

June 21, 2017

VIA IBFS

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: Spire Global, Inc. 2017 Annual Report for IBFS Call Sign S2946

Dear Ms. Dortch,

Spire Global, Inc. ("Spire"), licensee of the authorized LEMUR-2 satellite system operating under Call Sign S2946, hereby submits its 2017 Annual Report ("Report"), which contains details on the operation of its satellite system from June 1, 2016 to May 31, 2017 and anticipated launch dates for future satellites to be added to the system.

This Report is being filed pursuant to Section 25.170 of the Commission's rules.¹

I. Status of the Satellite System

Spire has launched and deployed twenty-eight (28) of its authorized twenty-eight (28) Phase IA² LEMUR-2 satellites and four (4) of its authorized twenty-eight (28) Phase IB³ LEMUR-2 satellites. Table 1 below contains the satellites that were in orbit during the June 1, 2016 to May 31, 2017 period.

¹ See 47 C.F.R. § 25.170.

² See Stamp Grant, Spire Global, Inc., File No. SAT-LOA-20151123-00078 (granted in part and deferred in part Mar. 18, 2016, as corrected Mar. 24, 2016); Stamp Grant, Spire Global, Inc., File No. SAT-LOA-20151123-00078 (granted in part and deferred in part June 16, 2016); Stamp Grant, Spire Global, Inc., File No. SAT-LOA-20151123-00078 (granted in part and deferred in part Oct. 14, 2016).

³ See Stamp Grant, Spire Global, Inc., IBFS File No. SAT-AMD-20161114-00107 (granted in part and deferred in part Apr. 7, 2017); Stamp Grant, Spire Global, Inc., IBFS File No. SAT-AMD-20161114-00107 (granted in part and deferred in part May 18, 2017).



LEMUR-2 Satellite	# of Satellites	Launch Vehicle	Orbit	Deployment Date	Deployment Status	Operational Status
Phase IA	4	PSLV	650	09/28/2015	Successful	4 satellites operational
Phase IA	4	Atlas V	400/ISS	05/18/2016	Successful	4 satellites deorbited
<i>Phase IA</i>	<i>4</i>	<i>Atlas V</i>	<i>~385</i>	<i>06/21/2016</i>	<i>Partially Successful⁴</i>	<i>1 satellite operational and 3 satellites deorbited</i>
<i>Phase IA</i>	<i>4</i>	<i>Antares</i>	<i>500</i>	<i>11/25/2016</i>	<i>Successful</i>	<i>4 satellites operational</i>
<i>Phase IA</i>	<i>4</i>	<i>H-IIB</i>	<i>400/ISS</i>	<i>03/06/2017</i>	<i>Successful</i>	<i>4 satellites operational</i>
<i>Phase IA</i>	<i>8</i>	<i>PSLV</i>	<i>500</i>	<i>02/14/2017</i>	<i>Successful</i>	<i>8 satellites operational</i>
<i>Phase IB</i>	<i>4⁵</i>	<i>Atlas V</i>	<i>480</i>	<i>06/08/2017</i>	<i>Successful</i>	<i>4 satellites operational</i>

Table 1. LEMUR-2 satellites operating under the IBFS Call Sign S2946

II. Contact Persons

Responsible for emergency purposes and for resolution of interference problems

Jerry Jason
Mission Operations Director
1050 Walnut Street, Suite 402
Boulder, CO 80302 USA
jerry.jason@spire.com
(303) 570-5787

⁴ One LEMUR-2 satellite remained onboard the Cygnus OA-6 and was not deployed because of a failure in the deployment door. The satellite was destroyed upon reentry of the Cygnus OA-6 into the Earth's atmosphere. See Letter from Tony Lin, Counsel, Spire, to Marlene H. Dortch, Secretary, Federal Communications Commission, IBFS File No. SAT-LOA-20151123-00078 (filed June 29, 2016).

⁵ These Phase IB satellites were launched on April 18, 2017; however, they were not deployed from the ISS until June 8, 2017. They are included in this Report for completeness.

Responsible for long-term engineering and technical design issues

George John
Legal & Regulatory Counsel
575 Florida Street, Suite 150
San Francisco, CA 94110 USA
george.john@spire.com
(202) 747-2619

III. Construction Progress and Anticipated Launch Dates for Authorized Replacement Satellites

Table 2 below contains anticipated launch dates for Spire's upcoming launches for its Phase IB and Phase IC⁶ LEMUR-2 constellation.

LEMUR-2 Satellite	# of Satellites	Launch Date
Phase IB	8	06/23/2017
Phase IB	8	07/14/2017
Phase IB	8	08/25/2017
Phase IC	4	09/12/2017
Phase IC	4	12/01/2017
Phase IC	8	12/02/2017
Phase IC	4	12/30/2017
Phase IC	8	04/30/2018

Table 2. Anticipated launch dates for future LEMUR-2 satellites operating under the IBFS Call Sign S2946

⁶ See Amendment Application of Spire, IBFS File No. SAT-AMD-20161114-00107 (filed Nov. 14, 2016).

Please direct any questions regarding this filing to the undersigned.

Sincerely,

/s/ George John

George John
Legal & Regulatory Counsel
575 Florida Street, Suite 150
San Francisco, CA 94110 USA
george.john@spire.com
(202) 747-2619