

## **Exhibit 1 – Narrative Explaining Corrections Requested to KA312 License**

### **Airbus Satcom DS Government, Inc.**

AirBus DS SatCom Government, Inc. (ASGI) respectfully requests modification of its Southbury, CT teleport license KA312 to remove the "1.52M" and "11M" antennas and to update the latitude and longitude listed in the license for SBY20.

As noted in listed in the responses to question E11 and E12 of the Modification Application's Schedule B the latitude and longitude which should be listed in the KA312 license for SBY20 is 41° 27' 4.524" N, 73° 17' 24.01" W. That is the only change being made for the SBY20 antenna. All other aspects of the KA312 license for SBY20 are to remain as is.

The reason that removal of the "1.52M" and "11M" antennas from the KA312 license is required is that they are now authorized on the ASGI Southbury, CT teleport license E990032. The authorizations for these antennas were moved from the KA312 license to the E990032 license in January 2015. (see SES-MFS-20140809-00645 for further details as to why the authorizations needed to be moved) At that time a separate Modification Application (SES-MFS-20140630-00546) was pending before the Commission to add authorization for SBY20 to the KA312 license. It was unclear though as to how soon the Commission would be acting on that request and removal of the "1.52M" and "11M" antennas from KA312 at that time would have left the license with no Site IDs, Facilities or other particulars. ASGI and Commission staff therefore agreed that the best interim solution was to leave the "1.52M" and "11M" antennas on KA312 until the Commission acted upon the application adding SBY20 to KA312. So at the time the Commission added authorizations for the "1.52M" and "11M" antennas to the E990032 license a condition was added to the KA312 license stating that Antenna IDs "1.52M" and "11M" ... must be removed by modification upon grant of IBFS File No. SES-MFS-20140630-00546.

The grant of IBFS File No. SES-MFS-20140630-00546 adding the SBY20 authorization to KA312 has now been issued. It is therefore requested that Antenna IDs "1.52M" and "11M" be removed from the KA312 license by making the deletions shown on the mark-up of the current KA312 license which follows herewith. If anything is not clear from the above or the license mark-up exhibit please contact James G. Lovelace at 703-466-5945 or [james.lovelace@astrium.eads-na.com](mailto:james.lovelace@astrium.eads-na.com).



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**RADIO STATION AUTHORIZATION**  
*Current Authorization : FCC WEB Reproduction*  
 Unofficial Copy

Name: AIRBUS DS SATCOM GOVERNMENT, INC.

Call Sign: KA312  
 File Number: SES-MFS-20140630-00546

Authorization Type: Modification of License  
 Non Common Carrier Grant Date: 08/28/2015 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)	NAD	Special Provisions (Refer to Section H)
<del>1) SOUTHBURY</del>	<del>2120 RIVER RD SOUTHBURY, NEW HAVEN, CT, 06488</del>	<del>41° 27' 6.3" N</del>	<del>73° 17' 21.4" W</del>	<del>36.6</del>	<del>83</del>	
<del>Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209</del>						
2) SBY20	2120 RIVER ROAD (new C-band Hub Antenna) SOUTHBURY, NEW HAVEN, CT, 06488	41° 27' 6.3" N	73° 17' 16.4" 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 Friday, February 27, 2009 (3 AM Eastern Standard Time) and ending Tuesday, February 27, 2024 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Thursday, January 21, 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	Polarization	Emission	Tx/Rx Mode	Max EIRP /Carrier	Max EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
<del>1) 1626.5000 - 1660.5000</del>	<del>L,R</del>	<del>NON</del>	<del>T</del>	<del>31.00</del>	<del>31.00</del>	<del>1.52M</del>	<del>PILOT</del>	
2) 1626.5000 - 1660.5000	L,R	24K0F3E	T	36.00	33.70	1.52M		ANALOG CARRIER
3) 1626.5000 - 1660.5000	L,R	10K5G2F	T	36.00	31.80	1.52M		DIGITAL CARRIER
4) 1626.5000 - 1660.5000	L,R	1K20G1D	T	36.00	36.00	1.52M		DIGITAL CARRIER
5) 1626.5000 - 1660.5000	L,R	1K20G2D	T	36.00	36.00	1.52M		DIGITAL CARRIER
6) 1626.5000 - 1660.5000	L,R	2K40G2D	T	36.00	36.00	1.52M		DIGITAL CARRIER
7) 1626.5000 - 1660.5000	L,R	600HG1D	T	36.00	36.00	1.52M		DIGITAL CARRIER
8) 1626.5000 - 1660.5000	L,R	600HG2D	T	36.00	36.00	1.52M		DIGITAL CARRIER
9) 1626.5000 - 1649.5000	L,R	10K5G1E	T	31.20	27.00	1.52M		AERO
10) 1626.5000 - 1649.5000	L,R	1K20G1D	T	18.00	18.00	1.52M		AERO



