



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

Name: Emerging Markets Communications, LLC

Call Sign: E000127

Authorization Type: Modification of License

File Number: SES-MOD-20170906-00986

Non Common Carrier

Grant date: 01/09/2018

Expiration Date: 07/12/2025



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°5'22.1"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 July 12, 2010 (3 AM Eastern Standard Time) and ending July 12, 2025 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is January 9, 2019 (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, L, R	51K2G7D-	Tx	43.60	35.20	9.1M.		QPSK, Digital Multiplexed Carrier
2)	6689.0000-6699.0000	H, V, L, R	32M6G7W	Tx	69.10	30.00	9.1M.		QPSK, Digital Multiplexed Carrier
3)	6587.0000-6687.0000	H, V, L, R	51K2G7D-	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
4)	6587.0000-6687.0000	H, V, L, R	36M0G7W	Tx	72.00	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
5)	6225.0000-6425.0000	H, V, L, R	3M09G7W	Tx	59.00	30.10	9.1M.		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.



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6)	6225.0000-6425.0000	H, V, L, R	1M54G7W	Tx	54.90	29.02	9.1M.		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
7)	6225.0000-6425.0000	H, V, L, R	384KG7W	Tx	48.80	29.00	9.1M.		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
8)	6225.0000-6425.0000	H, V, L, R	36M0G7W	Tx	84.00	44.44	9.1M.		Digital Multiplexed carrier QPSK data, voice and video (non DTH)
9)	3940.0000-4200.0000	H, V, L, R	3M09G7W	Rx			9.1M.		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
10)	3940.0000-4200.0000	H, V, L, R	1M54G7W	Rx			9.1M.		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
11)	3700.0000-4200.0000	H, V, L, R	51K2G7D-	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
12)	3700.0000-4200.0000	H, V, L, R	36M0G7W	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
13)	3700.0000-3940.0000	H, V, L, R	51K2G7D-	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
14)	3700.0000-3940.0000	H, V, L, R	36M0G7W	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
15)	6689.0000-6699.0000	H, V	51K2G7D	Tx	43.60	35.20	9.1M.		QPSK, Digital Multiplexed Carrier
16)	6689.0000-6699.0000	H, V	32M6G7W	Tx	69.10	30.00	9.1M.		QPSK, Digital Multiplexed Carrier
17)	6689.0000-6699.0000	L, R	51K2G7D	Tx	43.60	35.20	9.1M.		QPSK, Digital Multiplexed Carrier
18)	6587.0000-6687.0000	H, V	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
19)	6587.0000-6687.0000	H, V	36M0G7W	Tx	72.00	32.50	9.1M.		QPSK, Digital Multiplexed Carrier



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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)	6587.0000-6687.0000	L,R	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
21)	6587.0000-6587.0000	L,R	36M0G7W	Tx	72.00	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
22)	6225.0000-6425.0000	H,V	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
23)	6225.0000-6425.0000	H,V	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier
24)	6225.0000-6425.0000	L,R	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
25)	6225.0000-6425.0000	L,R	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier
26)	6169.0000-6171.0000	H,V	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
27)	6169.0000-6171.0000	H,V	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier
28)	6169.0000-6171.0000	L,R	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
29)	6169.0000-6171.0000	L,R	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier
30)	6031.0000-6097.0000	H,V	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
31)	6031.0000-6097.0000	H,V	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier
32)	6031.0000-6097.0000	L,R	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
33)	6031.0000-6097.0000	L,R	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier
34)	5925.0000-5978.0000	H,V	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
35)	5925.0000-5978.0000	H,V	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier
36)	5925.0000-5978.0000	L,R	51K2G7D	Tx	43.60	32.50	9.1M.		QPSK, Digital Multiplexed Carrier
37)	5925.0000-5978.0000	L,R	36M0G7W	Tx	68.40	44.40	9.1M.		QPSK, Digital Multiplexed Carrier



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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
38)	3700.0000-4200.0000	H,V	51K2G7D	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
39)	3700.0000-4200.0000	H,V	36M0G7W	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
40)	3700.0000-4200.0000	L,R	51K2G7D	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
41)	3700.0000-4200.0000	L,R	36M0G7W	Rx			9.1M.		QPSK, Digital Multiplexed Carrier
42)	3940.0000-4200.0000	H,V,L,R	384KG7W	Rx			9.1M.		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
43)	6689.0000-6699.0000	L,R	32M6G7W	Tx	69.10	30.00	9.1M.		QPSK, Digital Multiplexed Carrier

