

To: Brian Holman  
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From: Doug Young  
Date: January 11, 2017

Subject: Request for Info - STA File #1697-EX-ST-2016

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Message:

The FCC's International Bureau/Satellite Division has the following comments we need you to address:

We note that the emitter antenna height is 27 meter which has a radio horizon of 21 km (13 miles).

There are a number of FSS received earth stations near the experimental station (the nearest is within 3.4 km away).

To determine if there is a potential impact to FSS receive earth station, we need an antenna pattern in the vertical and horizontal plane to calculate an off-axis EIRP.

We calculated the radar duty cycle = pulse width x Pulse Repetition Frequency (PRF = 1/PRI) and the calculated duty cycle is 50% which seems high for a solid state chirp pulse radar.

We want to know if our calculation of the average power is correct. We used the radar calculated duty cycle x peak power given by form 442;  $(40 \text{ mW} * 0.5) = 20\text{mW}$ .

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 January 11, 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 : 35315