

## Anthony Serafini

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**From:** Anthony Serafini  
**Sent:** Tuesday, July 25, 2017 2:53 PM  
**To:** 'andrew\_santangelo@sci-zone.com'; 'jeremy.straub@ndsu.edu'  
**Cc:** Carlos Flores  
**Subject:** FW: STA 1606-EX-ST-2016 questions

Hello Andrew

I don't think I have a response to the questions below. Please confirm.

Thanks  
Tony

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**From:** Anthony Serafini  
**Sent:** Thursday, May 25, 2017 7:02 PM  
**To:** andrew\_santangelo@sci-zone.com  
**Subject:** STA 1606-EX-ST-2016 questions

Andrew

The International Bureau has the following questions and comments. Please respond.

IB has reviewed the subject request and has the following comments/questions:

Assuming the Global Star duplex is being used, the Form 442 should probably only have the 1615-1617.5 MHz band which is the only emitter.

We are not sure why Form 442 has a second entry of 1615-1618.725 MHz band with 1M23G1W. Is this a second emission they plan to transmit or does the emission above cover this one?  
So, if there is a second emission then the frequency range will need to be adjusted to 1615-1617.5 MHz band.

### SpaceCap API

Please provide the antenna pattern of the 4.3 dBi for the **transmit** link.

Minimum elevation angle can be left blank since transmission are space to space.

Please check "Y" box RR No. 4.4; currently it is blank.

Please check the max/min power spectral density values. The formula for the Power Spectral Density = Power (in dBW) – 10 \* Log10 (Emission Bandwidth in Hertz).

Please provide the antenna pattern of the 4.3 dBi for the **receive** link.

Also, the **receive link frequency should be 2483.5-2500 MHz** not 1615-1617.5 MHz; please review and confirm this.

Minimum elevation angle can be left blank since transmission are space to space.

Please check "Y" box RR No. 4.4; currently it is blank.

Please check the max/min power spectral density values. The formula for the Power Spectral Density = Power (in dBW)  
– 10 \* Log10 (Emission Bandwidth in Hertz).

Thank You  
Tony