:	Mr Simon McLellan			



Applicant: Row 44, Inc

Call Sign: None

File No.: SES-STA-20160822-00733

Special Temporary Authority (STA)



Call Sign Grant Date & 24-16
(or other identifier)

Term Dates

Approved:

Row 44, Inc is granted special temporary authority for a period of 30 days, beginning August 25, 2016, to operate its, 0.62 meter TECOM Ku-Stream antenna, earth stations aboard aircraft (ESAA) to communicate with the AMC-6 satellite (S2347) at the 72° W/L. orbital location using the 14.05 to 14.47 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands. Operations must be in accordance with the technical specifications contained in Row 44, Inc.'s application and are subject to the following conditions:

- 1. Operations under this grant of special temporary authority must be on an un-protected, non-harmful interference basis, i.e., while operating under this temporary authority Row 44, Inc. must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating radiocommunication system. Row 44, Inc. must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.
- 2. ESAA operations in the 14.2-14.47 GHz band shall not exceed the EIRP density limits specified in the current earth station authorization, Call Sign E080100, IBFS File No. SES-MFS-20150424-00270.
- 3. Operation pursuant to this authorization outside the United States in the 14.2-14.47GHz 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 aircraft earth station must not produce 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 x THETA dB(W/(m/\2 MHz)) for THETA <= 40° ; -112 dB(W/(m/\2 MHz)) for 40° < THETA <= 90° . 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. Operations pursuant to this authorization must conform to the terms of coordination agreements between the operator of the AMC-6 satellite (S2347) and operators of other Kuband geostationary satellites within six angular degrees of the AMC-6 satellite (S2347). In the event that another GSO Fixed-Satellite Service (FSS) space station commences operations in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, aircraft earth stations operating pursuant to this temporary authority shall cease transmitting to that space station unless and until such operation has been coordinated with the new space station's operator or Row 44, Inc. demonstrates that such operation will not cause interference to the new cofrequency space station.

- 6. Row 44, Inc. must take all necessary measures to ensure that the antenna 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 wherever such exposures might occur. 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/oetlrfsafety) 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/cm² 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/cm².
- 7. Row 44, Inc. 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. The licensee shall have available, at all times, the technical personnel necessary to perform supervision of remote station operations.
- 8. Aircraft earth stations authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
- 9. Aircraft earth stations authorized herein must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each aircraft earth station to determine if it is malfunctioning, and each aircraft earth station must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed-satellite service network.
- 10. Stations authorized herein must not be used to provide air traffic control communications.
- 11. Operation in the territory or airspace of any country other than the United States must be in compliance with the applicable laws, regulations, and licensing procedures of that country, as well as with the conditions of this authorization.
- 12. For each ESAA transmitter, Row 44, Inc. must maintain records of the following data: 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.

- 13. Antenna elevation for all operations must be at least 5 degrees above the geographic horizon while the aircraft is on the ground.
- 14. Row 44, Inc. must comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.
- 15. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending of future applications or future requests for special temporary authority.
- 16. Operations during the period o July 22, 2016 to the grant of this authorization were authorized pursuant to 47 C.F.R. §1.62.
- 17. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Row 44, Inc.'s risk.

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.

2. Contact			
Name:	David S. Keir	Phone Number:	202-429-8970
Company:	Lerman Senter PLLC	Fax Number:	202-293-7783
Street:	2001 L Street, NW	E–Mail:	dkeir@lermansenter.com
	Suite 400		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -4946
Attention:		Relationship:	Legal Counsel
(If your application is related to an application. Please enter only one.) 3. Reference File Number SESSTA	If your application is related to an application filed with the Commissi application. Please enter only one.) 3. Reference File Number SESSTA2016052000445 or Submission ID	ommission, enter either the file nuission ID	(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 SESSTA2016052000445 or Submission ID
4a. Is a fee submitted If Yes, complete and	4a. Is a fee submitted with this application? If Yes, complete and attach FCC Form 159. If No, indica	If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).	7 C.F.R.Section 1.1114).
O Governmental Entity	y O Noncommercial educational licensee	censee	
Other(please explain):	u):		
4b. Fee Classification	CGX - Fixed Satellite Transmit/Receive Earth Station	ve Earth Station	
5. Type Request			
Use Prior to Grant	Change S	O Change Station Location	Other
6. Requested Use Prior Date 08/25/2016	Date		
7. City		8. Latitude (dd mm ss.s h) 0 0	0.0

