

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-20110805-00916
E4132
Call Sign _____ Grant Date 8-16-11
(or other identifier) _____
From 8-26-11 Term Dates 9-24-11
Appr: Paul E. Hines



GRANTED
International Bureau

Conditions of Grant of Intelsat SES-STA-20110805-00916

Intelsat License LLC is authorized to operate the E4132, 10.3 meter antenna at Fillmore, Ca for telemetry, tracking, and control communications with the SES-2 spacecraft (permanent orbital location will be 87.0° W. L.) during its Launch and Early Orbit Phases (LEOP) beginning August 26, 2011 through September 24, 2011. Operations are authorized to be performed on the following frequency: 6423.5 MHz (LHCP) (uplink); and 3700.5 MHz and 4199.5 MHz (RHCP) (downlink) within the parameters defined in application SES-STA- SES-STA-20110805-00916 under the following conditions.

1. All operations shall be on an unprotected and non-harmful interference basis, i.e., Intelsat shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station.
2. In the event that there is a report of interference, Intelsat must immediately terminate transmissions and notify the FCC in writing.
3. Maintain the 24x7 contact for the SES-2 LEOP mission:
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.

SES-STA-20110805-00916
E4132

Call Sign E4132 Grant Date 8-16-11
(or other identifier)

From E-260-11 Term Dates 9-24-11
Appr. [Signature]

COMMUNICATIONS
REGULATORY
COMMISSION
INTERNATIONAL BUREAU

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; margin: 10px 0;">Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from August 26, 2011 through September 24, 2011, to use its Fillmore, California C-band earth station, call sign E4132, to provide launch and early orbit phase services to the SES-2 satellite that is expected to be launched on August 26, 2011.</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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
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.

Exhibit A

Prepared By

COMSEARCH

19700 Janella 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: 08/26/2011 - 11/26/2011

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 18, 2011.

Company

ANAHEIM CITY, COMMUNICATIONS DIVISION
AT&T California
AT&T Mobility Wireless Ops Hldgs- PNW Mk
AirStess2000, LLC
American Tower, LLC
BNSF Railway Company
Bishop Union High School
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
FALCON CABLEVISION, A CALIFORNIA L.P.
Federal Communications Commission
Fresno MSA Limited Partnership
Fresno, County of
GTE Mobilnet of California LTD Partnersh
GTE Mobilnet of Santa Barbara LTD Pinsh
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

Company (Continued)

LOS ANGELES CITY WATER & POWER
LOS ANGELES UNIFIED SCHOOL DISTRICT
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.
MONTEBELLO CITY CALIFORNIA
Metropolitan Water Dist of So California
NEXTEL OF CALIFORNIA INC
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS LLC -San Diego
New Cingular Wireless PCS, LLC (was WW/C)
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.
Regional 3Cs
Riverside, County of
SAN DIEGO COUNTY
SAN DIEGO, CITY OF
SAN LUIS OBISPO COUNTY
SKYRIVER COMMUNICATIONS INC
SOUTHERN CALIFORNIA REGIONAL RAIL AUTH.
San Bernardino County of California
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 (VAV) LLC (CA)
Verizon Wireless VAW LLC (OR, HI)
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: 07/27/2011
Job Number: 110718COMSJ02

Administrative Information

Status: TEMPORARY (Operation from 08/26/2011 to 11/26/2011)
Call Sign: TEMP11
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) (dBW/MHz)	10.9 34.2
Maximum EIRP	(dBW/4 KHz) (dBW/MHz) (dBW)	64.7 88.0 88.0

Interference Objectives:	Long Term	-154.0 dBW/4 KHz	20%
	Short Term	-131.0 dBW/MHz	0.01%
		0.0025%	

Frequency Information

Emission / Frequency Range (MHz)	Receive 4.0 GHz	Transmit 6.1 GHz
	180KFxD / 3700.5	850KFxD / 6423.5
	180KFxD / 4199.5	

Max Great Circle Coordination Distance	465.6 km / 289.3 mi	347.9 km / 216.2 mi
Precipitation Scatter Contour Radius	265.3 km / 164.8 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

Licensee Name: **FILLMORE, CA**
 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

Interference Objectives: Long Term: 20% Transmit 6.1 GHz
 Short Term: -152.0 dBW/MHz 0.01% -154.0 dBW/4 KHz 20%
 -131.0 dBW/MHz 10.9 (dBW/4 KHz) -131.0 dBW/4 KHz 0.0025%
 Max Available RF Power

