

From: Christopher Bjornson

To: Leann Nguyen

Date: November 07, 2016

Subject: Request for Info - File # 1440-EX-ST-2016

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Message:

This responds to the email FCL Tech received on October 25, 2016, regarding File No. 1440-EX-ST-2016.

You asked if the CW tone signal will sweep across the 100 MHz in the 27950 - 28050 MHz band. The CW tone can be mechanically tuned above and below 28 GHz. We intend to keep the unmodulated CW transmit frequency at a fixed value within 27950 - 28050 MHz, and do not intend to sweep the frequency. You also asked if the transmit signal will be only from the aircraft to the ground in the 27950 - 28050 MHz band? Yes, the signal will be transmitted from air to ground. There will be no transmission from the ground to the aircraft in the 27950 - 28050 MHz band. The antenna on the aircraft will only point towards the ground and will not point toward the earth horizon or at a higher elevation.

The calculations for EIRP and ERP should be as follows:  $EIRP = 12 \text{ dBW}$  (15.8 Watts) and  $ERP = 9.85 \text{ dBW}$  (9.7 Watts).

Please let us know if you have any questions or need anything else.

Sincerely,  
Chris Bjornson