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<del>11) 1626.5000 - 1649.5000</del>	<del>L,R</del>	<del>2K40G1D</del>	<del>T</del>	<del>21.00</del>	<del>21.00</del>	<del>1.52M</del>	<del>AERO</del>
12) 1626.5000 - 1649.5000	L,R	600HG1D	T	15.00	15.00	1.52M	AERO
13) 1626.5000 - 1647.5000	L,R	NON	T	37.00	37.00	1.52M	PILOT
14) 1626.5000 - 1647.5000	L,R	1K20G1D	T	16.00	16.00	1.52M	STD-C
15) 1626.5000 - 1647.5000	L,R	600HG1D	T	16.00	16.00	1.52M	STD-C
16) 1626.5000 - 1647.5000	L,R	30K0F3E	T	37.00	33.70	1.52M	STA A VOICE
17) 1626.5000 - 1647.5000	L,R	4K80G1D	T	37.00	37.00	1.52M	STD A TELEX
18) 1574.4000 - 1576.6000	L,R	10K5G2F	R			1.52M	DIGITAL CARRIER
19) 1574.4000 - 1576.6000	L,R	1K20G1D	R			1.52M	DIGITAL CARRIER
20) 1574.4000 - 1576.6000	L,R	1K20G2D	R			1.52M	DIGITAL CARRIER
21) 1574.4000 - 1576.6000	L,R	2K40G1D	R			1.52M	DIGITAL CARRIER
22) 1574.4000 - 1576.6000	L,R	600HG1D	R			1.52M	DIGITAL CARRIER
23) 1574.4000 - 1576.6000	L,R	600HG2D	R			1.52M	DIGITAL CARRIER
24) 1530.0000 - 1548.0000	L,R	10K5G1E	R			1.52M	AERO
25) 1530.0000 - 1548.0000	L,R	1K20G1D	R			1.52M	AERO
26) 1530.0000 - 1548.0000	L,R	2K40G1D	R			1.52M	AERO
27) 1530.0000 - 1548.0000	L,R	600HG1D	R			1.52M	AERO
28) 1530.0000 - 1545.0000	L,R	NON	R			1.52M	PILOT
29) 1530.0000 - 1545.0000	L,R	1K20G1D	R			1.52M	STD-C
30) 1530.0000 - 1545.0000	L,R	600HG1D	R			1.52M	STD-C
31) 1530.0000 - 1545.0000	L,R	1K20G1D	R			1.52M	STRD A TELEX
32) 1530.0000 - 1545.0000	L,R	30K0F3E	R			1.52M	STD A VOICE
33) 1525.0000 - 1599.0000	L,R	10K5G2F	R			1.52M	DIGITAL CARRIER
34) 1525.0000 - 1599.0000	L,R	1K20G1D	R			1.52M	DIGITAL CARRIER
35) 1525.0000 - 1599.0000	L,R	1K20G2D	R	0.00	0.00	1.52M	DIGITAL CARRIER
36) 1525.0000 - 1599.0000	L,R	2K40G1D	R	0.00	0.00	1.52M	DIGITAL CARRIER
37) 1525.0000 - 1599.0000	L,R	600HG1D	R	0.00	0.00	1.52M	DIGITAL CARRIER
38) 1525.0000 - 1599.0000	L,R	600HG2D	R	0.00	0.00	1.52M	DIGITAL CARRIER
39) 6454.4000 - 6456.6000	L,R	1K20G1D	T	42.50	42.50	11M	DIGITAL CARRIER
40) 6454.4000 - 6456.6000	L,R	10K5G2F	T	42.50	38.30	11M	DIGITAL CARRIER
41) 6454.4000 - 6456.6000	L,R	1K20G2D	T	42.50	42.50	11M	DIGITAL CARRIER
<del>42) 6454.4000 - 6456.6000</del>	<del>L,R</del>	<del>2K40G2D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>



