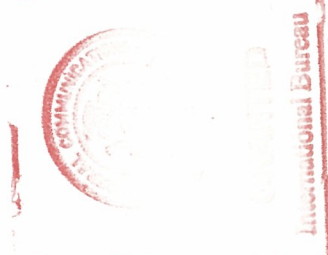


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for Special Temporary Authority Using Riverside, California Earth Station E040125

1. Applicant

<b>Name:</b>	Intelsat License LLC	<b>Phone Number:</b>	202-944-7848
<b>DBA Name:</b>		<b>Fax Number:</b>	202-944-7870
<b>Street:</b>	c/o Intelsat Corporation 3400 International Drive, N.W.	<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20008 -3006
<b>Attention:</b>	Susan H. Crandall		



File # SES-STA-20140604-00399  
 Call Sign 8280T Grant Date 7-15-14  
 (for other identifier)  
 Term Dates 8-28-14 To: 9-25-14  
 From: 8-28-14  
 Approver's [Signature]

Applicant: Intelsat License LLC  
Call Sign: E040125  
File No.: SES-STA-20140604-00399  
Special Temporary Authority (STA)

Intelsat License LLC is granted, under the following conditions, STA, for 30 days, to use its Nuevo, California earth station, Call Sign E040125, to provide launch and early orbit phase (LEOP) services to the AsiaSat-6 satellite licensed by China. Launch is expected to be on August 26, 2014. The satellite's permanent orbital location will be at 120.0 degrees E.L and the in-orbit testing location will be at 119.65 degrees E.L.

1. Uplink to AsiaSat-6 satellite on the 6429.00 MHz and 6431.00 MHz (RHCP) coordinated emission and power limits.
2. Downlink from AsiaSat-6 satellite on the 4198.75 MHz and 4199.85 MHz (LHCP).
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 AsiaSat-6 satellite 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.
4. All operations shall be on an unprotected and non-harmful interference basis, Intelsat License LLC, E040125, 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.
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. 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-20140604-00399  
Call Sign E040125 Grant Date 7-15-14  
(or other identifier)  
From 8-26-14 Term Dates To: 9-25-14  
Approver's Paul E. Hiler

**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 -  
**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/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: Exhibit B
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;"> <p>Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing August 5, 2014, to use its Nuevo, California C-band earth station, call sign E040125, to provide launch and early orbit phase services for the AsiaSat-6 satellite that is expected to be launched on August 5, 2014.</p> </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 &quot;party to the application&quot;; for these purposes.	<p style="text-align: center;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>
14. Name of Person Signing Susan H. Crandall	15. Title of Person Signing Asst. General Counsel, Intelsat Corporation
<p style="text-align: center;">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**

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](mailto: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.**

June 3, 2014

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



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

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days, commencing August 5, 2014, to use its Nuevo, California C-band earth station -- call sign E040125 -- to provide launch and early orbit phase (“LEOP”) services for the AsiaSat-6 satellite that is expected to be launched on August 5, 2014.<sup>2</sup> The LEOP period is expected to last approximately ten days.<sup>3</sup>

The AsiaSat-6 LEOP operations will be performed using the following frequencies: 6429.00 MHz and 6431.00 MHz in the uplink (RHCP), and 4198.75 MHz and 4199.85 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. 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 AsiaSat-6 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.

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<sup>1</sup> 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”).

<sup>2</sup> The permanent orbital location for AsiaSat-6, which Intelsat understands is licensed by China, will be 120.0° E.L. The in-orbit testing location will be 119.65° E.L.

<sup>3</sup> Intelsat is seeking authority for 30 days to accommodate possible launch delays.

Ms. Marlene H. Dortch  
June 3, 2014  
Page 2

In further support of this request, Intelsat is attaching 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 this AsiaSat-6 LEOP mission, it is seeking to operate in the frequencies listed in this request at power levels not to exceed 26.5 dBW. The technical information submitted with this STA request reflects a power level as high as 31.9 dBW because that is the level at which Intelsat might operate 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.

Finally, Intelsat clarifies that during the AsiaSat-6 launch, the spacecraft will be controlled by Space Systems/Loral, which is the manager of the LEOP mission. Space Systems/Loral 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 Space Systems/Loral. 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 AsiaSat-6 satellite. This, in turn, will help ensure continuity of service at the 120.0° E.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (202) 944-7848.

