



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

The TJX Companies, Inc.

Call Sign: E910563

Authorization Type: Renewal of License

File Number: SES-RWL-20110818-00969

Non Common Carrier

Grant date: 08/22/2011

Expiration Date: 10/04/2026

Nature of Service: Domestic Fixed Satellite Service

Class of Station: VSAT Network

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	HUB1	770 COCHITUATE ROAD (6.1 M. HUB) FRAMINGHAM, MIDDLESEX, MA 01701	42°3'0.0"N	71°4'0.0"W	43.9	83
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
2)	REMOTE1	VSAT 1.8 METER (2000 UNITS) CONUS AK HI PR VI,			0	NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
3)	REMOTE2	VSAT 1.2 METER (5000 UNITS) CONUS AK HI PR VI,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
4)	REMOTE3	VSAT 1.0 METER (500 UNITS) CONUS AK HI PR VI,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
5)	REMOTE4	VSAT 2.4 METER (100 UNITS) CONUS AK HI PR VI,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
6)	REMOTE5	VSAT .98 METER (2000 UNITS) CONUS AK HI PR VI,				NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				



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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 October 4, 2011 (3 AM Eastern Standard Time) and ending October 4, 2026 (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)	14000.0000-14500.0000	H,V	200KG7D	Tx	44.30	27.30	.98 M		QPSK, DATA, INROUTE, 128 KSPS
2)	14000.0000-14500.0000	H,V	400KG7D	Tx	44.30	24.30	.98 M		QPSK, DATA, INROUTE, 256 KSPS
3)	14000.0000-14500.0000	H,V	800KG7D	Tx	44.30	21.30	.98 M		QPSK, DATA, INROUTE, 512 KSPS
4)	14000.0000-14500.0000	H,V	1M60G7D	Tx	44.30	19.30	.98 M		QPSK, DATA, INROUTE, 1024 KSPS
5)	11700.0000-12200.0000	H,V	6M00G7D	Rx			.98 M		QPSK, DATA, INROUTE, 5 MSPS
6)	11700.0000-12200.0000	H,V	12M0G7D	Rx			.98 M		QPSK, DATA, INROUTE, 10 MSPS
7)	14000.0000-14500.0000	H,V	200KG7D	Tx	44.00	27.00	1.0 M		QPSK, DATA, INROUTE, 128 KSPS
8)	14000.0000-14500.0000	H,V	400KG7D	Tx	44.00	24.00	1.0 M		QPSK, DATA, INROUTE, 256 KSPS
9)	14000.0000-14500.0000	H,V	800KG7D	Tx	44.00	21.00	1.0 M		QPSK, DATA, INROUTE, 512 KSPS
10)	14000.0000-14500.0000	H,V	1M60G7D	Tx	44.00	19.00	1.0 M		QPSK, DATA, INROUTE, 1024 KSPS
11)	11700.0000-12200.0000	H,V	12M0G7D	Rx			1.0 M		QPSK, DATA, INROUTE, 10 MSPS
12)	11700.0000-12200.0000	H,V	6M00G7D	Rx			1.0 M		QPSK, DATA, INROUTE, 10 MSPS
13)	14000.0000-14500.0000	H,V	200KG7D	Tx	46.10	29.10	1.2 M		QPSK, DATA, INROUTE, 128 KSPS
14)	14000.0000-14500.0000	H,V	400KG7D	Tx	46.10	26.10	1.2 M		QPSK, DATA, INROUTE, 256 KSPS