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<del>43) 6454.4000 - 6456.6000</del>	<del>L,R</del>	<del>2M20G1D</del>	<del>T</del>	<del>78.00</del>	<del>50.60</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>44) 6454.4000 - 6456.6000</del>	<del>L,R</del>	<del>600HG1D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>45) 6454.4000 - 6456.6000</del>	<del>L,R</del>	<del>600HG2D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>46) 6454.4000 - 6456.6000</del>	<del>L,R</del>	<del>2M20G1D</del>	<del>T</del>	<del>82.30</del>	<del>54.90</del>	<del>11M</del>	<del>BPSK SPREAD SPECTRUM DATA (NAVIGATION) TO SUPPORT FAA-WASS PROGRAM</del>
<del>47) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>10K5G2F</del>	<del>T</del>	<del>42.50</del>	<del>38.30</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>48) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>1K20G1D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>49) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>1K20G2D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>50) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>2K40G2D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>51) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>2M20G1D</del>	<del>T</del>	<del>78.00</del>	<del>50.60</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>52) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>2M20G1D</del>	<del>T</del>	<del>82.30</del>	<del>54.90</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>53) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>600HG1D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>54) 6425.0000 - 6454.0000</del>	<del>L,R</del>	<del>600HG2D</del>	<del>T</del>	<del>42.50</del>	<del>42.50</del>	<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>55) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>12K0G3E</del>	<del>T</del>			<del>11M</del>	<del>INM B,C,M FEEDERLINK</del>
<del>56) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>6K00G1D</del>	<del>T</del>			<del>11M</del>	<del>INM B,C,M FEEDERLINK</del>
<del>57) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>12K0G1D</del>	<del>T</del>			<del>11M</del>	<del>INM B,C,M FEEDERLINK</del>
<del>58) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>4K00G1D</del>	<del>T</del>			<del>11M</del>	<del>INM B,C,M FEEDERLINK</del>
<del>59) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>4K00G3E</del>	<del>T</del>			<del>11M</del>	<del>INM B,C,M FEEDERLINK</del>
<del>60) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>7K50G3E</del>	<del>T</del>			<del>11M</del>	<del>INM B,C,M FEEDERLINK</del>
<del>61) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>1K20G1D</del>	<del>T</del>	<del>65.00</del>	<del>65.00</del>	<del>11M</del>	<del>AERO, FEEDERLINK</del>
<del>62) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>600HG1D</del>	<del>T</del>	<del>65.00</del>	<del>65.00</del>	<del>11M</del>	<del>AERO, FEEDERLINK</del>
<del>63) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>2K40G1D</del>	<del>T</del>	<del>65.00</del>	<del>65.00</del>	<del>11M</del>	<del>TDM, AERO, FEEDERLINK</del>
<del>64) 6417.5000 - 6443.0000</del>	<del>L,R</del>	<del>10K5G1E</del>	<del>T</del>	<del>69.20</del>	<del>65.00</del>	<del>11M</del>	<del>DIGITAL VOICE, AERO, FEEDERLINK</del>
<del>65) 6417.5000 - 6440.0000</del>	<del>L,R</del>	<del>NON</del>	<del>T</del>	<del>77.00</del>	<del>77.00</del>	<del>11M</del>	<del>PILOT</del>
<del>66) 6417.5000 - 6440.0000</del>	<del>L,R</del>	<del>600HG1D</del>	<del>T</del>	<del>77.00</del>	<del>77.00</del>	<del>11M</del>	<del>TDM, STD C, FEEDERLINK</del>
<del>67) 6417.5000 - 6440.0000</del>	<del>L,R</del>	<del>1K20G1D</del>	<del>T</del>	<del>77.00</del>	<del>77.00</del>	<del>11M</del>	<del>TDM, STD C, FEEDERLINK</del>
<del>68) 6417.5000 - 6440.0000</del>	<del>L,R</del>	<del>1K20G1D</del>	<del>T</del>	<del>77.00</del>	<del>77.00</del>	<del>11M</del>	<del>TDM, STD A, TELEX, FEEDERLINK</del>
<del>69) 6417.5000 - 6440.0000</del>	<del>L,R</del>	<del>30K0F3E</del>	<del>T</del>	<del>77.00</del>	<del>77.00</del>	<del>11M</del>	<del>ANALOG STD-A, VOICE, FEEDERLINK</del>
<del>70) 5925.0000 - 6425.0000</del>	<del>H,V,L,R</del>	<del>18M0F8F-</del>	<del>T</del>	<del>80.50</del>	<del>53.50</del>	<del>11M</del>	<del>ANALOG VIDEO</del>
<del>71) 5925.0000 - 6425.0000</del>	<del>H,V,L,R</del>	<del>36M0F8F</del>	<del>T</del>	<del>80.50</del>	<del>53.50</del>	<del>11M</del>	<del>ANALOG VIDEO</del>
<del>72) 5925.0000 - 6425.0000</del>	<del>H,V,L,R</del>	<del>4M00G7F-</del>	<del>T</del>	<del>85.80</del>	<del>46.30</del>	<del>11M</del>	<del>DIGITAL VIDEO</del>



