



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

Name: Emerging Markets Communications, LLC

Call Sign: E980250

Authorization Type: Modification of License

File Number: SES-MFS-20170906-00982

Non Common Carrier

Grant date: 11/28/2017

Expiration Date: 12/05/2025



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	91-340 FARRINGTON HIGHWAY KAPOLEI, KAPOLEI, HI 06707	21°20'12.6"N	158°5'21.1"W	39.6	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 December 5, 2010 (3 AM Eastern Standard Time) and ending December 5, 2025 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is November 28, 2018 (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)	6689.0000-6699.0000	H,V	51K2G7D-	Tx	46.00	34.90	1		Digital Data
2)	6689.0000-6699.0000	H,V	36M0G7D	Tx	74.50	34.90	1		Digital Data
3)	6689.0000-6699.0000	H,V	51K2G7W-	Tx	46.00	34.90	1		Digital Data, Combination of Carriers
4)	6689.0000-6699.0000	H,V	36M0G7W	Tx	74.50	34.90	1		Digital Data, Combination of Carriers
5)	6587.0000-6687.0000	H,V	51K2G7D-	Tx	46.00	34.90	1		Digital Data
6)	6587.0000-6687.0000	H,V	36M0G7D	Tx	74.50	34.90	1		Digital Data
7)	6587.0000-6687.0000	H,V	51K2G7W-	Tx	46.00	34.90	1		Digital Data, Combination of Carriers
8)	6587.0000-6687.0000	H,V	36M0G7W	Tx	74.50	34.90	1		Digital Data, Combination of Carriers



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9)	6425.0000-6650.0000	H,V	36M0F9W	Tx	82.80	55.80	1		Analog TV/FM with associated audio carriers
10)	6425.0000-6650.0000	H,V	36M0G7W	Tx	80.00	40.50	1		QPSK, FEC 7/8, Data, Voice & Video 48.38 kbps
11)	6425.0000-6650.0000	H,V	360KG7W	Tx	60.00	40.50	1		QPSK, FEC 1/2 FEC, Data, Voice & Video 256 kbps
12)	5925.0000-6425.0000	H,V	882KG7D	Tx	64.00	40.60	1		Digital Data
13)	5925.0000-6425.0000	H,V	36M0G7W	Tx	80.00	40.50	1		Digital Multiplex, QPSK / data, voice & video
14)	5925.0000-6425.0000	H,V	50K0G1W	Tx	51.50	40.50	1		Digital SCPC, QPSK / data, voice & video
15)	5925.0000-6425.0000	L,R	960KF2D	Tx	82.80	46.84	1		Tracking, Control and In Orbit Testing
16)	5925.0000-6425.0000	L,R	1M00N0N	Tx	77.60	53.60	1		Tracking, Control and In Orbit Testing
17)	5925.0000-6425.0000	H,V	36M0F9W	Tx	80.60	53.60	1		Analog TV/FM with associated audio subcarriers
18)	5925.0000-6425.0000	H,V	360KG7W	Tx	60.00	40.50	1		Digital SCPC, QPSK, Data, Voice & Video, 1/2FEC, 256 kbps
19)	5925.0000-6425.0000	H,V	36M0G7W	Tx	80.00	40.50	1		Digital Multiplex, QPSK, Data, Voice & Video, 7/8 FEC, 48.38 kbps
20)	5850.0000-5925.0000	L,R	36M0F9W	Tx	82.80	55.80	1		Analog TV/FM with associated audio subcarriers
21)	5850.0000-5925.0000	L,R	360KG7W	Tx	60.00	40.50	1		Digital SCPC, QPSK, Data, Voice & Video, 1/2FEC, 256 kbps
22)	5850.0000-5925.0000	L,R	36M0G7W	Tx	80.00	40.50	1		Digital Multiplex, QPSK, Data, Voice & Video, 7/8 FEC, 48.38 kbps
23)	4199.0000-4199.0000	L,R	960KF2D	Rx			1		Tracking, Control and In Orbit Testing
24)	4199.0000-4199.0000	L,R	1M00N0N	Rx			1		Tracking, Control and In Orbit Testing
25)	3700.0000-4200.0000	H,V	882KG7D	Rx			1		Digital Data



