

(CORRECTED NARRATIVE)

Airbus DS SatCom Government, Inc.

Request for Special Temporary Authority for
Testing of Southbury, CT Teleport 13.1 Meter C-Band Hub Antenna
Utilizing Low Power CW Carrier to
Communicate With IS-903 Satellite at 325.5 W.L.

Call Sign KA312

FILE NO. SES-MFS-20140630-00546

Airbus DS SatCom Government, Inc. (ASGI) requests a grant of Special Temporary Authority (“STA”) for testing of a 13.1 Meter C-Band Hub Antenna located at its Southbury, CT Teleport (identified as SBY20) utilizing a CW Carrier to communicate with the IS-903 Satellite at 34.5 W.L. ASGI also hereby requests a partial waiver of the frequency coordination requirements for purposes of the testing for which STA is sought.

The requested partial waiver is only to the extent that this requirement is for a report specifically prepared for SBY 20. ASGI is respectfully requesting that the coordination requirements for purposes of the testing STA be satisfied with a Frequency Coordination and Interference Analysis Report for a similar nearby Hub Antenna.

This nearby Hub Antenna is currently authorized per KA312 and is identified in the “Antenna Facilities” section of the KA312 license as Southbury 11M. The Frequency Coordination and Interference Analysis Report for Southbury 11M was originally submitted to the Commission in 2002 with a KA312 Modification Application (SES-MOD-20020919-01620) to add ALSAT authorization for Southbury 11M. Southbury 11M is sited nearby SBY 20 on the grounds of the Southbury teleport and the power and other specifications that were used for the Southbury 11M frequency coordination are comparable to that to be used for the SBY 20 testing. ASGI therefore respectfully requests that the Southbury 11M coordination report which is being attached to the STA application be accepted to satisfy the coordination requirements for purposes of the SBY 20 testing STA.

No other waivers are needed or requested for testing of the antenna and the antenna fully complies with all Commission Regulations. All technical characteristics and parameters for the testing follow on the next page. Grant of the STA is in the public interest because the purpose of the testing is to help prepare the antenna for operations which will support the Federal Aviation Authority Wide Area Augmentation System.

Accordingly, ASGI respectfully requests that the Bureau grant the STA for a period of thirty days beginning August 3, 2015. Any questions with respect to this matter may be directed to James G. Lovelace at 703 466 5945.

Technical Characteristics and Parameters

Antenna Size	13.1m
Antenna Latitude/Longitude	41° 27' 4.55" N, 73° 17 ' 24.01" W
Antenna height above Ground Level (meters)	15.1
Antenna height above Sea Level (meters)	51.7
Antenna Gain	53.4 dBi @ 4.200/57.2 dBi @ 6.725
Total Input Power at antenna flange (Watts)	0.398
Total EIRP for all carriers (dBW)	53.2
Transmit Parameters	
Frequency range	5925 – 6425 MHz
Antenna Polarization	Right & Left Hand Circular
Emission Designators	N0N (pure carrier)
Maximum EIRP per Carrier	53.2
Maximum EIRP Density per Carrier(dBW/4kHz)	53.2
Receive Parameters	
Frequency range	3700-4200 MHz
Antenna Polarization	Right & Left Hand Circular
Emission Designators	N0N (pure carrier)
Maximum EIRP per Carrier	N/A
Maximum EIRP Density per Carrier (dBW/4kHz)	N/A
FREQUENCY COORDINATION Information	
Satellite Orbit Type	Geostationary
Frequency Limits	3700-4200 & 5925 – 6425 MHz
Range of Satellite Arc	2W-144W
Earth Station Azimuth Angle Eastern Limit	102.6
Earth Station Azimuth Angle Western Limit	257.0
Antenna Elevation Angle Eastern Limit	5.3
Antenna Elevation Angle Western Limit	5.7
Maximum EIRP Density toward the Horizon	53.2