

To: Michael Miller
E-Mail: mlmiller@sterksolutions.com
From: Doug Young
Date: October 30, 2017

Subject: Request for Info - File # 0216-EX-CN-2017

Message:

The FCC's International Bureau needs you to address the following issues:

VHF (uplink) and UHF (downlink) bands concerns:

The applicant has selected center frequency 147.5 MHz (uplink) and 430.425 MHz (downlink) for this mission. Reviewing the US and ITU frequency table of allocations, these two bands are not allocated for space service. Applicant please choose satellite service allocations for this request. The International Telecommunication Union (ITU) would have concern that the USA is allowing small satellite operations in no-satellite terrestrial bands.

The FCC does not support operations in these terrestrial 147.5 MHz and 430.425 MHz bands.

Form 442:

For 1610 MHz band (which is for use of the Globalstar duplex modem), applicant please adjust the frequency to 1615-1617.5 MHz; the emission designator should be 1M23G7W and the ERP should be 24 mW assuming an antenna gain of 0 dBi.

SpaceCap API file:

In the API, the number of space stations simultaneously transmit on Northern Hemisphere it has the value of ten (10) units; how many CubeSat's are planned to be deployed in this mission?

On the orbital parameters, please ensure that the altitude and the perigee values are the same.

FCC does not support the VHFUP uplink beam frequency band; however, if applicant finds an alternative frequency please ensure to have an associated Earth Station instead of associated Space Station.

Also, note that the max peak power of 27 dBW does NOT match with Form 442 output power of 17 dBW; also, the power spectral density value changes depending on the output power so those values will need to be recalculated.

FCC does not support the UHFDOWN beam frequency band; however, if applicant finds an alternative frequency please note that the max peak power of 3.9 dBW does NOT match with Form 442 output power of 3 dBW; also, the power spectral density value changes depending on the output power so those values will need to be recalculated.

The box RR No. 4.4 was not checked Y; applicant, please check this box with a "Y"

Also, the service area should indicate that the downlink will operate in USA.

For the GLOBALT beam, follow the attached guidance on how to file this information in the API.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of October 30, 2017 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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Responses to this correspondence must contain the Reference number : 39473