



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

Name: Hawaii Pacific Teleport, L.P.

Call Sign: E010016

Authorization Type: Renewal of License

File Number: SES-RWL-20171013-01160

Non Common Carrier

Grant date: 11/08/2017

Expiration Date: 12/31/2032



Nature of Service: Fixed Satellite Service

Nature of Service: International 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, HI 96707	21°20'8.0"N	158°5'25.0"W	36.58	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 31, 2017 (3 AM Eastern Standard Time) and ending December 31, 2032 (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)	6681.0000-6723.0000	H, V	1M23G7W-	Tx	63.80	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
2)	6681.0000-6723.0000	H, V	36M0G7W	Tx	78.50	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
3)	6651.0000-6669.0000	H, V	1M23G7W-	Tx	63.80	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
4)	6651.0000-6669.0000	H, V	36M0G7W	Tx	78.50	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
5)	6633.0000-6639.0000	H, V	1M23G7W-	Tx	63.80	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
6)	6633.0000-6639.0000	H, V	36M0G7W	Tx	78.50	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS



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7)	6587.0000-6627.0000	H, V	1M23G7W-	Tx	63.80	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
8)	6587.0000-6627.0000	H, V	36M0G7W	Tx	78.50	38.90	9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
9)	3600.0000-3698.0000	H, V	1M23G7W-	Rx			9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
10)	3600.0000-3698.0000	H, V	36M0G7W	Rx			9.3M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
11)	5925.0000-6425.0000	H, V	51K2G7D-	Tx	59.50	48.40	11M		DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK.
12)	5925.0000-6425.0000	H, V	36M0G7D	Tx	84.00	44.50	11M		DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK.
13)	5925.0000-6425.0000	H, V	36M0G7W	Tx	82.40	42.80	11M		DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W
14)	5925.0000-6425.0000	H, V	51K2G7W	Tx	59.50	48.40	11M		DIGITAL, VARIOUS COMBINATION OF CARRIERS
15)	5925.0000-6425.0000	H, V	36M0G7D	Tx	82.40	42.80	11M		DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK. MESAT-2 only
16)	5925.0000-6425.0000	H, V	51K2G7D	Tx	59.50	48.40	11M		DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK. Emission Range: 51K2G7D- 36M0G7D. MESAT-2 only
17)	5925.0000-6425.0000	H, V	10M1G7W	Tx	73.38	39.36	11M		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
18)	5925.0000-6425.0000	H, V	4M09G7W	Tx	70.84	40.74	11M		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
19)	3700.0000-4200.0000	H, V	51K2G7D-	Rx			11M		DIGITAL, QPSK, 3/4 1/2 FEC
20)	3700.0000-4200.0000	H, V	36M0G7D	Rx			11M		DIGITAL, QPSK, 3/4 1/2 FEC
21)	3700.0000-4200.0000	H, V	36M0G7W	Rx			11M		DIGITAL, VARIOUS COMBINATION OF CARRIERS



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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
22)	3700.0000-4200.0000	H, V	51K2G7W	Rx			11M		DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W
23)	3700.0000-4200.0000	H, V	36M0G7D	Rx			11M		DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK. Emission Range: 51K2G7D- 36M0G7D.
24)	3700.0000-4200.0000	H, V	51K2G7D	Rx			11M		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
25)	3700.0000-4200.0000	H, V	10M1G7W	Rx			11M		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
26)	3700.0000-4200.0000	H, V	4M09G7W	Rx			11M		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
27)	5925.0000-6425.0000	H, V	36M0G7F	Tx	77.40	37.80	9.3M-2nd		DIGITAL VIDEO
28)	5925.0000-6425.0000	H, V	3M00G7F	Tx	73.40	44.60	9.3M-2nd		DIGITAL VIDEO. Emission range: 3M00G7F to 36M0G7F
29)	5925.0000-6425.0000	H, V	51K2G7W	Tx	57.97	46.90	9.3M-2nd		DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W
30)	5925.0000-6425.0000	H, V	36M0G7D	Tx	80.43	40.89	9.3M-2nd		DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC.
31)	5925.0000-6425.0000	H, V	51K2G7D	Tx	57.97	46.90	9.3M-2nd		DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC. Emission range: 51K2G7D to 36M0G7D
32)	3700.0000-4200.0000	H, V	36M0G7F	Rx			9.3M-2nd		DIGITAL VIDEO
33)	3700.0000-4200.0000	H, V	3M00G7F	Rx			9.3M-2nd		DIGITAL VIDEO. Emission range: 3M00G7F to 36M0G7F
34)	3700.0000-4200.0000	H, V	36M0G7W	Rx			9.3M-2nd		DIGITAL, VARIOUS COMBINATION OF CARRIERS
35)	3700.0000-4200.0000	H, V	51K2G7W	Rx			9.3M-2nd		DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W



