

**SATELLITE EARTH STATION AUTHORIZATIONS**  
**FCC Form 312 - Schedule B: (Technical and Operational Description)**  
**FOR OFFICIAL USE ONLY**

Location of Earth Station Site			
E1. Site Identifier:	Verizon Westlake Labs	E5. Call Sign:	
E2. Contact Name:		E6. Phone Number:	
E3. Street:	1600 Solana Blvd	E7. City:	Westlake
E4. State:	Texas	E8. County:	United States
E10. Area of Operation:	USA	E9. Zip Code:	76262
E11. Latitude:	32.984 North	32° 59' 2"	
E12. Longitude:	97.1755 West	97° 10' 32"	
E13. Lat/Lon Coordinates are:		<input type="checkbox"/> NAD-27	<input checked="" type="checkbox"/> NAD-83 <input type="checkbox"/> N/A
E14. Site Elevation (AMSL):	173 Meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
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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 the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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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 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.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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**POINT OF COMMUNICATION**

Satellite Name:	If you selected OTHER, please enter the following:		
E21. Common Name:	Telesat Leo-1	E22. ITU Name:	COMMSTELLATION
E23. Orbit Location:	Non-GEO	E24. Country:	Canada

**POINTS OF COMMUNICATION (Destination points)**

E25. Site Identifier:	1		
E26. Common Name:	Westlake	E27. Country:	USA

**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 at _____GHz)
	LEO1	1	Seatel	4412	1.1	48.5 dBi @ 31 GHz / 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)
LEO1	1.1	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	29000 - 29100	T	L	10M5D1D	57.02	22.83	DATA 256APSK
LEO1	29000 - 29100	T	L	50M0D1D	57.02	16.05	DATA 32APSK
LEO1	19200 - 19300	R	R	10M5D1D			
LEO1	19200 - 19300	R	R	50M0D1D			

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits (MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
LEO1	NGSO	29000 - 29100	NON-GEO	0	10	360	90	-21.67
LEO1	NGSO	19200 - 19300	NON-GEO	0	10	360	90	

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E66. Phone Number		
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code