

IB2012000531

SES-STA-20120208-00154

E4132
Intelsat License LLC

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for Special Temporary Authority Using Fillmore, California Earth Station E4132

1. Applicant


Name:	Intelsat License LLC	Phone Number:	202-944-7848
DBA Name:		Fax Number:	202-944-7870
Street:	c/o Intelsat Corporation 3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H. Crandall		

SES-STA-20120208-00154
E4132
Call Sign: E4132
(or other identifier)
Grant Date: 2-15-12
Term Date: 1-7-2016
From: 3-21-12
Appr: Paul E. Hall

Intelsat License LLC
E4132
SES-STA-20120208-00154
Special Temporary Authority

Intelsat is granted, under the following conditions, Special Temporary Authority for 30 days, from March 21, 2012 through April 20, 2012 to use its Fillmore, California C-band earth station, call sign E4132, to provide launch and early orbit phase (LEOP) services to the Intelsat 22 satellite at its permanent orbital location 72.1° E.L. The satellite is expected to be launched on March 21, 2012.

1. Uplink to Intelsat 22 @72.1° E.L. on 5850.5 and 6424.5 MHz (LHCP/H) within coordinated emission and power limits.
2. Downlink from Intelsat 22 @72.1° E.L. on 4197.25 MHz, 4197.75 MHz, 4198.25 MHz, and 4198.75 MHz (LHCP/V) .
3. 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 Intelsat 22 LEOP mission is as follows: Ph.: (202) 944-7701 - East Coast Operations Center (primary); (310) 525-5900 - West Coast Operations Center (back-up). Request to speak with Harry Burnham or Kevin Bell Munion.
4. All operations shall be on an unprotected and non-harmful interference basis, Intelsat License LLC, E4132, 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.

 FEDERAL BUREAU OF COMMUNICATIONS	SES-STA-20120208-00154	
	Call Sign	Grant Date
	E4132	2-16-12
	(or other identifier)	
From	Term Dates	
3-21-12	Yes 4-20-12	
Approved	Paul E. Hayes	

2. Contact

Name: Susan H. Crandall **Phone Number:** 202-944-7848
Company: Intelsat Corporation **Fax Number:** 202-944-7870
Street: 3400 International Drive, N.W. **E-Mail:** susan.crandall@intelsat.com
City: Washington **State:** DC
Country: USA **Zipcode:** 20008 -3006
Attention: Susan H. Crandall **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?

If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity Noncommercial educational licensee

Other (please explain):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant Change Station Location 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 starting March 21, 2012 to use its Fillmore, California C-band earth station, call sign E4132, to provide launch and early orbit phase services to the Intelsat 22 satellite that is expected to be launched on March 21, 2012.</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 Susan H. Crandall	15. Title of Person Signing Asst. General Counsel, Intelsat Corporation
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

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 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 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 DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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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.

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/Receive Earth Station
Operation Dates: 03/01/2012 - 06/02/2012

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 January 13, 2012.

Company

ANAHEIM CITY, COMMUNICATIONS DIVISION
AT&T California
AirSites2000, LLC
American Tower, LLC
BNSF Railway Company
Bishop Union High School
CALVARY CHAPEL OF COSTA MESA
CCO SoCal I, LLC
CNG Communications, Inc.
COAST COMMUNITY COLLEGE DISTRICT
California, State of
Cellco Partnership - California
Chevron USA Inc.
Coachella Valley Water District
Cox Communications - San Diego Mkt
Ducor Telephone Company
Exxon Communications Company
Federal Communications Commission
Fresno MSA Limited Partnership
Fresno, County of
GTE Mobilnet of California LTD Partnersh
GTE Mobilnet of Santa Barbara LTD Ptnsh
Global Enterprise Solutions DRS Defense
Goff, Wayne C.
KERN COMMUNITY COLLEGE DISTRICT BAKERSFI
KERN COUNTY SUPERINTENDENT OF SCHOOLS
KERN ED TELECOM CONSORTIUM
KTLA INC
Kern, County of
Kings County Office of Education
LOS ANGELES CITY WATER & POWER
LOS ANGELES UNIFIED SCHOOL DISTRICT

