S2946

Spire Global, Inc.

SAT-AMD-20161114-00107

IB2016002457

File#

Call Sign 52946 Grant Date 4/7/17

(or other identifier)

Term Dates

The SEE CONDITIONS Approved by OMB 3060-0678

Date & Time Filed: Nov 14 2016 6:48:39:916AM File Number: SAT-AMD-20161114-00107

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GRANTED

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happathoral Baccan Approved: スペント Orputy Chief Satellite Division かるいっていり

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

FCC Use Only

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: LEMUR-2 LOA Amendment Application

1–8. Legal Name of Applicant

Name:

Spire Global, Inc.

Phone Number:

628-221-5324

Fax Number:

575 Florida Street

Street:

Name:

DBA

E-Mail:

San Francisco

Suite 150

City:

State:

Zipcode:

Attention: Country:

> 94110 CA

Spire Global, Inc. IBFS File No. SAT-AMD-20161114-00107

IBFS File No(s):	SAT-AMD-20161114-00107 ¹	GRANT IN PART/			
Licensee/Grantee:	Spire Global, Inc.	DEFER IN PART –			
Call Sign:	S2946	With Conditions			
Satellite Name:	LEMUR-2 constellation (Phases IA & IB)				
Orbital Location:	NGSO at altitudes up to 500 km (see scope of grant	OT COMMUNICATION			
(required station-	below)				
keeping tolerance)		Ti A WAS			
Administration:	United States of America	COMMISSION			
Nature of Service:	Earth Exploration Satellite Service				
		International Bureau			
Scope of Grant:	Authority to construct douley, and amounts form took is all	Satellite Division			
Scope of Grant:	Authority to construct, deploy, and operate four technical initially deployed to circular orbits of no greater than 500				
	I miliarly deployed to chedial orbits of no greater than 500	kiii iii aititude.			
Previous Grant(s)	Authority to construct, deploy and operate 28 technically identical satellites for what the applicant describes as "Phase IA" deployment, initially deployed to orbital altitudes of no greater than 650 km.				
	See IBFS File No. SAT-LOA-20151123-00078 (granted in part Mar. 18, 2016); IBFS File No. SAT-LOA-20151123-00078 (granted in part June 16, 2016); and IBFS File No. SAT-LOA-20151123-00078 (granted in part Oct. 14, 2016). ³				
Service Area(s):	Global. See Schedule S Tech Report at Item S6				
Frequencies:	2020-2025 MHz (space-to-Earth)				
	2200-2290 MHz (space-to-Earth) (Phase IB only)				
	156.7625-156.7875 MHz (Automatic Identification System (AIS) (AIS 3)) (Phase IB only)				
	156.8125-156.8375 MHz (AIS 4) (Phase IB only)				
	161.9625-161.9875 MHz (AIS 1)				
	162.0125-162.0375 MHz (AIS 2)				
	161.9375-161.9625 MHz (Application Specific Messages	(ASM) (ASM 1)) (Phase IB			
	only)				
	161.9875-162.0125 MHz (ASM 2) (Phase IB only)				
	1575.42 MHz and 1227.60 MHz (center frequencies, GPS reception) ⁴				
	402-403 MHz (Earth-to-space) (space-to-Earth (data back	up only))			

¹ The application was placed on Public Notice as accepted for filing on December 23, 2016. See Policy Branch Information, Applications Accepted for Filing, Public Notice, Report No. SAT-01207 (IBFS File No. SAT-MOD-20161114-00107). We previously granted in part Spire's application and authorized 28 satellites. We deferred action on Spire's request with respect to 872 additional satellites for what it describes as "Phase II" operations. See Policy Branch Information, Satellite Space Applications Actions Taken, Public Notice, DA 16-1211, Report No. SAT-01195 (IBFS File No. SAT-LOA-20151123-00078).

² We defer action on the remainder of Spire's application as amended to add Phase IB and IC satellites and to operate in additional frequency bands.

³ This prior grant also included authority to deploy up to eight satellites of the 28 authorized on the SHERPA/FormoSat mission. That deployment has since been cancelled. *See* Letter from Henry Goldberg, Spaceflight, Inc. to Jose P. Albuquerque, Chief, Satellite Division, International Bureau, FCC, IBFS File No. SAT-STA-20150821-00060 (filed Feb. 8, 2017). Accordingly, we are not including this information in the description of the scope of prior grants and this license, and have omitted from this license conditions previously included specifically with respect to the SHERPA/FormoSat mission.

