



APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
30-Day STA Using Riverside, CA Earth Station E040125 to Provide LEOP Services for Intelsat 33e Satellite

1. Applicant

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

File # SES STA 20160801-00709
5040125 **Grant Date** 8-5-16
(or other identifier)
Term Dates **From:** 8-24-16 **To:** 9-23-16
Approved: 



GRANTED
International Bureau



File # SES-STA-20160801-00709
Call Sign E040125 Grant Date 8-5-16
(or other identifier)
From: 8-24-16 Term Dates To: 9-23-16
Approved: [Signature]

Applicant: Intelsat License LLC
File No.: SES-STA-20160801-00709
Call Sign: E040125
Special Temporary Authority

Intelsat License LLC is granted Special Temporary Authority, under the following conditions, for 30 days, beginning August 24, 2016, to operate its C-band earth station, Call Sign E040125, located in, Riverside, California, to provide launch and early orbit phase ("LEOP") services for the Intelsat 33e satellite, as it travels to its permanent orbital location 60° E.L. Communications will be on the following center frequencies: 5850.50 MHz, 5853.00 MHz, 6422.00 MHz and 6424.50 MHz (LHCP/V) in the (Earth-to-space), and 4197.25 MHz, 4197.75 MHz, 4198.25 MHz and 4198.75 MHz (LHCP) in the (space-to-Earth). Intelsat 33e satellite is expected to be launched no earlier than August 24, 2016.

1. During the drift from 59.55° E.L. to the satellite's permanent orbital location 60.0° E.L., Intelsat will coordinate with operators of co-frequency satellites in the drift path.
2. 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 33e 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.
3. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's E040125 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
4. In the event of any harmful interference under this grant of STA, Intelsat License, LLC, E040125 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
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.
7. 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/Nuevo			
8. Latitude (dd mm ss.s h) 33 47 43.6 N			

9. State CA	10. Longitude (dd mm ss.s h) 117 5 20.4 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 August 24, 2016, to use its Riverside, California C-band earth station, call sign E040125, to provide launch and early orbit phase services for Intelsat 33e. Intelsat 33e is expected to be launched on August 24, 2016. The LEOP period is expected to last	
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 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.

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.

12. Description

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing August 24, 2016, to use its Riverside, California C-band earth station, call sign E040125, to provide launch and early orbit phase services for Intelsat 33e. Intelsat 33e is expected to be launched on August 24, 2016. The LEOP period is expected to last approximately 15 days.



INTELSAT

Envision. Connect. Transform.

August 1, 2016

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Request for Special Temporary Authority
Riverside, California Earth Station E040125

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 30 days, commencing August 24, 2016, to use its Riverside, California C-band earth station—call sign E040125—to provide launch and early orbit phase (“LEOP”) services for Intelsat 33e. Intelsat 33e is expected to be launched on August 24, 2016.² The LEOP period is expected to last approximately 15 days.³

The proposed operations will be performed using the following frequencies: 6722.00 MHz, 6424.5 MHz, 5850.5 MHz, and 5853.0 MHz in the uplink (LHCP/V); and 4197.25 MHz, 4197.75 MHz, 4198.25 MHz, and 4198.75 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.⁴ 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 Intelsat 33e mission is as follows:

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

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 The permanent orbital location for Intelsat 33e will be at 60.0° E.L. *See Policy Branch Information; Actions Taken*, Report No. SAT-01139, File No. SAT-LOA-20150327-00016 (Feb. 26, 2016) (Public Notice). The in-orbit testing location will be 59.55° E.L. *See Intelsat License LLC Request for Special Temporary Authority to Conduct In-Orbit Testing of Intelsat 33e; Call Sign S2939*, File No. SAT-STA-20160722-00069 (filed July 22, 2016).

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

⁴ Intelsat will handle the coordination.

Ms. Marlene H. Dortch
August 1, 2016
Page 2

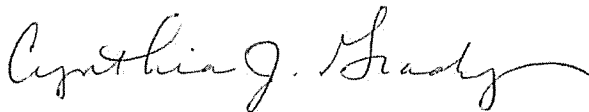
Request to speak with Harry Burnham or Kevin Bell.

