

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for 30-Day STA Using Hagerstown, MD Earth Station KA275 for Eutelsat-117WB LEOP

1. Applicant

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

File # SES-STA-20160325-00284  
 Call Sign 4A275 Grant Date 4-15-16  
 (or other identifier)  
 Term Dates From: 5-2-16 To: 6-1-16  
 Approved: [Signature]



Application: Intelsat License LLC  
File No.: SES-STA-20160325-00284  
Call Sign: KA275  
Special Temporary Authority

Intelsat License LLC is granted a Special Temporary Authority ("STA"), under the following conditions, for 30 days, beginning May 2, 2016, to operate its C-band earth station, call sign KA275, in Hagerstown, Maryland, to provide launch and early orbit phase ("LEOP") services for the Eutelsat-117WB/Satmex-9 satellite at permanent orbital location 117° W.L.

1. Uplink (Earth-to-space) frequencies will be on 6421.30 MHz, and 6423.30 MHz (LHCP) within the coordinated emission and power limits.
2. Downlink (space-to-Earth) frequencies will be on 4198.20 MHz, and 4199.80 MHz (LHCP).
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 Eutelsat-117WB/Satmex-9 satellite 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 KA275 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 KA275 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.



File # SES-STA-20160325-00284  
Call Sign \_\_\_\_\_ Grant Date 4-15-16  
(or other identifier)  
Term Dates  
From: 5-2-16 To: 6-1-16  
Approved: Paul E. Hayes

<b>2. Contact</b>			
<b>Name:</b>	Cynthia J. Grady	<b>Phone Number:</b>	703-559-6949
<b>Company:</b>	Intelsat Corporation	<b>Fax Number:</b>	703-559-8539
<b>Street:</b>	7900 Tysons One Place	<b>E-Mail:</b>	cynthia.grady@intelsat.com
<b>City:</b>	McLean	<b>State:</b>	VA
<b>Country:</b>	USA	<b>Zipcode:</b>	22102 -5972
<b>Attention:</b>		<b>Relationship:</b>	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 Hagerstown			
8. Latitude (dd mm ss.s h) 39 35 55.0 N			

9. State MD	10. Longitude (dd mm ss.s h) 77 45 35.0 W
11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Exhibits A – C 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 May 2, 2016, to use its Hagerstown, Maryland C-band earth station, call sign KA275, to provide launch and early orbit phase services for the Eutelsat-117WB (a.k.a. Satmex-9) satellite. Eutelsat-117WB is expected to be launched no earlier than May 2,	
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**

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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 May 2, 2016, to use its Hagerstown, Maryland C-band earth station, call sign KA275, to provide launch and early orbit phase services for the Eutelsat-117WB (a.k.a. Satmex-9) satellite. Eutelsat-117WB is expected to be launched no earlier than May 2, 2016.

March 22, 2016

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

Re: Request for Special Temporary Authority  
Hagerstown, Maryland Earth Station KA275

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days, commencing May 2, 2016, to use its Hagerstown, Maryland C-band earth station—call sign KA275—to provide launch and early orbit phase (“LEOP”) services for the Eutelsat-117WB (a.k.a. Satmex-9) satellite. Eutelsat-117WB is expected to be launched no earlier than May 2, 2016.<sup>2</sup> The LEOP period is expected to last approximately 205 days.<sup>3</sup>

The Eutelsat-117WB LEOP operations will be performed in the following frequency bands: 6421.30 MHz and 6423.30 MHz in the uplink (LHCP), and 4198.2 MHz and 4199.8 MHz in the downlink (LHCP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>4</sup> 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 Eutelsat-117WB 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.

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<sup>1</sup> 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”).

<sup>2</sup> The permanent orbital location and the in-orbit testing location for Eutelsat-117WB will be 117° W.L. Intelsat has included as Exhibit C a letter from Eutelsat, provided by the manufacturer, regarding the satellite’s registration under the Convention on Registration of Objects Launched in Outer Space.