**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)	6225.0000-6425.0000	83.0W	-232.0W	05.2	-06.3	095.5	-264.0	1.98	9.1M.
2)	3940.0000-4200.0000	83.0W	-232.0W	05.2	-06.3	095.5	-264.0	0	9.1M.
3)	6587.0000-6687.0000	83.0W	-232.0W	05.2	-06.3	095.2	-264.0	2	9.1M.
4)	6689.0000-6699.0000	83.0W	-232.0W	05.2	-06.3	095.2	-264.0	2	9.1M.
5)	3700.0000-4200.0000	83.0W	-232.0W	05.2	-06.3	095.2	-264.0		9.1M.
6)	5925.0000-5978.0000	83.0W	-232.0W	05.2	-06.3	095.5	-264.0	4.53	9.1M.
7)	6031.0000-6097.0000	83.0W	-232.0W	05.2	-06.3	095.5	-264.0	4.53	9.1M.
8)	6169.0000-6171.0000	83.0W	-232.0W	05.2	-06.3	095.5	-264.0	4.53	9.1M.
9)	6225.0000-6425.0000	83.0W	-232.0W	05.2	-06.3	095.2	-264.0	4.53	9.1M.
10)	6587.0000-6687.0000	83.0W	-232.0W	05.2	-06.3	095.2	-264.0	4.53	9.1M.
11)	6689.0000-6699.0000	83.0W	-232.0W	05.2	-06.3	095.2	-264.0	4.53	9.1M.
12)	3700.0000-4200.0000	83.0W	-232.0W	05.2	-06.3	095.5	-264.0		9.1M.



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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 JCSAT-3A @ 128 degrees E.L. (Japan licensed satellite)
- 2) 1 to MABUHAY (AGILA 2) @ 146 E.L. satellite (Granted SES-MFS-20100510-00571)Palapa Pacific 3CKU
- 3) 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	9.1M.	1	9.1	ANDREW	ESA91-46	39.6	10.2 AGL/ 49.8 AMSL	
Max Gains(s):		50.4 dBi @	4.0000 GHz	53.9 dBi @	6.0000 GHz			
Maximum total input power at antenna flange (Watts) =					2,225.00			
Maximum aggregate output EIRP for all carriers (dBW) =					84.90			

**F) Remote Control Point:**

1	3044 N. COMMERCE PARKWAY MIRAMAR, BROWARD, FL 33025 954-538-4074	Call Sign: N/A
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**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:

- 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (IBFS) in the "Other Filings" tab within 10 days of the change.
- 5 --- Licensee must notify the Commission when an earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.
- 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.



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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:

- 5128 --- The transmit frequencies 6587 to 6687 MHz and 6689 to 6699 MHz, as authorizes herein , are restricted to use with only the Mabuhay satellite. The orbital location of Mabuhay is 146 E.L.
- 5792 --- This authorization is subject to the conditions and terms set forth in the Commission's Order and Authorization, DA 00-913, released April 24, 2000. (JCSAT-3)
- 5796 --- This authorization is subject to the conditions and terms set forth in the Commission's Order released December 5, 2000 (DA 00-2649). In particular, Licensee is prohibited from sending or receiving any analog FM video television signal to or from the Mabuhay satellite.
- 5889 --- Communications between earth station and the JCSAT 3 satellite shall be in compliance with the satellite coordination agreements reached between Japan and other administrations. In addition, Licensee is prohibited from sending or receiving any analog FM video television signal to or from the JCSAT 3 satellite.
- 6551 --- ALSAT-designated earth stations are permitted to communicate with the Mabuhay Space Station located in 146 degrees E.L. to provide fixed satellite service in the United States, except that ALSAT-designated earth stations are not authorized to communicate with the Mabuhay Space Station to provide any Direct-to-Home (DTH) service, Direct Broadcast Satellite (DBS) service, Digital Audio Radio Service (DARS), or to transmit or receive any analog television signal, to from, or within the United States.
- 6552 --- ALSAT- designated earth stations ARE PROHIBITED from sending or receiving any analog FM video television signals to or from the Mabuhay satellite.
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 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.





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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.

