

**Haras Development**  
**Call Sign E181423**  
**Request for 30-day Special Temporary Authority (STA)**

Haras Development (“Haras”) 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-CN-2020. Haras currently has a request for a 180-day STA pending to communicate with the same points of communication (SES-STA-20200330-00340).

Haras seeks to use two Viasat 5.4m antennae to communicate with Sequoia. See SES-MOD-20191021-01351, Narrative Attachment, at 2 (describing antennae); see also SES-LIC-20180816-02287 (granted 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