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<del>73) 5925.0000 - 6425.0000</del>	<del>H,V,L,R</del>	<del>36M0G7F</del>	<del>T</del>	<del>81.30</del>	<del>51.30</del>	<del>11M</del>	<del>DIGITAL VIDEO</del>
<del>74) 5925.0000 - 6425.0000</del>	<del>H,V,L,R</del>	<del>21K9G7D-</del>	<del>T</del>	<del>85.80</del>	<del>43.20</del>	<del>11M</del>	<del>DIGITAL DATA</del>
<del>75) 5925.0000 - 6425.0000</del>	<del>H,V,L,R</del>	<del>72M0G7D</del>	<del>T</del>	<del>58.70</del>	<del>51.30</del>	<del>11M</del>	<del>DIGITAL DATA</del>
<del>76) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>12K0G1D</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M</del>
<del>77) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>12K0G3E</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M</del>
<del>78) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>3K00G1E</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M</del>
<del>79) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>4K00G1D</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M</del>
<del>80) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>4K00G3E</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M</del>
<del>81) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>7K50G3E</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M</del>
<del>82) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>2K40G1D</del>	<del>R</del>			<del>11M</del>	<del>TDM, AERO, FEEDERLINK</del>
<del>83) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>1K20G1D</del>	<del>R</del>			<del>11M</del>	<del>TDM, STD-C, AERO FEEDERLINK</del>
<del>84) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>600HG1D</del>	<del>R</del>			<del>11M</del>	<del>TDM, STD-C, AERO FEEDERLINK</del>
<del>85) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>10K5G1E</del>	<del>R</del>			<del>11M</del>	<del>TDM, STD-C, AERO FEEDERLINK</del>
<del>86) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>4K80G1D</del>	<del>R</del>			<del>11M</del>	<del>TDM, STD-C, AERO FEEDERLINK</del>
<del>87) 4192.5000 - 4200.0000</del>	<del>L,R</del>	<del>NON</del>	<del>R</del>			<del>11M</del>	<del>PILOT</del>
<del>88) 3700.0000 - 4200.0000</del>	<del>H,V,L,R</del>	<del>18M0F8F-</del>	<del>R</del>			<del>11M</del>	<del>ANALOG VIDEO</del>
<del>89) 3700.0000 - 4200.0000</del>	<del>H,V,L,R</del>	<del>36M0F8F</del>	<del>R</del>			<del>11M</del>	<del>ANALOG VIDEO</del>
<del>90) 3700.0000 - 4200.0000</del>	<del>H,V,L,R</del>	<del>4M00G7F-</del>	<del>R</del>			<del>11M</del>	<del>DIGITAL VIDEO</del>
<del>91) 3700.0000 - 4200.0000</del>	<del>H,V,L,R</del>	<del>36M0G7F</del>	<del>R</del>			<del>11M</del>	<del>DIGITAL VIDEO</del>
<del>92) 3700.0000 - 4200.0000</del>	<del>H,V,L,R</del>	<del>21K9G7D</del>	<del>R</del>			<del>11M</del>	<del>DIGITAL DATA</del>
<del>93) 3700.0000 - 4200.0000</del>	<del>H,V,L,R</del>	<del>72M0G7D</del>	<del>R</del>			<del>11M</del>	<del>DIGITAL DATA</del>
<del>94) 3629.4000 - 3631.6000</del>	<del>L,R</del>	<del>2M20G1D</del>	<del>R</del>			<del>11M</del>	<del>BPSK SPREAD SPECTRUM DATA (NAVIGATION) TO SUPPORT FAA-WASS PROGRAM</del>
<del>95) 3600.0000 - 3629.0000</del>	<del>L,R</del>	<del>2M20G1D</del>	<del>R</del>			<del>11M</del>	<del>DIGITAL CARRIER</del>
<del>96) 3600.0000 - 3623.0000</del>	<del>L,R</del>	<del>10K5G1E</del>	<del>R</del>			<del>11M</del>	<del>DIGITAL VOICE, AERO</del>
<del>97) 3600.0000 - 3623.0000</del>	<del>L,R</del>	<del>12K0G1D</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M, FEEDERLINK</del>
<del>98) 3600.0000 - 3623.0000</del>	<del>L,R</del>	<del>12K0G3E</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M, FEEDERLINK</del>
<del>99) 3600.0000 - 3623.0000</del>	<del>L,R</del>	<del>3K00G1D</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M, FEEDERLINK</del>
<del>100) 3600.0000 - 3623.0000</del>	<del>L,R</del>	<del>4K00G1D</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M, FEEDERLINK</del>
<del>101) 3600.0000 - 3623.0000</del>	<del>L,R</del>	<del>4K00G3E</del>	<del>R</del>			<del>11M</del>	<del>INM B,C,M, FEEDERLINK</del>