⁴ This grant of authority to construct and deploy satellites also includes authority to construct and deploy the satellites with the capability to receive additional radio-navigation signals, but Spire's request to operate with such signals is DEFERRED. Spire's authority to construct and deploy satellites capable of receiving foreign radio-navigation signals is at Spire's own risk.

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Telemetry, Tracking, and Command:
402-403 MHz (Earth-to-space and space-to-Earth).

Unless otherwise specified herein, operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission's rules not waived herein. This grant is also subject to the following conditions:

- 1. Spire must prepare the necessary information, as may be required, for submission to the International Telecommunication Union (ITU) to initiate and complete the advance publication, coordination, due diligence, and notification process for these space stations, in accordance with the ITU Radio Regulations. Spire will be held responsible for all cost-recovery fees associated with ITU filings. No protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to individual administrations, by successfully completing coordination agreements. Any radio station authorization for which coordination has not been completed may be subject to additional terms and conditions as required to effect coordination of the frequency assignments of other administrations. See 47 CFR § 25.111(b).
- 2. Upon receipt of a conjunction warning from the Joint Space Operation Center or other source, Spire must review the warning and take all possible steps to assess and, if necessary, to mitigate collision risk, including, but not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; modifying spacecraft attitude and/or operations.
- 3. Deployment into an orbit with an inclination of 51.6 degrees, plus or minus 0.1 degree, other than directly from the ISS, is only authorized for satellites to be launched on Cygnus re-supply missions and is subject to the following:
 - a. Deployment shall be into an orbit that, if from below the ISS altitude, is not less than 15 km below and 15 km in front of ISS and, if above the ISS altitude, is to an orbit acceptable to NASA, which is currently defined as a co-elliptic orbit above the ISS semi-major axis with a relative perigee greater than 45km. If deployment is planned from an altitude above the ISS, not later than 10 business days prior to launch of the resupply mission, Spire shall provide documentation from NASA confirming that deployment from the Cygnus capsule is acceptable to NASA.
 - b. Deployment above the ISS altitude may proceed only if it is confirmed in a manner acceptable to NASA that, following launch and docking operations, there is sufficient fuel on Cygnus to execute both the planned satellite deployment and planned Cygnus disposal operations.
- 4. Spire's request for waiver of the U.S. Table of Frequency Allocations, Section 2.106, to receive AIS signals in the 156.7625-156.7875 MHz (AIS 3), 156.8125-156.8375 MHz (AIS 4), 161.9625-161.9875 MHz (AIS 1) and 162.0125-162.0375 MHz (AIS 2) frequency bands until the bands are allocated in the U.S. Table of Frequency Allocations, IS GRANTED. We find that the reception of AIS transmissions cannot cause harmful interference, and these transmissions will be present pursuant to existing authorizations using frequencies allocated to other services regardless of whether they are received by a Spire satellite. We also conclude that the service Spire proposes will serve the public interest by providing critical near real-time maritime data of interest for both government and commercial users. As a condition of this waiver, Spire must not claim protection for reception of messages in the 156.0125-162.0375 MHz frequency band that is not in accordance with the Table of Frequency Allocations for the pertinent area, and may only claim protection to the extent provided by the status of the reception under the Table of Frequency Allocations. In addition, we note that all reception in this frequency band must comport with the requirements on unauthorized publication or use of communications in section 705 of the Communications Act of 1934, as amended.
 - 5. Spire's request for waiver of the U.S. Table of Frequency Allocations, Section 2.106, to receive

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ASM transmissions in the 161.9375-161.9625 MHz (ASM 1), and 161.9875-162.0125 MHz (ASM 2), frequency bands, on a non-conforming, non-harmful interference basis, IS GRANTED. In addition, we waive Section 25.112(a)(3) to permit consideration of Spire's request for operations on the channels 161.9375-161.9625 MHz (ASM 1), and 161.9875-162.0125 MHz (ASM 2), which are not allocated internationally for satellite service. In 2003, the Commission determined to return as "premature" such applications seeking to operate in frequencies for which there is no international allocation, because it can take several years for the ITU to adopt an international frequency allocation. The Commission also expressed concern that such applications would constitute "place holders." In this case, however, the lack of a current MSS allocation in these bands does not necessarily preclude initiation of service, as transmissions may be conducted under other allocations. Accordingly, we do not believe it would serve the public interest to prohibit Spire the flexibility of including the capability to receive ASM messages on frequencies not allocated to satellite services. We note that all reception in this band must comport with the requirements on unauthorized publication or use of communications in section 705 of the Communications Act of 1934, as amended.

