



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

Non Common Carrier

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Fixed Earth Stations

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	Nuevo	22401 Juniper Flats Road Nuevo, Riverside, CA 92567	33°47'46.5"N	117°5'15.0"W	550	83

*Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning April 11, 2003 (3 AM Eastern Standard Time) and ending April 11, 2018 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is 00/00/0000. Grantee must file with the Commission a certification upon completion of construction and commencement of operation.*

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	5925.0000-6425.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
2)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	86.00	43.50	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
3)	5925.0000-6425.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Standard Video
4)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data
5)	5925.0000-6425.0000	H, V, L, R	43K8G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

Non Common Carrier

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
6)	5925.0000-6425.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Analog Video
7)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	86.00	43.50	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
8)	5925.0000-6425.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Standard Video
9)	5925.0000-6425.0000	H, V, L, R	800KF3D	Tx	77.00	54.00	16.4		TT&C Carrier
10)	5850.0000-5925.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
11)	5850.0000-5925.0000	H, V, L, R	72M0G7W	Tx	86.00	43.50	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
12)	5850.0000-5925.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Standard Video
13)	5850.0000-5925.0000	H, V, L, R	72M0G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data
14)	5850.0000-5925.0000	H, V, L, R	43K8G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data
15)	5850.0000-5925.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Analog Video
16)	3700.0000-4200.0000	H, V, L, R	43K8G7W	Rx			16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
17)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
18)	3700.0000-4200.0000	H, V, L, R	36M0F3F	Rx			16.4		Standard Video
19)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			16.4		Digital Video, Voice and Data



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

Non Common Carrier

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
20)	3700.0000-4200.0000	H, V, L, R	43K8G7W	Rx			16.4		Digital Video, Voice and Data
21)	3700.0000-4200.0000	H, V, L, R	350KFXD	Rx			16.4		TT&C Carrier
22)	3625.0000-4200.0000	H, V, L, R	43K8G7W	Rx			16.4		Digital Video, Voice and Data
23)	3625.0000-4200.0000	H, V, L, R	36M0F3F	Rx			16.4		Analog Video
24)	3625.0000-3700.0000	H, V, L, R	72M0G7W	Rx			16.4		Digital Video, Voice and Data
25)	6603.5000-6649.0000	H, V, L, R	36M0F3F	Tx	85.50	58.50	16.4		Analog Video
26)	6525.0000-6539.0000	H, V, L, R	12M0G7W	Tx	85.50	50.70	16.4		Combination of digital carriers, various FEC rates
27)	6551.0000-6579.0000	H, V, L, R	26M0G7W	Tx	86.00	47.90	16.4		Combination of digital carriers, various FEC rates
28)	6591.0000-6596.5000	H, V, L, R	3M50G7W	Tx	85.50	56.10	16.4		Combination of digital carriers, various FEC rates
29)	6603.5000-6650.0000	H, V, L, R	44M5G7W	Tx	86.00	45.50	16.4		Combination of digital carriers, various FEC rates
30)	6525.0000-6539.0000	H, V, L, R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
31)	6551.0000-6579.0000	H, V, L, R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
32)	6591.0000-6596.5000	H, V, L, R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
33)	6603.5000-6650.0000	H, V, L, R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
34)	6425.0000-6525.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Analog Video
35)	6539.0000-6551.0000	H, V, L, R	11M5F3F	Tx	72.70	45.70	16.4		Analog Video
36)	6579.0000-6591.0000	H, V, L, R	11M5F3F	Tx	74.00	47.00	16.4		Analog Video



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

**Non Common Carrier**

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
37)	6596.5000-6603.5000	H, V, L, R	6M50F3F	Tx	73.40	46.40	16.4		Analog Video
38)	6425.0000-6525.0000	H, V, L, R	72M0G7W	Tx	86.00	43.40	16.4		Digital Video, Voice, and Data
39)	6539.0000-6551.0000	H, V, L, R	11M5G7W	Tx	80.30	45.70	16.4		Digital Video, Voice, and Data
40)	6579.0000-6571.0000	H, V, L, R	11M5G7W	Tx	81.60	47.00	16.4		Digital Video, Voice, and Data
41)	6596.5000-6603.5000	H, V, L, R	5M50G7W	Tx	78.50	46.40	16.4		Digital Video, Voice, and Data
42)	6425.0000-6525.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Digital Video, Voice, and Data
43)	6539.0000-6551.0000	H, V, L, R	43K8G7W-	Tx	56.10	45.70	16.4		Digital Video, Voice, and Data
44)	6579.0000-6591.0000	H, V, L, R	43K8G7W-	Tx	57.40	47.00	16.4		Digital Video, Voice, and Data
45)	6596.5000-6603.5000	H, V, L, R	43K8G7W-	Tx	56.80	46.40	16.4		Digital Video, Voice, and Data
46)	5925.0000-6425.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.