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#	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
26)	3700.0000-4200.0000	H, V	50K0G1W	Rx			1		Digital SCPC, QPSK / data, voice & video
27)	3700.0000-4200.0000	L, R	960KF2D	Rx			1		Tracking, Control and In Orbit Testing
28)	3700.0000-4200.0000	L, R	1M00N0N	Rx			1		Tracking, Control and In Orbit Testing
29)	3700.0000-4200.0000	H, V	36M0F9W	Rx			1		Analog TV/FM with associated audio subcarriers
30)	3700.0000-4200.0000	H, V	360KG7W	Rx			1		Digital SCPC, QPSK, Data, Voice & Video, 1/2FEC, 256 kbps
31)	3700.0000-4200.0000	H, V	36M0G7W	Rx			1		Digital Multiplex, QPSK, Data, Voice & Video, 7/8 FEC, 48.38 kbps
32)	3700.0000-4200.0000	H, V	36M0G7W	Rx			1		QPSK, FEC 7/8, Data, Voice & Video 48.38 kbps
33)	3700.0000-4200.0000	H, V	360KG7W	Rx			1		QPSK, FEC 1/2 FEC, Data, Voice & Video 256 kbps
34)	3659.0000-3700.0000	L, R	360KG7W	Rx			1		Digital SCPC, QPSK, Data, Voice & Video, 1/2FEC, 256 kbps
35)	3650.0000-3700.0000	L, R	36M0F9W	Rx			1		Analog TV/FM with associated audio subcarriers
36)	3650.0000-3700.0000	L, R	36M0G7W	Rx			1		Digital Multiplex, QPSK, Data, Voice & Video, 7/8 FEC, 48.38 kbps
37)	3625.0000-3650.0000	L, R	36M0F9W	Rx			1		Analog TV/FM with associated audio subcarriers
38)	3625.0000-3650.0000	L, R	360KG7W	Rx			1		Digital SCPC, QPSK, Data, Voice & Video, 1/2FEC, 256 kbps
39)	3625.0000-3650.0000	L, R	36M0G7W	Rx			1		Digital Multiplex, QPSK, Data, Voice & Video, 7/8 FEC, 48.38 kbps
40)	6689.0000-6699.0000	H, V	36M0G7W	Tx	64.50	40.50	1		QPSK, DIGITAL MULTIPLEXED CARRIER



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 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
41)	6587.0000-6687.0000	L,R	36M0G7W	Tx	64.50	40.50	1		QPSK, DIGITAL MULTIPLEXED CARRIER
42)	6587.0000-6687.0000	H,V	36M0G7W	Tx	64.50	40.50	1		QPSK, DIGITAL MULTIPLEXED CARRIER
43)	6689.0000-6699.0000	L,R	36M0G7W	Tx	64.50	40.50	1		QPSK, DIGITAL MULTIPLEXED CARRIER
44)	6150.0000-6425.0000	H,V	36M0G7W	Tx	60.70	36.70	1		QPSK, DIGITAL MULTIPLEXED CARRIER
45)	6425.0000-6650.0000	L,R	36M0G7W	Tx	64.50	40.50	1		QPSK, DIGITAL MULTIPLEXED CARRIER
46)	6425.0000-6650.0000	H,V	36M0G7W	Tx	64.50	40.50	1		QPSK, DIGITAL MULTIPLEXED CARRIER
47)	6031.0000-6097.0000	L,R	36M0G7W	Tx	60.70	36.70	1		QPSK, DIGITAL MULTIPLEXED CARRIER
48)	6031.0000-6097.0000	H,V	36M0G7W	Tx	60.70	36.70	1		QPSK, DIGITAL MULTIPLEXED CARRIER
49)	6150.0000-6425.0000	L,R	36M0G7W	Tx	60.70	36.70	1		QPSK, DIGITAL MULTIPLEXED CARRIER
50)	6689.0000-6699.0000	H,V	50K0G1W	Tx	64.50	40.50	1		DIGITAL SCPC QPSK
51)	5925.0000-6425.0000	L,R	36M0G7W	Tx	60.70	36.70	1		QPSK, DIGITAL MULTIPLEXED CARRIER
52)	5925.0000-6425.0000	H,V	36M0G7W	Tx	60.70	36.70	1		QPSK, DIGITAL MULTIPLEXED CARRIER
53)	6587.0000-6687.0000	L,R	50K0G1W	Tx	64.50	40.50	1		DIGITAL SCPC QPSK
54)	6587.0000-6687.0000	H,V	50K0G1W	Tx	64.50	40.50	1		DIGITAL SCPC QPSK
55)	6689.0000-6699.0000	L,R	50K0G1W	Tx	64.50	40.50	1		DIGITAL SCPC QPSK
56)	6150.0000-6425.0000	H,V	50K0G1W	Tx	60.70	36.70	1		DIGITAL SCPC QPSK
57)	6425.0000-6650.0000	L,R	50K0G1W	Tx	64.50	40.50	1		DIGITAL SCPC QPSK
58)	6425.0000-6650.0000	H,V	50K0G1W	Tx	64.50	40.50	1		DIGITAL SCPC QPSK
59)	6031.0000-6097.0000	L,R	50K0G1W	Tx	60.70	36.70	1		DIGITAL SCPC QPSK
60)	6031.0000-6097.0000	H,V	50K0G1W	Tx	60.70	36.70	1		DIGITAL SCPC QPSK