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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
15)	14000.0000-14500.0000	H, V	800KG7D	Tx	46.10	23.10	1.2 M		QPSK, DATA, INROUTE, 512 KSPS
16)	14000.0000-14500.0000	H, V	1M60G7D	Tx	46.10	20.10	1.2 M		QPSK, DATA, INROUTE, 1024 KSPS
17)	11700.0000-12200.0000	H, V	6M00G7D	Rx			1.2 M		QPSK, DATA, INROUTE, 5 MSPS
18)	11700.0000-12200.0000	H, V	12M0G7D	Rx			1.2 M		QPSK, DATA, INROUTE, 10 MSPS
19)	14000.0000-14500.0000	H, V	200KG7D	Tx	49.70	32.70	1.8 M		QPSK, DATA, INROUTE, 128 KSPS
20)	14000.0000-14500.0000	H, V	400KG7D	Tx	49.70	29.70	1.8 M		QPSK, DATA, INROUTE, 256 KSPS
21)	14000.0000-14500.0000	H, V	800KG7D	Tx	49.70	29.70	1.8 M		QPSK, DATA, INROUTE, 256 KSPS
22)	14000.0000-14500.0000	H, V	1M60G7D	Tx	49.70	23.70	1.8 M	1900	QPSK, DATA, INROUTE, 1024 KSPS
23)	11700.0000-12200.0000	H, V	12M0G7D	Rx			1.8 M		QPSK, DATA, INROUTE, 10 MSPS
24)	11700.0000-12200.0000	H, V	6M00G7D	Rx			1.8 M	1010	QPSK, DATA, INROUTE, 5 MSPS
25)	14000.0000-14500.0000	H, V	200KG7D	Tx	52.20	35.20	2.4 M		QPSK, DATA, INROUTE, 128 KSPS
26)	14000.0000-14500.0000	H, V	400KG7D	Tx	52.20	32.20	2.4 M		QPSK, DATA, INROUTE, 256 KSPS
27)	14000.0000-14500.0000	H, V	800KG7D	Tx	52.20	29.20	2.4 M		QPSK, DATA, INROUTE, 512 KSPS
28)	14000.0000-14500.0000	H, V	1M60G7D	Tx	52.20	26.20	2.4 M		QPSK, DATA, INROUTE, 1024 KSPS
29)	11700.0000-12200.0000	H, V	6M00G7D	Rx			2.4 M		QPSK, DATA, INROUTE, 5 MSPS
30)	11700.0000-12200.0000	H, V	12M0G7D	Rx			2.4 M		QPSK, DATA, INROUTE, 10 MSPS
31)	14000.0000-14500.0000	H, V	6M00G7D	Tx	75.10	43.30	6.1 M		QPSK, DATA, INROUTE, 5 MSPS
32)	14000.0000-14500.0000	H, V	12M0G7D	Tx	78.10	43.30	6.1 M		QPSK, DATA, INROUTE, 10 MSPS



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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
33)	11700.0000-12200.0000	H, V	800KG7D	Rx			6.1 M		QPSK, DATA, INROUTE, 10 MSPS
34)	11700.0000-12200.0000	H, V	200KG7D	Rx			6.1 M		QPSK, DATA, INROUTE, 128 KSPS
35)	11700.0000-12200.0000	H, V	400KG7D	Rx			6.1 M		QPSK, DATA, INROUTE, 256 KSPS
36)	11700.0000-12200.0000	H, V	1M60G7D	Rx			6.1 M		QPSK, DATA, INROUTE, 1024 KSPS

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)	14000.0000-14500.0000	62.0W-133.0W		05.0-05.0		000.0-000.0		-7.5	1.8 M
2)	11700.0000-12200.0000	62.0W-133.0W		05.0-05.0					1.8 M
3)	14000.0000-14500.0000	62.0W-133.0W		05.0-05.0				-7.3	1.2 M
4)	11700.0000-12200.0000	62.0W-133.0W		05.0-05.0					1.2 M
5)	14000.0000-14500.0000	62.0W-133.0W		05.0-05.0				-7.3	1.0 M
6)	11700.0000-12200.0000	62.0W-133.0W		05.0-05.0					1.0 M
7)	14000.0000-14500.0000	62.0W-133.0W		05.0-05.0				-8.5	2.4 M
8)	11700.0000-12200.0000	62.0W-133.0W		05.0-05.0					2.4 M
9)	14000.0000-14500.0000	62.0W-133.0W		40.6-11.9		166.6-250.3		-8.9	6.1 M
10)	11700.0000-12200.0000	62.0W-133.0W		40.6-11.9		166.6-250.3			6.1 M
11)	14000.0000-14500.0000	62.0W-133.0W		05.0-05.0				-8.5	.98 M
12)	11700.0000-12200.0000	62.0W-133.0W		05.0-05.0					.98 M

D) Points of Communications

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

- 1) REMOTE1 to Permitted Space Station List
- 2) REMOTE2 to Permitted Space Station List
- 3) REMOTE3 to Permitted Space Station List



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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:

- 4) REMOTE4 to Permitted Space Station List
- 5) HUB1 to Permitted Space Station List
- 6) REMOTE5 to GALAXY 3C (S2381) @ 95.05 W.L. (U.S.-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)
REMOTE5	.98 M	2000	0.98	PRODELIN	9008668			
Max Gains(s): 39.9 dBi @ 11.9500 GHz 41.3 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					2.00			
Maximum aggregate output EIRP for all carriers (dBW) =					44.30			
REMOTE3	1.0 M	500	1	PRODELIN	1102			
Max Gains(s): 39.8 dBi @ 11.9500 GHz 41.0 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					2.00			
Maximum aggregate output EIRP for all carriers (dBW) =					44.00			
REMOTE2	1.2 M	5000	1.2	PRODELIN	1134			
Max Gains(s): 41.5 dBi @ 11.9500 GHz 43.1 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					2.00			
Maximum aggregate output EIRP for all carriers (dBW) =					46.10			
REMOTE1	1.8 M	2000	1.8	PRODELIN	1184	0	0 AGL/ 0 AMSL	
Max Gains(s): 45.0 dBi @ 11.9500 GHz 46.7 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					2.00			
Maximum aggregate output EIRP for all carriers (dBW) =					49.70			
REMOTE4	2.4 M	100	2.4	PRODELIN	1244			
Max Gains(s): 47.7 dBi @ 11.9500 GHz 49.2 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					2.00			
Maximum aggregate output EIRP for all carriers (dBW) =					52.20			



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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)
HUB1	6.1 M	1	6.1	VERTEX	6.1KPK	43.9	10.2 AGL/ 54.1 AMSL	
Max Gains(s):		55.9 dBi @	11.9500 GHz	57.3 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						350.00		
Maximum aggregate output EIRP for all carriers (dBW) =						82.70		

F) Remote Control Point:

REMOTE1	770 COCHITUATE ROAD, 1.8 METER	Call Sign: E910563
	FRAMINGHAM, MIDDLESEX, MA 01701	
	508-390-7411	
REMOTE2	770 COCHITUATE ROAD, 1.2 METER	Call Sign: E910563
	FRAMINGHAM, MIDDLESEX, MA 01701	
	508-390-7411	
REMOTE3	770 COCHITUATE ROAD, 1.0 METER	Call Sign: E910563
	FRAMINGHAM, MIDDLESEX, MA 01701	
	508-390-2889	
REMOTE4	770 COCHITUATE ROAD, 2.4 METER	Call Sign: E910563
	FRAMINGHAM, MIDDLESEX, MA 01701	
	508-390-7411	
REMOTE5	770 COCHITUATE ROAD, .98 METER	Call Sign: E910563
	FRAMINGHAM, MIDDLESEX, MA 01701	
	508-390-7411	

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:

- 150 --- The 98 cm antenna complies with the antenna gain pattern as specified in Section 25.209(a) and Section 25.209(g) for off-axis angles greater than 1.25 degrees and up to 90 degrees in the GSO plane.
- 151 --- Waiver request to Section 25.134(a) of the Commission's rules is hereby granted to receive a maximum downlink EIRP density of +13 dBW/4kHz from the Galaxy III-C satellite located at 95 degrees W.L.
- 233 --- If a good faith agreement cannot be reached between the satellite operator and the operator of a future 2° compliant satellite, the earth station operator shall reduce its power to those levels that would accommodate the 2° compliant satellite.
- 234 --- If a good faith agreement cannot be reached between the satellite operator and the operator of a future 2° compliant satellite, the earth station operator shall accept the power density levels that would accommodate the 2° compliant satellite.
- 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.
- 2068 --- The use of these small diameter earth station facilities is authorized pursuant to the Commission's Declaratory Order in Routine Licensing of Large Networks of Small Antenna Earth Stations Operating in the 12/14 GHz Frequency Bands released April 9, 1986.
- 2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).
- 2325 --- Antennas and all antenna supporting structures used under this authorization shall not exceed 20 feet in height.
- 2540 --- The licensee must establish a point of contact for its communications network at which records of the location and frequency use of each small antenna will be maintained in order to effectively protect its receiving sites from licensed stations in the local television transmission service.



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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:

- 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).
- 5216 --- All operations shall be on a non-common carrier basis.



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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.