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Non Common Carrier	Grant Date:	08/28/2015	Expiration Date:	02/27/2024			
<del>102) 3600.0000 - 3623.0000</del>	<del>L,R</del>	<del>7K59G3E</del>	<del>R</del>	<del>11M</del>	<del>INM B,C,M, FEEDERLINK</del>		
103) 3600.0000 - 3623.0000	L,R	1K20G1D	R	11M	TDM, AERO, FEEDERLINK		
104) 3600.0000 - 3623.0000	L,R	2K40G1D	R	11M	TDM, AERO, FEEDERLINK		
105) 3600.0000 - 3623.0000	L,R	4K80G1D	R	11M	TDM, AERO, FEEDERLINK		
106) 3600.0000 - 3623.0000	L,R	600HG1D	R	11M	TDM, AERO, FEEDERLINK		
107) 3600.0000 - 3620.0000	L,R	1K20G1D	R	11M	STD-C		
108) 3600.0000 - 3620.0000	L,R	600HG1D	R	11M	STD-C		
109) 3600.0000 - 3620.0000	L,R	NON	R	11M	PILOT		
110) 3600.0000 - 3620.0000	L,R	30K0F3E	R	11M	STD A VOICE		
<del>111) 3600.0000 - 3620.0000</del>	<del>L,R</del>	<del>4K80G1D</del>	<del>R</del>	<del>11M</del>	<del>STD A TELEX</del>		
112) 6679.4200 - 6701.4200	R	22M0G7W	T	83.00	45.60	SBY20	IOT C5 DIGITAL DATA FEEDER LINK SYSTEM TESTING FAA-WAAS
113) 6679.4200 - 6701.4200	R	22M0G7W	T	78.00	40.60	SBY20	OPERATIONAL C5 DIGITAL DATA FEEDER FAA-WAAS
114) 6628.2700 - 6650.2700	R	22M0G7W	T	83.00	45.60	SBY20	IOT C1 DIGITAL DATA FEEDER LINK SYSTEM TESTING FAA-WAAS
115) 6628.2700 - 6650.2700	R	22M0G7W	T	78.00	40.60	SBY20	OPERATIONAL C1 DIGITAL DATA FEEDER FAA-WAAS
116) 4199.6000 - 4200.0000	R	0M4KG7W	R			SBY20	BEACON-2 PCM
117) 4198.0000 - 4198.4000	R	0M4KG7W	R			SBY20	BEACON-1 PCM
118) 1564.4200 - 1586.4200	R	22M0G7W	R			SBY20	IOT-DIGITAL DATA SYSTEM TESTING FAA-WAAS
119) 1564.4200 - 1586.4200	R	22M0G7W	R			SBY20	OPERATIONAL C1 DIGITAL DATA FAA-WAAS
120) 1165.4500 - 1187.4500	R	22M0G7W	R			SBY20	IOT-DIGITAL DATA SYSTEM TESTING FAA-WAAS
121) 1165.4500 - 1187.4500	R	22M0G7W	R			SBY20	OPERATIONAL C5 DIGITAL DATA FAA-WAAS