<sup>3</sup> Intelsat is concurrently seeking authority for 180 days to accommodate the longer orbit-raising time period required for an electric propulsion satellite.

<sup>4</sup> Intelsat will handle the coordination.

Ms. Marlene H. Dortch  
March 22, 2015  
Page 2

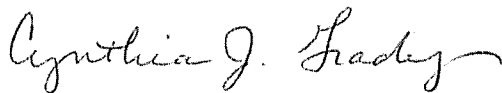
In further support of this request, Intelsat hereby attaches Exhibits A and B, which contain technical information that demonstrates that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility, as well as a waiver request. Intelsat also notes that for purposes of the Eutelsat-117WB LEOP mission, it is seeking to operate in the frequencies listed in the request at power levels not to exceed 26 dBW, except 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.

Finally, Intelsat clarifies that during the Eutelsat-117WB LEOP mission, Boeing will serve as the mission manager. Boeing will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to Boeing. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the Eutelsat-117WB satellite. This, in turn, will result in the provision of video and data applications in Mexico, Latin America and the Caribbean from the 117° W.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



**EXHIBIT A**

**INTELSAT LICENSE LLC**

**EUTELSAT-117WB 30-DAY LEOP  
STA REQUEST**

**EARTH STATION KA275  
HAGERSTOWN, MARYLAND**

**MARCH 22, 2016**

## Exhibit A

### SECTIONS 25.137 AND 25.114

The legal and technical qualifications of the Eutelsat-117WB (a.k.a. Satmex-9) satellite have been approved by the Commission and are included herein by reference. Specifically, the legal information requested in Section 25.137 and the technical information requested in Section 25.114, including the Schedule S information, for the Eutelsat 117W satellite can be found in Satelites Mexicanos, S.A. de C.V.'s granted request to add the satellite to the Permitted Space Station List. *See Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-01103, File No. SAT-AMD-20141119-00123 (Aug 21, 2015) (Public Notice).

To the extent necessary, however, Intelsat respectfully requests a waiver of the need to provide additional technical information under Section 25.114 of the Commission's rules for its proposed LEOP service.<sup>1</sup> The Commission may grant a waiver for good cause shown.<sup>2</sup> The Commission typically grants a waiver where the particular facts make strict compliance inconsistent with the public interest.<sup>3</sup> In granting a waiver, the Commission may take into account considerations of hardship, equity, or more effective implementation of overall policy on an individual basis.<sup>4</sup> Waiver is therefore appropriate if special circumstances warrant a deviation from the general rule, and such a deviation will serve the public interest.

In this case, good cause exists for a waiver of Section 25.114. Intelsat has provided in this STA request the technical information that is relevant to the LEOP services for which Intelsat seeks authorization. The remainder of the information sought by Section 25.114 is not required to determine potential harmful interference because Intelsat will perform the LEOP services on a non-interference basis. Nor is it required to protect adjacent satellites because LEOP service involves communications *prior* to the satellite attaining its final location in the geostationary orbit. In other words, during the LEOP mission, the earth station will not be communicating with a satellite permanently located in the geostationary orbit. Rather, it will be transmitting to a satellite traveling on its "transfer orbit" or "LEOP path", which starts immediately following its separation from a launch vehicle, and ends when the satellite reaches its geostationary orbital location. In the special circumstance of LEOP services, waiver of the need to provide additional technical information under Section 25.114 serves the public interest.

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<sup>1</sup> 47 C.F.R. § 25.114.

<sup>2</sup> 47 C.F.R. §1.3.

<sup>3</sup> *N.E. Cellular Tel. Co. v. FCC*, 897 F.2d 1164, 1166 (D.C. Cir. 1990) ("*Northeast Cellular*").

<sup>4</sup> *WAIT Radio v. FCC*, 418 F.2d 1153, 1159 (D.C. Cir. 1969); *Northeast Cellular*, 897 F.2d at 1166.

