



ATLAS Space Operations

E190037

Request for Modification to Add Additional Points of Communication

Pursuant to Section 1.65 of the Commission's Rules, ATLAS Space Operations, Inc (ATLAS) is responsible for the continuing accuracy of information. Therefore, ATLAS has provided this amendment to update the document to reflect the accurate information to also include the addition of the Capella constellation, Capella 2-9, and YAM-3 and YAM-5.

ATLAS Space Operations, Inc (ATLAS) requests authority to add additional points of communication to the fixed earth station located in Dededo, Guam (Call Sign 190037) utilizing X-band downlink as well as S-band and UHF uplink and downlink frequencies to communicate with FCC approved spacecraft.

ATLAS has provided an additional Schedule B with complete technical details to facilitate the evaluation of the requested additional points of communication, Capella 2-9. The Schedule B also includes S and X-Band technical details for the YAM-3 and YAM -5 satellites.

Frequency Coordination is in progress and Society of Broadcast Engineer coordination has been completed. ATLAS understands that Capella and LOFT are pending completion of coordination efforts with NASA, NOAA, and the Air Force for utilizing their frequency bands with the Guam earth station and therefore will not transmit in these bands until this coordination effort is complete.

Previously a Schedule B was provided to include the technical details of the following satellites, YAM-3, SkySat Constellation, as well as FalconSat 6 and 8 satellites. Frequency coordination for these satellites was completed on September 10, 2021 with no comments. ATLAS also coordinated with the Society of Broadcast Engineers and did not receive any comments.

The previous Schedule B for UHF support of YAM-3 should also include YAM-5 (S3147) as an additional point of communication and no additional frequency coordination is required for this UHF support as RF technical parameters are identical.

Below ATLAS has summarized all additional points of communication spacecraft and the associated technical parameters for quick reference.



Additional Points of Communication

Capella 2-4, 5-6, 7-8, 9 (S3073, S3080, S3100, S3137)

(1) TT&C uplink

Center Frequency:

2036.0 MHz

Emission Designator: 1M40F1D

Polarity: RHCP

Max EIRP Per Carrier (dBW): 41

Max EIRP Density Per Carrier (dBW/4 kHz): 15.5

(2) TT&C Downlink

Center Frequency:

8027 MHz

Emission Designator: 1M40F1D

Polarity: RHCP

(3) Payload Downlink

Center Frequency:

8212 MHz

Emission Designator: 375MG1D

Polarity: RHCP

YAM-3 (S3072)

****Additionally YAM-5 (S3147)**

(1) TT&C uplink

Center Frequency:

2071.875 MHz

Emission Designator: 132KG1D

Polarity: RCHP

Max EIRP Per Carrier (dBW): 44.8

Max EIRP Density Per Carrier (dBW/4 kHz): 36.9

(2) TT&C Downlink

Center Frequency: 8125 MHz

Emission Designator: 100M0G1D

Polarity: RHCP

YAM-3 (S3072)

****Additionally YAM-5 (S3147)**

(1) TT&C uplink



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Center Frequency:

450.2 MHz

Emission Designator: 17K0F1D

Polarity: LHCP/RCHP

Max EIRP Per Carrier (dBW): 29

Max EIRP Density Per Carrier (dBW/4 kHz): 20.3

(2) TT&C Downlink

Center Frequency: 401.5 MHz

Emission Designator: 34K0F1D

Polarity: LHCP/RHCP

SkySat Constellation (S2912)

(1) TT&C uplink

Center Frequency:

2081 MHz

2083 Mhz

Emission Designator: 124KF1D

Polarity: RCHP

Max EIRP Per Carrier (dBW): 52

Max EIRP Density Per Carrier (dBW/4 kHz): 35

(2) TT&C Downlink

Center Frequency:

8375 MHz

8380 Mhz

Emission Designator: 256KF1D

Polarity: RHCP

(3) Payload Downlink

Center Frequency:

8075 MHz

8200 Mhz

8325 Mhz

Emission Designator: 56M3F1D

Polarity: RHCP



FalconSat-6 & FalconSat-8

(1) TT&C uplink

Center Frequency:

2109.75 MHz

****UPDATED Emission Designator: 10K0G1D**

Previously: 10K0G7W

Polarity: RHCP

Max EIRP Per Carrier (dBW): 52

Max EIRP Density Per Carrier (dBW/4 kHz): 40.33

(2) TT&C Downlink

Center Frequency:

2288 MHz

****UPDATED Emission Designator: 166KG1D**

Previously: 166KG7W

Polarity: RHCP

If you have any questions regarding FalconSat-6 and/or FalconSat-8 please contact: Patrick Simmons, P.E. at patrick@genevatech.net.

The use of these frequencies for communications Earth exploration satellite service (EESS) and TT&C is in accordance with the U.S. Table of Frequency Allocations.

This modification will serve the public interest by facilitating efficient use of resources by satellite network operators and service providers, enabling EESS customers to focus on satellite and customer operations by minimizing deployment and/or management of their own ground infrastructure and allowing ATLAS to provide that service. The innovative shared infrastructure solutions provided by ATLAS also help to advance the goals of United States space policy by making commercial space increasingly accessible.

For the reason above, ATLAS respectfully requests that the Commission grant this modification application.

24 hour contact information for the Guam earth station is as follows: +1 832 855 0844

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