

June 28, 2018

VIA IBFS

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

Re: Spire Global, Inc. 2018 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 2018 Annual Report ("Report"), which contains details on the operation of its satellite system from June 1, 2017 to May 31, 2018 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, twenty-eight (28) of its authorized twenty-eight (28) Phase IB³ LEMUR-2

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).



satellites, and eight (8)⁴ of its authorized Phase IC seventy-two LEMUR-2 satellites.⁵ The italicized text in Table 1 below contains the satellites that were deployed during the June 1, 2017 to May 31, 2018 period.

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
Phase IA	4	Atlas V	~385	06/21/2016	Partially Successful ⁶	4 satellites deorbited
Phase IA	4	Antares	500	11/25/2016	Successful	4 satellites operational
Phase IA	4	H-IIB	400/ISS	03/06/2017	Successful	3 satellites operational and 1 satellite deorbited
Phase IA	8	PSLV	500	02/14/2017	Successful	8 satellites operational
Phase IB	4	Atlas V	480	06/08/2017	Successful	4 satellites operational
<i>Phase IB</i>	<i>8</i>	<i>PSLV</i>	<i>500</i>	<i>06/23/2017</i>	<i>Successful</i>	<i>8 satellites operational</i>
<i>Phase IB</i>	<i>8</i>	<i>Soyuz</i>	<i>600</i>	<i>07/14/2017</i>	<i>Successful</i>	<i>8 satellites operational</i>
<i>Phase IB</i>	<i>8</i>	<i>Antares</i>	<i>445</i>	<i>11/11/2017</i>	<i>Successful</i>	<i>8 satellites operational</i>
--	<i>10</i>	<i>Soyuz</i>	--	<i>11/28/2017</i>	<i>Launch Failure</i>	--

⁴ There are four (4) Phase IC satellites that were launched on May 20, 2018; however, they have not been deployed above the ISS yet. They are included in this Report for completeness.

⁵ See Stamp Grant, Spire Global, Inc., IBFS File No. SAT-AMD-20161114-00107 (granted in part and deferred in part July 13, 2017).

⁶ 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).

<i>Phase IC</i>	<i>4</i>	<i>PSLV</i>	<i>505</i>	<i>01/12/2018</i>	<i>Successful</i>	<i>4 satellites operational</i>
<i>Phase IC</i>	<i>4</i>	<i>Soyuz</i>	<i>585</i>	<i>02/01/2018</i>	<i>Successful</i>	<i>4 satellites operational</i>
<i>Phase IC</i>	<i>4⁷</i>	<i>Antares</i>	<i>445</i>	<i>TBD</i>	<i>TBD</i>	<i>TBD</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
+1-303-570-5787

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
+1-202-747-2619

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 IC⁸ LEMUR-2 constellation.

⁷ These Phase IC satellites were launched on May 20, 2018; however, they have not been deployed above the ISS yet. They are included in this Report for completeness.

⁸ See Stamp Grant, Spire, IBFS File No. SAT-AMD-20161114-00107 (granted July 13, 2017).

LEMUR-2 Satellite	# of Satellites	Launch Date
Phase IC	2	2018Q3
Phase IC	8	2018Q4
Phase IC	8	2018Q4
Phase IC	8	2018Q4
Phase IC	4	2018Q4

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

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
 +1-202-747-2619