**EXHIBIT B**

**INTELSAT LICENSE LLC**

**EUTELSAT-117WB 30-DAY LEOP  
STA REQUEST**

**EARTH STATION KA275  
HAGERSTOWN, MARYLAND**

**MARCH 22, 2016**

Prepared By

**COMSEARCH**

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

Prepared For

**Intelsat License LLC  
Hagerstown, Maryland**

Temporary Transmit-Only Earth Station  
Operation Dates: 04/01/2016 - 04/15/2016

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 February 14, 2016.

Company

256Q Networks  
AB Services LLC  
AT&T Communications of Virginia, LLC  
AT&T Communication of Maryland Inc.  
AT&T Corp.  
AT&T Wireless Services 3 LLC (PA)  
AWC Networks  
Access MLP Operating LLC  
Adams County Department of Emergency Svc  
Affiniti PA, LLC  
Allentown SMSA Limited Partnership  
Alltel Communications LLC - Western PA  
Alltel Communications LLC-E OH WV  
Alltel Communications LLC-Southern VA  
American Electric Power Service Co  
Appalachia Engineering Services  
Argos Engineering, LLC  
Atlantic Broadband (Penn), LLC  
Atlantic City Electric Company  
Atlantic, County of  
Auburn Data Systems, LLC  
Augusta, County of  
BAY BROADBAND COMMUNICATIONS LLC  
BLAIR COUNTY 911  
Baltimore County of Maryland  
Baltimore Gas and Electric Company  
Beaver Springs Faith Baptist Church, Inc  
Bedford, County of  
Believe Wireless, LLC  
Berks County Department of Emergency Ser  
Blue Ridge Carriers  
Blueline Communications  
CLEARFIELD, COUNTY OF  
CNG Transmission Corporation  
CROWN COMMUNICATION, INC.  
Cambria, County of

Capital Communications of America  
Caroline County, VA  
Carroll, County of  
Cellco Partnership - Bridgeville, PA/WV  
Cellco Partnership - Southern Virginia  
Cellco Partnership- PA Region  
Cellco Partnership-WDC/Baltimore  
Cellco Prtnrshp - Phil. Tri-State Rgn  
Centre, County of  
Charles, County of  
Chester, County of  
China Cat Productions LLC  
Citynet  
Clinton, County of  
Columbia Gas Transmission Corporation  
Commonwealth of Pennsylvania  
Commonwealth of Pennsylvania-Radio Proj.  
Comprehensive Wireless LLC  
Conterra Ultra Broadband, LLC  
Coral Reef Technologies Ltd  
Coralinks  
County of Burlington, Public Safety Cntr  
County of Camden  
County of Fayette  
County of Frederick  
County of Lycoming  
County of York  
DAUPHIN COUNTY EMERGENCY MANAGEMENT  
Delaware County (PA) Emergency Services  
Delaware Division of Communications  
Delmarva Broadcasting Company  
Delmarva Power and Light Company  
ECW Wireless, LLC  
EG Broadcast Newco Corp  
Eastern MLG LLC  
Electric Railroad, LLC  
Enoch Pratt Free Library  
Exelon Generation Company, LLC  
FELHC, INC  
Federal Communication Commission  
Frederick County  
Fundamental Broadcasting LLC  
GETWIRELESS.NET  
GREAT SCOTT BROADCASTING  
GW Networks  
Garden State Transmissions  
Geodesic Networks LLC  
Gloucester, County of  
Greene, County of (PA)  
Hanover, County of  
Hardy Cellular Telephone Company  
Harrisonburg-Rockingham ECC  
Henrico County  
High Voltage Communications LLC (CFN)  
Huntingdon, County of  
Indiana, County of