		in its entirety.)	commencing on AMC-6 at 3-2 satellite			IPRISONMENT LTION 503).
0.0	Attachment 3:	he form to view it	d of 30 days ent capacity ck to the AM		bn	TINE AND / OR IN TON AUTHORIZ, e, Title 47, Section
10. Longitude (dd mm ss.s h) 0 0 (<i>A</i>	(If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)	thority for an additional period of 30 days commencing interim basis using space segment capacity on AMC-6 at the transition of operations back to the AMC-2 satellit See Attached Narrative.	certifies that neither applicant nor any other party to the application is that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act se of a conviction for possession or distribution of a controlled substance. If of "party to the application" for these purposes.	15. Title of Person Signing Chief Engineer	WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).
10. Lo (dd m	7:	ar in this box, plea	ty for an additiona rim basis using spa ransition of operat Attached Narrative.	pplicant nor any o lefits pursuant to S possession or dist e application&quo	15. Ti	HS FORM ARE I D/OR REVOCAT), AND/OR FORI
	Attachment 2:	ion does not appe	porary authoriate on an interetion of the task WL. See	fies that neither a includes FCC ber f a conviction for "party to th		IS MADE ON TI ection 1001), AN Section 312(a)(1)
	eed attachments. tory Stmt	e complete descript	tem Oper Ompl	the undersigned certiced cardial benefits that ition 862, because of for the meaning of the the meaning of the the meaning of	ning	ALSE STATEMENT S. Code, Title 18, S J.S. Code, Title 47,
9. State	 Please supply any need attachments Attachment 1: Explanatory Stmt 	12. Description. (If th	Request for special August 25, 2016 to o 72WL to allow the co at its new location	13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of " party to the application" for these purposes.	14. Name of Person Signing Simon McLellan	WILLFUL FA (U.) (L

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FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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EXPLANATORY STATEMENT

Row 44, Inc., pursuant to Section 25.120(b) of the FCC's Rules, hereby requests Special Temporary Authority ("STA") for an additional thirty (30) days to operate its licensed Ku-band network of Earth Stations Aboard Aircraft ("ESAA") (Call Sign E080100), using space segment capacity on the SES, S.A. ("SES") AMC-6 satellite ("AMC-6") at 72° W.L. The capacity on AMC-6 is being used on an interim basis as replacement capacity for space segment on the AMC-2 satellite, which has been relocated from 80.85° W.L. to 84.85° W.L. Row 44 is in the process of transferring traffic back to AMC-2 at its new location. Row 44 has now been granted permanent authority to use capacity on AMC-2 at 84.85° W.L. (FCC File Nos. SES-AFS-20160614-00506 and SES-MFS-20150928-00635, granted August 19, 2016).

Row 44 has been transmitting to AMC-6 since May 23, 2016 without causing any interference into adjacent satellites operating in accordance with FCC's two-degree spacing policy. It has previously provided a coordination certification letter from SES, in accordance with Sections 25.227(b)(2) of the Commission's Rules, covering the interim operation, which is also fully consistent with its coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration.

Under Section 25.120(b)(1) of the FCC's Rules, the International Bureau may grant an STA when the public interest supports the relief requested, and/or delay in the institution of temporary operations would be contrary to the public interest. See 47 C.F.R. § 25.120(b)(1). Such authority may be granted for a period not to exceed 30 days "if the STA request has not been placed on public notice, and an application for regular authority is not contemplated." See 47 C.F.R. § 25.120(b)(4). Because Row 44 will not be filing an application for permanent access to AMC-6 at 72° W.L., its request is thus limited to thirty (30) days duration. Row 44 anticipates that operations using AMC-6 will continue for just a few more weeks, which may mean that no further STA extensions will be required.

Grant of the additional authority requested here will promote the public interest by permitting Row 44 to continue providing service to its customers using capacity on the AMC-6 satellite as it completes is transition of traffic back to AMC-2. Use of AMC-6 will help maintain effective coverage of all U.S. domestic routes currently served by Row 44. Grant of the requested STA is consistent with Commission policy and will not adversely affect other authorized operations. Row 44 acknowledges that any action taken pursuant to a grant of the requested STA will be at its own risk, and respectfully requests that the FCC grant it authority as of August 25, 2016, for an additional period of thirty (30) days, to use the AMC-6 satellite as a point of communication in the conventional Ku-band in the United States using TECOM antennas now operating under its FCC ESAA network license.