Request for Special Temporary Authority

Viasat, Inc. (“Viasat”) herein requests 60 days, beginning April 29, 2019, of Special Temporary Authority ("STA") to use its Pendergrass, Georgia 5.4 meter earth station (call sign E160161) to perform initial verification of ground station equipment with the Carbonite-1 (CBNT-1) test satellite in preparation for support of Launch and Early Operation (LEOP) activities for the General Atomics OTB satellite beginning in June 2019.

The Carbonite-1 test satellite shares many common design features with the General Atomics OTB satellite such that advance testing with the Carbonite-1 satellite will be of high value toward assuring success of the General Atomics OTB satellite’s LEOP. The Carbonite-1 satellite operates in non-geostationary orbit (“NGSO”) and in the Earth Exploration Satellite Service (“EESS”) S-band frequency band and X-band frequency band. Only the S-band will be used during this testing at Pendergrass. The Carbonite-1 satellite is already in orbit with NORAD ID 40718. The emission details are included below. Grant of this STA request will allow Viasat to support the US Government missions aboard the OTB satellite, including NASA, and hence serve the public interest.

Tests that involve uplink transmissions will be performed using the emissions shown in Table 1. The emission from the Earth station (E160161) is covered under the current license grant (SES-MOD-20180206-00088).

Table 1 Uplink Emission

Frequency [MHz]	Polarization	Emission Designator	Max EIRP [dBW]	Max EIRP Density [dBW/4 kHz]	Service
2062.000	R	30K0F1D	44	37.2	TT&C

The tests that involve downlink emission from the CARBONITE-1 space station will be performed using the emission shown in Table 2.

Table 2 Downlink Emissions

Frequency [MHz]	Polarization	Emission Designator	Max EIRP [dBW]	Max EIRP Density [dBW/4 kHz]	Service
2059.000	L	38K4M1D	-14.8	-24.6	TT&C

Viasat’s 24x7 contact information for the Pendegrass earth station is 720-493-7300

Please direct any questions regarding this STA request to:

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