	FCC A	APPLICATION FO	R EARTH STATION AUT	OHRIZATIOINS		FCC Use Only	
		FCC 312 MAIN	FORM FOR OFFICIAL USE (ONLY			
APPLICANT I	NFORMATION						
Enter a descri _l	ption of this application	on to identify it on the	main menu:				
	or LEO Testing						
1-8.Legal Nam	ne of Applicant						
	Name:	MCI Communicat	ions Services, LLC	Phone Number:	703-694-5088		
	DBA Name:			Fax Number:			
	Street:	22001 Loudoun C	County Parkway	E-Mail:	patrick.merrick@v	verizon.com	
	City:	Ashburn		State:	VA		
	Country:	USA		Zip code:	20147		
	Attention:	Patrick Merrick					
9-16.Name of	Contact Representat						
	Name:	MCI Communicat	ions Services, LLC	Phone Number:	703-694-5088		
	Company:	Verizon		Fax Number:			
	Street:	600 Hidden Ridge M.C. HQE03H07	•	E-Mail:	patrick.merrick@v	verizon.com	
	City:	Irving		State:	TX		
	Country:	USA		Zip code:	75038		
	Attention:	Patrick Merrick		Relationship:	Same		
			CLASSIFICATION	ON OF FILING			
17.Choose the	button next to the		☑ b1. Application for License				
classification t	hat applies to this fili	ng for	☐ b2. Application for Registration of New Domestic Receive-Only Station				
•	a. and b. Choose o	only one	□ b3. Amendment to a Pending Application				
for 17a and on	lly one for 17b.		☐ b4. Modification of Licens	•			
			□ b5. Assignment of License	•			
☑ a1. Earth S			□ b6. Transfer of Control of License or Registration				
☐ a2. Space	Station		□ b7. Notification of Minor M				
			□ b8. Application for License	•	ŭ		
			□ b9. Letter of Intent to Use	Non-U.S. Licensed Satelli	e to Provide Service	e in the United States	
			□ b10. Other (Please specif	• •			
			☐ b11. Application for Earth	Station to Access a Non-U	.S. Satellite Not Cur	rrently Authorized to Provide	
			the Proposed Service in t	the Proposed Frequencies	in the United States	s	
	ubmitted with this ap	•					
•	nplete and attach FC						
		ption (see 47 C.F.R.	•				
☐ Government Entity			☐ Noncommercial education	nal licensee			

☐ Other (please explain):