JEFFERSON COUNTY OF PENNSYLVANIA  
Jefferson Microwave, LLC  
Juniata County Emergency Services  
King and Queen County  
Kryptick Technologies  
Lancaster County-Wide Communications  
Limitless Mobile, LLC  
Live Mobile Group  
Loudoun, County of  
MGW Networks, LLC  
MVC Research. LLC  
Maryland Public Broadcasting Commission  
Maryland State Highway Administration  
Maryland, State of - Dept.of Info & Tech  
Montgomery County Of  
National Tower Company LLC  
New Cingular Wireless PCS LLC -NJ  
New Cingular Wireless PCS - Maryland  
New Cingular Wireless PCS LLC - DC  
New Cingular Wireless PCS LLC - VA  
New Cingular Wireless PCS LLC- WV/NC/SC  
New Cingular Wireless PCS LLC-DE/NH/RI  
New Cingular Wireless PCS, LLC - PA  
New Jersey Turnpike Authority-Pkwy Div  
New Jersey, State of -NJ Transit  
New Line Networks, LLC  
Norfolk Southern Railway  
Northumberland, County of  
OHIO POWER COMPANY  
Old Dominion LLC  
PA Communications  
PEG Bandwidth, LLC  
PRESTON COUNTY OFFICE OF EMERGENCY MANAG  
PSEG Services Corporation  
Peco Energy Company  
Penn Service Microwave Co., Inc.  
Pennsylvania Turnpike Commission  
Peoples Natural Gas Company LLC  
Perseus Technology Holdings USA Inc.  
Pitt Power  
Pittsburgh SMSA Limited Partnership  
Prince George's County  
Prince William, County of  
RAPPAHANNOCK ELECTRIC COOPERATIVE  
Radio One Inc  
Rendezvous Communications LLC  
Rockbridge Reg. Pub Safety Comm Ctr  
Rural Broadband Network Services LLC  
SCS Networks  
SHENANDOAH VALLEY ELECTRIC COOPERATIVE  
SW Networks  
Somerset, County of  
South Central Task Force (SCTFNET)  
Southern Maryland Electric Cooperative I  
Spotsylvania, County of  
Sprint Spectrum L.P.

Sprintcom, Inc  
St. Mary's County of (MD)  
Stafford, County of  
Standard Backhaul Communications LLC  
State of Maryland, MIEMSS  
Texas Eastern Communications, LLC  
Thought Transmissions, LLC  
Torelco LLC  
Transcontinental Gas Pipeline Corp.  
Turtle Networks 6562  
US Cellular Operating Company, LLC (WI)  
USCOC of Cumberland, Inc.  
USCOC of Virginia RSA #3, Inc.  
USOC of Pennsylvania RSA No 10 B2 Inc.  
Verizon Maryland, Inc.  
Verizon Wireless (VAW) LLC - Delaware/NJ  
Verizon Wireless (VAW) LLC - Maryland  
Verizon Wireless (VAW) LLC - W/B/V Mkts  
Verizon Wireless (VAW) LLC-Pennsylvania  
Verizon Wireless VAW LLC - West Virginia  
Verizon Wireless VAW LLC-Southern VA  
Virginia RSA 5 Limited Partnership  
Virginia Broadband, LLC  
Virginia Cellular LLC  
Virginia Department of State Police  
Virginia Electric & Power Company  
Virginia PCS Alliance, L.C.  
WHEELING POWER COMPANY  
WITF Inc.  
WV DHHR BPH, Office of EMS, Com. Div.  
Washington D.C. SMSA L.P.  
Washington Gas Light Company  
Washington Suburban Sanitary Commission  
Washington, County of  
Weblin Holdings LLC  
Wireless Internetwork LLC  
World Class Wireless, LLC  
YAB Mobile  
iSignal  
xWave Engineering LLC

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: 02/14/2016  
Job Number: 160214COMSGE05

### Administrative Information

Status: TEMPORARY (Operation from 04/01/2016 to 04/15/2016)  
Call Sign: TEMP04  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

### Site Information

VENUE: HAGERSTOWN, MD  
Venue Name: HAGERSTOWN, MD  
Latitude (NAD 83): 39° 35' 54.7" N  
Longitude (NAD 83): 77° 45' 35.3" W  
Climate Zone: A  
Rain Zone: 2  
Ground Elevation (AMSL): 171.3 m / 562.0 ft

### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Analog and Digital  
Satellite Arc: 6° W to 149° West Longitude  
Azimuth Range: 101.9° to 257.8°  
Corresponding Elevation Angles: 5.3° / 5.7°  
Antenna Centerline (AGL): 12.5 m / 41.0 ft

### Antenna Information

Manufacturer: GD Satcom  
Model: 19M CFPA  
Gain / Diameter: 59.1 dBi / 19.0 m  
3-dB / 15-dB Beamwidth: 0.20° / 0.40°

Max Available RF Power: -2.7 (dBW/4 kHz)  
21.3 (dBW/MHz)

Maximum EIRP: 56.4 (dBW/4 kHz)  
80.4 (dBW/MHz)

Interference Objectives: Long Term: -154.0 dBW/4 kHz, 20%  
Short Term: -131.0 dBW/4 kHz, 0.0025%

### Frequency Information

Emission / Frequency Range (MHz): Transmit 6.1 GHz  
850KG7W / 6421.3 - 6423.3

Max Great Circle Coordination Distance: 453.8 km / 281.9 mi  
Precipitation Scatter Contour Radius: 101.4 km / 63.0 mi



<b>Coordination Values</b>		<b>HAGERSTOWN, MD</b>	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		39° 35' 54.7" N	
Longitude (NAD 83)		77° 45' 35.3" W	
Ground Elevation (AMSL)		171.3 m / 562.0 ft	
Antenna Centerline (AGL)		12.5 m / 41.0 ft	
Antenna Model		GD Satcom 19 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	-2.7 (dBW/4 kHz)		

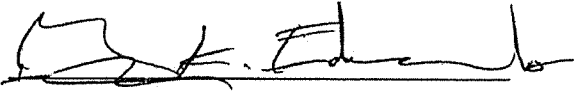
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.81	-10.00	170.66
5	0.00	96.84	-10.00	170.66
10	0.00	91.86	-10.00	170.66
15	0.00	86.88	-10.00	170.66
20	0.00	81.90	-10.00	170.66
25	0.00	76.92	-10.00	170.66
30	0.00	71.95	-10.00	170.66
35	0.00	66.97	-10.00	170.66
40	0.00	62.00	-10.00	170.66
45	0.00	57.03	-10.00	170.66
50	0.00	52.06	-10.00	170.66
55	0.00	47.09	-9.82	171.34
60	0.00	42.14	-8.62	176.03
65	0.00	37.19	-7.26	181.28
70	0.00	32.26	-5.72	187.24
75	0.00	27.34	-3.92	194.13
80	0.00	22.47	-1.79	202.28
85	0.00	17.65	0.83	210.76
90	0.00	12.98	4.17	224.77
95	0.00	8.66	8.56	245.21
100	0.00	5.61	13.27	453.75
105	0.00	6.15	12.28	314.02
110	0.00	9.60	7.45	239.82
115	0.00	13.27	3.93	223.71
120	0.00	16.89	1.31	212.69
125	0.00	20.41	-0.75	204.62
130	0.00	23.83	-2.43	199.84
135	0.00	27.11	-3.83	194.49
140	0.00	30.23	-5.01	189.96
145	0.00	33.14	-6.01	186.11
150	0.00	35.82	-6.85	182.86
155	0.00	38.20	-7.55	180.15
160	0.00	40.26	-8.12	177.95
165	0.00	41.93	-8.56	176.24
170	0.00	43.16	-8.88	175.02
175	0.00	43.92	-9.07	174.29
180	0.00	44.18	-9.13	174.04
185	0.00	43.92	-9.07	174.28

