43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geo 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 geograp coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.

( ) B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geograp coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements becaus feasible as a technical matter to do so, or that, while technically feasible, such services would require so r compromises in satellite design and operation as to make it economically unreasonable. A narrative desc and technical analysis demonstrating this claim are attached.

( ) C

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory p United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordanc application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggre 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 ap The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached ex 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 applicable response.)

- ○ Individual
- ○ Unincorporated Association
- ○ Partnership
- ◉ Corporation
- ○ Governmental Entity
- ○ Other (please specify)

| 45. Name of Person Signing | 46. Title of Person Signing |
|---|---|
| Daryl T. Hunter | Director, Regulatory Affairs |

47. Please supply any need attachments.

| Attachment 1 | Attachment 2: | Attachment 3: |
|---|---|---|
| Exhibit A - Narrativ | | |

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).

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: | Tuscon GW #4 | E5. Call Sign: | | |
| E2: Contact Name | Daryl T. Hunter | E6. Phone Number: | 1-888-272-7232 | |
| E3. Street: | 460 S. Toole Ave. | E7. City: | Tuscon | |
| | | E8. County: | Pima | |
| E4. State | AZ | E9. Zip Code | 85701 | |
| E10. Area of Operation: | | Fixed | | |
| E11. Latitude: | 32°12'57.17"N | | | |
| E12. Longitude: | 110°57'42.68"W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD-27 | ◉ NAD-83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 736.24meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as dem by the manufacturer's qualification measurement? If NO, provide a technical analysis showing compliance wi two-degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in t Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the c point. | ◉ Yes ○ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is require you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ◉ Yes ○ No |

POINTS OF COMMUNICATION

| Satellite Name | PERMITTED LIST \| PERMITTED LIST \| | If you selected OTHER, please enter the following: |
|---|---|---|

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

| Satellite Name: | WILDBLUE 1 \| WILDBLUE 1 \| 111.1 W.L. | If you selected OTHER, please enter the following: |
|---|---|---|
| E21. Common Name: | | E22. ITU Name: |
| E23. Orbit Location: | | E24. Country: |

| Satellite Name: | AMC-15 \| AMC-15 \| 105 W.L. | If you selected OTHER, please enter the following: |
|---|---|---|
| E21. Common Name: | | E22. ITU Name: |
| E23. Orbit Location: | | E24. Country: |

| Satellite Name: | ANIK-F2 \| ANIK-F2 \| 111.1 W.L. | If you selected OTHER, please enter the following: |
|---|---|---|
| E21. Common Name: | | E22. ITU Name: |
| E23. Orbit Location: | | E24. Country: |

| Satellite Name: | OTHER \| OTHER \| | If you selected OTHER, please enter the following: |
|---|---|---|
| E21. Common Name: | ViaSAT-1 | E22. ITU Name: | IOMSAT-11A |
| E23. Orbit Location: | 115.1 | E24. Country: | United Kingdom |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| Tuscon GW #4 | GW 4 | 1 | ViaSat, Inc. | VA-7.3-KA | 7.3 | 65.52 dBi at 30 |
| | | | | | | 61.9 dBi at 18.3 |
| | | | | | | 62.75 dBi at 20.2 |
| | | | | | | 65.39 dBi at 29.1 |
| | | | | | | 65.29 dBi at 28.35 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| GW 4 | 0.0/0.0 | 9.982 | 746.222 | 3.6576 | 200.0 | 6.3246 | 74.0 |

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 ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| GW 4 | 29500<br>29504 | T | Left and Right Circular | 1M00F2D | 0.0 | 0.0 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

Not used, please delete this entry

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 29500<br>29504 | T | Left and Right Circular | 1M000G2D | 0.0 | 0.0 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

Not used, please delete this entry

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 18300<br>19300 | R | Left and Right Circular | 20M0G7D | 0.0 | 0.0 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

PSK digital data for Internet to home services

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 19700<br>20200 | R | Left and Right Circular | 20M0G7D | 0.0 | 0.0 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

PSK digital data for Internet to home services

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 29999<br>30000 | T | Left and Right Circular | 1K00N0N | 0.0 | 0.0 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

Not used, please delete this entry

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 28100<br>29100 | T | Left and Right Circular | 416MG7D | 69.0 | 18.9 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

PSK digital data for Internet to home services

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 28100<br>29100 | T | Left and Right Circular | 52M1G7D | 60.0 | 18.9 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

PSK digital data for Internet to home services

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 29500<br>30000 | T | Left and Right Circular | 416MG7D | 69.0 | 18.9 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

PSK digital data for Internet to home services

| | | | | | | |
|---|---|---|---|---|---|---|
| GW 4 | 29500<br>30000 | T | Left and Right Circular | 52M1G7D | 60.0 | 18.9 |

E50. Modulation and Services(If the complete description does not appear in this box, please go to the end of the form to view it in entirety.)

PSK digital data for Internet to home services

FREQUENCY COORDINATION

| E28. Antenna Id | E51. Satellite Orbit Type | E52/53. Frequency Limits(MHz) | E54/55. Range of Satellite Arc E/W 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) |
|---|---|---|---|---|---|---|---|---|
| GW 4 | Geostationary | 18300<br>19300 | 39.0/ 183.0 | 99.9 | 6.6 | 260.2 | 6.5 | 0.0 |
| | Geostationary | 19700<br>20200 | 39.0/ 183.0 | 99.9 | 6.6 | 260.2 | 6.5 | 0.0 |
| | Geostationary | 28100<br>29100 | 39.0/ 183.0 | 99.9 | 6.6 | 260.2 | 6.5 | -41.3 |
| | Geostationary | 29500<br>30000 | 39.0/ 183.0 | 99.9 | 6.6 | 260.2 | 6.5 | -41.3 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not tl callsign for which this application is being filed. | | E65. Phone Number<br>720-554-7575 | |
|---|---|---|---|
| E62. Street Address<br>5970 South Greenwood Plaza Blv<br>Suite 300 | | | |
| E63. City<br>Greenwood Village | E67. County<br>Arapahoe | E64/68. State/Country<br>CO/ USA | E66. Zip Code<br>80111 |

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