

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for 30-Day STA Using Fillmore, CA Earth Station E4132 to Provide LEOP Services for Telkom-4 Satellite

1. Applicant

Name:	Intelsat License LLC	Phone Number:	703-559-7848
DBA Name:		Fax Number:	703-559-8539
Street:	c/o Intelsat US LLC 7900 Tysons One Place	E-Mail:	susan.crandall@intelsat.com
City:	McLean	State:	VA
Country:	USA	Zipcode:	22102 -5972
Attention:	Susan H. Crandall		



File # SES-STA-20180716-01791
E4132 Grant Date 7-31-18
Call Sign (or other identifier)
Term Dates
From: 8-1-18 To: 8-31-18
Approved: [Signature]

2. Contact	
Name: Cynthia J. Grady	Phone Number: 703-559-6949
Company: Intelsat US LLC	Fax Number: 703-559-8539
Street: 7900 Tysons One Place	E-Mail: cynthia.grady@intelsat.com
City: McLean	State: VA
Country: USA	Zipcode: 22102 -5972
Attention:	Relationship: 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 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 CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant	<input type="radio"/> Change Station Location <input checked="" type="radio"/> Other
6. Requested Use Prior Date	
7. City/Fillmore	8. Latitude (dd mm ss.s h) 34 24 22.0 N

9. State CA	10. Longitude (dd mm ss.s h) 118 53 34.0 W
11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Exhibit A Attachment 3: Exhibit B	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px;"> <p>Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing August 1, 2018, to use its Fillmore, California C-band earth station, call sign E4132, to provide launch and early orbit phase services for the Telkom-4 satellite. Telkom-4 is expected to launch on August 1, 2018.</p> </div>	
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. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Cynthia J. Grady	15. Title of Person Signing Regulatory Counsel, Intelsat US LLC
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).	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.



INTELSAT

Envision. Connect. Transform.

July 16, 2018

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: Request for Special Temporary Authority
Fillmore, California Earth Station E4132

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 30 days, commencing August 1, 2018, to use its Fillmore, California C-band earth station—call sign E4132—to provide launch and early orbit phase (“LEOP”) services for the Telkom-4 satellite. Telkom-4 is expected to launch on August 1, 2018.² Intelsat expects the LEOP period to last approximately 30 days.

The Telkom-4 LEOP operations will be performed at the following frequencies: 5926.0 MHz and 6424.0 MHz (LHCP, Linear) in the uplink, and 4199.875 MHz and 3701.75 MHz (RHCP, Linear) in the downlink. The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.³ All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the Telkom-4 LEOP mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat herewith attaches Exhibits A and B, which contain a coordination report and waiver requests. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference.

¹ Intelsat has filed its STA request, FCC Form 159, a \$200.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² The permanent orbital location and in-orbit testing location for Telkom-4, which Intelsat understands is licensed by Indonesia, will be 108.0° E.L.

³ SSL, the manager of the Telkom-4 LEOP mission, will handle the coordination.

Ms. Marlene H. Dortch
July 16, 2018
Page 2

Finally, Intelsat clarifies that during the Telkom-4 launch, SSL will control the spacecraft. SSL will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to SSL. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the Telkom-4 satellite. This, in turn, will help provide services to Indonesia and neighboring areas from the 108.0° E.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-7848.

Respectfully submitted,

Cynthia J. Grady
Cynthia J. Grady
Regulatory Counsel
Intelsat US LLC

cc: Paul Blais

Prepared By

COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC
Fillmore, California**

Temporary Transmit-Only Earth Station
Operation Dates: 08/07/2018 - 09/06/2018

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations. Verbal and written coordination was conducted with the below listed carriers on June 04, 2018.

Company

ABC Holding Company Inc.
AT&T Mobility Spectrum LLC - N CA
AT&T Mobility Spectrum LLC - Southern CA
Air Sites 2000 LLC
American Tower, LLC
Anaheim City, of
Arizona Public Service Company (APS)
BNS Electronics, Inc.
CCO SoCal I, LLC
California Internet Solutions, Inc.
California Internet, L.P.
California Resources Corporation
California, State of
Calvary Chapel of Costa Mesa
City of Los Angeles Dept Water & Power
City of Montebello
Coast Community College District
Communication Services, Inc.
Conterra Ultra Broadband, LLC
DM Ventures, Inc. dba Warp2Biz
Entravision Holdings, LLC
Exxon Communications Company
Federal Communication Commission
Fresno MSA Limited Partnership
Frontier California Inc.
Frontier Communications of the Southwest
GTE Mobilnet of Santa Barbara LTD Ptsh
Glendale City California
Global Telecom & Technology Americas, In
Go Creative Wireless
GovNET Licenses LLC
ION Media Los Angeles License, Inc.
KTLA, LLC

