Approved by OMB 3060–0678

Date & Time Filed: Oct 16 2018 12:29:07:770PM File Number: SES–REG–INTR2018–08342 Callsign/Satellite ID:

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:

Northwest Iowa Tele Earth Station

1–8. Legal Name of Ap	plicant		
Name:	Northwest Iowa Telephone Co Inc	Phone Number:	712-271-4000
DBA Name:		Fax Number:	712–271–2727
Street:	504 4th St	E-Mail:	debi.copple@longlines.biz
	PO Box 38		
City:	Sergeant Bluff	State:	IA
Country:	USA	Zipcode:	51054 -0038
Attention:	Mr Tony Seubert		

Name:	Joe Junck	Phone Number:	712-271-4000
Company:	Northwest Iowa Telephone Co Inc	Fax Number:	712-271-2727
Street:	504 4th ST	E-Mail:	joe.junck@longlines.biz
	PO Box 38		
City:	Sergeant bluff	State:	IA
Country:	USA	Zipcode:	51024-0038
Attention:	Mr Joe Junck	Relationship:	Engineer

CLASSIFICATION OF FILING

17. Choose the button next to the	b.
classification that applies to this filing for	b1. Application for License of New Station
both questions a. and b. Choose only one	b2. Application for Registration of New Domestic Receive–Only Station
for 17a and only one for 17b.	(N/A) b3. Amendment to a Pending Application
	(N/A) b4. Modification of License or Registration
a. a1. Earth Station	(N/A) b5. Assignment of License or Registration
(N/A) a2. Space Station	(N/A) b6. Transfer of Control of License or Registration
(IVA) a2. Space Station	(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
	b 10. 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. Modifiction of Database Entry
17c. Is a fee submitted with this applicate	ion?
• If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
O Governmental Entity O Noncomme	ercial educational licensee
Other(please explain): PGC3158305IB	October 4 2018 Submission ID IB2018006539
17d.	
Fee Classification CMO – Receive Only E	arth Station

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:

(b) File number of pending application:

Not Applicable

Not Applicable

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	e 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	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
• Connected to a Public Switched Network • Not connected	to a Public Switched Network 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

o 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, major modifications, or major amendments.

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.

Yes

No

29. Is the applicant a foreign government or the representative of any foreign government?	O 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?	O Yes No 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 No O N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than	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 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 attemptiing 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	• 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.	• 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.	O Yes No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has 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.)

Receive- only earth station to operate with permitted list Satellites to receive broadcast Services from national Weather Service

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.	Α
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.

44. Applicant is a (an): (Choose the	button next to applicable response	se.)		
Individual Unincorporated Association Partnership Corporation Governmental Entity				
Other (please specify)				
45. Name of Person Signing		46. Title of Perso	on Signing	
Joe Junck		Headend Manager		
47. Please supply any need attachme	ents.			
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 S	tation Site					
E1: Site Identifier:	Site Salix	E5. Call Sign:				
E2: Contact Name	Joe Junck	E6. Phone Number:	712-271-4000			
E3. Street:	404 Poplar Street	E7. City:	Salix			
		E8. County:	Woodbury			
E4. State	IA	E9. Zip Code	51052			
E10. Area of Opera	tion:	Iowa				
E11. Latitude:	42 °18 '29.8 "N					
E12. Longitude:	96°17'12.8 "W					
E13. Lat/Lon Coord	dinates are:	O NAD−27	NAD-83	O ^{N/A}		
E14. Site Elevation	(AMSL):	0.0 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	O ^{No}	O 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	No	O N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	s N	0

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	● No)
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	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.	0	Yes	No)

POINTS OF COMMUNICATION

Satellite Name:SES-3 (S2892) | 103 W.L. If you selected OTHER, please enter the following:

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

Satellite Name:GALAXY 28 (S2160) GALAXY 28 89.0 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: AMC 10 (S2432) AMC 10 135 W.L.	If you select	ted 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:

Satellite Name:GALAXY 14 (S2385) GALAXY 14 125 W.L.	f you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:AMC-11(S2433) AMC-11 131 W.L. If you sel	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: GALAXY 15 (S2387) | GALAXY 15 | 133.1 If you selected OTHER, please enter the following:

