



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

Name: Comsat, Inc.

Call Sign: E990027

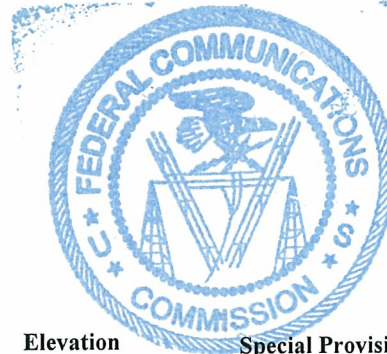
Authorization Type: Modification of License

File Number: SES-MOD-20151009-00747

Non Common Carrier

Grant date: 04/25/2016

Expiration Date: 01/22/2026



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)	1	7676 PINE GROVE ROAD SANTA PAULA, VENTURA, CA 93060	34°24'5.0"N	119°4'26.0"W	224.7	27
2)	2	7676 PINE GROVE ROAD SANTA PAULA, VENTURA, CA 93060	34°24'8.1"N	119°4'22.0"W	236.83	83

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

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 January 22, 2011 (3 AM Eastern Standard Time) and ending January 22, 2026 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is April 25, 2017 (3 AM Eastern Standard Time). 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)	1635.5000-1645.0000	R	4K80G2G	Tx	37.00	36.20	1		TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
2)	1626.5000-1660.5000	R	NON	Tx	37.00	37.00	1		PILOT



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3)	1626.5000-1660.5000	R	1K20G1D	Tx	37.00	37.00	1		DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
4)	1626.5000-1660.5000	R	2K40G1D	Tx	37.00	37.00	1		DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
5)	1626.5000-1660.5000	R	10K5G1E	Tx	37.00	32.80	1		DIGITAL VOICE TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
6)	1626.5000-1660.5000	R	600KFXN	Tx	37.00	0.00	1		TESTING SIGNAL TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
7)	1626.5000-1660.5000	R	24K0F3E	Tx	37.00	29.20	1		VOICE, FM, ANALOG, SCPC, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
8)	1626.5000-1660.5000	R	600HG1D	Tx	37.00	37.00	1		TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
9)	1525.0000-1559.0000	R	NON	Rx			1		PILOT
10)	1525.0000-1559.0000	R	1K20G1D	Rx			1		DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
11)	1525.0000-1559.0000	R	2K40G1D	Rx			1		DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
12)	1525.0000-1559.0000	R	10K5G1E	Rx			1		DIGITAL VOICE TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE



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13)	1525.0000-1559.0000	R	24K0F3E	Rx			1		VOICE, FM, ANALOG, SCPC, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
14)	1525.0000-1559.0000	R	600HG1D	Rx			1		TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
15)	5925.0000-6425.0000	H, V, L, R	10M2G1W	Tx	55.10	21.00	2		DIGITAL VIDEO AND DATA
16)	5925.0000-6425.0000	H, V, L, R	10M2G7W	Tx	55.10	21.00	2		DIGITAL VIDEO AND DATA
17)	5925.0000-6425.0000	H, V, L, R	146KG1W	Tx	45.00	29.40	2		DIGITAL VIDEO AND DATA
18)	5925.0000-6425.0000	H, V, L, R	36K6G1W	Tx	39.00	29.40	2		DIGITAL VIDEO AND DATA
19)	5925.0000-6425.0000	H, V, L, R	36K6G7W	Tx	39.00	29.40	2		DIGITAL VIDEO AND DATA
20)	5925.0000-6425.0000	H, V, L, R	73K1G1W	Tx	42.00	29.40	2		DIGITAL VIDEO AND DATA
21)	3700.0000-4200.0000	H, V, L, R	146KG1W	Rx			2		DIGITAL VIDEO AND DATA
22)	3700.0000-4200.0000	H, V, L, R	2M05G1W	Rx			2		DIGITAL VIDEO AND DATA
23)	3700.0000-4200.0000	H, V, L, R	2M05G7W	Rx			2		DIGITAL VIDEO AND DATA
24)	3700.0000-4200.0000	H, V, L, R	36K6G1W	Rx			2		DIGITAL VIDEO AND DATA
25)	3700.0000-4200.0000	H, V, L, R	36K6G7W	Rx			2		DIGITAL VIDEO AND DATA
26)	3700.0000-4200.0000	H, V, L, R	73K1G1W	Rx			2		DIGITAL VIDEO AND DATA

