b.

b1. Application for License of New Station

b2. Application for Registration of New Domestic Receive-Only Station

(N/A) a2. Space Station

b.

b1. Application for License of New Station

b2. Application for Registration of New Domestic Receive-Only Station

(N/A) b3. Amendment to a Pending[(both questions a. and b)40(. Choose only one)]TJ ET

CLASSIFICATION OF FILING a1. Earth Station

(N/A) a2. Space Station

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 Noncommercial educational licensee Other(please explain):
17d. Fee Classification

18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable	19. If this filing is an amendment to a pending application enter: (a) Date pending application was filed: Not Applicable (b) File number of pending application: Not Applicable

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)	
21. STATUS: Choose the button next to the applicable status. Cho 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 providng INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. facilities:

Connected to a Public Switched Network Not connected to a Public Switched Network X N/A

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).

a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz)

c. Other (Please specify upper and lower frequencies in MHz.)

Frequency Lower: Frequency Upper:

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

a. Fixed Earth Station
b. Temporary-Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non-Geostationary Space Station
g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.

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.)

Not Applicable

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, ma modifications, or major amendments.	Yes	No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or 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 vo aliens or their representatives or by a foreign government or representative thereof or by any corporation under the laws of a foreign country?

Yes No N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more th Yes No N/A one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign 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 foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own o

BASIC QUALIFICATIONS

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 revoked or had any application for an initial, modification or renewal of FCC station authorization, license, construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstanc	Yes	No
37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly con the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	Yes	No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applica guilty of unlawfully monopolizing or attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any 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 pe matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumsta	Yes	No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the na address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Fi voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Dru 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substa 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States 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.	Yes	No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administr 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). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Station will be utilizing one C-band Receive Only Earth Station to help distribute radio programming and other related content

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
Mark Spiller	Vice President of Engineering

47. Please supply any need attachments.

Attachment 1:	Attachment 2:	Attachment 3:

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:	Arboretum Site	E5. Call Sign:		
E2: Contact Name	Mike Friedman	E6. Phone Number:	804-560-8154	
E3. Street:	300 Arboretum Place	E7. City:	Richmond	
		E8. County:	Chesterfield	
E4. State	VA	E9. Zip Code	23236	
E10. Area of Operation:		Virginia		
E11. Latitude:	37°30'16.8"N			
E12. Longitude:	77°42'13.0"W			
E13. Lat/Lon Coordinates are:		NAD-27	NAD-83	N/A
E14. Site Elevation (AMSL):		76.99meters		

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 detailed 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?

Yes No

FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.

POINTS OF COMMUNICATION

Satellite Name: PERMITTED LIST | | If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:	PERMITTED LIST | |	If you selected OTHER, please enter the following:
E21. Common Name:		E22. ITU Name:
E23. Orbit Location:		E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	Arboretum Site	
E26. Common Name:		E27. Country: USA

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	Arboretum Site	
E26. Common Name:		E27. Country: USA

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	Arboretum Site	
E26. Common Name:		E27. Country: USA

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	Arboretum Site	
E26. Common Name:		E27. Country: USA

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)
Arboretum Site	3.8M	1	Comtech	Unknown	3.8	43.4 dBi at 3.950
						43.4 dBi at 3.950

						43.4 dBi at 3.950
						43.4 dBi at 3.950

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 Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
3.8M	0.0/0.0	34.0	76.99	30.0	0.0	3.0	0.0
3.8M	0.0/0.0	34.0	76.99	30.0	0.0	3.0	0.0

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)
3.8M	3700 4200	R	Horizontal and Vertical	36M0G7W	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 entirety.)

DVB-S QPSK

3.8M	3700 4200	R	Horizontal and Vertical	36M0G7W	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 entirety.)

DVB-S QPSK

3.8M	3700	4200	R	Horizontal and Vertical	36M0G7W	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 entirety.)

DVB-S QPSK

3.8M	3700	4200	R	Horizontal and Vertical	36M0G7W	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 entirety.)

DVB-S QPSK

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)
3.8M	Geostationary	3700 4200	60.0/ 175.0	146.5	41.3	254.3	11.0	0.0
	Geostationary	3700 4200	60.0/ 175.0	146.5	41.3	254.3	11.0	0.0
	Geostationary	3700 4200	60.0/ 175.0	146.5	41.3	254.3	11.0	0.0
	Geostationary	3700 4200	60.0/ 175.0	146.5	41.3	254.3	11.0	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign

E65. Phone Number

NOTE: Please enter the callsign of the controlling station, not tl callsign for which this application is being filed.

E62. Street Address

E63. City

E67. County

E64/68. State/Country /

E66. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC
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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.