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. Intelsat also notes that for purposes of the Intelsat 33e LEOP mission, it is seeking to operate in the frequencies listed in the request at power levels not to exceed 24.5 dBW. The technical information submitted with this STA request reflects a power level as high as 34.0 dBW because Intelsat might operate at this level in the event an emergency necessitates the use of a higher power level in order to command the satellite. 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 and test the Intelsat 33e satellite. This, in turn, will help provide additional capacity to customers at the 60.0° 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,



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
Nuevo, California**

Temporary Transmit-Only Earth Station
Operation Dates: 08/24/2016 - 09/08/2016

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 July 14, 2016.

Company

ABC Holding Company Inc.
AT&T Mobility Spectrum LLC - Southern CA
AirSites2000, LLC
Anaheim City, of
Arizona Public Service Company (APS)
Arizona, State Of
BNSF Railway Company
CCO SoCal I, LLC
California, State of
Calvary Chapel of Costa Mesa
Cellco Partnership - Southern California
City of Los Angeles Dept Water & Power
City of Montebello
City of Yuma
Coachella Valley Water District
Coast Community College District
Commnet Four Corners, LLC
DM Ventures, Inc. dba Warp2Biz
DRS Technical Services
Entravision Holdings, LLC
Federal Communication Commission
Fisher Wireless Services, Inc.
Fresno MSA Limited Partnership
Glendale, City of
Global Telecom & Technology Americas, In
GovNET Licenses LLC
ION Media Los Angeles License, Inc.
Kern Ed Telecom Consortium
Kern, County of
LDM Engineering
Lightwave Broadband LLC
Los Angeles County Dept of Public Works
Los Angeles County FCC Licensing Section
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 LLC - AZ
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS LLC -San Diego
Nextel of California Inc.
Norris, Samuel O
Northrop Grumman Systems Corp.
Olympic Wireless, LLC
Orange, County of, CA
Pacific Bell Tel Com dba AT&T California
QUALCOMM INC.
Qwest Corporation
Regional 3Cs
Riverside, County of
San Bernardino County of California
San Diego Broadband
San Diego County Water Authority
San Diego Gas & Electric Company
San Diego, City of
San Diego, County of
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
Sprint Telephony PCS, L.P.
Station Venture Operations, LP
T-Mobile License LLC
TV MICROWAVES CO
Telink Networks SW, LLC
Time Warner Cable Pacific West LLC
Turn Wireless, LLC
Ultimate Internet Access, Inc
Union Pacific Railroad Company
University of California, HPWREN
Vectus, Inc
Verizon California Inc.
Verizon Wireless (VAW) LLC (Southern CA)
Verizon Wireless (VAW) LLC-N CA/NV
Western Technical Services
White, Fred K

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: 07/14/2016
Job Number: 160714COMSGE08

Administrative Information

Status TEMPORARY (Operation from 08/24/2016 to 09/08/2016)
Call Sign TEMP09
Licensee Code INTELS
Licensee Name Intelsat License LLC

Site Information

NUEVO, CA

Venue Name
Latitude (NAD 83) 33° 47' 43.6" N
Longitude (NAD 83) 117° 5' 20.4" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 566.62 m / 1859.0 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Analog and Digital
Satellite Arc 45° W to 170° West Longitude
Azimuth Range 100.2° to 247.2°
Corresponding Elevation Angles 6.2° / 22.0°
Antenna Centerline (AGL) 7.32 m / 24.0 ft

Antenna Information

Transmit - FCC32

Manufacturer TIW
Model 11 Meter
Gain / Diameter 55.5 dBi / 11.0 m
3-dB / 15-dB Beamwidth 0.29° / 0.54°

Max Available RF Power (dBW/4 kHz) 6.2
(dBW/MHz) 30.2

Maximum EIRP (dBW/4 kHz) 61.7
(dBW/MHz) 85.7
(dBW) 85.0

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 / 6422.0 - 6424.5

Max Great Circle Coordination Distance 464.7 km / 288.7 mi
Precipitation Scatter Contour Radius 253.6 km / 157.5 mi