Respectfully submitted,



Susan H. Crandall  
Associate General Counsel  
Intelsat Corporation

cc: Paul Blais

## Exhibit A

### PETITION FOR WAIVER OF SECTIONS 25.137 AND 25.114

Pursuant to Section 25.137 of the Federal Communications Commission's ("Commission" or "FCC") rules, earth station applicants "requesting authority to operate with a non-U.S. licensed space station *to serve the United States*" must demonstrate that effective competitive opportunities exist and must provide the same technical information required by Section 25.114 for U.S.-licensed space stations.<sup>1</sup> Intelsat License LLC ("Intelsat") herein seeks authority to provide launch and early orbit phase ("LEOP") services -- not commercial services -- to the United States, and thus believes that Section 25.137 does not apply.<sup>2</sup>

To the extent the Commission determines, however, that Intelsat's request for authority to provide LEOP services on a special temporary basis is a request to serve the United States with a non U.S.-licensed satellite, Intelsat respectfully requests a waiver of Sections 25.137 and 25.114 of the Commission's rules.<sup>3</sup> The Commission may grant a waiver for good cause shown.<sup>4</sup> The Commission typically grants a waiver where the particular facts make strict compliance inconsistent with the public interest.<sup>5</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>6</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 both Section 25.137 and Section 25.114. With respect to Section 25.114, Intelsat seeks authority only to provide LEOP services for the AsiaSat-6 satellite. The information sought by Section 25.114 is not relevant to LEOP services. Moreover, Intelsat does not have -- and would not easily be able to obtain -- such information because Intelsat is not the operator of the AsiaSat-6 satellite, nor is Intelsat in contractual privity with that operator. Rather, an affiliate of Intelsat has a contract with Space Systems/Loral, the manufacturer of the AsiaSat-6 satellite, to conduct LEOP services for the satellite.

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<sup>1</sup> 47 C.F.R. § 25.137 (emphasis added).

<sup>2</sup> See *EchoStar Satellite Operating Company Application for Special Temporary Authority Related to Moving the EchoStar 6 Satellite from the 77° W.L. Orbital Location to the 96.2° W.L. Orbital Location, and to Operate at the 96.2° W.L. Orbital Location*, DA 13-593, File No. SAT-STA-20130220-00023 (released Apr. 1, 2013) (noting that operating TT&C earth stations in the United States with a foreign-licensed satellite does not constitute "DBS service").

<sup>3</sup> 47 C.F.R. §§ 25.137 and 25.114.

<sup>4</sup> 47 C.F.R. § 1.3.

<sup>5</sup> *N.E. Cellular Tel. Co. v. FCC*, 897 F.2d 1164, 1166 (D.C. Cir. 1990) ("*Northeast Cellular*").

<sup>6</sup> *WAIT Radio v. FCC*, 418 F.2d 1153, 1159 (D.C. Cir. 1969); *Northeast Cellular*, 897 F.2d at 1166.



The information that Intelsat is not including is not required to determine potential harmful interference. The Schedule S information for this satellite would pertain to the operation of the AsiaSat-6 satellite at its final orbital location. However, the present application for LEOP services 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 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. Moreover, as with any STA, Intelsat will perform the LEOP services on a non-interference basis.

Because it is not relevant to the service for which Intelsat seeks authorization, and because obtaining the information would be a hardship, Intelsat seeks a waiver of all the information required by Section 25.114. Intelsat has provided in this STA request the required technical information that is relevant to the LEOP services for which Intelsat seeks authorization.

Good cause also exists to waive Section 25.137. Section 25.137 is designed to ensure that “U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services” in other countries. Here, there is no service being provided by the satellite; it is simply being placed in its orbital location after separating from the launch vehicle. Thus, the purpose of the information required by Section 25.137 is not implicated here. For example, Section 25.137(d) requires earth station applicants requesting authority to operate with a non-U.S.-licensed space station that is not in orbit and operating to post a bond.<sup>7</sup> The underlying purpose in having to post a bond—*i.e.*, to prevent warehousing of orbital locations by operators seeking to serve the United States—would not be served by requiring Intelsat to post a bond in order to provide approximately ten days of LEOP services to the AsiaSat-6 satellite.