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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
36)	3700.0000-4200.0000	H, V	36M0G7D	Rx			9.3M-2nd		DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC.
37)	3700.0000-4200.0000	H, V	51K2G7D	Rx			9.3M-2nd		DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC. Emission range: 51K2G7D to 36M0G7D
38)	5925.0000-6425.0000	H, V	36M0G7W	Tx	80.43	40.89	9.3M-2nd		DIGITAL, VARIOUS COMBINATION OF CARRIERS

**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)	6651.0000-6669.0000	214.0W	214.0W	23.5	23.5	256.2	256.2	-20.1	9.3M
2)	6633.0000-6639.0000	214.0W	214.0W	23.5	23.5	256.2	256.2	-20.1	9.3M
3)	6587.0000-6627.0000	214.0W	214.0W	23.5	23.5	256.2	256.2	-20.1	9.3M
4)	3600.0000-3698.0000	214.0W	214.0W	23.5	23.5	256.2	256.2		9.3M
5)	6009.0000-6081.0000	212.0W	212.0W	25.4	25.4	255.1	255.1	-9.77	11M
6)	3784.0000-3856.0000	212.0W	212.0W	25.4	25.4	255.1	255.1		11M
7)	6089.0000-6161.0000	212.0W	212.0W	25.4	25.4	255.1	255.1	-9.77	11M
8)	3864.0000-3936.0000	212.0W	212.0W	25.4	25.4	255.1	255.1		11M
9)	6169.0000-6241.0000	212.0W	212.0W	25.4	25.4	255.1	255.1	-9.77	11M
10)	3944.0000-4016.0000	212.0W	212.0W	25.4	25.4	255.1	255.1		11M
11)	6249.0000-6321.0000	212.0W	212.0W	25.4	25.4	255.1	255.1	-9.77	11M
12)	4024.0000-4096.0000	212.0W	212.0W	25.4	25.4	255.1	255.1		11M
13)	6329.0000-6401.0000	212.0W	212.0W	25.4	25.4	255.1	255.1	-9.77	11M
14)	4104.0000-4176.0000	212.0W	212.0W	25.4	25.4	255.1	255.1		11M
15)	3700.0000-4200.0000	214.0W	233.0W	23.5	05.4	256.2	264.4		11M
16)	5925.0000-6425.0000	214.0W	233.0W	23.5	05.4	256.2	264.4	6.58	11M
17)	5929.0000-6001.0000	212.0W	212.0W	25.4	25.4	255.1	255.1	-9.77	11M
18)	3704.0000-3776.0000	212.0W	212.0W	25.4	25.4	255.1	255.1		11M
19)	3700.0000-4200.0000	226.0W	226.0W	12.0	12.0	261.6	261.6		11M



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**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		
20)	5925.0000-6425.0000	226.0W	-226.0W	12.0	-12.0	261.6	-261.6	-9.36	11M
21)	5925.0000-6425.0000	228.0W	-228.0W	10.1	-10.1	262.4	-262.4	-3.48	9.3M-2nd
22)	3700.0000-4200.0000	228.0W	-228.0W	10.1	-10.1	262.4	-262.4		9.3M-2nd

