



ATLAS Space Operation, Inc
10850 E. Traverse Highway, Suite 3355
Traverse City, Michigan 49684-1363

May 01, 2023

TO: Ms. Marlene H. Dortch
Secretary, Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554
Re: Request for Special Temporary Authority

Dear Ms. Dortch,

Pursuant to Section 25.120 of the Commission's Rules, ATLAS Space Operations, Inc (ATLAS) requests Special Temporary Authority (STA) for up to thirty (30) days or until a fixed license is granted, commencing June 01, 2023 for the operation of a satellite earth station in Guam to communicate with Capella 6-9. Pending file numbers, [SES-MOD-20220722-00792](#) and [SES-AMD-20220831-00933](#). The Guam earth station is located at 13-30-48.81 N, 144-49-31.1 E (Call Sign E190037).

The ATLAS satellite earth station in Guam is required to provide additional TT&C support to the Capella satellites given its optimal location with other earth stations around the globe. The additional points of communication have been coordinated with the local license holders as well as an interference analysis report has been produced for the S band transmissions. ATLAS has also already coordinated with the local Society of Broadcast Engineers. A brief summary of parameters are below.

Capella 6, 7-8, 9 (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): 15.538

(2) TT&C Downlink

Center Frequency:

8027 MHz

Emission Designator: 1M40F1D

Polarity: RHCP

(3) Payload Downlink

Center Frequency:

8212 MHz

Emission Designator: 338MG1D

Polarity: RHCP



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Orbital Parameters Capella Constellation

Spacecraft	Orbit Inclination	Apogee (km)	Perigee (km)	Period (minutes)	RAAN (deg)	NORAD ID
Capella-6 (S3080)	53.0	575	575	95.0	106.0	48605
Capella-7 (S3100)	97.5	525	525	97.5	77.0	51072
Capella-8 (S3100)	97.5	525	525	97.5	77.0	51071
Capella-9 (S3137)	44.0	600	600	96.6	90.0	55910

Operation of the Guam earth station from June 01, 2023 will enable more frequent, predictable contact with the constellation to support potential collision avoidance and perform orbit maintenance. It is important to protect and maintain the Capella satellites in safe and stable orbit; granting the STA will greatly enhance the Capella's ability to innovate, enhance competition, and expand their U.S. capabilities in the market for commercial remote sensing data.

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

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Respectfully Submitted,

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