



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


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**RADIO STATION AUTHORIZATION**

**Name:** DATA TECHNOLOGY SOLUTIONS LLC

**Call Sign:** E100084

**Authorization Type:** License

**File Number:** SES-LIC-20100628-00842

Non Common Carrier

**Grant date:** 11/15/2010

**Expiration Date:** 11/15/2025

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Earth Stations on-board Vessels/VSAT

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	Oceans	US Waterways, Gulf of Mexico, Atlantic Ocean, Pacific Ocean, Caribbean Sea	0°0'0.0"N	0°0'0.0"W	0	83
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.						

*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 November 15, 2010 (3 AM Eastern Standard Time) and ending November 15, 2025 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is November 15, 2011 (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)	14000.0000-14500.0000	H,V	1M60G7W	Tx	36.55	10.53	Seatel160cm		Digital
2)	14000.0000-14500.0000	H,V	400KG7W	Tx	30.55	10.55	Seatel160cm		Digital
3)	14000.0000-14500.0000	H,V	470KG7W	Tx	31.25	10.55	Seatel160cm		Digital
4)	14000.0000-14500.0000	H,V	500KG7W	Tx	31.55	10.58	Seatel160cm		Digital
5)	11700.0000-12200.0000	H,V	1M76G7W	Rx	0.00	0.00	Seatel160cm		Digital
6)	11700.0000-12200.0000	H,V	3M52G7W	Rx	0.00	0.00	Seatel160cm		Digital
7)	11700.0000-12200.0000	H,V	5M77G7W	Rx	0.00	0.00	Seatel160cm		Digital
8)	14000.0000-14500.0000	H,V	1M60G7W	Tx	38.56	12.54	Seatel175cm		Digital
9)	14000.0000-14500.0000	H,V	400KG7W	Tx	32.51	12.51	Seatel175cm		Digital



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10)	14000.0000-14500.0000	H, V	470KG7W	Tx	33.26	12.56	Seate175cm		Digital
11)	14000.0000-14500.0000	H, V	500KG7W	Tx	33.50	12.53	Seate175cm		Digital
12)	11700.0000-12200.0000	H, V	1M76G7W	Rx	0.00	0.00	Seate175cm		Digital
13)	11700.0000-12200.0000	H, V	3M52G7W	Rx	0.00	0.00	Seate175cm		Digital
14)	11700.0000-12200.0000	H, V	5M77G7W	Rx	0.00	0.00	Seate175cm		Digital

**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)	11700.0000-12200.0000								Seate160cm
2)	11700.0000-12200.0000								Seate160cm
3)	14000.0000-14500.0000								Seate175cm
4)	14000.0000-14500.0000								Seate175cm

**D) Points of Communications**

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

- 1) Oceans to Permitted Space Station List
- 2) Oceans to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)



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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)
Oceans	Seatel60cm	250	0.6	Seatel	USAT 24	0	0 AGL/ 0 AMSL	
Max Gains(s):		36.9 dBi @	14.2500 GHz	35.3 dBi @	12.0000 GHz			
Maximum total input power at antenna flange (Watts) =				5.00				
Maximum aggregate output EIRP for all carriers (dBW) =				43.84				
Oceans	Seatel75cm	250	0.75	Seatel	USAT 30	0	0 AGL/ 0 AMSL	
Max Gains(s):		38.9 dBi @	14.2500 GHz	37.3 dBi @	12.0000 GHz			
Maximum total input power at antenna flange (Watts) =				5.00				
Maximum aggregate output EIRP for all carriers (dBW) =				45.84				

**F) Remote Control Point:**

Oceans      1305 Industrial Park Rd.      **Call Sign:** KA399  
 Mount Jackson, Shanandoah, VA 22842  
 (301) 258-3776

**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:

105 --- Subject to Rule Making: This license is subject to the outcome of any future rule making concerning ESV operations. Grant of this authorization shall not prejudice the outcome of any rulemaking.

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.



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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:

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.

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 insure 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 shall be immediately suspended until the deviation is corrected, except the 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).

2938 --- 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 the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 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.

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 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.**