Company (Continued)

Los Angeles City Info Technology Agency
Los Angeles County Dept of Public Works
Los Angeles County FCC Licensing Section
Los Angeles SMSA Ltd. Partnership
METROPOLITAN AREA NETWORKS, INC.
MOBILE RELAY ASSOCIATES INC
MONTEBELLO CITY CALIFORNIA
Metropolitan Water Dist of So California
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS -PNW Region
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS LLC -San Diego
New Cingular Wireless PCS, LLC (was WWC)
Nextel of California Inc.
Nextweb Inc
OCCIDENTAL OF ELK HILLS INC
ORANGE, COUNTY OF, CA
Pacific Gas and Electric Company
Paramount Farming Company, LLC.
Plains Exploration & Production Company
QUALCOMM INC.
Regents of the University of California
Regional 3Cs
Riverside, County of
SAN DIEGO, CITY OF
SAN LUIS OBISPO COUNTY
SKYRIVER COMMUNICATIONS INC
SOUTHERN CALIFORNIA REGIONAL RAIL AUTH.
Sacramento Valley Limited Partnership
San Bernardino County of California
San Diego County
San Diego Gas & Electric Company
Santa Barbara Cellular Systems, Ltd.
Southern California Edison Company
Southern California Gas Company
T-Mobile License LLC
TULARE, COUNTY OF
TV MICROWAVES CO
Turn Wireless, LLC
University of California,HPWREN
Ventura, County of
Verizon California Inc.
Verizon Wireless (VAW) LLC (CA)
Vintage Production California LLC
WWC License L.L.C. - California
Western Pacific Mobile Microwave
Western Technical Services

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

The following section presents the data pertinent to frequency coordination of the proposed 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: 01/26/2012
Job Number: 120113COMSJC05

Administrative Information

Status: TEMPORARY (Operation from 03/01/2012 to 06/02/2012)
Call Sign: TEMP06
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

FILLMORE, CALIFORNIA
Venue Name:
Latitude (NAD 83): 34° 24' 22.0" N
Longitude (NAD 83): 118° 53' 37.4" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 313.94 m / 1030.0 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Modulation: Analog and Digital
Minimum Elevation Angle: 5.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 8.23 m / 27.0 ft

Antenna Information

	Receive	Transmit
Manufacturer	Scientific-Atlanta	Scientific-Atlanta
Model	10.3 Meter	10.3 Meter
Gain / Diameter	50.5 dBi / 10.3 m	53.8 dBi / 10.3 m
3-dB / 15-dB Beamwidth	0.40° / 1.00°	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) 88.0
		(dBW) 88.0
Interference Objectives:	Long Term -156.0 dBW/MHz 20%	-154.0 dBW/4 kHz 20%
	Short Term -146.0 dBW/MHz 0.01%	-131.0 dBW/4 kHz
	0.0025%	

Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	262KFXD / 4197.25 262KFXD / 4197.75 262KFXD / 4198.25 262KFXD / 4198.75	850KFXD / 5850.5 850KFXD / 6424.5
Max Great Circle Coordination Distance	465.6 km / 289.3 mi	347.9 km / 216.2 mi
Precipitation Scatter Contour Radius	350.4 km / 217.7 mi	325.4 km / 202.2 mi