**C) Frequency Coordination Limits**

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	3600.0000-3625.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	16.4	
2)	6425.0000-6525.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	29.5	16.4
3)	6539.0000-6551.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	16.9	16.4
4)	6579.0000-6591.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	18.2	16.4
5)	6596.5000-6603.5000	50.0W	190.0W	10.3	05.5	103.2	260.3	17.6	16.4
6)	5850.0000-5925.0000	180.0W	186.0W	13.8	08.8	254.1	257.9	14.6	16.4
7)	3625.0000-3700.0000	50.0W	190.0W	10.3	05.5	103.2	260.3		16.4



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

**Non Common Carrier**

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

**C) Frequency Coordination Limits**

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
8)	5850.0000-5925.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	29.2	16.4
9)	5925.0000-6425.0000	50.0W	60.0W	10.3	18.6	103.2	109.8	10.65	16.4
10)	5925.0000-6425.0000	180.0W	186.0W	13.8	08.8	254.1	257.9	14.6	16.4
11)	3700.0000-4200.0000	50.0W	190.0W	10.3	05.5	103.2	260.3		16.4
12)	5925.0000-6425.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	29.2	16.4
13)	3700.0000-4200.0000	50.0W	190.0W	10.3	05.5	103.2	260.3		16.4
14)	5925.0000-6425.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	24.17	16.4
15)	6525.0000-6539.0000	55.0W	56.0W	14.5	15.3	106.4	107.1	3.34	16.4
16)	6551.0000-6579.0000	55.0W	56.0W	14.5	15.3	106.4	107.1	3.34	16.4
17)	6591.0000-6596.5000	55.0W	56.0W	14.5	15.3	106.4	107.1	3.34	16.4
18)	6603.5000-6649.0000	55.0W	56.0W	14.5	15.3	106.4	107.1	6.04	16.4
19)	6603.5000-6650.0000	55.0W	56.0W	14.5	15.3	106.4	017.1	3.34	16.4
20)	3700.0000-4200.0000	50.0W	186.0W	10.3	08.8	103.2	257.9	0	16.4
21)	5925.0000-6425.0000	50.0W	186.0W	10.3	08.8	103.2	257.9	14.5	16.4
22)	5850.0000-5925.0000	50.0W	60.0W	10.3	18.6	103.2	109.8	10.65	16.4

**D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) Nuevo to Permitted Space Station List
- 2) Nuevo to INTELSAT AOR @ 310.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 3) Nuevo to INTELSAT 805 (S2404) @ 304.5 E.L. (U.S.-licensed)
- 4) Nuevo to INTELSAT 806 @ 174 degrees E.L. (U.S.-licensed)
- 5) Nuevo to INTELSAT POR @ 176.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 6) Nuevo to INTELSAT AOR @ 307.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 7) Nuevo to INTELSAT POR @ 180.0 E.L. (U.S.-licensed)
- 8) Nuevo to INTELSAT POR @ 178.0 E.L. satellite of the INTELSAT system (U.S.-licensed)



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

**Non Common Carrier**

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
Nuevo	16.4	1	16.4	Vertex Comm.	THC	550	17.4 AGL/ 567.4 AMSL	
Max Gains(s):		54.8 dBi @	4.0000 GHz	59.0 dBi @	6.0000 GHz			
Maximum total input power at antenna flange (Watts) =					1,000.00			
Maximum aggregate output EIRP for all carriers (dBW) =					89.00			

**F) Remote Control Point:**

Nuevo

**Call Sign:**

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions

**H) Special and General Provisions**

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 137 --- This authorization is subject to the Commission's decision in FCC 05-86 as it relates to Intelsat's operations pursuant to Open-Market Reorganization for the Betterment of International Telecommunications Act, Pub. Law 106-180, 114 Stat. 48 (2000), most recently amended by Pub. Law 108-371, 118 Stat. 1752 (2004) (ORBIT Act).
- 1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.
- 1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
- 2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.
- 5011 --- The Licensee(s) shall maintain on file with the Commission a current list or plan of the precise frequencies in use at the station, specifying for each frequency the RF center frequency, polarization, emission designator, nominal EIRP (in dBW) and maximum EIRP density (in dBW/4kHz). This list or plan may be submitted either on a station-by-station basis or on a system-wide basis and shall be updated within seven (7) days of any changes in frequency usage at this station. The Licensee(s) need not notify the Commission of temporary usage of frequencies for periods of less than seven (7) days. However, the Licensee(s) shall maintain accurate station records of the times and particulars of such temporary frequency usage.



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  

---

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

Non Common Carrier

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 5012 --- The authority granted here is limited to the operation of the facilities described above and does not include any authority to install and operate channelizing equipment or any other authority under Section 214 of the Communications Act of 1934, as amended, to establish channels of communications.
- 5014 --- With respect to potential co-channel interference to or from terrestrial microwave radio stations, the transmit and receive frequency bands listed in this license have been cleared for transmissions to and from satellites located in the geostationary or non-geostationary orbit for the emissions designated in Section B of this license.
- 5015 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation.
- 5017 --- Operation of this station is governed by the terms, conditions and limitations in Part 25 of the Commission's Rules and Regulations and the following additional conditions: 1. This license shall not vest in the Licensee(s) any right to operate the station or any right in the use of the frequencies designated in the license beyond its term or in any other manner than authorized in the license; 2. Neither the license nor the right granted under it shall be assigned or otherwise transferred in violation of the Commission's Rules and Regulations issued under it; and 3. This station is subject to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended.
- 5018 --- This license shall be forfeited automatically if this station is not ready for operation within the time specified unless, prior to the expiration date of this license, the Commission receives an Application for Additional Time to Construct a Radio Station (FCC Form 701) filed by the Licensee(s) showing good cause why the Licensee(s) could not complete construction on time.
- 5019 --- This authorization is not to be construed as permitting the provision of any service between earth station locations within the United States.
- 5216 --- All operations shall be on a non-common carrier basis.
- 5525 --- This authorization is issued pursuant to the Commission's Report and Order released January 22, 1996 (FCC 96-14), Disco I.
- 5833 --- The operation with ALSAT shall be limited to the 5925-6425 and 3700-4200 MHz frequency bands.



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  

---

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat North America LLC

**Call Sign:** E020169

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20081201-01521

Non Common Carrier

**Grant date:** 02/24/2009

**Expiration Date:** 04/11/2018

**B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:**

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

**Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.**