

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Intelsat License LLC Request for STA Using Fillmore, CA Earth Station E000363

I. Applicant

Name:	Intelsat License LLC	Phone Number:	703-559-7848
DBA Name:		Fax Number:	703-559-8539
Street:	c/o Intelsat Corporation 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 20151117-00849
 Call Sign E000363 Grant Date 11-24-15
 (or other identifier)
 Term Dates
 From: 12-1-15 To: 12-31-15
 Approved: *[Signature]*

Application: Intelsat License LLC
Call Sign: E000363
File No.: SES-STA-20151117-00849
Special Temporary Authority (STA)



File # SES-STA-20151117-00849
Call Sign E000363 Grant Date 11-24-15
(or other identifier)
Term Dates
From: 12-1-15 To: 12-31-15
Approved: Paul E. Hines

Intelsat License LLC is granted a STA, under the following conditions, for 30 days, beginning December 1, 2015, to operate its C-band earth station, call sign E000363, in Fillmore, California, to conduct telemetry, tracking, and command ("TT&C") services for Intelsat 805 satellite (S2404) to drift the space station from the 55.5° W.L. orbital location to the 169° E.L. Intelsat 805 (S2404) is expected to begin drifting on December 1, 2015.

1. Intelsat will perform the operations in the uplink frequencies (Earth-to-space): 6173.70 MHz and 6176.30 MHz and the downlink frequencies (space-to-Earth): 3947.50 MHz, 3948.00 MHz, 3952.00 MHz and 3952.50 MHz, within coordinated emission and power limits.
2. During the drift from 55.5 W.L. to the satellite's permanent orbital location 169° E.L., Intelsat will coordinate with operators of co-frequency satellites in the drift path.
3. All operators of satellites 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 805 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.
4. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's E000363 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
5. In the event of any harmful interference under this grant of STA, Intelsat License LLC E000363 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at Intelsat License LLC's risk.
8. 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.

2. Contact	
Name: Cynthia J. Grady	Phone Number: 703-559-6949
Company: Intelsat Corporation	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 18.0 N

9. State CA	10. Longitude (dd mm ss.s h) 118 53 39.0 W
11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Exhibit A Attachment 3: 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.) Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing December 1, 2015, to use its Fillmore, California Ku-band earth station, call sign E000363, to provide telemetry, tracking, and command services for Intelsat 805 (S2404) during its drift from 55.5 W.L. to 169.0 E.L. Intelsat 805 is expected to begin	
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 Cynthia J. Grady	15. Title of Person Signing Regulatory 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

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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.

12. Description

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing December 1, 2015, to use its Fillmore, California Ku-band earth station, call sign E000363, to provide telemetry, tracking, and command services for Intelsat 805 (S2404) during its drift from 55.5 W.L. to 169.0 E.L. Intelsat 805 is expected to begin drifting no earlier than December 1, 2015.



INTELSAT

Envision. Connect. Transform.

November 17, 2015

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 E000363

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 30 days, commencing December 1, 2015, to use its Fillmore, California Ku-band earth station—call sign E000363—to provide telemetry, tracking, and command (“TT&C”) services for Intelsat 805 (S2404) during its drift from 55.5° W.L. to 169.0° E.L.² Intelsat 805 is expected to begin drifting no earlier than December 1, 2015. The drift is expected to take approximately three months.

TT&C operations will be performed in the following frequencies: 3947.5 MHz, 3948.0 MHz, 3950 MHz, 3952.0 MHz, 3952.5 MHz, 6173.7 MHz, 6176.3 MHz and 12501 MHz. The drift operations will be coordinated with all operators of satellites that use the same frequency bands and are in the drift 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 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 hereby 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

¹ Intelsat has filed its STA request, an FCC Form 159, a \$195.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-01112, File No. SAT-STA-20151002-00068 (Oct. 16, 2015) (Public Notice). See also *Intelsat License LLC Application to Modify Authorization for Intelsat 805*, File No. SAT-MOD-20151020-00072 (filed Oct. 20, 2015).

³ Intelsat will handle the coordination.

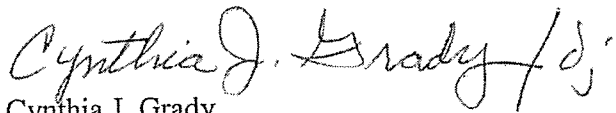
Ms. Marlene H. Dortch
November 17, 2015
Page 2

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 drift the Intelsat 805 satellite to its new location. This, in turn, will help satisfy customer demand at 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,

A handwritten signature in cursive script that reads "Cynthia J. Grady / dj".

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

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: 12/01/2015 - 02/28/2016

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 March 10, 2015.