It is Intelsat’s understanding that AsiaSat-6 is licensed by China, which is a WTO-member country. Thus, the purposes of Section 25.137—to ensure that U.S. satellite operators enjoy “effective competitive opportunities” to serve foreign markets and to prevent warehousing of orbital locations serving the United States—will not be undermined by grant of this waiver request.

Finally, Intelsat notes that it expects to operate with the AsiaSat-6 satellite using its U.S. earth station for a period of approximately ten days. Requiring Intelsat to obtain copious technical and legal information from an unrelated party, where there is no risk of harmful interference and the operations will cease after approximately ten days, would pose undue hardship without serving underlying policy objectives. Given these particular facts, the waiver sought herein is plainly appropriate.

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<sup>7</sup> See 47 C.F.R. §25.137(d)(4).

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: 06/26/2014 - 10/01/2014

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 April 13, 2014.

Company

AT&T California  
AirSites2000, LLC  
Airband Communications Inc  
Area Energy LLC  
Arizona Public Service Company (APS)  
Arizona, State Of  
BNSF Railway Company  
BFI Licenses, LLC  
Boeing Company  
CBS Broadcasting Inc  
CBS Communications Services Inc.  
CCO SoCal I, LLC  
CITY OF POMONA COMMUNICATIONS  
CNG Communications, Inc.  
California, State of  
Cellco Partnership - California  
Central Arizona Water Conservation Distr  
Chevron USA Inc.  
City of Los Angeles Dept Water & Power  
City of Yuma  
Coachella Valley Water District  
El Paso Natural Gas Company, LLC  
Federal Communications Commission  
Fisher Wireless Services, Inc.  
Freeport-McMoRan Oil & Gas LLC  
Fresno MSA Limited Partnership  
Frontier Communications of the Southwest  
GULF-CALIFORNIA BROADCAST COMPANY  
Gila Electronics of Yuma, Inc  
Glendale, City of  
Gogo LLC

Company (Continued)

HARRIS CORPORATION  
INCOMM DIVISION CHURCH OF SCIENTOLOGY  
Imperial Irrigation District  
Kern Ed Telecom Consortium  
Kern, County of  
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  
Mile High Inc  
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.  
ORANGE, COUNTY OF, CA  
PACIFIC PIPELINE SYSTEM LLC  
Pacific Gas and Electric Company  
Palomar Observatory California Institute  
Ponderosa Telephone Company  
Riverside, County of  
San Bernardino County of California  
San Diego Gas & Electric Company  
San Diego, City of  
San Diego, County of  
Santa Barbara, County of  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
Sprint PCS  
Sprint Spectrum LP DBA Sprint PCS  
Sprint Telephony PCS, L.P.  
T-Mobile License LLC  
TV MICROWAVES CO  
Ultimate Internet Access, Inc.  
Union Pacific Railroad Company  
University of California,HPWREN  
VENOCO, INC.  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (CA)  
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT  
WWC License L.L.C. - California  
WWC License LLC - AZ/CO/NM/NV/UT  
3G Wireless, LLC

Company (Continued)

ABC Holding Company Inc.  
AERIAL VIDEO SYSTEMS  
Alascom Inc  
Ascent Media Network Services, LLC  
Bellsouth Telecommunications, Inc.  
Blackhawk Broadcasting LLC  
Board of Trustees for San Diego Univ  
Borgeson, Tom R.  
Broadcast Sports Inc.  
CALIPATRIA BROADCASTING COMPANY LLC  
Carolina Telephone and Telegraph Co  
Casper, John  
CenturyTel of the Southwest, Inc.  
Channel 51 of San Diego, Inc.  
Chicago Comnet Corp  
Cincinnati Bell Wireless LLC  
Citywide News Network, Inc.  
Cocola Broadcasting Companies LLC  
Cohen, Elana  
County Service Area 70 - TV 5  
Cowboys Stadium LP  
CP Communications, LLC  
DCI II, INC.  
DIOCESE OF FRESNO EDUCATION CORP.  
Direct Broadcast Services, Inc.  
ELLIS COMMUNICATIONS KDOC LICENSEE, LLC  
Entravision Holdings, LLC  
Fox Television Stations, Inc.  
GOODYEAR TIRE AND RUBBER COMPANY  
GSN New, Inc  
GULF-CALIFORNIA BROADCAST COMPANY  
Global Microwave Systems Inc  
GovNET Licenses, LLC  
HF Enterprises, Inc  
Hallco Unlimited, Inc.  
Hawaiian Telcom, Inc.  
Heiden, William  
Illinois Bell Telephone Company  
Indiana Bell Telephone Company  
Information & Display Systems, Inc.  
Information Super Station, LLC  
International Communications Group, Inc.  
KCETLink  
KFTV License Partnership GP  
KMEX License Partnership GP  
KRCA License LLC  
KSBY Communications, Inc.  
KSWB, LLC  
KTLA, LLC  
KUVI LICENSE PARTNERSHIP, G.P.  
KVMD LICENSEE CO, LLC

