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APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Arvig Sauk Centre, MN CATV Headend

1-8. Legal Name of Applicant

Name: Mainstreet Communications LLC **Phone Number:** 218–346–8270

DBA Fax Number: 218–346–8829

Name:

Street: 150 2nd St. SW E-Mail: Joel.Smith@arvig.com

City: Perham State: MN

Country: USA Zipcode: 56573 -

Attention: Joel Smith

9–16. Name of Contact Representative

Name: Robert Schaeffer **Phone Number:** 920–923–1034

Company: Technology Planners **Fax Number:** 920–923–1086

Street: W3910 Mc Cabe Rd. E-Mail: Robert.Schaeffer@techplanners.

com

Suite B

City: Malone State: WI

Country: USA Zipcode: 53049–

Attention: Robert Schaeffer Relationship: Engineer

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b. a. a. a. 1. Earth 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 Application (N/A) b4. Modification of License or Registration (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive—Only Station Using Non—U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non—U.S. Licensed Satellite to Provide Service in the United States
	■ b10. Other (Please specify)
	♦ b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to
	Provide the Proposed Service in the Proposed Frequencies in the United States. b12. Application for Database Entry
	(N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modification of Database Entry
17c. Is a fee submitted with this application	ion?
	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
Governmental Entity Noncomme	ercial educational licensee
Other(please explain):	
17d.	
Fee Classification CMO – Receive Only E	arth Station

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

TYPE OF CEDVICE

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. Choose only one. Common Carrier Non–Common Carrier	22. If earth station applicant, check all that apply. We using U.S. licensed satellites Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER sifacilities: Connected to a Public Switched Network Not connected to 	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these to a Public Switched Network

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
1

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, major modifications, or major amendments.	٥	Yes	No No	
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	nutical er	route	or	
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes	● N	o	
30. Is the applicant an alien or the representative of an alien?	• Yes	O N	o 🌘 N/A	`
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	O N	o () 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 thereof or by any corporation organized under the laws of a foreign country?	O Yes	O N	o 💿 N/A	`

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 government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes O No	o o N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	O Yes	No
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, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No

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? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
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 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	O Yes	⊚ No
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? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship 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 case of fiduciary control, indicate the beneficiary(ies) or class of 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 is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug 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.	Yes	O No
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. If No, proceed to question 43.	Yes	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? Permitted List	vhat administi	ration has

43. Description. (Summarize the nature of the application and the services to be provided). not appear in this box, please go to the end of the form to view it in its entirety.)

(If the complete description does

New C-band TVRO earth stations located in Sauk Centre, MN. Earth stations are to supply signal for CATV operations. The Coordinates used are referenced to WGS84, using Google Earth as a visual check of geographic location. Selecting NA to answer question E13 would not allow the form to validate.

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.	O 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.	o 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.

- Individual				
o Individual				
Unincorporated Association				
Partnership				
Corporation				
Governmental Entity				
Other (please specify)				
45. Name of Person Signing		46. Title of Pers	son Signing	
Robert Schaeffer		Consulting Eng	rineer	
		•		
47. Please supply any need attachment	s.			
Attachment 1:	Attachment 2:		Attachment 3:	
			'	
WILLFUL FALSE STATE	MENTS MADE ON THIS FO	ORM ARE PUNISHA	ABLE BY FINE AND / OR IMPRISON	NMENT

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: Arvig Sauk Centre E5. Call Sign:

E2: Contact Name Joel Smith E6. Phone 218–346–8270

Number:

E3. Street: 831 Main St. S. E7. City: Sauk Centre

E8. County: Stearns

E4. State MN E9. Zip Code 56378

E10. Area of Operation: Sauk Centre, MN & surrounding served communities

E11. Latitude: 45 °43 '47.08 "N

E12. Longitude: 94 °57 '3.14 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 380.09 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.	O Yes	s O 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?	O Yes	s O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Ye	es ©) No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	es 6) No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Ye	es @	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.	O Ye	s ©) 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: Arvig Sauk Centre	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Arvig Sauk Centre	D1-AMC10	9	Satellite Export & Engineering	Patriot 4.5	4.5	44.7 dBi at 3.95
	D2-AMC1/4					44.7 dBi at 3.95
	D3 Anik/F3					44.7 dBi at 3.95
	D4 Gal/14					44.7 dBi at 3.95
	D5 Gal/12					44.7 dBi at 3.95
	D6 Gal/15					44.7 dBi at 3.95
	D7 Gal/13					44.7 dBi at 3.95
	D8 Gal/18					44.7 dBi at 3.95

D9 Gal/13			44.7 dBi at 3.95

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)
D1-AMC10	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D2-AMC1/4	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D3 Anik/F3	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D4 Gal/14	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D5 Gal/12	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D6 Gal/15	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D7 Gal/13	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D8 Gal/18	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0
D9 Gal/13	4.5/4.5	5.2	385.29	0.0	0.0	0.0	0.0

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
D1-AMC10	3700 4200	R	Horizontal and Vertical	36M0G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the comple	te description does not appear	in this box, please	go to the end of	the form to view it in its		
Digital vi	deo receptio	on for CA	TV retransmission					
D2-AMC1/4	3700 420	00 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.) Digital video reception for CATV retransmission								
D3 Anik/F3	3700 420	00 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.) Digital video reception for CATV retransmission								
D4 Gal/14	3700 420	00 R	Horizontal and Vertical	36M0G7W	0.0	0.0		

E50. Modulation entirety.)	and Services (If the cor	mplete description	on does not appear in	this box, please go to	the end of the form	to view it in its		
Digital vi	deo recepti	on for	CATV retra	nsmission					
D5 Gal/12	3700 420	00 R		Horizontal and Vertical	36M0G7W	0.0	0.0		
entirety.)	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.) Digital video reception for CATV retransmission								
D6 Gal/15	3700 420	00 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.)									
Digital video reception for CATV retransmission									
D7 Gal/13	3700 420	00 R		Horizontal and Vertical	36M0G7W	0.0	0.0		

E50. Modulation ntirety.)	and Services	s (If th	ne complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
Digital vi	deo rece	ption	for CATV	retransmission			
08 Gal/18	3700	4200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation ntirety.) Digital vi				retransmission	in this box, please	go to the end of	the form to view it in its
9 Gal/13	3700	4200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation ntirety.) Digital vi				escription does not appear	in this box, please	go to the end of	the form to view it in its

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)
D1-AMC10	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D2-AMC1/4	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D3 Anik/F3	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D4 Gal/14	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D5 Gal/12	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D6 Gal/15	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D7 Gal/13	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D8 Gal/18	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0
D9 Gal/13	Geostationary	3700 4200	87.0/ 135.0	168.9	36.7	229.5	24.4	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the control callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code
			/	

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