Company

ABC Holding Company Inc.
AirSites2000, LLC
American Tower, LLC
Anaheim City, of
BNS Electronics, Inc.
CCO SoCal I, LLC
CNG Communications, Inc.
California, State of
Calvary Chapel of Costa Mesa
Chevron USA Inc.
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
Encina Communications Company
Entravision Holdings, LLC
Exxon Communications Company
Federal Communication Commission
Frazier Mountain Internet Service, Inc.
Freeport-McMoRan Oil & Gas LLC
Fresno MSA Limited Partnership
GTE Mobilnet of Santa Barbara LTD Ptsh
Glendale, City of
ION Media Los Angeles License, Inc.
KTLA, LLC
Kern Ed Telecom Consortium
Kern, County of
LDM Engineering
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 County Metro Transit Auth
Los Angeles SMSA Ltd. Partnership
MHO Networks
MOBILE RELAY ASSOCIATES INC
Metropolitan Water Dist of So California
NRJ TV LA License Co, LLC
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
Nextel of California Inc.
Nextweb Inc
Northrop Grumman Systems Corp.
Olympic Wireless, LLC
Orange, County of, CA
Pacific Bell Tel Com dba AT&T California
Regents of the University of California
Riverside, County of
San Bernardino County of California
Santa Barbara Cellular Systems, Ltd.
Santa Barbara, County of
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
TV MICROWAVES CO
Turn Wireless, LLC
Ultimate Internet Access, Inc
Union Pacific Railroad Company
Ventura, County of
Verizon California Inc.
Verizon Wireless (VAW) LLC (Southern CA)
Verizon Wireless (VAW) LLC-N CA/NV
Vintage Production California LLC
Western Technical Services

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: 10/27/2015
 Job Number: 151027COMSGE12

Administrative Information

Status: TEMPORARY (Operation from 12/01/2015 to 02/28/2016)
 Call Sign: TEMP02
 Licensee Code: INTELS
 Licensee Name: Intelsat License LLC

Site Information

FILLMORE, CA
 Venue Name
 Latitude (NAD 83): 34° 24' 18.0" N
 Longitude (NAD 83): 118° 53' 39.0" W
 Climate Zone: A
 Rain Zone: 4
 Ground Elevation (AMSL): 305.0 m / 1000.7 ft

Link Information

Satellite Type: Geostationary
 Mode: TR - Transmit-Receive
 Modulation: Digital
 Satellite Arc: 55.5° W to 145° West Longitude
 Azimuth Range: 105.8° to 220.9°
 Corresponding Elevation Angles: 13.2° / 41.3°
 Antenna Centerline (AGL): 11.1 m / 36.4 ft

Antenna Information

		Receive - S40911		Transmit - S60911	
Manufacturer		SCIENTIFIC-ATLANTA, INC		SCIENTIFIC-ATLANTA, INC	
Model		8009A 9.1 METER		8009A 9.1 METER	
Gain / Diameter		50.3 dBi / 9.1 m		53.8 dBi / 9.1 m	
3-dB / 15-dB Beamwidth		0.52° / 1.06°		0.36° / 0.72°	
Max Available RF Power					
	(dBW/4 kHz)			11.4	
	(dBW/MHz)			35.4	
Maximum EIRP					
	(dBW/4 kHz)			65.2	
	(dBW/MHz)			89.2	
	(dBW)			88.5	
Interference Objectives:					
	Long Term	-144.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-134.0 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)	850KG7W / 3700.0 - 4200.0	850KG7W / 6173.7 - 6176.3
Max Great Circle Coordination Distance	229.8 km / 142.8 mi	231.4 km / 143.7 mi
Precipitation Scatter Contour Radius	340.4 km / 211.5 mi	358.8 km / 222.9 mi

Coordination Values		FILLMORE, CA			
Licensee Name		Intelsat License LLC			
Latitude (NAD 83)		34° 24' 18.0" N			
Longitude (NAD 83)		118° 53' 39.0" W			
Ground Elevation (AMSL)		305.0 m / 1000.7 ft			
Antenna Centerline (AGL)		11.1 m / 36.4 ft			
Antenna Model		SCIENTIFIC-ATLANTA, INC 8009A 9.1 METER			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-144.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-134.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		11.4 (dBW/4 kHz)			