<b>Coordination Values</b>	<b>HAGERSTOWN, MD</b>	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	39° 35' 54.7" N	
Longitude (NAD 83)	77° 45' 35.3" W	
Ground Elevation (AMSL)	171.3 m / 562.0 ft	
Antenna Centerline (AGL)	12.5 m / 41.0 ft	
Antenna Model	GD Satcom 19 Meter	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term		20%
	Short Term	0.0025%
Max Available RF Power	-2.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.16	-8.88	175.02
195	0.00	41.93	-8.56	176.24
200	0.00	40.26	-8.12	177.95
205	0.00	38.20	-7.55	180.15
210	0.00	35.81	-6.85	182.86
215	0.00	33.14	-6.01	186.11
220	0.00	30.22	-5.01	189.96
225	0.00	27.11	-3.83	194.49
230	0.00	23.83	-2.43	199.84
235	0.00	20.42	-0.75	204.61
240	0.00	16.89	1.31	212.70
245	0.00	13.28	3.92	223.69
250	0.00	9.59	7.46	239.87
255	0.00	6.33	11.96	322.36
260	0.00	6.11	12.35	435.28
265	0.00	9.18	7.93	242.12
270	0.00	13.46	3.77	223.04
275	0.00	18.11	0.55	209.67
280	0.00	22.90	-2.00	201.49
285	0.00	27.76	-4.09	193.50
290	0.00	32.66	-5.85	186.72
295	0.00	37.59	-7.38	180.83
300	0.00	42.53	-8.72	175.64
305	0.00	47.48	-9.91	171.00
310	0.00	52.44	-10.00	170.66
315	0.00	57.40	-10.00	170.66
320	0.00	62.37	-10.00	170.66
325	0.00	67.34	-10.00	170.66
330	0.00	72.31	-10.00	170.66
335	0.00	77.28	-10.00	170.66
340	0.00	82.26	-10.00	170.66
345	0.00	87.23	-10.00	170.66
350	0.00	92.21	-10.00	170.66
355	0.00	97.18	-10.00	170.66

## 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: March 16, 2016

**EXHIBIT C**

**INTELSAT LICENSE LLC**

**EUTELSAT-117WB 30-DAY LEOP  
STA REQUEST**

**EARTH STATION KA275  
HAGERSTOWN, MARYLAND**

**MARCH 22, 2016**

March 16, 2016.

Boeing Satellite Systems International, Inc.  
Attn: Juliet Speir  
Contracts Manager

Dear Ms. Speir,

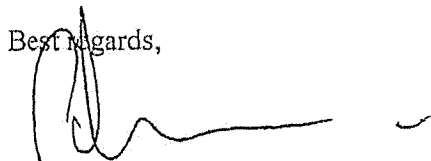
Reference is made to the Commercial Satellite Delivery Contract No. Contract No. BSS-SATMEX-12-001B by and between Boeing Satellite Systems International, Inc. (Boeing) and Eutelsat Latin America, S.A, (as successor of Satélites Mexicanos, S.A. de C.V.) ("Eutelsat") as amended.

By this mean, Eutelsat confirms that has already completed the FCC market access application process for E117WB and the Market Access has been granted. As a next step of the registration process for E117WB, Eutelsat is doing what is needed to register the E117WB satellite (F-4) before the United Nations Office for Outer Space Affairs, in conformity with the Registration Convention or General Assembly resolution 1721 B (XVI) and as recommended in General Assembly resolution 62/101.

Additionally, please rest assured that upon election and agreement with the corresponding Administration for the registry of the abovementioned satellite before the United Nations, we will properly make of knowledge of Boeing.

Should you require further information, please do not hesitate to contact us at your earliest convenience.

Best regards,



Patricio Northland  
Legal Representative

C.C.P. Michael Neuman. Program Manager. Boeing.  
James J. Peterka. ABS/Satmex Program Manager. 702SP Product Line Directorate. Boeing.  
Franz Kerekes. 702SP Product Line Mission and Ground IPT Lead. Boeing.  
Yohann Leroy. Chief Technical Officer. Eutelsat.  
Arlen Kassighian. U.S. Satellites Programs Director. Department of Engineering. Eutelsat.  
Mario García. CEO. Eutelsat Latin America.  
Mariana Páez Robles Martínez. General Counsel. Satmex.  
Jesús Gutiérrez Albores. Designated Joint Representative / Program Manager. Satmex.