**D) Points of Communications**

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

- 1) 1 to ABS-3A satellite @ 3.0 W.L. (SAT-PDR-20161130-00124)
- 2) 1 to JCSAT 5A (M063130) @ 132 degrees E.L. (Japan-licensed)
- 3) 1 to Permitted Space Station List
- 4) 1 to MEASAT-2 @ 148 E (Malaysian-licensed) (Non-U.S.-licensed) (SES-MFS-20100510-00571)
- 5) 1 to Telstar 18 / Apstar 5 @ 138 degrees E.L. (Non-U.S.-licensed) (SES-MOD-20100803-00977)
- 6) 1 to APSTAR 6 (M292090) @ 226 degrees W.L. (China-licensed)

**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	11M	1	11	VERTEX	KPC	36.58	12 AGL/ 48.58 AMSL	
	Max Gains(s):		51.9 dBi @	3.9500 GHz	55.4 dBi @	6.1750 GHz		
	Maximum total input power at antenna flange (Watts) =					63.00		
	Maximum aggregate output EIRP for all carriers (dBW) =					73.38		
1	9.3M	1	9.3	ANDREW CORP.	ESA93L	36.58	10.3 AGL/ 46.8 AMSL	
	Max Gains(s):		50.7 dBi @	4.0000 GHz	53.9 dBi @	6.0000 GHz		
	Maximum total input power at antenna flange (Watts) =					1,000.00		
	Maximum aggregate output EIRP for all carriers (dBW) =					83.90		



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**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	9.3M-2nd	1	9.3	ANDREW CORP.	ESA9.3-46	36.58	10 AGL/ 46.57 AMSL	
Max Gains(s):		50.7 dBi @	4.0000 GHz	53.9 dBi @	6.0000 GHz			
Maximum total input power at antenna flange (Watts) =					1,000.00			
Maximum aggregate output EIRP for all carriers (dBW) =					83.90			

**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.
- 436 --- Hawaii 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.
- 437 --- Hawaii is only authorized to provide communication services from its Kapolei, Hawaii earth station to points in Tonga or WTO-Member countries within the subject satellite's footprint.
- 438 --- Hawaii is prohibited from sending or receiving analog video services or any FM video television services to or from the satellite.
- 439 --- 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 E010016 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:

- 1389 --- The waiver of Section 25.283(c) for the APSTAR VI satellite was granted in File No. SES-MOD-20091001-01254 with respect to the total mass of 6.6 kg of helium sealed in three tanks, each tank with a volume of 51.6 liters. These tanks were sealed shortly following the satellite's launch on April 12, 2005, and prior to the effective date of FCC disclosure requirements concerning end-of-life measures on October 19, 2005. Compliance with Section 25.283(c) is not achievable except through direct retrieval of the spacecraft.
- 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.
- 5859 --- The 3650-3700 MHz band is shared on a co-primary basis in three Federal Government radiolocation systems identified in US348. Unacceptable interference may be caused to this earth station from these three radiolocation systems operating in the frequency band. Consistent with the applicant's EMC analysis (as required by US348 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 from the three stations identified in US348. 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 3650-3700 MHz, these fixed-satellite service operations are limited to international inter-continental satellite systems.
- 5885 --- This authorization does not authorize Licensee to provide any Direct-to-Home ("DTH"), Direct Broadcast Satellite ("DBS") service or Digital Audio Radio Service ("DARS") to, from, or within the United States via a non-U.S.-licensed satellite.
- 5890 --- This earth station is granted to operate the frequency band 3650-3698 MHz on a secondary basis.
- 5931 --- This authorization is issued pursuant to and subject to the conditions and terms set forth in the Commission's Order released August 19, 2003 (DA 03-2688). (MEASAT-2 satellite)
- 5944 --- Licensee is prohibited from providing analog video service.
- 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)



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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:

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 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.**