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61)	6150.0000-6425.0000	L,R	50K0G1W	Tx	60.70	36.70	1		DIGITAL SCPC QPSK
62)	5925.0000-6425.0000	L,R	50K0G1W	Tx	60.70	36.70	1		DIGITAL SCPC QPSK
63)	5925.0000-6425.0000	H,V	50K0G1W	Tx	60.70	36.70	1		DIGITAL SCPC QPSK
64)	3700.0000-4200.0000	H,V	36M0G7W	Rx			1		QPSK, DIGITAL MULTIPLEXED CARRIER
65)	3700.0000-4200.0000	L,R	50K0G1W	Rx			1		DIGITAL SCPC QPSK
66)	3700.0000-4200.0000	H,V	50K0G1W	Rx			1		DIGITAL SCPC QPSK
67)	3700.0000-4200.0000	L,R	36M0G7W	Rx			1		QPSK, DIGITAL MULTIPLEXED CARRIER
68)	3700.0000-4200.0000	H,V	36M0G7W	Rx			1		Digital Multiplex, QPSK / data, voice & video

**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)	4199.0000-4199.0000	214.0W	232.0W	23.5	06.3	256.2	264.0		1
2)	5850.0000-5925.0000	214.0W	232.0W	23.5	06.3	256.2	264.0		1
3)	6425.0000-6650.0000	120.0W	232.0W	40.5	06.3	114.9	264.0	-3.94	1
4)	6425.0000-6629.0000	83.0W	232.0W	05.2	06.3	095.5	264.0	-3.94	1
5)	6150.0000-6425.0000	83.0W	232.0W	05.2	06.3	095.5	264.0	-3.94	1
6)	6031.0000-6097.0000	83.0W	232.0W	05.2	06.3	095.5	264.0	-3.94	1
7)	5925.0000-5978.0000	83.0W	232.0W	05.2	06.3	095.5	264.0	-3.94	1
8)	3625.0000-3700.0000	214.0W	232.0W	23.5	06.3	256.2	264.0		1
9)	3700.0000-4200.0000	83.0W	232.0W	05.2	06.3	095.5	264.0		1
10)	5925.0000-6425.0000	120.0W	232.0W	40.5	06.3	114.9	264.0	-3.94	1
11)	6587.0000-6687.0000	120.0W	232.0W	40.5	06.3	114.9	264.0	-3.94	1
12)	6689.0000-6699.0000	83.0W	232.0W	05.2	06.3	095.5	264.0	-3.94	1



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**D) Points of Communications**

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

- 1) 1 to Telstar 18 / Apstar 5 @ 138 degrees E.L. (Non-U.S.-licensed) (SES-MOD-20100803-00977)
- 2) 1 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	13	VERTEX	13KPC	39.6	15.1 AGL/ 54.7 AMSL	
Max Gains(s):		53.3 dBi @	4.0000 GHz	56.3 dBi @	6.0000 GHz			
Maximum total input power at antenna flange (Watts) =					450.00			
Maximum aggregate output EIRP for all carriers (dBW) =					88.80			

**F) Remote Control Point:**

1	3044 N. COMMERCE PARKWAY	Call Sign: E980250
	MIRAMAR, BROWARD, FL 33025	
	9545384074	

**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:

- 431 --- Loral is prohibited from sending or receiving any Direct-to-Home service, Direct Broadcast Satellite service, and Digital Audio Radio service to or from this satellite.
- 433 --- Loral is prohibited from sending or receiving analog video services or any FM video television services to or from the satellite.
- 434 --- With reference to Article 18 of the ITU Radio Regulations, the United States is not the "government of the country to which" the satellite "is subject," and is not acting on behalf of any other government. Operations of earth station call sign E980250 are expressly conditioned upon that space station having been licensed, within the meaning of Article 18, by the government of the country to which the station is subject.



