

From: Dino A. Lorenzini

To: Doug Young  
Date: July 13, 2018

Subject: Request for Info - File # 0176-EX-CN-2018

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Message:

Dear Doug,

Attached is the consent letter from Orbcomm to operate experimentally in the 399.9-400.05 MHz band.

Regarding the use of the 149.92 MHz frequency band, IARU has not responded to our coordination request. In all likelihood, they will not consent to our use of the VHF amateur frequency. Consequently, we have eliminated the VHF amateur band channel from our satellites (THEA and BRIO) and do not require an experimental license allocation for the 145.90-145.94 MHz frequency band.

We need to expedite our license application for THEA and BRIO (File Numbers 0176-EX-CN-2018 and 0220-EX-CN-2018) as quickly as possible. Our drop dead date for license approval is August 2, 2018 at which time we need to integrate these two satellites into the payload stack at Spaceflight Services in Seattle. Without FCC approval of our space station license request, we will not be able to launch our satellite and operate our experiments.

I would greatly appreciate anything you can do to expedite the review process. I am willing to do whatever is necessary on our end to make that happen.

Sincerely,  
Dino Lorenzini  
President  
703-424-7803

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July 12, 2018

Mr. Lorenzini:

This is in response to the request of SpaceQuest, Ltd. ("SpaceQuest") for ORBCOMM's consent to the proposed experimental use of UHF-Band spectrum in relation to the pending SpaceQuest FCC Experimental License Application (File No. 0176-EX-CN-2018, the "Application").

ORBCOMM understands that SpaceQuest proposes FCC Rule Part 5 Experimental launch and operation of one (1) non-geostationary spacecraft, entailing use of one (1) 25 kHz bandwidth uplink channel to be operated within the 399.9 – 400.05 MHz band with peak ERP power of 3 watts. We also understand that SpaceQuest proposes FCC Rule Part 5 Experimental use of one (1) 35 kHz bandwidth downlink channel to be operated in the range of 400.5-400.65 MHz, with peak ERP power of 3 watts. We also understand from the Application and your associated correspondence with us that the program of experimentation proposed in the Application will be conducted in full accordance with the technical parameters specified in the Application and in full accordance with all applicable FCC Rules and policies, including but not limited to, Part 5 of the FCC Rules, and the out of band and spurious emissions limits set forth in Part 25 of the FCC Rules.

Based on the information stated above, ORBCOMM has no objection to grant of the Application to permit Spacequest to conduct its proposed program of experimentation on a non-protected non-interference basis using the proposed above-described single spacecraft and uplink and downlink channels in

accordance with Part 5 of the FCC's Rules.

We must underscore, however, that ORBCOMM's consent to temporary non-interference FCC Part 5 experimental use of any spectrum must in no way be construed as ORBCOMM's consent to coordination of shared use of spectrum under any other FCC Experimental license, or any other authorization regime (including but not limited to, authorization of spectrum use under Part 25 of the FCC Rules, international coordination of spectrum by the United States, or authorization for use of spectrum in any country other than the United States). We also must emphasize that ORBCOMM's consent to temporary non-interference FCC Part 5 experimental use of any spectrum is conditioned upon the spacecraft SpaceQuest it proposes to launch and operate in the Application not being used for commercial operations of any kind by any party in any location in the world. Should ORBCOMM become aware that any of the above-stated conditions of its consent are not abided by or that the program of experimentation is otherwise not in accordance with Part 5 of the Commission's Rules, ORBCOMM reserves the right to revoke its consent and pursue whatever measures are necessary to resolve any such matters.

ORBCOMM has no other comments or objections to the Application at this time.

Best Regards,  
Walter Sonnenfeldt  
Vice President, Regulatory Affairs  
ORBCOMM Inc.  
E-Mail: [sonnenfeldt.walter@orbcomm.com](mailto:sonnenfeldt.walter@orbcomm.com)