Kern Ed Telecom Consortium
Kern, County of
LDM Engineering
Los Angeles City Info Technology Agency
Los Angeles County Dept of Public Works
Los Angeles County FCC Licensing Section
Los Angeles County Metro Transit Auth
Los Angeles Regional Interoperable Comm
Los Angeles SMSA Ltd. Partnership
Los Angeles Unified School District
MHO Networks
Metropolitan Water Dist of So California
Mobile Relay Associates Inc.
New Cingular Wireless PCS LLC - AZ
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS, LLC - SE Cal
Nextel License Holdings 4 Inc.
Nextel of California Inc.
Nextweb Inc
Northrop Grumman Systems Corp.
Nrj TV La License Co, LLC
Olympic Wireless, LLC
Orange, County of, CA
Pacific Bell Tel Com dba AT&T California
Pacific Lightwave Inc
Regents of the University of California
Riverside, County of
San Bernardino County of California
San Diego Broadband
San Diego Gas & Electric Company
Santa Barbara Cellular Systems, Ltd.
Santa Barbara, County of
Sentinel Peak Resources California LLC
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
Spectrum Link, Inc.
T-Mobile License LLC
TV Microwaves Company
Turn Wireless, LLC
Ultimate Internet Access, Inc
Union Pacific Railroad Company
University of California, HPWREN
Vectus, Inc
Ventura, County of
Verizon Wireless (VAW) LLC (Southern CA)
Verizon Wireless (VAW) LLC-N CA/NV
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT
Wiline Spectrum Holdings LLC
Wisprenn

There are no unresolved interference objections with the station contained in these applications.

The following section presents the data pertinent to frequency coordination of the earth station that was circulated to all carriers within its coordination contours.

COMSEARCH
Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 06/04/2018
Job Number: 180604COMSGE04

Administrative Information

Status TEMPORARY (Operation from 08/07/2018 to 09/06/2018)
Call Sign TEMP09
Licensee Code INTELS
Licensee Name Intelsat License LLC

Site Information **FILLMORE, CA**

Venue Name
Latitude (NAD 83) 34° 24' 22.0" N
Longitude (NAD 83) 118° 53' 34.0" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 331.09 m / 1086.3 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 45.6° W to 192.2° West Longitude
Azimuth Range 99.6° to 260.4°
Corresponding Elevation Angles 5.1° / 5.0°
Antenna Centerline (AGL) 8.23 m / 27.0 ft

Antenna Information **Transmit - FCC32**

Manufacturer Scientific-Atlanta
Model 3311
Gain / Diameter 53.8 dBi / 10.0 m
3-dB / 15-dB Beamwidth 0.40° / 0.60°

Max Available RF Power (dBW/4 kHz) 10.7
(dBW/MHz) 34.7

Maximum EIRP (dBW/4 kHz) 64.5
(dBW/MHz) 88.5

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information **Transmit 6.1 GHz**

Emission / Frequency Range (MHz) 1M00FXD / 5926.0
1M00FXD / 6424.0

Max Great Circle Coordination Distance 541.5 km / 336.5 mi
Precipitation Scatter Contour Radius 392.5 km / 243.9 mi

Coordination Values	FILLMORE, CA
Licensee Name	Intelsat License LLC
Latitude (NAD 83)	34° 24' 22.0" N
Longitude (NAD 83)	118° 53' 34.0" W
Ground Elevation (AMSL)	331.09 m / 1086.3 ft
Antenna Centerline (AGL)	8.23 m / 27.0 ft
Antenna Model	S-A 10 meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	10.7 (dBW/4 kHz)

Transmit 6.1 GHz				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	9.23	99.59	-10.00	100.00
5	10.68	94.61	-10.00	100.00
10	11.53	89.63	-10.00	100.00
15	9.69	84.65	-10.00	100.00
20	7.91	79.64	-10.00	100.00
25	9.98	74.69	-10.00	100.00
30	9.81	69.70	-10.00	100.00
35	10.40	64.75	-10.00	100.00
40	10.04	59.75	-10.00	100.00
45	9.30	54.74	-10.00	100.00
50	8.25	49.70	-10.00	100.00
55	7.02	44.66	-9.25	100.00
60	8.47	39.75	-7.98	100.00
65	9.70	34.90	-6.57	100.00
70	9.19	29.89	-4.89	100.00
75	8.53	24.86	-2.89	100.00
80	7.11	19.73	-0.38	103.34
85	5.27	14.63	2.87	134.08
90	4.58	9.64	7.40	165.38
95	5.46	4.65	15.32	199.18
100	4.77	0.47	40.28	532.24
105	3.79	5.08	14.34	217.45
110	3.63	9.18	7.93	187.86
115	2.67	13.72	3.57	186.71
120	2.31	17.83	0.72	180.94
125	1.52	22.14	-1.63	190.60
130	2.21	25.42	-3.13	162.39
135	2.38	28.89	-4.52	151.68
140	2.46	32.24	-5.71	144.70
145	2.77	35.22	-6.67	134.63
150	2.42	38.43	-7.62	137.78
155	2.83	40.74	-8.25	129.00
160	2.84	42.99	-8.83	126.82
165	3.34	44.34	-9.17	116.52
170	2.95	46.01	-9.57	121.98
175	2.90	46.86	-9.77	122.15
180	2.60	47.42	-9.90	127.20
185	2.02	47.72	-9.97	136.80

