



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

Name: Airbus DS SatCom Government, Inc.

Call Sign: KA312

Authorization Type: Modification of License

File Number: SES-MOD-20151001-00651

Non Common Carrier

Grant date: 12/29/2015

Expiration Date: 02/27/2024



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)	SBY20	2120 RIVER ROAD (new C-band Hub Antenna) SOUTHBURY, NEW HAVEN, CT 96488	41°27'4.5"N	73°17'0.2"W	36.6	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 February 27, 2009 (3 AM Eastern Standard Time) and ending February 27, 2024 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is December 29, 2016 (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)	6679.4200-6701.4200	R	22M0G7W	Tx	78.00	40.60	SBY20		OPERATIONAL C5 DIGITAL DATA FEEDER FAA-WAAS
2)	6679.4200-6701.4200	R	22M0G7W	Tx	83.00	45.60	SBY20		IOT C5 DIGITAL DATA FEEDER LINK SYSTEM TESTING FAA-WAAS
3)	6628.2700-6650.2700	R	22M0G7W	Tx	78.00	40.60	SBY20		OPERATIONAL C1 DIGITAL DATA FEEDER FAA-WAAS
4)	6628.2700-6650.2700	R	22M0G7W	Tx	83.00	45.60	SBY20		IOT C1 DIGITAL DATA FEEDER LINK SYSTEM TESTING FAA-WAAS
5)	4199.6000-4200.0000	R	0M4KG7W	Rx			SBY20		BEACON-2 PCM
6)	4198.0000-4198.4000	R	0M4KG7W	Rx			SBY20		BEACON-1 PCM
7)	1564.4200-1586.4200	R	22M0G7W	Rx			SBY20		OPERATIONAL C1 DIGITAL DATA FAA-WAAS



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8)	1564.4200-1586.4200	R	22M0G7W	Rx			SBY20		IOT-DIGITAL DATA SYSTEM TESTING FAA-WAAS
9)	1165.4500-1187.4500	R	22M0G7W	Rx			SBY20		OPERATIONAL C5 DIGITAL DATA FAA-WAAS
10)	1165.4500-1187.4500	R	22M0G7W	Rx			SBY20		IOT-DIGITAL DATA SYSTEM TESTING FAA-WAAS

**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)	6678.4200-6702.4200	116.0W	118.0W	25.6	24.3	234.4	236.2	-13.79	SBY20
2)	6627.2700-6651.2700	116.0W	118.0W	25.6	24.3	234.4	236.2	-13.79	SBY20
3)	1563.4200-1587.4200	116.0W	118.0W	25.6	24.3	234.4	236.2		SBY20
4)	1164.4500-1188.4500	116.0W	118.0W	25.6	24.3	234.4	236.2		SBY20
5)	4199.6000-4200.0000	116.0W	118.0W	25.6	24.3	234.4	236.2		SBY20
6)	4198.0000-4198.4000	116.0W	118.0W	25.6	24.3	234.4	236.2		SBY20

**D) Points of Communications**

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

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- 1) SBY20 to SATMEX-9 (S2926) @ 117 degrees W.L. (Mexico-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)
SBY20	SBY20	1	13.1	GD SATCOM	13.1 METER	36.6	15.1 AGL/ 51.7 AMSL	
Max Gains(s):		37.3 dBi @	1.1750 GHz	53.4 dBi @	4.2000 GHz	57.2 dBi @		
		6.7250 GHz						
Maximum total input power at antenna flange (Watts) =					759.00			
Maximum aggregate output EIRP for all carriers (dBW) =					86.00			

**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:

- 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.
- 2038 --- The licensee shall take extraordinary measures to ensure that the antenna does not create the potential for exposure of persons who may be within the immediate vicinity to radiofrequency radiation in excess of FCC safety guidelines. The earth station antenna shall be surrounded by a fence, at least 2 meters tall with a locked gate, to prevent human exposure in excess of the FCC-specified safety limit of 1 mW/cm<sup>2</sup>. Warning signs, such as those discussed in the FCC's OET Bulletin 65, shall be posted informing members of the public to keep outside the locked area.
- 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.
- 3848 --- The authorized frequency band(s) has (have) been cleared with the National Telecommunications and Information Administration.
- 5014 --- With respect to potential co-channel interference to or from terrestrial microwave radio stations, the transmit and receive frequency bands listed in this license have been cleared for transmissions to and from satellites located in the geostationary or non-geostationary orbit for the emissions designated in Section B of this license.



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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:

- 5015 --- 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.
- 5062 --- the Licensee(s) shall maintain as its first priority the service of maritime commercial, safety and distress needs, and in particular uphold the safety and distress requirements of the Global Maritime Distress and Safety System.
- 5208 --- The licensee shall take all necessary measures to ensure that the antenna 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 wherever such exposures might occur. 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.
- 5957 --- Licensees must comply with the terms of any L-band operator-to-operator coordination agreement. In the absence of a continuing L-band operator-to-operator coordination agreement, operations of METs in the 1525-1559 and 1626.5-1660.5 MHz bands will be on a non-harmful interference basis until a future operator-to-operator agreement is concluded. In this instance, each licensee must notify the other operators in these frequency bands that it will be operating on a non-harmful interference basis. Each licensee must notify its customers that its operations are on a non-harmful interference basis.
- 90204 --- Communications with the Satmex 9 space station are authorized based upon and subject to the conditions, waivers, and findings specified for Call Sign S2926.





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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.

