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File Number: SES-LIC-INTR2020-01098

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:

JROC VSAT Application

1-8. Legal Name of Applicant	
Name: L3HARRIS TECHNOLOGIES, INC.	Phone Number: 585-742-9122
DBA Name:	Fax Number:
Street: 1025 West Nasa Blvd.	E-Mail: Vance.Kannapel@L3Harris.com
City: Melbourne	State: FL
Country: USA	Zipcode: 32919 -
Attention: Vance Kannapel	

9-16. Name of Contact Representative	
Name: F. William LeBeau	Phone Number: 202-862-5965
Company: Holland & Knight LLP	Fax Number: 202-955-5564
Street: 800 17th Street, NW, Suite 110	E-Mail: bill.lebeau@hklaw.com
City: Washington	State: DC
Country: USA	Zipcode: 20006-
Attention: Bill LeBeau	Relationship: Legal Counsel

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 checked="" type="radio"/> b1. Application for License of New Station</p> <p><input type="radio"/> b2. Application for Registration of New Domestic Receive-Only Station</p> <p>(N/A) b3. Amendment to a Pending Application</p> <p>(N/A) b4. Modification of License or Registration</p> <p>(N/A) b5. Assignment of License or Registration</p> <p>(N/A) b6. Transfer of Control of License or Registration</p> <p>(N/A) b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p>(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p><input 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>
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17c. Is a fee submitted with this application?
<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).

- Governmental Entity Noncommercial educational licensee
 Other (please explain):

17d.

Fee Classification BGV - Fixed Satellite VSAT System

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. Choose 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 providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

- 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
 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

Yes No

Radiation Hazard

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.

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? 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 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. Yes No
See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

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
Response to 42a

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). Application for new Ku-Band VSAT blanket license

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 Vance Kannapel	46. Title of Person Signing System Engineer
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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:	JROC HUB	E5: Call Sign:	
E2: Contact Name	Vance Kannapel	E6: Phone Number:	585-742-9122
E3: Street:	1350 Jefferson Road	E7: City:	Henrietta
E4: State	NY	E8: County:	Monroe
E10: Area of Operation:	CONUS, AK, HI, ALL US TERRITORIES		
E11: Latitude:	43 ° 5 ' 22.6 " N		
E12: Longitude:	77 ° 35 ' 22.2 " W		

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

E14. Site Elevation (AMSL): 152.0 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 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:

Satellite Name: AMAZONAS 2 (S2793) | AMAZONAS 2 (S2793) | 61 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
JROC HUB	1 (Hub)	1	General Dynamic	SATCOM 4.8	4.8	53.5 dBi at 11.575
						55.2 dBi at 14.125

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)
1 (Hub)	4.8/4.8	6.4	158.4	0.0	6.47	0.0	63.3

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 (Hub)	10950 11200	R	Horizontal and Vertical	4M68G7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
1 (Hub)	11450 11700	R	Horizontal and Vertical	4M68G7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
1 (Hub)	11700 12200	R	Horizontal and Vertical	4M68G7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
1 (Hub)	13750 14000	T	Horizontal and Vertical	4M68G7D	60.9	34.8
E50. Modulation and Services QPSK, Digital Data						
1 (Hub)	14000 14500	T	Horizontal and Vertical	4M68G7D	59.6	34.7
E50. Modulation and Services QPSK, Digital Data						

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)
1 (Hub)	Geostationary	10950 11200	11.0/ 139.0	106.0	8.0	250.0	12.0	0.0
	Geostationary	11450 11700	11.0/ 139.0	106.0	8.0	250.0	12.0	0.0
	Geostationary	11700 12200	11.0/ 139.0	106.0	8.0	250.0	12.0	0.0
	Geostationary	13750 14000	11.0/ 139.0	106.0	8.0	250.0	12.0	-20.4
	Geostationary	14000 14500	11.0/ 139.0	106.0	8.0	250.0	12.0	-20.5

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL POINT LOCATION

E61. Call Sign				E65. 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			E67. County			E64/68. State/Country	E66. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)**

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		(meters)			(Watts)		
Rem-Shdw	0.4/0.4	0.4	0.0	0.0	53.0	0.0	41.7

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 EIRP Density per Carrier (dBW/4kHz)
Rem-Shdw	10950 11200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-Shdw	11450 11700	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-Shdw	11700 12200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-Shdw	13750 14000	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						
Rem-Shdw	14000 14500	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						

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)
Rem-Shdw	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-13.5
	Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-13.5

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL POINT LOCATION

E61. Call Sign				E65. 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				E67. County		E64/68. State/Country	E66. Zip Code

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:	Rem-P2 .60M	E5. Call Sign:	
E2: Contact Name	Vance Kannapel	E6. Phone Number:	585-742-9122
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:	CONUS, AK, HI, ALL US TERRITORIES		
E11. Latitude:	0 ° 0 ' 0.0 " N	E9. Zip Code	
E12. Longitude:	0 ° 0 ' 0.0 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> 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 a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country (ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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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.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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POINTS OF COMMUNICATION

Satellite Name: 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at _____GHz)

Rem-P2 .60M	Rem-P2 .60	15	L3Harris	GCS Panther II .60M	0.6	35.3 dBi at 11.575	
						37.3 dBi at 14.125	
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)
Rem-P2 .60	0.6/0.6	0.6	0.0	0.0	18.62	0.0	41.7