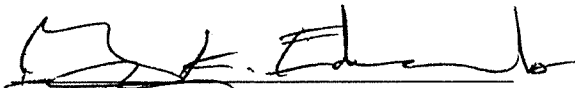
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	8.33	105.75	-10.70	100.00	-11.37	100.00
5	7.08	100.74	-10.70	100.00	-11.26	100.00
10	7.13	95.77	-10.70	100.00	-11.21	100.00
15	8.32	90.80	-10.70	100.00	-11.29	100.00
20	9.71	85.81	-10.70	100.00	-11.21	100.00
25	9.62	80.82	-10.70	100.00	-11.26	100.00
30	8.22	75.86	-10.70	100.00	-11.46	100.00
35	8.63	70.87	-10.70	100.00	-11.44	100.00
40	9.02	65.87	-10.70	100.00	-11.26	100.00
45	8.56	60.91	-10.70	100.00	-11.49	100.00
50	7.16	56.02	-10.70	100.00	-11.30	100.00
55	7.53	51.03	-10.11	100.00	-11.27	100.00
60	8.83	45.97	-8.89	100.00	-9.97	100.00
65	9.24	40.96	-7.89	100.00	-8.39	100.00
70	8.51	36.07	-6.13	100.00	-6.63	100.00
75	6.97	31.37	-4.97	100.00	-5.47	100.00
80	5.71	26.80	-4.06	103.82	-3.92	106.79
85	6.21	21.91	-2.46	105.02	-3.20	104.58
90	5.95	17.36	-1.70	110.80	-1.61	113.68
95	5.05	13.52	-0.22	125.51	0.28	130.10
100	2.87	11.85	1.45	171.69	1.95	177.56
105	2.94	10.31	2.99	177.82	3.49	183.71
110	2.18	11.80	1.50	187.99	2.00	193.63
115	1.96	14.50	-1.20	180.13	-0.20	188.34
120	0.86	18.74	-1.70	209.56	-2.44	210.41
125	1.56	22.12	-2.55	185.48	-3.20	185.53
130	3.02	24.89	-3.66	142.04	-3.20	146.84
135	2.50	28.81	-4.46	149.51	-4.72	151.28
140	2.70	32.08	-5.12	142.47	-5.62	143.05
145	2.79	35.21	-5.78	137.93	-6.28	138.42
150	2.86	38.10	-6.94	133.70	-7.44	134.09
155	3.39	40.30	-7.76	121.11	-8.26	121.50
160	3.46	42.45	-8.19	118.14	-8.69	118.52
165	3.37	44.31	-8.56	118.50	-9.06	118.88
170	3.46	45.52	-8.80	115.96	-9.62	115.20
175	3.37	46.39	-8.98	116.97	-10.31	114.17
180	2.48	47.54	-9.21	132.40	-11.23	127.00
185	2.59	47.16	-9.13	130.71	-10.93	126.16

Coordination Values		FILLMORE, CA			
Licensee Name	Intelsat License LLC				
Latitude (NAD 83)	34° 24' 18.0" N				
Longitude (NAD 83)	118° 53' 39.0" W				
Ground Elevation (AMSL)	305.0 m / 1000.7 ft				
Antenna Centerline (AGL)	11.1 m / 36.4 ft				
Antenna Model	SCIENTIFIC-ATLANTA, INC 8009A 9.1 METER				
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz		
Interference Objectives:	Long Term	-144.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-134.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	11.4 (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	2.44	46.49	-9.00	133.95	-10.40	130.95
195	0.85	46.58	-9.02	180.65	-10.46	176.91
200	0.64	44.87	-8.67	193.34	-9.17	194.04
205	1.29	42.55	-8.21	165.23	-8.71	167.63
210	0.96	41.53	-8.01	179.06	-8.51	179.69
215	1.19	40.45	-7.79	172.04	-8.29	172.68
220	0.00	41.29	-7.96	229.83	-8.46	231.37
225	0.00	41.45	-7.99	229.68	-8.49	231.23
230	0.00	42.09	-8.12	229.08	-8.62	230.64
235	0.00	43.20	-8.34	228.04	-8.84	229.63
240	0.00	44.75	-8.65	226.61	-9.15	228.24
245	0.00	46.68	-9.04	224.84	-10.54	222.11
250	0.00	48.94	-9.49	222.80	-11.31	218.82
255	0.00	51.50	-10.30	219.22	-11.40	218.43
260	0.00	54.31	-10.70	217.51	-11.30	218.85
265	0.00	57.32	-10.70	217.51	-11.28	218.96
270	0.00	60.51	-10.70	217.51	-11.31	218.82
275	1.03	63.40	-10.70	161.91	-11.24	162.51
280	1.04	66.90	-10.70	161.53	-11.34	161.63
285	2.63	70.03	-10.70	123.88	-11.22	124.24
290	3.91	73.51	-10.70	100.58	-11.33	100.55
295	3.79	77.42	-10.70	102.70	-11.29	102.83
300	4.43	81.27	-10.70	100.00	-11.28	100.00
305	4.07	85.28	-10.70	100.00	-11.39	100.00
310	3.63	89.26	-10.70	105.61	-11.44	105.13
315	2.64	93.18	-10.70	123.68	-11.44	123.19
320	3.26	97.13	-10.70	112.23	-11.27	112.42
325	3.46	101.07	-10.70	108.61	-11.37	108.43
330	4.26	105.12	-10.70	100.00	-11.26	100.00
335	5.11	109.22	-10.70	100.00	-11.35	100.00
340	5.89	113.33	-10.70	100.00	-15.20	100.00
345	6.28	117.31	-13.01	100.00	-17.20	100.00
350	7.61	115.67	-11.37	100.00	-17.20	100.00
355	8.39	110.73	-10.70	100.00	-12.07	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: November 16, 2015