Company (Continued)

Kentucky RSA #3 Cellular General Partner  
Kentucky RSA #4 Cellular General Partner  
LOS ANGELES TELEVISION STATION KCAL LLC  
Loop, Inc.  
MERCURY COMMUNICATIONS  
MIDWEST TELEVISION INC.  
Metro Networks Communications, Inc.  
MetroSat Communications Inc.  
Michigan Bell Telephone Company  
Moreen, Steven K  
NBC Telemundo License LLC  
NEW ENGLAND DIGITAL DISTRIBUTION, INC.  
NEW ENGLAND SATELLITE SYSTEMS INC  
NEXSTAR BROADCASTING, INC.  
NPG of California, LLC  
NRJ TV LA License Co, LLC  
NSM Surveillance  
Navajo Communications Company  
NorthWest Suburbs Community Access Corp  
OTA Broadcasting (PSP), LLC  
Ohio Bell Telephone Company  
On Scene Video Production  
Onboard Images  
Pacific Television Center  
Penn Service Microwave Co., Inc.  
Plateau Telecommunications, Inc.  
Plum TV, LLC  
Production & Satellite Services, Inc.  
Public Television Communications Center  
QUICK LINK CONNECTIONS INC  
Qwest Corporation  
RCC Minnesota Inc. - MN NE ND SD  
REMOTE FACILITIES CONSULTING SERVICES  
RF Central, LLC  
RF Film, Inc  
RF Technology, LLC  
Radiofone, Inc.  
Randy Hermes Production  
Regulus Media Services, Inc.  
Remote Broadcasts, Inc.  
San Bernardino Community Col Dis KVCR-TV  
Scripps Media, Inc. - KERO TV  
Scripps Media, Inc. - KGTV  
Sinclair Bakersfield Licensee, LLC  
Southwestern Bell Telephone L.P.  
Speedshotz, Inc  
Station Venture Operations, LP  
Telefutura Los Angeles LLC - KFTR-TV  
Texas A&M University, Athletic Department  
Total RF Marketing Inc  
Trinity Broadcasting Network Inc  
Trinity Christian Center of Santa Ana

Company (Continued)

UNIVISION BAKERSFIELD LLC  
Unimas Bakersfield  
Unisat, Inc.  
United Telephone - Southeast  
VERIZON SOUTH INC.  
Valley Public Television, Inc.  
Verizon California Inc.  
Verizon Maryland, Inc.  
Verizon New England Inc.  
Verizon New Jersey, Inc.  
Verizon New York, Inc.  
Verizon North Inc.  
Verizon Northwest Inc.  
Verizon Pennsylvania, Inc.  
Verizon Virginia, Inc.  
Verizon Washington DC, Inc.  
Village Video Productions Inc  
Vyvx, LLC  
Westar Satellite Services LP  
Western Technical Services  
Wexler Video, Inc.  
Winged Vision Inc  
Wisconsin Bell, Inc.  
Wolfe Air Aviation

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: 05/16/2014  
Job Number: 140413COMSJC02

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### Administrative Information

Status: TEMPORARY (Operation from 06/26/2014 to 10/01/2014)  
Call Sign: TEMP10  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

---

### Site Information

**NUEVO, CALIFORNIA**  
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

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### Link Information

Satellite Type: Low Earth Orbit  
Mode: TO - Transmit-Only  
Modulation: Digital  
Minimum Elevation Angle: 5.0°  
Azimuth Range: 0.0° to 360°  
Antenna Centerline (AGL): 7.32 m / 24.0 ft

---

### Antenna Information

**Transmit**  
Manufacturer: TIW  
Model: 11.0 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): 8.6  
(dBW/MHz): 32.6