17d.				
Fee Classification CGV - Fixed Satell	ite VSAT System			
18. If this filing is in reference to an		this filing is an amendment to a pe	ending application enter both fields, if this	s filing is a
existing station, enter:	modi	fication please enter only the file nu	ımber:	_
(a) Call sign of station:		ate pending application was filed:	(b) File number:	
	•	TYPE OF SERVICE		
20. NATURE OF SERVICE: This filing	g is for an authorization to	provide or use the following type(s	s) of service(s):	
Select all that apply:				
☑ a. Fixed Satellite				
☐ b. Mobile Satellite				
\square c. Radiodetermination Satellite				
\square d. Earth Exploration Satellite				
\square e. Direct to Home Fixed Satellite				
☐ f. Digital Audio Radio Service				
☐ g. Other (please specify)				
21. STATUS: Choose the button next	to the applicable status.	22. If earth station a	pplicant, check all that apply.	
Choose only one.		☐ Using U.S. licens	sed satellites	
☐ Common Carrier	☑ Non-Common Carrie	er ☑ Using Non-U.S.	licensed satellites	
23. If applicant is providing INTERNA	TIONAL COMMON CAR	RIER service, see instructions rega	rding Sec. 214 filings.	
Choose one. Are these facilities:				
☐ Connected to a Public Switched N	letwork 🗆 N	lot connected to a Public Switched	Network	
24. FREQUENCY BAND(S): Place ar	nd 'X' in the box(es) next t	to all applicable frequency band(s).		
☐ a. C-Band (4/6 GHz)	\square b. Ku-Band (12/14) (GHz		
☑ c. Other (Please specify upper an	d lower frequencies in MI	Hz.)		
Frequency Lower:	Frequency Upper:			
TX-28600 MHz, RX- 18800 MHz	TX-29100 MHz, RX-193			
		TYPE OF STATION		
25. CLASS OF STATION: Choose th	e button next to the class	of station that applies. Choose or	ily one.	
☑ a. Fixed Earth Station				
\square b. Temporary-Fixed Earth Station				
☐ c. 12/14 GHz VSAT Network				
☐ d. Mobile Earth Station				
\square e. Geostationary Space Station				
☐ f. Non-Geostationary Space Station	on			
☐ g. Other (please specify)				
26. TYPE OF EARTH STATION FAC	•			
☑ Transmit/Receive	☐ Transmit-Only	☐ Receive-Only	□ 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.)				
☑ aauthorization to add new emission designator and related service				
\square bauthorization to change emission designator and related service				
☐ cauthorization to increase EIRP and EIRP density				
☐ dauthorization to replace antenna				
☑ eauthorization to add antenna				
☐ fauthorization to relocate fixed station				
☐ gauthorization to change frequency(ies)				
☑ hauthorization to add frequency				
☑ iauthorization to add Points to Communication (satellites & amp; countries)				
☐ jauthorization to change Points of Communication (satellites & amp; countries)				
☐ kauthorization for facilities for which environmental assessment and radiation hazard reporting is required				
☐ Iauthorization to change orbit location				
☐ mauthorization to perform fleet management				
☐ nauthorization to extend milestones				
□ oOther (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	☐ Yes	□ No		
Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as exhibit to this				
application. A Radiation Hazard Study must accompany all applications for new transmitting facilities,				
major modifications, or major amendments.				
ALIEN OWNERSHIP Earth station applicants not proposing to provide broad	cast, common ca	rrier,		
aeronautical en route or aeronautical fixed radio station services are not required	to respond to Iter	ms 30-34.		
29. Is the applicant a foreign government of the representative of any foreign government?	☐ Yes	☑ No		
30. Is the applicant an alien or the representative of an alien?	☐ Yes	☑ No	□ N/A	
31. Is the applicant a corporation organized under the laws of any foreign government?	☐ Yes	✓ 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	☐ Yes	✓ No	□ N/A	
thereof or by any corporation organized under the laws of a foreign country?				
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than				
one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign	☐ Yes	✓ No	□ N/A	
government or representative thereof or by any corporation organized under the laws of a foreign country?				
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens of	r			
foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.				
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BASIC QUALIFICATIONS

Bricio &criticito		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?	☐ Yes	☑ No
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.		
36. Has the applicant or any party to this application or amendment had any FCC station authorization or		
license revoked or had any application for an initial, modification or renewal of FCC station authorization,	☐ Yes	☑ No
license, or construction permit denied by the Commission?		
If Yes, attach as an exhibit, an explanation of circumstances.		
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?	☐ Yes	☑ No
If Yes, attach as an exhibit, an explanation of circumstances.		
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	☐ Yes	☑ No
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.		
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?	☐ Yes	☑ No
If Yes, attach as an exhibit, an explanation of the circumstances.		
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, add	ress, and citizenship	o 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 ca	se of fiduciary contr	ol, indicate the
beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the File	er.	
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		□ No
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.		
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.	☐ Yes	☑ No
If No, proceed to question 43.		
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issue	d, what administrati	ion has
coordinated or is in the process of coordinating the space station?		
43. Description. (Summarize the nature of the application and the services to be provided).		
Verizon seeks STA for up to 30 days for earth stations to test, validate, and		
demonstrate communications with Telesat's LEO 1 satellite.		