**C) Frequency Coordination**

#	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		
<del>1)</del>	<del>1625.0000 - 1660.0000</del>			<del>5.2</del>	<del>5.7</del>	<del>102.6</del>	<del>256.9</del>	<del>0.0</del>	<del>1.52M</del>
2)	1625.0000 - 1660.0000			5.2	5.7	102.6	256.9	0.0	1.52M
3)	1574.4000 - 1576.6000	2.0W	144.0W	5.2	5.7	102.6	256.9	0.0	11M
4)	3600.0000 - 3623.0000	2.0W	144.0W	5.2	5.7	102.6	256.9	0.0	11M
5)	4192.5000 - 4200.0000	2.0W	144.0W	5.2	5.7	102.6	256.9	0.0	11M



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<del>6) 6417.5000 - 6454.0000</del>	<del>2.0W-144.0W</del>	<del>5.2 - 5.7</del>	<del>102.6 - 256.9</del>	<del>13.9</del>	<del>11M</del>	
7) 6454.4000 - 6456.6000	2.0W-91.0W	5.3 - 38.8	102.6 - 205.7	13.9	11M	
8) 3629.4000 - 3631.6000	2.0W-91.0W	5.3 - 38.8	102.6 - 205.7		11M	
9) 3600.0000 - 3629.0000	2.0W-91.0W	5.3 - 38.8	102.6 - 205.7		11M	
10) 5925.0000 - 6425.0000	2.0W-144.0W	5.3 - 5.7	102.6 - 257.0	39.7	11M	
<del>11) 3700.0000 - 4200.0000</del>	<del>2.0W-144.0W</del>	<del>5.3 - 5.7</del>	<del>102.6 - 257.0</del>	<del>11M</del>		
12) 6678.4200 - 6702.4200	116.0W-118.0W	25.6 - 24.3	234.4 - 236.2	-13.79	SBY20	
13) 6627.2700 - 6651.2700	116.0W-118.0W	25.6 - 24.3	234.4 - 236.2	-13.79	SBY20	
14) 1563.4200 - 1587.4200	116.0W-118.0W	25.6 - 24.3	234.4 - 236.2		SBY20	
15) 1164.4500 - 1188.4500	116.0W-118.0W	25.6 - 24.3	234.4 - 236.2		SBY20	
16) 4199.6000 - 4200.0000	116.0W-118.0W	25.6 - 24.3	234.4 - 236.2		SBY20	
17) 4198.0000 - 4198.4000	116.0W-118.0W	25.6 - 24.3	234.4 - 236.2		SBY20	