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	9.46	76.90	-10.00	373.70	-10.00	256.40
5	9.82	73.29	-10.00	373.70	-10.00	256.40
10	11.85	70.32	-10.00	373.70	-10.00	256.40
15	10.92	66.54	-10.00	373.70	-10.00	256.40
20	12.90	64.07	-10.00	373.70	-10.00	256.40
25	13.86	61.47	-10.00	373.70	-10.00	256.40
30	11.04	56.88	-10.00	373.70	-10.00	256.40
35	11.06	53.98	-10.00	373.70	-10.00	256.40
40	11.15	51.35	-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	12.03	45.81	-10.00	373.70	-10.00	256.40
60	11.89	44.32	-10.00	373.70	-10.00	256.40
65	10.11	41.64	-10.00	373.70	-10.00	256.40
70	10.13	41.15	-10.00	373.70	-10.00	256.40
75	10.10	41.10	-7.96	386.60	-7.96	269.20
80	8.88	40.38	-4.20	410.40	-4.20	292.90
85	8.89	41.39	0.77	441.80	0.77	324.20
90	6.31	40.55	4.53	456.60	4.53	347.90
95	6.30	42.57	4.53	456.60	4.53	347.90
100	6.30	44.99	4.53	456.60	4.53	347.90
105	6.32	47.74	4.53	456.60	4.53	347.90
110	5.84	50.44	4.53	456.60	4.53	347.90
115	3.99	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	2.70	67.25	4.53	456.60	4.53	347.90
140	2.67	71.27	4.53	456.60	4.53	347.90
145	2.73	75.36	4.53	456.60	4.53	347.90
150	2.63	79.46	4.53	456.60	4.53	347.90
155	3.07	83.64	4.53	456.60	4.53	347.90
160	2.85	87.77	4.53	456.60	4.53	347.90
165	3.41	91.91	4.53	456.60	4.53	347.90
170	3.29	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

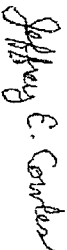
COMSEARCH
Earth Station Data Sheet
 19700 Janelia Farm Boulevard, Ashburn, VA 20147
 (703)726-5500 <http://www.comsearch.com>

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	-152.0 dBW/MHz	-154.0 dBW/4 KHz
	Short Term	-131.0 dBW/MHz	-131.0 dBW/4 KHz
Max Available RF Power		20%	20%
		0.01%	0.0025%
		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)
185	2.35	108.51	4.53	456.60	4.53	347.90
190	2.29	112.57	4.53	456.60	4.53	347.90
195	0.78	117.05	4.53	456.60	4.53	347.90
200	0.26	121.23	4.53	456.60	4.53	347.90
205	1.27	124.72	4.53	456.60	4.53	347.90
210	0.97	128.61	4.53	456.60	4.53	347.90
215	0.87	132.26	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	2.87	134.60	-7.96	386.60	-7.96	269.20
290	4.19	130.57	-10.00	373.70	-10.00	256.40
295	4.03	127.29	-10.00	373.70	-10.00	256.40
300	4.42	123.56	-10.00	373.70	-10.00	256.40
305	3.80	120.15	-10.00	373.70	-10.00	256.40
310	3.10	116.58	-10.00	373.70	-10.00	256.40
315	2.76	112.74	-10.00	373.70	-10.00	256.40
320	3.32	108.58	-10.00	373.70	-10.00	256.40
325	4.76	104.28	-10.00	373.70	-10.00	256.40
330	5.94	100.11	-10.00	373.70	-10.00	256.40
335	7.80	95.98	-10.00	373.70	-10.00	256.40
340	8.26	92.08	-10.00	373.70	-10.00	256.40
345	9.32	88.23	-10.00	373.70	-10.00	256.40
350	9.66	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 Jameila Farm Blvd.
Ashburn, Va. 20147

DATED: July 27, 2011

August 5, 2011

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, from August 26, 2011 through September 24, 2011, to use its Fillmore, California C-band earth station -- call sign E4132 -- to provide launch and early orbit phase (“LEOP”) services to the SES-2 satellite that is expected to be launched on August 26, 2011.² The LEOP period is expected to last approximately 10 days.³

The SES-2 LEOP operations will be performed in the following frequency bands: 6423.5 MHz (LHCP) (uplink); and 3700.5 MHz and 4199.5 MHz (RHCP) (downlink). The LEOP operations will 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.

The 24x7 contact information for the SES-2 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.

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 permanent orbital location for SES-2 is 87.0° W.L. See *Policy Branch Information: Satellite Space Applications Accepted for Filing*, Report No. SAT-00788, File No. SAT-RPL-20110429-00082 and SAT-AMD-20110613-00107 (June 24, 2011) (Public Notice). The satellite will undergo in-orbit testing at 77.25° W.L.

³ Intelsat is seeking authority through September 24, 2011 to accommodate a possible launch delay.

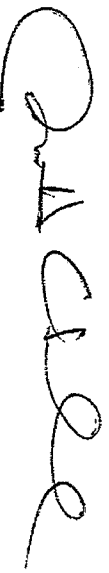
Ms. Marlene H. Dortch
August 5, 2011
Page 2

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. Intelsat notes that although it has coordinated a power level of 34.2 dBW, it expects to operate within the 26.5 dBW maximum level permitted by the FCC. A higher power level will only be used in case of emergency. 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 SES-2 satellite. This will serve the public interest by ensuring continuity of service at the satellite's permanent location of 87.0° W.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