

Date & Time Filed: Mar 3 2021 3:42:42:660PM
File Number: SES-MS-INTR2021-00904
Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
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APPLICANT INFORMATION

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

Registration pursuant to waiver granted in IB order DA 20-1258 for call sign E060308

1-8. Legal Name of Applicant			
Name:	Ace Telephone Association	Phone Number:	5078966211
DBA Name:		Fax Number:	507-896-2149
Street:	207 E CEDAR STREET PO Box 360	E-Mail:	csweet@acentek.net
City:	HOUSTON	State:	MN
Country:	USA	Zipcode:	55943 -0360
Attention:	Cynthia Sweet		

9-16. Name of Contact Representative

Name:	Cynthia Sweet	Phone Number:	507-896-6211
Company:	Ace Telephone Association	Fax Number:	507-896-2149
Street:	207 East Cedar Street	E-Mail:	csweet@acentek.net
City:	HOUSTON	State:	MN
Country:	USA	Zipcode:	55943-0360
Attention:	Cynthia Sweet	Relationship:	Other

CLASSIFICATION OF FILING

<p>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.</p> <p>a.</p> <p><input checked="" type="radio"/> a1. Earth Station (N/A) a2. Space Station</p>	<p>b.</p> <p><input type="radio"/> b1. Application for License of New Station</p> <p><input type="radio"/> 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</p> <p><input checked="" type="radio"/> b10. Other (Please specify)</p> <p><input type="radio"/> 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.</p> <p><input type="radio"/> b12. Application for Database Entry (N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction of Database Entry</p>
<p>17c. Is a fee submitted with this application?</p> <p><input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).</p> <p><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other(please explain):</p>	
<p>17d.</p> <p>Fee Classification CMO – Receive Only Earth Station</p>	

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

<p>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:</p>	
<p><input type="checkbox"/> a. Fixed Satellite</p> <p><input type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><input checked="" type="checkbox"/> g. Other (please specify) Fixed earth station</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input checked="" type="radio"/> Common Carrier <input type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input checked="" type="checkbox"/> Using U.S. licensed satellites</p> <p><input type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network <input type="radio"/> Not connected to a Public Switched Network <input checked="" type="radio"/> N/A</p>	

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, major 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 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? Yes No 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?

Yes No 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.

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 explanation of circumstances.

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 explanation of circumstances.

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

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 exhibit, 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 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 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.)

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

E060308 was granted a waiver in DA 20-1258 to permit incumbent earth station operators to add existing co-located antennas solely for the purpose of interference protection in the 4.0-4.2 GHz portion of the band. Applicant's Site 1, Ant 1 facility contains 15 horizontal and 15 vertical co-located antennas all in operation on November 7, 2018 that

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)
Cooperative

45. Name of Person Signing Cynthia Sweet	46. Title of Person Signing Controller
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47. Please supply any need attachments.

Attachment 1:	Attachment 2:	Attachment 3:
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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:	site 1	E5. Call Sign:	E060308
E2. Contact Name	Terry Chiglo	E6. Phone Number:	507-896-6211
E3. Street:	901 Enterprise Drive	E7. City:	Rushford
		E8. County:	Fillmore
E4. State	MN	E9. Zip Code	55971
E10. Area of Operation:	Minnesota		
E11. Latitude:	43 °49 '17.5 "N		
E12. Longitude:	91 °45 '51.6 "W		
E13. Lat/Lon Coordinates are:	<input checked="" type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	243.84 meters		

<p>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.</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>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?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

<p>E18. Is frequency coordination required? If YES, attach a frequency coordination report as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>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.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

POINTS OF COMMUNICATION

<p>Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:</p>

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 GainTransmint and/or Recieve (____ dBi at ____ GHz)
site 1	Ant 2	1	ATci	Simulsat 5	5.0	0.44 dBi at 4.2
	Ant 4					0.44 dBi at 4.2
	Ant 5					0.44 dBi at 4.2
	Ant 6					0.44 dBi at 4.2
	Ant 7					0.44 dBi at 4.2
	Ant 8					0.44 dBi at 4.2
	Ant 9					0.44 dBi at 4.2
	Ant 10					0.44 dBi at 4.2
	Ant 11					0.44 dBi at 4.2
	Ant 12					0.44 dBi at 4.2
	Ant 13					0.44 dBi at 4.2
	Ant 14					0.44 dBi at 4.2
	Ant 15					0.44 dBi at 4.2

	Ant 16					0.44 dBi at 4.2
	Ant 17					0.44 dBi at 4.2
	Ant 18					0.44 dBi at 4.2
	Ant 19					0.44 dBi at 4.2
	Ant 20					0.44 dBi at 4.2
	Ant 21					0.44 dBi at 4.2
	Ant 22					0.44 dBi at 4.2
	Ant 23					0.44 dBi at 4.2
	Ant 24					0.44 dBi at 4.2
	Ant 25					0.44 dBi at 4.2
	Ant 26					0.44 dBi at 4.2
	Ant 27					0.44 dBi at 4.2
	Ant 28					0.44 dBi at 4.2
	Ant 29					0.44 dBi at 4.2
	Ant 30					0.44 dBi at 4.2

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 all carriers
 (dBW)
Ant 2	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 4	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 5	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9

Ant 6	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 7	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 8	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 9	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 10	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 11	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 12	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 13	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 14	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 15	0.0/0.0	3.6	243.8	3.6	41.6	3.6	0.0
Ant 16	0.0/0.0	3.6	243.8	3.6	41.6	3.6	0.0
Ant 17	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 18	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 19	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 20	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 21	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 22	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 23	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 24	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 25	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 26	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 27	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 28	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9

Ant 29	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9
Ant 30	0.0/0.0	3.6	243.8	3.6	41.6	3.6	9.9

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)
Ant 2	3720	4180	R	Horizontal and Vertical	36M0F8W	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.)

QPSK Modulation of video services

Ant 4	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 5	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 6	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 7	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 8	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 9	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 10	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 11	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 12	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 13	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 14	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)							
QPSK Modulation of video services							
Ant 15	3720	4180	R	Horizontal and Vertical	36M0F8W	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.)							
QPSK Modulation of video services							
Ant 16	3720	4180	R	Horizontal and Vertical	36M0F8W	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.)							
QPSK Modulation of video services							
Ant 17	3720	4180	R	Horizontal and Vertical	36M0F8W	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.)

QPSK Modulation of video services

Ant 18	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 19	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 20	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 21	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 22	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 23	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 24	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 25	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 26	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 27	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 28	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 29	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video services

Ant 30	3720	4180	R	Horizontal and Vertical	36M0F8W	0.0	0.0
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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.)

QPSK Modulation of video 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)
Ant 2	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 4	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0

Ant 5	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 6	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 7	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 8	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 9	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 10	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 11	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 12	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 13	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 14	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 15	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 16	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 17	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 18	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0

Ant 19	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 20	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 21	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 22	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 23	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 24	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 25	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 26	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 27	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 28	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 29	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0
Ant 30	Geostationary	3720 4180	60.0/ 143.0	154.0	41.6	254.4	9.9	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E65. Phone Number	
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.

43. Description. (Summarize the nature of the application and the services to be provided).

E060308 was granted a waiver in DA 20-1258 to permit incumbent earth station operators to add existing co-located antennas solely for the purpose of interference protection in the 4.0-4.2 GHz portion of the band. Applicant's Site 1, Ant 1 facility contains 15 horizontal and 15 vertical co-located antennas all in operation on November 7, 2018 that continue to be in operation