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

Satellite Name: AMC-15 (S2180) AMC-15 105.0 W.L. If you	selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SES-1 (S2807) SES-1 101.0 W.L. If you see	elected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:GALAXY 13 (S2386) GALAXY 13 127 W.L.	f you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:GALAXY 18 (S2733) GALAXY 18 123 W.L.	f you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:GALAXY 23 (S2592) | GALAXY 23 | 121 W.L. 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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
Site Salix	Salix01	1	Mesh	Mesh INC	3.3	35.0 dBi at 4
	Salix02			MESH2		35.0 dBi at 6
	Salix 03		Scientific Atlanta	5	5.0	50.0 dBi at 6
	Salix04		Scientific Alanta	3.5	3.5	45.0 dBi at 6
	Salix05					45.0 dBi at 6
	Salix06			3.7	3.7	45.0 dBi at 6
	Salix07		Mesh	Mesh7	3.3	35.0 dBi at 6
	Salix08		Scientific Alanta	3.5	3.5	45.0 dBi at 6
	Salix09		Mesh	Mesh9	3.3	35.0 dBi at 6

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro Lev	. Above und el ters)	E36. A Level< (meter		E37. Buil Height A Ground Level <bl (meters)</bl 	bove	E38. Total Input Power antenna flange (Watts)	at	E39. Maximum Antenna Heigł Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
Salix01	3.3/3.3	0.0		20.0		0.0		0.0		0.0	0.0
Salix02	3.3/3.3	0.0		20.0		0.0		0.0		0.0	0.0
Salix 03	5.0/5.0	0.0		20.0		0.0		0.0		0.0	0.0
Salix04	3.5/3.5	0.0		20.0		0.0		0.0		0.0	0.0
Salix05	3.5/3.5	0.0		20.0		0.0		0.0		0.0	0.0
Salix06	3.7/3.7	0.0		20.0		0.0		0.0		0.0	0.0
Salix07	3.3/3.3	0.0		20.0		0.0		0.0		0.0	0.0
Salix08	3.5/3.5	0.0		20.0		0.0		0.0		0.0	0.0
Salix09	3.3/3.3	0.0		20.0		0.0		0.0		0.0	0.0
FREQUENCY		_		<u> </u>		1					-
E28. Antenna Io	E43/44. Frequency B (MHz)	ands	E45. T/R N	Iode	E46. Anta Polarizat L,R)		E47. E Design	ator		P per Carrier	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Salix01	3700	4200	R		Horizonta	al and	0	(0.0		0.0

Vertical

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								
Saliz	x02	3700	4200	R	Horizontal and Vertical	0	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							
Salix 03	3700	4200 R	Horizontal and	0	0.0	0.0	

Vertical

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								
Salix04	3700	4200	R	Horizontal and Vertical	0	0.0	0.0	

E50. Modulation entirety.)	n and Service	es (If the	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
Video							
Salix05	3700	4200	R	Horizontal and Vertical	0	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If the	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
Salix06	3700	4200	R	Horizontal and Vertical	0	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If th	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
Salix07	3700	4200	R	Horizontal and Vertical	0	0.0	0.0

tion and Servic	es (If t	he complete de	escription does not appear	in this box, p	please go to the end of the	ne form to view it in i	its
3700	4200	R	Horizontal and Vertical	0	0.0	0.0	
3700	4200	R	Horizontal and Vertical	0	0.0	0.0	
tion and Servic	es (If t	he complete de	escription does not appear	in this box, p	please go to the end of the	ne form to view it in i	its
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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)
Salix01	Geostationary	3700 4200	42.0/ 96.0	110.0	39.0	116.0	41.15	-20.0
Salix02	Geostationary	3700 4200	42.0/ 96.0	110.0	39.0	116.0	41.15	-20.0
Salix 03	Geostationary	3700 4200	42.0/ 96.0	110.0	39.0	116.0	41.15	-20.0
Salix04	Geostationary	3700 4200	42.0/96.0	110.0	39.0	116.0	41.15	-20.0
Salix05	Geostationary	3700 4200	42.0/ 96.0	110.0	39.0	116.0	41.15	-20.0
Salix06	Geostationary	3700 4200	42.0/96.0	110.0	39.0	116.0	41.15	-20.0
Salix07	Geostationary	3700 4200	42.0/96.0	110.0	39.0	116.0	41.15	-20.0
Salix08	Geostationary	3700 4200	42.0/96.0	110.0	39.0	116.0	41.15	-20.0
Salix09	Geostationary	3700 4200	42.0/ 96.0	110.0	39.0	116.0	41.15	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E65. Phone Number		
NOTE: Please enter the callsign of the contro 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

The public reporting for this collection of information is estimated to average 0.25 – 24 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.

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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.