- 6. Spire's request for waiver of the U.S. Table of Frequency Allocations, Section 2.106, to receive ADB-S signals in the 1087.7-1092.3 MHz frequency band until the bands are allocated in the U.S. Table of Frequency Allocations, IS GRANTED. This band was allocated internationally for the aeronautical mobile-satellite (R) service (AMS(R)S) (Earth-to-space) on a primary basis, at WRC-15, and is limited to the space station reception of ADS-B emissions from aircraft transmitters that operate in accordance with recognized international aeronautical standards. Stations operating in the AMS(R)S shall not claim protection from stations operating in the aeronautical radionavigation service. Resolution 425 (WRC-15) shall apply. We find good cause to waive sections 2.102(a) and 2.106 to permit reception of ADS-B messages on an unprotected basis in the United States because doing so will not cause any interference or unreasonably preclude other services. Any future protection of ADS-B reception will be governed by the relevant status in the Table of Frequency Allocations and must be in accordance with any subsequent rulemaking proceedings to implement any new domestic allocations or service rules.
- 7. Spire may claim protection for reception in the 156.0125-162.0375 MHz or 1087.7-1092.3 MHz bands only to the extent permitted under the U.S. Table of Frequency Allocations for domestic operations or the ITU Radio Regulations for international operations, as of the time of operation. Operations in the 156.0125-162.0375 MHz and 1087.7-1092.3 MHz bands must be in accordance with any Commission rulemakings subsequent to the release of this license that implement any new domestic allocations or service rules for these bands.⁸
- 8. Spire's request for a waiver of the United States Table of Frequency Allocations, 47 CFR § 2.106, is GRANTED to permit operations in the 402-403 MHz (Earth-to-space and space-to-Earth (data back up only)) and 2020-2025 MHz (space-to-Earth) frequency bands on a non-conforming, non-harmful interference basis. Spire must immediately terminate non-conforming operations upon notification of harmful interference.
- 9. Based upon information provided by the National Telecommunication and Information Administration (NTIA) as part of the frequency coordination process, future non-federal licenses for additional satellites will only be exceptionally considered for requests of downlink operations in the band 402-403 MHz, and Spire shall have no expectations that future licenses will be approved. Spire and DOC/NOAA shall work jointly to explore mitigation strategies to avoid interference to NOAA missions. For future missions, transition of TT&C links out of the 402-403 MHz band is recommended. Spire is not authorized to use downlinks in the 402-403 MHz band to the following earth stations: Anchorage, AK, Boca Raton, FL, Ellicott, CO, Naalehu, HI. Spire

⁵ Amendment of the Commission's Space Station Licensing Rules and Policies, First Report and Order, 18 FCC Rcd 10760, 10783 and 10809, paras. 49 and 124 (2003).

⁶ Iridium Order and Authorization, at 8683-84, para. 22.

⁷ 47 U.S.C. § 605.

⁸ Id. at 8689, para. 50.

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shall coordinate new ground station locations operating in 402-403 MHz with DOC/NOAA by providing the location of such stations for DOC/NOAA's review for interference concerns and approval prior to downlinking to those ground stations.

- 10. Spire must maintain a U.S. point of contact available by telephone 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. The telephone number for this U.S. point of contact must be provided to NTIA (bmitchell@ntia.doc.gov) and DOC/NOAA (alfredo.mistichelli@noaa.gov and kellen.gibson@noaa.gov).
- 11. The maximum bandwidth of any transmission in the 402-403 MHz frequency band is limited to 15 kHz, and all transmissions in these frequencies shall be within a 200 kHz frequency band centered on 402.7 MHz, i.e., within the 402.6-402.8 MHz frequency band, except as necessary for a period immediately following (i) the deployment of the satellites or (ii) a satellite software reset, resulting in satellite transmissions returning to the default transmission channels, in both cases to allow for the retuning of transmissions, or unless otherwise agreed in a Memorandum of Agreement with DOC/NOAA.
- 12. Spire's request for a waiver of the United States Table of Frequency Allocations, 47 CFR § 2.106, to permit United States and Possessions (US&P) operations in the 2200-2290 MHz (space-to-Earth) frequency band is DEFERRED. Operations in the 2200-2290 MHz frequency band are permitted for use only outside of the US&P. Spire is required to successfully coordinate with NTIA prior to submitting any ITU filing involving any ground stations outside of the US&P that operate in the frequency band 2200-2290 MHz. NTIA will consider the request by Spire for accessing to the 2200-2290 MHz for ground stations located outside of US&P on a case-by-case coordinated basis with appropriate EMC analysis to NTIA (bmitchell@ntia.doc.gov), AFSMO (jimmy.nguyen@us.af.mil) NASA (john.e.zuzek@nasa.gov) and DOC (david.franc@doc.gov) to ensure compatibility of operations with the Federal government. Transmissions in the 2200-2290 MHz band to any single earth station must be no greater than one megahertz in bandwidth.
- 13. This authorization will become null and void if, at any time during the license term, there are no Spire satellites operating.
- 14. Spire is subject to milestone and bond obligations imposed as conditions to a previous grant of authority to operate up to nine NGSO satellites in the 2020-2025 MHz frequency band. *See supra*, note 1. We find that, following the discharge of the bond requirement associated with this previous grant, warehousing concerns are addressed in this situation through the imposition of condition 13 above.
- 15. Within 30 days after deployment of each satellite pursuant to this authorization, Spire must file a notification with the Commission specifying its apogee and perigee altitudes and orbital inclination.
 - 16. The license term expires on October 31, 2020.
- 17. Spire's request for a waiver of Section 25.114(c) of the Commission's rules, 47 CFR § 25.114(c), to the extent described in its application with respect to certain information to be provided in the Schedule S, IS GRANTED. We find that a waiver is warranted for the requirement for orbital information on the Schedule S for each satellite because the information Spire provided in its Narrative is sufficient to fulfill the relevant informational requirements.
- 18. Spire's request for processing of its amendment on a first-come, first-serve basis pursuant to Section 25.158 of the Commission's rules, is GRANTED. Spire's request for waiver of Sections 25.156 and 25.157 of the Commission's rules, IS MOOT.