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

Coordination Values	FILLMORE, CA		
Licensee Name	Intelsat License LLC		
Latitude (NAD 83)	34° 24' 22.0" N		
Longitude (NAD 83)	118° 53' 37.4" W		
Ground Elevation (AMSL)	313.94 m / 1030.0 ft		
Antenna Centerline (AGL)	8.23 m / 27.0 ft		
Antenna Model	Scientific-Atlanta 10.3 Meter		
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz 20%
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	10.9 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	9.45	76.90	-10.00	373.70	-10.00	256.40
5	9.81	73.28	-10.00	373.70	-10.00	256.40
10	11.84	70.32	-10.00	373.70	-10.00	256.40
15	10.91	66.54	-10.00	373.70	-10.00	256.40
20	12.89	64.07	-10.00	373.70	-10.00	256.40
25	13.83	61.45	-10.00	373.70	-10.00	256.40
30	11.05	56.89	-10.00	373.70	-10.00	256.40
35	11.05	53.97	-10.00	373.70	-10.00	256.40
40	11.16	51.36	-10.00	373.70	-10.00	256.40
45	12.08	49.66	-10.00	373.70	-10.00	256.40
50	12.02	47.53	-10.00	373.70	-10.00	256.40
55	12.02	45.80	-10.00	373.70	-10.00	256.40
60	11.89	44.32	-10.00	373.70	-10.00	256.40
65	10.13	41.66	-10.00	373.70	-10.00	256.40
70	10.13	41.15	-10.00	373.70	-10.00	256.40
75	10.13	41.13	-7.96	386.60	-7.96	269.20
80	8.91	40.41	-4.20	410.40	-4.20	292.90
85	8.91	41.41	0.77	441.80	0.77	324.20
90	6.32	40.56	4.53	456.60	4.53	347.90
95	6.32	42.59	4.53	456.60	4.53	347.90
100	6.32	45.00	4.53	456.60	4.53	347.90
105	6.35	47.76	4.53	456.60	4.53	347.90
110	5.84	50.44	4.53	456.60	4.53	347.90
115	4.00	52.69	4.53	456.60	4.53	347.90
120	2.01	55.33	4.53	456.60	4.53	347.90
125	1.94	59.11	4.53	456.60	4.53	347.90
130	2.44	63.20	4.53	456.60	4.53	347.90
135	2.62	67.23	4.53	456.60	4.53	347.90
140	2.67	71.27	4.53	456.60	4.53	347.90
145	2.87	75.38	4.53	456.60	4.53	347.90
150	2.62	79.46	4.53	456.60	4.53	347.90
155	3.19	83.65	4.53	456.60	4.53	347.90
160	2.85	87.77	4.53	456.60	4.53	347.90
165	3.52	91.91	4.53	456.60	4.53	347.90
170	3.28	96.04	4.53	456.60	4.53	347.90
175	3.00	100.19	4.53	456.60	4.53	347.90
180	2.53	104.38	4.53	456.60	4.53	347.90
185	2.35	108.51	4.53	456.60	4.53	347.90

COMSEARCH

Earth Station Data Sheet

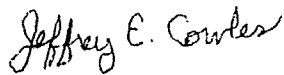
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(703)726-5500 <http://www.comsearch.com>

