

From: Jennifer Laverentz

To: Behnam Ghaffari

Date: September 27, 2017

Subject: 1145-EX-ST-2017

Message:

Hello Behnam,

I understand Jennifer has been working with you to get our approval to radiate during some upcoming flight tests in Wisconsin, and thought I would try to provide some additional information.

For us to get a complete test of the system and ensure the electronics and antennas are functioning correctly, it would be necessary to radiate over the entire band (even if it is at lower power setting for a duration of a couple of hours), but I also see that this may cause some problems. The radar electronics make it difficult to operate over different bands in both generation of the transmit waveforms and post processing, so I would like to keep the number of discontinuities in the freq span as small as possible.

We could accomplish this by conducting multiple tests over a few different frequency ranges, but that would only give us an indication that the system is working correctly. If we can't operate over the entire range I would feel comfortable with ~50 MHz (280-330MHz) centered within the 225 – 400 MHz MAG band identified below. I am available to talk next week in more detail if either suggestion above does not work.

Thanks,
Carl