



Hogan Lovells US LLP  
Columbia Square  
555 Thirteenth Street, NW  
Washington, DC 20004  
T +1 202 637 5600  
F +1 202 637 5910  
www.hoganlovells.com

January 19, 2016

***Via Electronic Filing***

Experimental Licensing Branch  
Office of Engineering and Technology  
Federal Communications Commission  
445 12th Street SW  
Washington, DC 20554

**Re:       Spire Global, Inc.  
          ELS File No. 0705-EX-PL-2015**

To Whom It May Concern:

Spire Global, Inc. ("Spire") hereby amends the above-referenced experimental application seeking authority from the Office of Engineering and Technology ("OET") to deploy four satellites from the International Space Station ("ISS") as part of Spire's Lemur-2 satellite system. The satellites were scheduled to be delivered to the ISS as cargo aboard a Falcon-9 launch from Cape Canaveral, Florida.

The National Aeronautics and Space Administration ("NASA"), the contracting party for the primary payload for the Falcon-9 launch, has requested that Spire reschedule the satellite delivery to a United Launch Alliance Atlas V launch scheduled for March 10, 2016. Attached to this amendment is a letter from NASA to NanoRacks, LLC, the party with whom Spire has contracted for the delivery of the Lemur-2 satellites to the ISS, requesting that those satellites be moved from the Falcon-9 launch to the Atlas V launch. By this filing, Spire amends its application to reflect NASA's requested change.

Because the Spire satellites will still be deployed from the ISS, there are no changes to the proposed orbital characteristics of the satellites. Further, the radiofrequency characteristics of the four satellites (e.g., transmit power, out-of-band emissions, antenna patterns and gain, and transmit and receive frequencies) will remain the same.

However, with respect to the coordination of this application with NTIA, the response to inquiry 1B of the NTIA coordination form may need to be revised to reflect the ministerial change of the launch vehicle from Falcon-9 to Atlas V. Specifically, the response to inquiry 1B should be as follows (the black-line edits reflect the changes):

**"~~Falcon-9~~Atlas V: ORB, 51.6IN00400AP00400PE001.60H04NRT01."**

If there are any questions regarding this application, please contact the undersigned.

Very truly yours,

\_\_\_\_\_/s/\_\_\_\_\_  
\_\_\_\_\_

Trey Hanbury

Partner  
tre.hanbury@hoganlovells.com  
D 202-637-5534

Attachment

National Aeronautics and  
Space Administration

**Lyndon B. Johnson Space Center**  
2101 NASA Parkway  
Houston, Texas 77058-3696



January 14, 2016

Reply to Attn: of: OZ-16-002

Jeffrey Manber  
NanoRacks, LLC  
550 Forge River Road, Suite 120  
Webster, TX 77598

Dear Jeffrey:

We recently completed a cargo manifesting optimization study for the SpaceX8 and Orbital/ATK 6 launches and have determined it is best to launch the Nanoracks Cubesat Deployers and the respective Cubesats (Dove and LEMUR-2) on OA6 instead of SpaceX8. This move ensures that OA6 has a full cargo complement. Note that OA6 is now planned to launch prior to SpaceX8.

We are working with our Spectrum Management organization to develop a strategy to preclude amending licenses for future launch vehicle changes and will communicate these findings with you as soon as possible.

We apologize for the inconvenience to you or your teams.

Please call me if you would like to discuss further at 281-483-9122.

Sincerely,

A handwritten signature in black ink, appearing to read "Marybeth Edeen", followed by a long horizontal line.

Marybeth Edeen  
Manager, ISS Research Integration

cc:  
OZ/M. Surber  
OZ/A. Lopez,  
OZ/S. Huning

Marcia Blount  
NanoRacks, LLC  
550 Forge River Road, Suite 120  
Webster, TX 77598