

## **Maris Developments**

E181611

Request for Special Temporary Authority

By this application for Special Temporary Authority (“STA”), Maris Developments (“Maris”) seeks authority to add space stations Capella-7 and Capella-8 (Call Sign S3100) as additional points of communication to its fixed earth station located in Boardman, Oregon (the “Boardman Earth Station”; Call Sign E181611).<sup>1</sup>

Capella-7 and Capella-8 share radiofrequency characteristics with prior-licensed space stations Capella-3, Capella-4, and Capella-5,<sup>2</sup> which the Commission has previously granted STA for Maris to add as points of communication.<sup>3</sup>

The Boardman Earth Station would communicate with Capella-7 and -8 utilizing the following frequencies:

### TT&C Uplink

Center Frequency: 2036 MHz

Emission Designator: 1M40F1D

Polarity: RCHP

### TT&C Downlink

Center Frequency: 8027 MHz

Emission Designator: 1M40F1D

Polarity: RHCP

Max EIRP Per Carrier (dBW): 4.5

Max EIRP Density Per Carrier (dBW/4 kHz): -21.0

### Payload Downlink

Center Frequency: 8212.5 MHz

Emission Designator: 338MG1D

Polarity: RCHP, LCHP, or RHCP+LHCP

Max EIRP Per Carrier (dBW): 26.0

Max EIRP Density Per Carrier (dBW/4 kHz): -22.0

---

<sup>1</sup> See Maris Developments, Stamp Grant, IBFS File No. SES-LIC-20180827-02512 (Sept. 11, 2019); *see also* Application of Capella Space Corp. for Authority to Launch and Operate a Non-Geostationary Orbit Satellite System in the Earth Exploration Satellite Service, IBFS File No. SAT-LOA-20210824-00109 (filed Aug. 24, 2021).

<sup>2</sup> *Id.* at 2. See also Grant of Authority, IBFS File No. SAT-LOA-20200914-00108 (Dec. 17, 2020); Grant of Authority, IBFS File No. SAT-LOA-20210119-00012 (May 4, 2021); Grant of Authority, IBFS File No. SAT-MOD-20210512-00067 (June 15, 2021).

<sup>3</sup> See Stamp Grant, IBFS File No. SES-STA-20201201-01281 (Jan. 5, 2021); Stamp Grant, IBFS File No. SES-STA-20210325-00570 (May 10, 2021). Maris is also authorized to communicate with Capella-6. *See id.*

Grant of this STA will serve the public interest by facilitating systematic and efficient use of resources by satellite network operators and service providers, enabling Earth exploration satellite service (“EESS”) customers to focus on satellite and customer operations by minimizing deployment and/or management of their own ground infrastructure and allowing Maris to provide that service instead. This managed network provides for an increase in coordination and spectral efficiency in the EESS service, as the Boardman Earth Station can be utilized to maximum efficiency among Maris’s client constellations. Prompt grant will enable Maris to provide spectrally efficient ground network solutions that facilitate a growing use of EESS services.

For the reasons set forth above, Maris respectfully requests that the Commission grant this STA application.