



17 October 2017

Attention: International Bureau of the Federal Communications Commission  
Subject: Request for Special Temporary Authority to Utilize New Transmit and Receive Frequencies for Tracking, Telemetry and Command (TT&C) services on Call Sign E990067

To Whom It May Concern,

We have been instructed to file this application on behalf of Denali 20020 LLC, which seeks a Special Temporary Authority from the FCC to utilize new transmit and receive frequencies to provide TT&C services on Call Sign E990067.

These services are intended to provide support to the SES-16/GovSat-1 satellite immediately following its launch and for a ten-day period thereafter during its transfer orbit as it travels to its final orbital position of 21.5E.

Currently, the launch of the SES-16/GovSat-1 satellite is scheduled for the 16<sup>th</sup> of December 2017 (12/16/2017) with a secondary launch date on the 27<sup>th</sup> of December 2017 (12/27/2017).

Denali 20020 LLC seeks a 90-day Special Temporary Authority from the FCC beginning on the 1<sup>st</sup> of December 2017 (12/01/2017) and ending on the 1<sup>st</sup> of March 2018 (03/01/2018). This will allow for any delays or launch date changes.

#### Antenna Information

Call Sign: E990067

Site ID: BREW-3

Latitude: 48° 8' 47.2" N

Longitude: 119° 42' 7.9" W

Diameter: 7.6 Meters

Manufacturer: NEC

Model Number: G2573C

Site Elevation: 382.8 Meters

Maximum Antenna Height: 394.7 Meters AMSL / 11.9 Meters AGL

Maximum Gain(s): 50.3 dBi at 5.2000 GHz and 52.7 dBi at 7.0250 GHz

Maximum Total Input Power at Antenna Flange: 1175.0 Watts

Maximum Aggregate Output EIRP for all Carriers: 81.0 dBW



Transmit and Receive Frequency Information and Parameters

	TC-1 UL	TC-2 UL	TM-1 DL	TM-2 DL
Tx Center Freq.	7901.00 MHz	8399.00 MHz		
Rx Center Freq.			7748.50 MHz	7729.50 MHz
Bandwidth	820 kHz	820 kHz	200 kHz	200 kHz
Polarization	LHCP	LHCP	RHCP	RHCP
Bit Rate	1 kbps	1 kbps	4.8 kbps	4.8 kbps
Modulation	BPSK (FM)	BPSK (FM)	BPSK (PM)	BPSK (PM)
Emission Code	820KF7D	820KF7D	200KG7D	200KG7D
Tx Antenna Gain	52.7 dBi	52.7 dBi		
Rx Antenna Gain			52.7 dBi	52.7 dBi
Tx Power	750 Watts 28.8 dBW EIRP 81.5 dBW	750 Watts 28.8 dBW EIRP 81.5 dBW		
Rx Interference Threshold			-136.8 dBW I/N = -10 dBW EIRP 0.5 dBW	-136.8 dBW I/N = -10 dBW EIRP 0.5 dBW

We have attached the following documents to this application as annexes:

1. FCC File Number SES-RWL-20090402-00399
2. Form 159

We remain available to you for any clarifications required or document needs to further your assessment of our request.

We thank you for your consideration and attention to the matter.

Sincerely,

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