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)	1626.5000-1660.5000			21.8-12.0		246.9-255.2		18.7	1
2)	1525.0000-1559.0000			21.8-12.0		246.9-255.2		0	1



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		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
3)	5925.0000-6425.0000	60.0W	143.0W	16.8	42.6	108.7	218.1	-12.46	2
4)	3700.0000-4200.0000	60.0W	143.0W	16.8	42.6	108.7	218.1		2

D) Points of Communications

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

- 1) 1 to INMARSAT Ltd.-3 satellite(s) @ 178 E.L. in POR (United Kingdom-licensed) (Non-U.S.-licensed)
- 2) 1 to INMARSAT Ltd.-2 satellite(s) @ 179 E.L. in POR (United Kingdom-licensed) (Non-U.S.-licensed)
- 3) 1 to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band
- 4) 2 to Permitted Space Station List

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)
1	1	1	1.2	SCIENTIFIC ATLANTA, STANDARD-A	3052	224.7	4.7 AGL/ 229.4 AMSL	
Max Gains(s):		23.5 dBi @	1.6400 GHz	23.5 dBi @	1.5400 GHz			
Maximum total input power at antenna flange (Watts) =					22.40			
Maximum aggregate output EIRP for all carriers (dBW) =					37.00			
2	2	1	4.8	VERTEX		236.83	4.8 AGL/ 236.83 AMSL	
Max Gains(s):		44.2 dBi @	4.0000 GHz	48.1 dBi @	6.0000 GHz			
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					55.10			

F) Remote Control Point:

1

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G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions



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H) Special and General Provisions

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

- 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.
- 2627 --- All services are interconnected to the Public Switched Network.
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 3465 --- This authorization is subject to the policies adopted in the Report and Order, "Amendment of the Commission's Regulatory Policies to allow Non-US-Licensed Space Stations to provide Domestic and International Satellite Services in the United States," IB Docket 96-111, FCC 97-399 (Released November 26, 1997). (DISCO II)
- 3848 --- The authorized frequency band(s) has (have) been cleared with the National Telecommunications and Information Administration.
- 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.
- 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.



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H) Special and General Provisions

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

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 Commissions or otherwise transferred in violation of the Communications Act of 1934, as amended, or 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.

5058 --- All operations shall be conducted on a common carrier basis and shall comply with the Commission's decisions in CC Docket No. 87-75 and General Docket 84-1234.

5062 --- the Licensee(s) shall maintain as its first priority the service of maritime commercial, safety and distress needs, and in particular uphold the safety and distress requirements of the Global Maritime Distress and Safety System.

5202 --- Use of this facility to provide international service on a common carrier basis will require appropriate authorization under Section 214 of the Communication Act of 1934, as amended.

5215 --- All operations shall be on a common carrier basis.

5630 --- International services shall be consistent with this emission designator, the underlying title III application(s) and the acquisition of any necessary Section 214 authority.

5779 --- 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 construction of the facility as authorized has been completed, 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.

5809 --- This authorization is issued pursuant to and subject to the terms and conditions in the Commission's Order, released January 22, 1991, DA 90-1940.

5814 --- This authorization is issued pursuant to and subject to the terms and conditions in the Commission's Order released July 8, 1996, DA 96-1079, and Erratum released July 9, 1996.

5830 --- This authorization is subject to the conditions and terms set forth in the Commission's Memorandum Opinion, Order and Authorization, FCC 01-272, released October 9, 2001 (INMARSAT Ltd. Order).



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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.