

Maris Developments
Call Sign E181611
Request for 30-day Special Temporary Authority (STA)

Maris Developments (“Maris”) seeks special temporary authority (STA) for 30-days commencing July 1, 2020 to add the Capella Space Corporation’s (“Capella”) Capella-2 (Sequoia) and Capella-3 (Whitney) satellites, Call Signs WJ2XJE and WL2XAD, as a satellite points of communication. The Commission has authorized Capella to operate under experimental license File No. 0066-EX-CN-2018, and Capella has pending applications under File Nos. 0029-EX-CM-2020 and 0028-EX-CM-2020. Maris currently has a request for a 180-day STA pending to communicate with the same points of communication (SES-STA-20200330-00341).

Maris seeks to use two Viasat 5.4m antennae to communicate with Capella. *See* SES-MOD-20191121-01544, Narrative Attachment, at 2 (describing antennae); *see also* SES-LIC-20180827-02512 (granted in part Sept. 11, 2019).

Frequencies Sought by This STA

(1) TT&C uplink

Center Frequency: 2036 MHz
Emission Designator: 1M40F1D
Polarity: RCHP
Max EIRP Per Carrier (dBW): 41.0 dBW
Max EIRP Density per Carrier (dBW/4 kHz): 38.85
Modulation: FSK, GMSK

(2) 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
Modulation: FSK, MSK

(3) Payload Downlink

Center Frequency: 8212.5 MHz
Emission Designator: 375MG1D
Polarity: RCHP, LCHP, or RHCP+LHCP
Max EIRP Per Carrier (dBW): 26.0 MHz
Max EIRP Density per Carrier (dBW/4 kHz): -22.0
Modulation: DVB-S2 PSK