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR \S 0.261, and is effective upon release.

ATTACHMENT TO GRANT Spire Global, Inc. IBFS File No. SAT-AMD-20161114-00107

Ctation linear		
amended, 47 I	es are subject to the conditions spec U.S.C. § 309(h).	cified in Section 309(h) of the Communications Act of 1934, as
Action	April 7, 2017	
Date:	-	
Term Dates	From: April 7, 2017	To: see conditions
Approved:	Stephen J. Dyall Chief, Satellite Policy Branch	
	,	

9-16. Name of Contact Representative

Name:

Street:

Jonathan Rosenblatt

Phone Number:

628-221-5324

Company:

Spire Global, Inc.

Fax Number:

575 Florida Street

E-Mail:

jonathan.rosenblatt@spire.com

Suite 150

USA

City:

San Francisco

State:

CA

Country:

Zipcode:

94110-

Attention:

Relationship:

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

- al. Earth Station
- a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

- 6 b3. Amendment to a Pending Application
- 6 b4. Modification of License or Registration
- b5. Assignment of License or Registration
- b6. Transfer of Control of License or Registration
- 6 b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

(N/A) b11. Application for Earth Station to Access a Non-U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States

(N/A) b12. Application for Database Entry

- 6 b13. Amendment to a Pending Database Entry Application
- b14. Modification of Database Entry

17c. Is a fee submitted with this application? If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114). Governmental Entity Other(please explain):					
17d.					
Fee Classification CAW – Space Station Amendment(Non–Geostationary)					
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a			
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:			
S2946	11/23/2015	SATLOA2015112300078			

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify) METS and Space Ops	
_	
21. STATUS: Choose the button next to the applicable status. Choose only one. Common Carrier Non-Common Carrier	22. If earth station applicant, check all that apply. Using U.S. licensed satellites Using Non-U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER se facilities: Connected to a Public Switched Network Not connected to a F	
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all ap a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz)	plicable frequency band(s).
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: 399.9 Frequency Upper: 2290	(Please specify additional frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
o a. Fixed Earth Station
o b. Temporary-Fixed Earth Station
o c. 12/14 GHz VSAT Network
o d. Mobile Earth Station
o e. Geostationary Space Station
f. Non-Geostationary Space Station
o g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY:
☐ Transmit/Receive ☐ Transmit—Only ☐ Receive—Only ☐ N/A
"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & amp; countries)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
l — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	0	Yes Exhi	_			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	cal en	rou	.te 01		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	•	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	0	No	•	N/A

	
⊚ Ye	S
Exhibit C	

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	○ Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.	Exhibit D	

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of " party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	O Yes	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? United States of America	hat administr	ation has

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Applicant seeks to amend its pending LOA application by (i) adding new frequencies to increase the flexibility it has to coordinate spectrum use and (ii) providing deployment parameters to minimize orbital debris concerns.

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O _B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o C

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applica	able response.)	
O Individual		
O Unincorporated Association		
O Partnership		
© Corporation		
O Governmental Entity		
Other (please specify)		
	and the same of th	
45. Name of Person Signing	46. Title of Person Signing	
Jonathan Rosenblatt	General Counsel	
->	•	

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.