**D) Point of Communications**

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

- ~~1) SOUTHBURY to INMARSAT Ltd. 2 satellite(s) @ 17 W.L. in AOR-EAST (United Kingdom-licensed) (Non-U.S.-licensed)~~
- ~~2) SOUTHBURY to INMARSAT Ltd. 2 satellite(s) @ 98 W.L. in AOR-WEST (United Kingdom-licensed) (Non-U.S.-licensed)~~
- ~~3) SOUTHBURY to INMARSAT Ltd. 3 satellite(s) @ 15.5 W.L. in AOR-E (United Kingdom-licensed) (Non-U.S.-licensed)~~
- ~~4) SOUTHBURY to INTEL SAT V.F. 6 satellite - 18.5 W.L. of the INTEL SAT system (U.S. licensed)~~
- 5) SOUTHBURY to Permitted Space Station List
- ~~6) SOUTHBURY to INMARSAT 4F2 satellite(s) @ 52.75 W.L. in AOR-EAST (United Kingdom-licensed)~~
- ~~7) SOUTHBURY to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band~~
- 8) SBY20 to SATMEX-9 (S2926) @ 117 degrees W.L. (Mexico-licensed)

**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
SOUTHBURY	1.52M	1	1.52	COMSAT LABS		36.6	2.13 AGL / 38.7 AMSL	

~~Max Gains(s): 25.5 dBi @ 1.0000 GHz, 25.7 dBi @ 1.6400 GHz  
 Maximum total input power at antenna flange (Watts) = 0.0  
 Maximum aggregate output EIRP for all carriers (dBW) 0.0~~



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~~SOUTHBLRV 11M 0 11.0 SCIENTIFIC 8007 36.6 12.8 AGL/  
 ATLANTA 49.4 AMSL~~

~~Max Gains(s):  
 Maximum total input power at antenna flange (Watts) = 1500.0  
 Maximum aggregate output EIRP for all carriers (dBW)85.8~~

~~SOUTHBLRV 11M 1 11.0 SCIENTIFIC 8007 36.6 12.8 AGL/  
 ATLANTA 49.4 AMSL~~

~~Max Gains(s):51.5 dBi @ 4.0000 GHz 54.0 dBi @ 6.0090 GHz 51.5 dBi @ 3.9500 GHz 54.0 dBi @ 6.1750 GHz  
 Maximum total input power at antenna flange (Watts) = 2000.0  
 Maximum aggregate output EIRP for all carriers (dBW)87.0~~

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) = 759.0  
 Maximum aggregate output EIRP for all carriers (dBW)86.0

**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:

214 ~~Authority IS GRANTED pursuant to Section 25.210(j) of the Commissions rules, to permit operations of earth stations with the Inmarsat 4F2 satellite, maintained at ±.10 degree of the 52.75° W.L., subject to the condition that this waiver and the operations it permits shall terminate in the event that a satellite is launched into a location such that its stationkeeping volume would overlap the Inmarsat 4F2 satellites ± 0.10 degree stationkeeping volume, but would not overlap the Inmarsat 4F2 satellites ±0.05° degree stationkeeping volume, unless Inmarsat has successfully coordinated its physical operations with those of the other spacecraft.~~

215 ~~Operations via the Inmarsat 4F2 satellite using a north-south inclination of as much as three degrees ARE GRANTED, conditioned on operations of the 4F2 complying with the inclined orbit requirements set forth in Sections 25.280(b)(1)-(3) of the Commissions rules~~

216 ~~Operations in the 1544-1545/1645-3-1646.5 MHz frequency bands ARE LIMITED to distress and safety communications, in accordance with International Footnotes 5.356 and 5.375 of the ITU Radio Regulations.~~

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/cm2. 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.





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**H) Special and General Provisions**

- 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.
- 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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### H) Special and General Provisions

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 regulates 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.