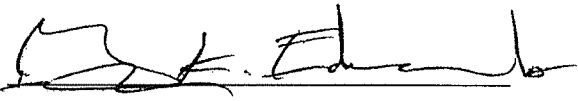
Coordination Values	FILLMORE, CA
Licensee Name	Intelsat License LLC
Latitude (NAD 83)	34° 24' 22.0" N
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Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	10.7 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	2.12	46.80	-9.76	135.63
195	0.87	46.57	-9.70	176.38
200	0.26	45.15	-9.37	217.84
205	0.93	42.25	-8.65	177.99
210	0.65	39.75	-7.98	195.37
215	0.87	36.59	-7.08	188.09
220	0.00	33.92	-6.26	238.35
225	0.00	30.45	-5.09	243.99
230	0.00	26.83	-3.72	250.20
235	0.00	23.09	-2.08	258.72
240	0.00	19.24	-0.11	269.64
245	0.00	15.33	2.36	284.22
250	0.00	11.35	5.63	305.06
255	0.00	7.37	10.31	338.21
260	0.00	5.06	14.40	541.53
265	0.00	6.84	11.13	344.32
270	0.00	10.85	6.11	308.46
275	0.92	15.18	2.47	227.86
280	1.16	19.99	-0.52	204.69
285	2.42	24.75	-2.84	158.57
290	4.00	29.64	-4.80	121.11
295	3.78	34.64	-6.49	118.53
300	4.19	39.63	-7.95	106.62
305	3.71	44.64	-9.24	109.54
310	3.07	49.65	-10.00	118.00
315	2.67	54.65	-10.00	125.50
320	2.97	59.64	-10.00	119.83
325	4.02	64.62	-10.00	101.25
330	5.35	69.62	-10.00	100.00
335	6.18	74.62	-10.00	100.00
340	6.77	79.62	-10.00	100.00
345	7.57	84.62	-10.00	100.00
350	7.96	89.62	-10.00	100.00
355	8.29	94.61	-10.00	100.00

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

BY:


Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: June 25, 2018

Exhibit B

PETITION FOR WAIVER OF SECTIONS 25.137 AND 25.114

Pursuant to Section 25.137 of the Federal Communications Commission's ("Commission" or "FCC") rules, earth station applicants "requesting authority to communicate with a non-U.S. licensed space station" to serve the United States must demonstrate that U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services in certain countries and must provide the same legal and technical information for the non-U.S.-licensed space station as required by Section 25.114 for U.S.-licensed space stations.¹ Intelsat License LLC ("Intelsat") herein seeks authority to provide launch and early orbit phase ("LEOP") services—not commercial services—to the United States, and thus believes that Section 25.137 does not apply.²

To the extent the Commission determines, however, that Intelsat's request for authority to provide LEOP services on a special temporary basis is a request to serve the United States with a non-U.S.-licensed satellite, Intelsat respectfully requests a waiver of Sections 25.137 and 25.114 of the Commission's rules.³ The Commission may grant a waiver for good cause shown.⁴ The Commission typically grants a waiver where the particular facts make strict compliance inconsistent with the public interest.⁵ In granting a waiver, the Commission may take into account considerations of hardship, equity, or more effective implementation of overall policy on an individual basis.⁶ Waiver is therefore appropriate if special circumstances warrant a deviation from the general rule, and such a deviation will serve the public interest.

In this case, good cause exists for a waiver of both Section 25.137 and Section 25.114 of the FCC's rules. With respect to Section 25.114, Intelsat seeks authority only to provide LEOP services for the Telkom-4 satellite. The information sought by Section 25.114 is not relevant to LEOP services. Moreover, Intelsat does not have—and would not easily be able to obtain—such information because Intelsat is not the operator of the Telkom-4 satellite. Intelsat has a contract with SSL, the manufacturer of the Telkom-4 satellite, to conduct LEOP services.

¹ 47 C.F.R. § 25.137.