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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:

435 --- Loral is afforded 30 days from the date of release of this grant and authorization to decline this authorization, as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization, as conditioned.

455 --- In the 3650 - 3700 MHz band, this authorization shall be consistent with the Report and Order and MO&O in ET Docket No. 04-151 and WT Docket 05-96 as well as footnote NG169 to the table of allocations. All new earth station operations in the 3650 - 3700 MHz band after December 8, 2000 shall be on a secondary basis.

456 --- This authorization is subject to Order and Authorization, DA 05-1910, released July 1, 2005 and Order and Authorization, DA 06-325, released February 9, 2006. On September 30, 2005, the International Bureau (Bureau) granted the applications of Loral Space & Communications Ltd. (Debtor-in-Possession (DIP)) for the transfer of control of space and earth station licenses held by its subsidiaries Loral Orion, Inc. (DIP), Loral SpaceCom Corporation (DIP), and Loral Skynet Network Services, Inc. (DIP) to Loral Space & Communications Inc. See Authorizations Granted, Public Notice, IB Docket No. 05-233, DA 05-2639 (rel. Sept. 30, 2005). DA 06-325 incorrectly failed to note the consummation of the transfer of control. Accordingly, the authorization is issued in the name of Loral Skynet Network Services, Inc rather than Loral Skynet Network Services, Inc (Debtor-in-possession).

457 --- In the band 3625-3650 MHz, Loral is aware that the Navy operates high power radars. In the band 5850-5925 MHz, Loral shall not cause interference to Navy Operations in NANAKULI, HI

5123 --- With reference to Article 18 of the ITU Radio Regulations, the United States is not the "government of the country to which" the Telstar 18/ApstarV/Tongasat space station "is subject," and is not acting on behalf of any other government. Operations of earth station call sign [E980250] are expressly conditioned upon that space station (or those space stations) having been licensed, within the meaning of Article 18, by the government, or on behalf of the government, of the country to which the station is subject.

5124 --- Communications with the Telstar 18/ApstarV satellite at 138.0 E.L. from earth station located at Kapolei, Hawaii is limited to TT&C transmission at 6425.00 MHz and reception at 4199.00 MHz, respectively.

5125 --- Licensee shall not cause harmful interference to any other lawfully operating satellite or radio facility and shall cease operations upon notification of such interference.

5822 --- The 3600-3650 MHz band is shared on a co-primary basis in the U.S. and Possessions with Federal Government radiolocation systems. Unacceptable interference may be caused to this earth station from radiolocation systems, including high-powered, highly mobile, shipborne and airborne radar transmitters, operating in the frequency band. Consistent with the applicant's EMC analysis (as required by US245 and based on the NTIA TR-99-361 Report, Technical Characteristics of Radiolocation Systems operating in the 3.1-3.7 GHz Band and Procedures for assessing EMC with Fixed Earth Station Receivers (available at <http://www.ntia.doc.gov/osmhome/reports.html>), the licensee accepts this potential for unacceptable interference. In the case that out-of-band interference does occur, the licensee is further aware that use of a RF filter ahead of the low noise amplifier (LNA) will limit potential out-of-band interference to its receiving earth station. Additionally, per US 245, in the band 3600-3650 MHz, these fixed-satellite service operations are limited to international inter-continental satellite systems.



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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:

5873 --- Licensee is authorized to provide fixed-satellite service other than Direct-to-Home service via non-U.S. licensed satellites.

90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.

900411 --- In accordance with US245, the applicant is aware of the potential allocation and electromagnetic compatibility issues in 5850-5925 MHz band, and agrees to accept this potential for unacceptable interference. Additionally and these fixed-satellite service operations are limited to international inter-continental satellite systems.





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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 does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct 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.**