Approved by OMB
3060−0678

Date & Time Filed: Oct 16 2018 3:56:12:153PM
File Number: SES−MOD−INTR2018−08481

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:
Northwest − Modification of E900491

1−8. Legal Name of Applicant

Name:	Bresnan Communications, LLC	**Phone Number:**	3033231423
DBA Name:		**Fax Number:**	
Street:	12405 Powerscourt Drive	**E−Mail:**	CharterFCC@charter.com
City:	St Louis	**State:**	MO
Country:	USA	**Zipcode:**	63131 −3673
Attention:	Alexis Anderten		

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.	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.	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 applicable response.)

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

45. Name of Person Signing	46. Title of Person Signing

−−>

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:	Townsend, MT	E5. Call Sign:	E900491	
E2: Contact Name	Alexis Anderten	E6. Phone Number:	3033231423	
E3. Street:	701 N Cedar St	E7. City:	Townsend	
		E8. County:	Broadwater	
E4. State	MT	E9. Zip Code	59644	
E10. Area of Operation:		Townsend, MT		
E11. Latitude:	46 °19 ’39.5 "N			
E12. Longitude:	111 °31 ’22.4 "W			
E13. Lat/Lon Coordinates are:		NAD−27	NAD−83	N/A
E14. Site Elevation (AMSL):		1164.3 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.	Yes No N/A

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?	Yes No N/A
E17. Is the facility operated by remote control? 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	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 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.	Yes No

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:

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 Gain Transmint and/or Recieve (____dBi at _____GHz)	
Townsend, MT	1	1	Scientific Atlanta	8346	4.6	43.8 dBi at 4.0	
Townsend, MT	2	1	Prodelin	Unknown	3.7	40.9 dBi at 4.0	
Townsend, MT	3	1	Patriot	Unknown	3.8	41.8 dBi at 4.0	
Townsend, MT	4	1	Prodelin	Unknown	3.7	40.9 dBi at 4.0	
Townsend, MT	5	1	Channel Master	Unknown	1.9	35.9 dBi at 4.0	
Townsend, MT	6	1	Prodelin	Unknown	3.7	40.9 dBi at 4.0	
Townsend, MT	7	1	Scientific Atlanta	8023	5.0	44.4 dBi at 4.0	

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)
1	0.0/0.0	6.1	1170.4	0.0	0.0	0.0	0.0
2	0.0/0.0	6.1	1170.4	0.0	0.0	0.0	0.0
3	0.0/0.0	6.1	1170.4	0.0	0.0	0.0	0.0

4	0.0/0.0	6.1	1170.4	0.0	0.0	0.0	0.0
5	0.0/0.0	6.1	1170.4	0.0	0.0	0.0	0.0
6	0.0/0.0	6.1	1170.4	0.0	0.0	0.0	0.0
7	0.0/0.0	6.1	1170.4	0.0	0.0	0.0	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)
1	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 in its entirety.)

Video, Audio, Data

2	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 in its entirety.)

Video, Audio, Data

3	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 in its entirety.)

Video, Audio, Data

4	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 in its entirety.)

Video, Audio, Data

5	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 in its entirety.)

Video, Audio, Data

6	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 in its entirety.)

Video, Audio, Data

7	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 in its entirety.)

Video, Audio, Data

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)**
1	Geostationary	3700 4200	60.0/143.0	119.893	17.13789	220.2467	28.44022	0.0

2	Geostationary	3700 4200	60.0/143.0	119.893	17.13789	220.2467	28.44022	0.0
3	Geostationary	3700 4200	60.0/143.0	119.893	17.13789	220.2467	28.44022	0.0
4	Geostationary	3700 4200	60.0/143.0	119.893	17.13789	220.2467	28.44022	0.0
5	Geostationary	3700 4200	60.0/143.0	119.893	17.13789	220.2467	28.44022	0.0
6	Geostationary	3700 4200	60.0/143.0	119.893	17.13789	220.2467	28.44022	0.0
7	Geostationary	3700 4200	60.0/143.0	119.893	17.13789	220.2467	28.44022	0.0

REMOTE CONTROL POINT LOCATION

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

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.

Remember − You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060−0678.

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.