

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for 180-day Grant of Special Temporary Authority to Use Fillmore, California Earth Station E4132 to Provide LEOP and TT&C Services for MEV-1

1. Applicant

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

180 days "with conditions"
File # SES-STA-20190904-01199



Call Sign E4132 Grant Date 01/22/2020
(or other identifier)

Term Dates
From: 01/22/2020 To: 07/30/2020

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.)	<p>Intelsat License LLC herein requests a grant of Special Temporary Authority for 180 days, commencing upon grant, to use its Fillmore, California C-band earth station (Call Sign E4132) to provide launch and early orbit phase services and telemetry, tracking, and command services for MEV-1.</p>		
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	Senior Counsel, Intelsat US LLC
<p>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).</p>			

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-20190904-01199
Special Temporary Authority ("STA")

Intelsat License LLC is granted STA, for 180 days, to operate its fixed-satellite earth station located at geographic coordinates 34° 24' 22"N, 118° 53' 34"W in Fillmore, California to provide launch and early orbit phase ("LEOP") and telemetry, tracking and command ("TT&C") services for the MEV-1 satellite, Call Sign S2990, and drift as combined vehicle stack with Intelsat 901 satellite, Call Sign S2405, to 27.5°W using center frequencies: 5927.5 MHz, 6170.0 MHz, and 6180 MHz (Earth-to-space) under the following conditions:

1. 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.
2. 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.
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 MEV-1 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.
4. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
5. 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.



180 days

"With Conditions"

File # SES-STA-20190904-01199

Call Sign E4132 Grant Date 01/22/2020
(or other identifier)

Term Dates
From: 01/22/2020 To: 07/20/2020

Approved: [Signature]

September 4, 2019

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 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 180 days, commencing upon grant, to use its Fillmore, California C-band earth station (Call Sign E4132) to provide launch and early orbit phase (“LEOP”) services and telemetry, tracking, and command (“TT&C”) services for MEV-1 (Call Sign S2990).² MEV-1 is expected to launch September 30, 2019.

Subject to Federal Communications Commission approval, IntelSat will provide LEOP and TT&C services to MEV-1 during (1) the spacecraft’s LEOP period; (2) MEV-1’s docking with IntelSat 901 (Call Sign S2405)³ at 300 km above the geostationary arc; and (3) the drift as a combined vehicle stack (“CVS”) with IntelSat 901 from 300 km above the geostationary arc to 27.5° W.L. on the geostationary arc. IntelSat expects the LEOP and docking to last approximately 125 days and reinsertion to last approximately 45 days.⁴

The MEV-1 LEOP and TT&C operations will be performed at the following frequencies: 5924.00 MHz, 5927.50 MHz, 6170.00 MHz, and 6180.00 MHz in the uplink, and 3698.00 MHz, 3944.50 MHz, 3955.50 MHz, and 4199.80 MHz in the downlink.

¹ IntelSat has filed its STA request, FCC Form 159, a \$210.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² See *Policy Branch Information, Actions Taken*, Report No. SAT-01397, File No. SAT-AMD-20190207-00008 (Jun. 21, 2019) (Public Notice).

³ See *Policy Branch Information, Actions Taken*, Report No. SAT-01397, File No. SAT-MOD-20190207-00009 (Jun. 21, 2019) (Public Notice).

⁴ IntelSat is also requesting 30 days of STA to support the MEV-1 mission.

Ms. Marlene H. Dortch
September 4, 2019
Page 2

The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁵ NGIS, at the direction of Intelsat, will follow industry practices for coordinating TT&C transmission during the reinsertion process.

All operators of satellites in the LEOP or drift 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 operations pursuant to this STA 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 herewith attaches Exhibit A, which contains a coordination report. 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 MEV-1, safely dock the MEV-1 satellite to the Intelsat 901 satellite, reinsert the CVS into the geostationary arc, and provide continuity of service at 27.5° W.L. This request thereby promotes the public interest.

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

Respectfully submitted,

/s/ Cynthia J. Grady

Cynthia J. Grady
Senior Counsel
Intelsat US LLC

cc: Paul Blais
Stephen Duall

⁵ Northrup Grumman Innovation Systems, Inc. (“NGIS”), the manager of the MEV-1 mission, will handle the coordination.



INTELSAT.

Envision. Connect. Transform.

October 7, 2019

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

Re: Requests for 180-day Grants of Special Temporary Authority for Hagerstown, Maryland Earth Stations E000296 and KA275; Fillmore, California Earth Station E4132; and Riverside, California Earth Station E040125
File Nos.: SES-STA-20190904-01198; SES-STA-20190904-01178; SES-STA-20190904-01199;
SES-STA-20190904-01179

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein further supplements its above-referenced requests for Special Temporary Authority. Specifically, Intelsat is updating the scheduled launch date of MEV-1 to October 9, 2019, and revising the frequencies requested. The uplink frequencies are as follows: 5927.5 MHz, 6170.0 MHz, and 6180.0 MHz.

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

Respectfully submitted,

/s/ Cynthia J. Grady

Cynthia J. Grady
Senior Counsel
Intelsat US LLC

cc: Paul Blais
Trang Nguyen

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: 09/01/2019 - 03/01/2020

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 25, 2019.

Company

ABC Holding Company Inc.
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.
California Internet Solutions, Inc.
California Internet, L.P.
California Internet, L.P.
California Resources Corporation
California, State of
Calvary Chapel of Costa Mesa
City of Los Angeles Dept Water & Power
City of Montebello
City of West Covina
Coachella Valley Water District
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 County Superintendent of Schools

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 - S/E 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
Rincon Broadband
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
Ventura, County of
Venture Technologies Group, LLC
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: 07/25/2019
 Job Number: 190725COMSGE02

Administrative Information

Status: TEMPORARY (Operation from 09/01/2019 to 03/01/2020)
 Call Sign: TEMP03
 Licensee Code: INTELS
 Licensee Name: Intelsat License LLC

Site Information

FILMORE, 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: 3311
 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):
 850KF7D / 5924.0
 850KF7D / 5927.5
 850KF7D / 6170.0
 850KF7D / 6180.0
 1M00F7D / 6415.0
 1M00F7D / 6417.16
 1M00F7D / 6423.208
 1M00F7D / 6425.980

Max Great Circle Coordination Distance: 543.9 km / 337.9 mi
 Precipitation Scatter Contour Radius: 396.3 km / 246.2 mi

Coordination Values		FILMORE, 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		Scientific-Atlanta 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		FILMORE, 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		Scientific-Atlanta 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 31, 2019