Coordination Values	NUEVO, CA	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	33° 47' 43.6" N	
Longitude (NAD 83)	117° 5' 20.4" W	
Ground Elevation (AMSL)	566.62 m / 1859.0 ft	
Antenna Centerline (AGL)	7.32 m / 24.0 ft	
Antenna Model	TIW 11 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	6.2 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.91	100.15	-10.00	150.47
5	2.23	95.18	-10.00	117.01
10	1.88	90.19	-10.00	124.43
15	2.42	85.20	-10.00	113.39
20	2.49	80.21	-10.00	111.97
25	2.56	75.22	-10.00	110.60
30	3.50	70.22	-10.00	100.00
35	3.34	65.23	-10.00	100.00
40	3.36	60.23	-10.00	100.00
45	3.28	55.24	-10.00	100.00
50	2.88	50.27	-10.00	104.62
55	2.50	45.31	-9.40	113.93
60	2.77	40.31	-8.14	113.54
65	3.44	35.29	-6.69	106.70
70	3.10	30.33	-5.05	119.25
75	3.19	25.36	-3.10	124.88
80	3.76	20.33	-0.70	123.65
85	3.33	15.45	2.28	141.82
90	3.39	10.56	6.41	160.07
95	2.51	6.34	11.94	207.62
100	2.99	3.18	19.45	464.65
105	3.63	5.38	13.72	194.61
110	3.84	9.29	7.80	157.29
115	3.70	13.36	3.86	141.70
120	3.87	17.17	1.13	128.80
125	3.84	21.02	-1.07	120.93
130	4.49	24.32	-2.65	105.54
135	3.88	28.30	-4.29	108.23
140	4.24	31.47	-5.45	100.00
145	4.11	34.76	-6.53	100.00
150	4.48	37.41	-7.32	100.00
155	4.67	39.84	-8.01	100.00
160	4.09	42.53	-8.72	100.00
165	4.55	43.90	-9.06	100.00
170	4.85	44.86	-9.30	100.00
175	5.79	44.68	-9.25	100.00
180	6.19	44.52	-9.21	100.00
185	6.91	43.57	-8.98	100.00

Coordination Values	NUEVO, CA	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	33° 47' 43.6" N	
Longitude (NAD 83)	117° 5' 20.4" W	
Ground Elevation (AMSL)	566.62 m / 1859.0 ft	
Antenna Centerline (AGL)	7.32 m / 24.0 ft	
Antenna Model	TIW 11 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	6.2 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	7.27	42.53	-8.72	100.00
195	6.99	41.64	-8.49	100.00
200	6.27	40.64	-8.22	100.00
205	5.71	38.99	-7.77	100.00
210	5.71	36.45	-7.04	100.00
215	6.70	32.84	-5.91	100.00
220	7.49	29.16	-4.62	100.00
225	7.03	26.16	-3.44	100.00
230	5.65	23.57	-2.31	100.00
235	6.10	19.95	-0.50	100.00
240	5.73	17.76	0.76	104.57
245	5.59	16.57	1.52	108.93
250	5.18	17.07	1.20	111.66
255	4.95	18.72	0.19	110.17
260	4.51	21.57	-1.35	110.11
265	4.74	24.62	-2.78	101.71
270	4.38	28.54	-4.39	100.58
275	4.51	32.48	-5.79	100.00
280	4.14	36.88	-7.17	100.00
285	3.19	41.60	-8.48	104.37
290	2.77	46.16	-9.61	108.08
295	1.04	51.16	-10.00	144.85
300	0.82	55.70	-10.00	155.26
305	0.00	60.40	-10.00	204.90
310	0.00	64.94	-10.00	204.90
315	0.00	69.50	-10.00	204.90
320	0.00	74.10	-10.00	204.90
325	0.00	78.71	-10.00	204.90
330	0.00	83.34	-10.00	204.90
335	0.00	87.97	-10.00	204.90
340	0.00	92.60	-10.00	204.90
345	0.00	97.24	-10.00	204.90
350	0.00	101.86	-10.00	204.90
355	0.00	105.10	-10.00	204.90

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 29, 2016