

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 to Use Fillmore, CA Earth Station E4132 to Provide LEOP Services for Horizons 3e (S2947) Satellite

1. Applicant

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

30 days
"With conditions"

File # SES-GTA-20180828-02507

Call Sign E4132 Grant Date 09/18/2018
(or other identifier)

Term Dates

From: 09/18/2018 To: 10/18/2018

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 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:	
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 September 18, 2018, to use its Fillmore, California C-band earth station, call sign E4132, to provide launch and early orbit phase services for Horizons 3e (S2947). Horizons 3e is expected to be launched on September 18, 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"; 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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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.

Applicant: Intelsat License LLC
Call Sign: E4132
File No.: SES-STA-20180828-02507
Special Temporary Authority

Intelsat License LLC is granted Special Temporary Authority, for 30 days, commencing September 18, 2018, to provide launch and early orbit phase ("LEOP") services in the 5850.0-5853.5 MHz and 6421.5-6425.0 MHz frequencies (LHCP/V) (Earth-to-space) and in the 4197.75 MHz, 4198.25 MHz, 4198.75 MHz, and 4199.25 MHz frequencies (LHCP/V) (space-to-Earth) for the Horizon 3e satellite at its permanent orbital location 169.0° E from Fillmore, California at graphical coordinates 34° 24' 22.0" N, 118° 53' 34.0" W. The services will be under the following conditions:

1. LEOP operations will be using the coordinated emission carrier 850KFXD-1M20FXD, 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-20180828-02507

Call Sign E4132 Grant Date 09/18/2018
(or other identifier)

Term Dates
From: 09/18/2018 To: 10/19/2018

Approved: Paul E. Tracy

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: 09/05/2018 - 11/29/2018

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 July 5, 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 University, Northridge
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: 07/05/2018
Job Number: 180705COMSGE05

Administrative Information

Status: TEMPORARY (Operation from 09/05/2018 to 11/29/2018)
Call Sign: TEMP11
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: 10 meter
Gain / Diameter: 53.8 dBi / 10.0 m
3-dB / 15-dB Beamwidth: 0.40° / 0.60°

Max Available RF Power (dBW/4 kHz): 10.9
(dBW/MHz): 34.9

Maximum EIRP (dBW/4 kHz): 64.7
(dBW/MHz): 88.7

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): 850KFXD - 1M20FXD / 5850.0 - 5853.5
850KFXD - 1M20FXD / 6421.5 - 6425.0

Max Great Circle Coordination Distance: 543.9 km / 337.9 mi
Precipitation Scatter Contour Radius: 396.3 km / 246.2 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	10.9 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			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	104.16
85	5.27	14.63	2.87	134.89
90	4.58	9.64	7.40	168.11
95	5.46	4.65	15.32	200.33
100	4.77	0.47	40.28	534.66
105	3.79	5.08	14.34	218.62
110	3.63	9.18	7.93	188.91
115	2.67	13.72	3.57	187.70
120	2.31	17.83	0.72	181.94
125	1.52	22.14	-1.63	191.55
130	2.21	25.42	-3.13	163.38
135	2.38	28.89	-4.52	152.60
140	2.46	32.24	-5.71	145.55
145	2.77	35.22	-6.67	135.39
150	2.42	38.43	-7.62	138.56
155	2.83	40.74	-8.25	129.72
160	2.84	42.99	-8.83	127.54
165	3.34	44.34	-9.17	117.24
170	2.95	46.01	-9.57	122.76
175	2.90	46.86	-9.77	122.93
180	2.60	47.42	-9.90	127.98
185	2.02	47.72	-9.97	137.59

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	10.9 (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	136.42
195	0.87	46.57	-9.70	177.31
200	0.26	45.15	-9.37	218.70
205	0.93	42.25	-8.65	178.89
210	0.65	39.75	-7.98	196.23
215	0.87	36.59	-7.08	188.98
220	0.00	33.92	-6.26	239.30
225	0.00	30.45	-5.09	244.97
230	0.00	26.83	-3.72	251.22
235	0.00	23.09	-2.08	259.79
240	0.00	19.24	-0.11	270.78
245	0.00	15.33	2.36	285.44
250	0.00	11.35	5.63	306.52
255	0.00	7.37	10.31	339.69
260	0.00	5.06	14.40	543.90
265	0.00	6.84	11.13	345.83
270	0.00	10.85	6.11	309.81
275	0.92	15.18	2.47	228.88
280	1.16	19.99	-0.52	205.60
285	2.42	24.75	-2.84	159.54
290	4.00	29.64	-4.80	121.87
295	3.78	34.64	-6.49	119.28
300	4.19	39.63	-7.95	107.36
305	3.71	44.64	-9.24	110.28
310	3.07	49.65	-10.00	118.78
315	2.67	54.65	-10.00	126.28
320	2.97	59.64	-10.00	120.61
325	4.02	64.62	-10.00	102.04
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: July 24, 2018



INTELSAT

Envision. Connect. Transform.

August 28, 2018

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 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 September 18, 2018, to use its Fillmore, California C-band earth station—call sign E4132—to provide launch and early orbit phase (“LEOP”) services for Horizons 3e (S2947). Horizons 3e is expected to be launched on September 18, 2018.² The LEOP period is expected to last approximately 30 days.

The proposed operations will be performed using the following frequencies and frequency bands: 6421.5-6425.0 MHz, and 5850.0-5853.5 MHz in the uplink (LHCP/V); and 4197.75 MHz, 4198.25 MHz, 4198.75 MHz and 4199.25 MHz in the downlink (LHCP/V). 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 Horizons 3e 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.

¹ Intelsat has filed its STA request, an 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 for Horizons 3e will be at 169.0° E.L. *See Policy Branch Information; Actions Taken*, Report No. SAT-01313, File No. SAT-MOD-20170622-00093 (April 27, 2018) (Public Notice). The in-orbit testing location will be 164.0° E.L.

³ Intelsat will handle the coordination.

Ms. Marlene H. Dortch
August 28, 2018
Page 2

In further support of this request, Intelsat herewith attaches Exhibit A, which contains technical information that demonstrates that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility. 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.

Grant of this STA request will allow Intelsat to help launch the Horizons 3e satellite. This, in turn, will help provide additional capacity to customers at the 169.0° E.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

/s/ Cynthia J. Grady

Cynthia J. Grady
Regulatory Counsel
Intelsat US LLC

cc: Paul Blais