² See *EchoStar Satellite Operating Company Application for Special Temporary Authority Related to Moving the EchoStar 6 Satellite from the 77° W.L. Orbital Location to the 96.2° W.L. Orbital Location, and to Operate at the 96.2° W.L. Orbital Location*, Order and Authorization, 28 FCC Rcd. 4229 (2013) (noting that operating TT&C earth stations in the United States with a foreign-licensed satellite does not constitute "DBS service").

³ 47 C.F.R. §§ 25.137 and 25.114.

⁴ 47 C.F.R. § 1.3.

⁵ *N.E. Cellular Tel. Co. v. FCC*, 897 F.2d 1164, 1166 (D.C. Cir. 1990) ("*Northeast Cellular*").

⁶ *WAIT Radio v. FCC*, 419 F.2d 1153, 1159 (D.C. Cir. 1969); *Northeast Cellular*, 897 F.2d at 1166.

The information required under Section 25.114 of the FCC's rules is not necessary to determine potential harmful interference. The Schedule S information for this satellite would pertain to the operation of the Telkom-4 satellite at its final orbital location. However, the present application for LEOP services involves communications *prior* to the satellite attaining its final location in the geostationary orbit. In other words, during the LEOP mission, the earth station will not be communicating with a satellite located in the geostationary orbit. Rather, it will be transmitting to a satellite traveling on its "transfer orbit" or "LEOP path," which starts immediately following its separation from a launch vehicle, and ends when the satellite reaches its geostationary orbital location. Moreover, as with any STA, Intelsat will perform the LEOP services on a non-interference basis.

Because it is not relevant to the service for which Intelsat seeks authorization, and because obtaining the information would be a hardship, Intelsat seeks a waiver of all the information required by Section 25.114 of the Commission's rules. Intelsat has provided in this STA request the required technical information that is relevant to the LEOP services for which Intelsat seeks authorization.

Good cause also exists to waive Section 25.137 of the agency's rules. Section 25.137 is designed to ensure that "U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services" in other countries.⁷ Here, there is no service being provided by the satellite; it is simply being placed in its orbital location after separating from the launch vehicle. Thus, the purpose of Section 25.137 would not be served by applying these rules to LEOP services. For example, Section 25.137(d)(4) requires earth station applicants requesting authority to operate with a non-U.S.-licensed space station that is not in orbit and operating to post a bond.⁸ The underlying purpose of Section 25.137(d)(4)—to provide parity between U.S.-licensed and non-U.S.-licensed commercial satellite systems in discouraging orbital location warehousing—would not be served by requiring Intelsat to post a bond to provide approximately 30 days of LEOP services to the Telkom-4 satellite.

It is Intelsat's understanding that Telkom-4 is licensed by Indonesia, which is a WTO-member country. Thus, the purpose of Section 25.137—to ensure that U.S. satellite operators enjoy "effective competitive opportunities" to serve certain foreign markets—will not be undermined by grant of this waiver request.

Finally, Intelsat notes that it expects to operate with the Telkom-4 satellite using its U.S. earth station for a period of approximately 30 days. Requiring Intelsat to obtain copious technical and legal information from an unrelated party, where there is no risk of harmful interference and the operations will cease after approximately 30 days, would pose undue hardship without serving underlying policy objectives. Given these particular facts, the waiver sought herein is plainly appropriate.

⁷ 47 C.F.R. § 25.137(a).

⁸ See 47 C.F.R. §25.137(d)(4).

Applicant: Intelsat License LLC
Call Sign: E4132
File No.: SES-STA-20180716-01791
Special Temporary Authority (STA)

Intelsat License LLC is granted STA, for 30 days, commencing August 1, 2018 to provide launch and early orbit phase ("LEOP") services in the 5926.0 MHz and 6424.0 MHz frequencies (LHCP, Linear) (Earth-to-space) and in the 4199.875 MHz and 3701.75 MHz frequencies (RHCP, Linear) (space-to-Earth) for the Indonesia licensed Telkom-4 satellite at its permanent orbital location 108.0° E from geographical coordinates 34° 24' 22.0" N, 118° 53' 34.0" W in Fillmore, Georgia. The services will be under the following conditions:

1. LEOP operations will be using the coordinated emission carrier 1M00FXD, eirp, and eirp density.
2. Operations, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
3. In the event of any harmful interference under this grant of STA, Intelsat License LLC must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
4. The LEOP operations must be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs. Currently the 24x7 contact information for the SES-12 satellite LEOP mission is as follows: Ph.: (703) 559-7701 - East Coast Operations Center (primary); (310) 525-5591 - West Coast Operations Center (back-up). Request to speak with Harry Burnham or Kevin Bell.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
6. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat License LLC'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.



File # SES-STA-20180716-01791
E4132
Call Sign _____ Grant Date 7-31-18
(or other identifier)
From: 8-1-18 Term Dates To: 8-31-18
Approved: [Signature]