43a. Geographic Service Rule Certification	
By selecting A, the undersigned certifies that the applicant is not subject to the	ne geographic service or
geographic coverage requirements specified in 47 C.F.R. Part 25	
By selecting B, the undersigned certifies that the applicant is subject to the go	5 .
geographic coverage requirements specified in 47 C.F.R. Part 25 and will co	mply with such requirements
By selecting C, the undersigned certifies that the applicant is subject to the g	eographic service or \Box C
geographic coverage requirements specified in 47 C.F.R. Part 25 and will no	t comply with such requirements
because it is not feasible as a technical matter to do so, or that, while technic	ally feasible, such services
would require so many compromises in the satellite design and operation as	to make it economically unreasonable.
A narrative description and technical analysis demonstration this claim are at	tached.
(CERTIFICATION
application would not cause the applicant to be in violation of the spectrum a	authorization in accordance with this application. The applicant certifies that grant of this ggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof igned, individually and for the applicant, hereby certifies that all statements made in this pest of his or her knowledge and belief, and are made in good faith.
44. Applicant is a (an): (Choose the button next to the applicable response.)	
☐ Individual	
☐ Unincorporated Association	
☐ Partnership	
☑ Corporation	
☐ Government Entity	
☐ Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
April Valenezian	Wireless Engineer
47. Please supply any needed attachments.	
WILLFUL FALSE SATEMENTS MADE ON THIS	S FORM ARE PUNISHABLE BY FINE AND/OR IMPREISONMENT
(U.S. Code, Title 18, Section 1001), AN	D/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).

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description) FOR OFFICIAL USE ONLY Location of Earth Station Site Verizon Westlake Labs E1. Site Identifier: E5. Call Sign: E2. Contact Name: E6. Phone Number E3. Street: 1600 Solana Blvd E7. City: Westlake E8. County: **United States** E4. State: E9. Zip Code: 76262 **Texas** E10. Area of Operation: USA 32.984 North 32° 59' 2" E11. Latitude: E12: Longitude: 97.1755 West 97° 10' 32" E13. Lat/Lon Coordinates are: □ NAD-27 NAD-83 □ N/A E14. Site Elevation (AMSL): 173 Meters E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, ┌ Yes do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and \sqcap No √ N/A (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy. E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with □ No √ N/A ☐ Yes the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? E17. Is the facility operated by remote control? ☐ Yes √ No If YES, provide the location and telephone number of the control point. □ Yes √ No E18. Is frequency coordination required? If YES, attach a frequency coordination report as E19. Is coordination with another country required? ☐ Yes √ No If YES, attach the name of the country(ies) and plot of coordination contours as E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c) Where FAA notification is required, have you attached a copy of a completed FCC form 854 and/or the FAA's study regarding the ┌ Yes √ No potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. POINT OF COMMUNICATION Satellite Name: If you selected OTHER, please enter the following: COMMSTELLATION E21. Common Name: Telesat Leo-1 E22. ITU Name: E23. Orbit Location: Non-GEO E24. Country: Canada POINTS OF COMMUNICATION (Destination points) E25. Site Identifier:

E27. Country:

E26. Common Name:

ANTENNA

Site ID	E28. Antenna ID	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Receive (dBi atGHz)	
	LEO1	1	Seatel	4412	1	48.5 dBi @ 31 GHz	
	LEO1	1	Seatel	4412	1	45.5 dBi @ 20.5 GHz	

	E28. Antenna ID	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36.Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)	
Ì	LEO1	1.0/1.0	21	175	21	14.19	0	60.02	

FREQUENCY

E28. Antenna ID	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP Per Carrier (dBW)	E49. Maximum EIRP Density Per Carrier (dBW/4kHz)	E50. Modulation and Service	
LEO1	28600 - 29100	T	L	10M5D1D	57.02	22.83	DATA 256APSK	
LEO1	28600 - 29100	T	L	50M0D1D	57.02	16.05	DATA 32APSK	
LEO1	18800 - 19300	R	R	10M5D1D				
LEO1	18800 - 19300	R	R	50M0D1D				

FREQUENCY COORDINATION

E28.	E51. Satellite	E52/53.	E54/55. Range	E56. Earth	E57. Antenna	E58. Earth	E59. Antenna	E60. Maximum
Antenna Id	Orbit Type	Frequency Limits (MHz)	of Satellite Arc Eastern/Western Limit	Station Azimuth Angle Eastern Limit	Elevation Angle Eastern Limit	Station Azimuth Azimuth Angle Western Limit	Elevation Angle Western Limit	EIRP Density toward the Horizon (dBW/4kHz)
LEO1	NGSO	28600 - 29100	NON-GEO	0	5	360	5	
LEO1	NGSO	18800 - 19300	NON-GEO	0	5	360	5	

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL I CIRT ECCATION	
E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the	
callsign for which this application is being filed.	
E62. Street Address	

E63. City	E68. County	E67/68. State/Country	E64. Zip Code