Coordination Values		FILLMORE, CA			
Licensee Name		Intelsat License LLC			
Latitude (NAD 83)		34° 24' 22.0" N			
Longitude (NAD 83)		118° 53' 37.4" W			
Ground Elevation (AMSL)		313.94 m / 1030.0 ft			
Antenna Centerline (AGL)		8.23 m / 27.0 ft			
Antenna Model		Scientific-Atlanta 10.3 Meter			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power				10.9 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	2.28	112.57	4.53	456.60	4.53	347.90
195	0.78	117.05	4.53	456.60	4.53	347.90
200	0.41	121.18	4.53	456.60	4.53	347.90
205	1.23	124.74	4.53	456.60	4.53	347.90
210	0.97	128.61	4.53	456.60	4.53	347.90
215	0.94	132.22	4.53	456.60	4.53	347.90
220	0.00	136.21	4.53	456.60	4.53	347.90
225	0.00	139.42	4.53	456.60	4.53	347.90
230	0.00	142.31	4.53	456.60	4.53	347.90
235	0.00	144.80	4.53	456.60	4.53	347.90
240	0.00	146.79	4.53	456.60	4.53	347.90
245	0.00	148.21	4.53	456.60	4.53	347.90
250	0.00	148.95	4.53	456.60	4.53	347.90
255	0.00	148.97	4.53	456.60	4.53	347.90
260	0.00	148.28	4.53	456.60	4.53	347.90
265	0.00	146.92	4.53	456.60	4.53	347.90
270	0.00	144.96	4.53	465.60	4.53	347.90
275	1.12	141.62	0.77	441.80	0.77	324.20
280	1.30	138.71	-4.20	410.80	-4.20	292.90
285	2.93	134.56	-7.96	386.60	-7.96	269.20
290	4.19	130.57	-10.00	373.70	-10.00	256.40
295	4.04	127.29	-10.00	373.70	-10.00	256.40
300	4.42	123.56	-10.00	373.70	-10.00	256.40
305	3.72	120.18	-10.00	373.70	-10.00	256.40
310	3.09	116.58	-10.00	373.70	-10.00	256.40
315	2.76	112.74	-10.00	373.70	-10.00	256.40
320	3.33	108.58	-10.00	373.70	-10.00	256.40
325	4.75	104.28	-10.00	373.70	-10.00	256.40
330	5.93	100.12	-10.00	373.70	-10.00	256.40
335	7.78	95.99	-10.00	373.70	-10.00	256.40
340	8.25	92.08	-10.00	373.70	-10.00	256.40
345	9.31	88.23	-10.00	373.70	-10.00	256.40
350	9.65	84.45	-10.00	373.70	-10.00	256.40
355	9.64	80.68	-10.00	373.70	-10.00	256.40

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.



Jeffrey E. Cowles
Engineer III, Telecommunications
COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, Va. 20147

DATED: January 26, 2012

February 8, 2012

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 starting March 21, 2012 to use its Fillmore, California C-band earth station -- call sign E4132 -- to provide launch and early orbit phase (“LEOP”) services to the Intelsat 22 satellite that is expected to be launched on March 21, 2012.² The LEOP period is expected to last approximately 10 days.³

The Intelsat 22 LEOP operations will be performed in the following frequency bands:

5850.5 MHz and 6424.5 MHz (uplink) (LHCP/H); and
4197.25 MHz, 4197.75 MHz, 4198.25 MHz, and 4198.75 MHz (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.⁴ All operators of

¹ Intelsat has filed its STA request, an FCC Form 159, a \$180.00 filing fee and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² The satellite’s permanent orbital location will be 72.1° E.L. *See Policy Branch Information; Satellite Space Application Accepted for Filing*, Report No. SAT-00835, File No. SAT-LOA-20110929-00193 (Jan. 13, 2012) (Public Notice). Intelsat 22’s C- and Ku-band payloads will be in-orbit tested at 63.1° E.L. and its UHF payload will be tested at 72.1° E.L. *See Intelsat License LLC Request for Special Temporary Authority*, File No. SAT-STA-20120126-00013 (filed Jan. 26, 2012).

³ Intelsat is seeking authority for 30 days to accommodate a possible launch delay.

⁴ Boeing Satellite Systems, Inc., which is the LEOP mission manager for Intelsat 22, will handle the coordination.

Ms. Marlene H. Dortch
February 8, 2012
Page 2

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 Intelsat 22 LEOP mission is as follows:

Ph.: (202) 944-7701 – East Coast Operations Center (primary)
(310) 525-5900 – West Coast Operations Center (back-up)
Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat is attaching 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 enable Intelsat to help launch the Intelsat 22 satellite. This will serve the public interest by providing replacement and new capacity at the satellite's permanent location of 72.1° E.L.

Please direct any questions regarding this STA request to the undersigned at (202) 944-7848.

Respectfully submitted,



Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

Cc: Paul Blais