Maximum EIRP (dBW/4 kHz): 64.1  
(dBW/MHz): 88.1  
(dBW): 87.4

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

---

### Frequency Information

**Transmit 6.7 GHz**  
Emission / Frequency Range (MHz): 850KFXD / 6429.0  
850KFXD / 6431.0

Max Great Circle Coordination Distance: 347.9 km / 216.2 mi  
Precipitation Scatter Contour Radius: 274.6 km / 170.6 mi

# COMSEARCH

## Earth Station Data Sheet

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

### 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 11.0 Meter  
Antenna Mode Transmit 6.7 GHz  
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
Short Term -131.0 dBW/4 kHz 0.0025%  
Max Available RF Power 8.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	1.10	76.42	-10.00	256.40
5	2.21	72.41	-10.00	256.40
10	1.96	68.21	-10.00	256.40
15	2.70	64.35	-10.00	256.40
20	2.63	60.34	-10.00	256.40
25	2.53	56.42	-10.00	256.40
30	3.49	53.12	-10.00	256.40
35	3.37	49.49	-10.00	256.40
40	3.30	46.08	-10.00	256.40
45	3.29	42.94	-10.00	256.40
50	2.99	39.88	-10.00	256.40
55	2.53	37.01	-10.00	256.40
60	2.78	35.18	-10.00	256.40
65	3.42	34.29	-10.00	256.40
70	3.17	33.18	-10.00	256.40
75	3.22	33.01	-7.96	269.20
80	3.72	33.95	-4.20	292.90
85	3.36	34.69	0.77	324.20
90	3.38	36.37	4.53	347.90
95	2.49	37.81	4.53	347.90
100	2.99	40.84	4.53	347.90
105	3.50	44.15	4.53	347.90
110	3.76	47.52	4.53	347.90
115	3.70	50.90	4.53	347.90
120	3.92	54.61	4.53	347.90
125	3.84	58.30	4.53	347.90
130	4.39	62.35	4.53	347.90
135	3.90	66.11	4.53	347.90
140	4.15	70.18	4.53	347.90
145	4.15	74.23	4.53	347.90
150	3.50	78.23	4.53	347.90
155	3.92	82.42	4.53	347.90
160	4.24	86.58	4.53	347.90
165	4.67	90.72	4.53	347.90
170	4.76	94.84	4.53	347.90
175	5.29	98.89	4.53	347.90
180	5.93	102.84	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

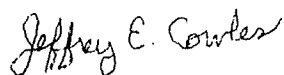
### NUEVO, CA

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 11.0 Meter  
Antenna Mode Transmit 6.7 GHz  
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
Short Term -131.0 dBW/4 kHz 0.0025%  
Max Available RF Power 8.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
185	6.64	106.67	4.53	347.90
190	6.27	110.66	4.53	347.90
195	6.62	114.40	4.53	347.90
200	6.08	118.36	4.53	347.90
205	5.57	122.26	4.53	347.90
210	5.90	125.67	4.53	347.90
215	6.19	128.89	4.53	347.90
220	7.25	131.37	4.53	347.90
225	6.91	134.47	4.53	347.90
230	5.70	138.01	4.53	347.90
235	6.01	140.03	4.53	347.90
240	5.66	142.20	4.53	347.90
245	5.56	143.65	4.53	347.90
250	5.18	144.83	4.53	347.90
255	4.53	145.68	4.53	347.90
260	4.64	145.14	4.53	347.90
265	4.36	144.37	4.53	347.90
270	4.36	142.76	4.53	347.90
275	4.44	140.59	0.77	324.20
280	3.74	138.60	-4.20	292.90
285	3.10	136.12	-7.96	269.20
290	2.46	133.26	-10.00	256.40
295	0.80	130.61	-10.00	256.40
300	0.61	126.91	-10.00	256.40
305	0.00	123.21	-10.00	256.40
310	0.00	119.14	-10.00	256.40
315	0.00	114.99	-10.00	256.40
320	0.00	110.78	-10.00	256.40
325	0.00	106.52	-10.00	256.40
330	0.00	102.23	-10.00	256.40
335	0.00	97.91	-10.00	256.40
340	0.00	93.58	-10.00	256.40
345	0.00	89.24	-10.00	256.40
350	0.00	84.90	-10.00	256.40
355	0.00	80.57	-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 Janelia Farm Blvd.  
Ashburn, Va. 20147

DATED: May 16, 2014