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 EIRP Density per Carrier (dBW/4kHz)
Rem-P2 .60	10950 11200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-P2 .60	11450 11700	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-P2 .60	11700 12200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-P2 .60	13750 14000	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						
Rem-P2 .60	14000 14500	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						

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)
Rem-P2 .60	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-18.0
	Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-18.0

REMOTE CONTROL POINT LOCATION

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

**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:	Rem-P2 .96M	E5. Call Sign:	
E2. Contact Name	Vance Kannapel	E6. Phone Number:	585-742-9122
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:	CONUS, AK, HI, ALL US TERRITORIES		
E11. Latitude:	0 ° 0 ' 0.0 " N	E9. Zip Code	
E12. Longitude:	0 ° 0 ' 0.0 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> 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 a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country (ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> 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.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Rem-P2 .96M	Rem-P2 .96	15	L3Harris	GCS Panther II .96M	0.96	39.3 dBi at 11.575
						41.3 dBi at 14.125

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)
Rem-P2 .96	0.96/0.96	0.96	0.0	0.0	7.41	0.0	41.7

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)
Rem-P2 .96	10950 11200	R	Horizontal	625KG7D	0.0	0.0

E50. Modulation and Services QPSK, Digital Data

Rem-P2 .96	11450 11700	R	Horizontal	625KG7D	0.0	0.0
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E50. Modulation and Services QPSK, Digital Data

Rem-P2 .96	11700 12200	R	Horizontal	625KG7D	0.0	0.0
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E50. Modulation and Services QPSK, Digital Data

Rem-P2 .96	13750 14000	T	Horizontal	625KG7D	42.0	19.3
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E50. Modulation and Services QPSK, Digital Data

Rem-P2 .96	14000 14500	T	Horizontal	625KG7D	42.0	19.3
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E50. Modulation and Services QPSK, Digital Data

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)
Rem-P2 .96	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0

Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-22.0
Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-22.0

REMOTE CONTROL POINT LOCATION

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
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E62. Street Address

E63. City	E67. County	E64/68. State/Country /	E66. Zip Code
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**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: Rem-P2 1.3M	E5. Call Sign:
E2: Contact Name Vance Kannapel	E6. Phone Number: 585-742-9122
E3. Street:	E7. City:
E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 " N	CONUS, AK, HI, ALL US TERRITORIES
E12. Longitude: 0 ° 0 ' 0.0 " W	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input checked="" type="radio"/> NAD-83 <input type="radio"/> 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 a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country (ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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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	
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E28. Antenna Id	E51. Satellite Orbit Type	Frequency Limits (MHz)	Range of Satellite Arc E/W Limit	Azimuth Angle Eastern Limit	Elevation Angle Eastern Limit	Azimuth Angle Western Limit	Elevation Angle Western Limit	EIRP Density toward the Horizon (dBW/4kHz)
Rem-P2 1.3	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-24.5
	Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-24.5

REMOTE CONTROL POINT LOCATION

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

**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:	Rem-H3 1.2M	E5: Call Sign:	
E2: Contact Name	Vance Kannapel	E6: Phone Number:	585-742-9122
E3: Street:		E7: City:	
E4: State		E8: County:	
E10: Area of Operation:	CONUS, AK, HI, ALL US TERRITORIES		
E11: Latitude:	0 ° 0 ' 0.0 " N		
E12: Longitude:	0 ° 0 ' 0.0 " W		
E13: Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> 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 a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country (ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> 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.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Rem-H3 1.2M	Rem-H3 1.2	15	L3Harris	GCS Hawkeye III 1.2M	1.2	41.6 dBi at 11.575 43.2 dBi at 14.125

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)
Rem-H3 1.2	1.2/1.2	1.2	0.0	0.0	4.79	0.0	41.7

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)
Rem-H3 1.2	10950 11200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 1.2	11450 11700	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 1.2	11700 12200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 1.2	13750 14000	T	Horizontal	625KG7D	42.0	19.3

E50. Modulation and Services QPSK, Digital Data

Rem-H3 1.2	14000 14500	T	Horizontal	625KG7D	42.0	19.3
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E50. Modulation and Services QPSK, Digital Data

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)
Rem-H3 1.2	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-23.9
	Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-23.9

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E65. Phone Number		
<p><i>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</i></p>					
E62. Street Address					
E63. City		E67. County		E64/68. State/Country	E66. Zip Code

**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: Rem-H3 1.6M	E5. Call Sign:
E2: Contact Name Vance Kannapel	E6. Phone Number: 585-742-9122
E3. Street:	E7. City:
E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 " N	CONUS, AK, HI, ALL US TERRITORIES
E12. Longitude: 0 ° 0 ' 0.0 " W	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input checked="" type="radio"/> NAD-83 <input type="radio"/> 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 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: 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	E41/42. Antenna Gain Transmitt and/or Recieve(____ dBi at _____ GHz)
Rem-H3 1.6M	Rem-H3 1.6	15	L3Harris	GCS Hawkeye III 1.6M	1.6	43.3 dBi at 11.575
						45.3 dBi at 14.125

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)
Rem-H3 1.6	1.6/1.6	1.6	0.0	0.0	2.95	0.0	41.7

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 EIRP Density per Carrier (dBW/4kHz)
Rem-H3 1.6	10950 11200	R	Horizontal	625KG7D	0.0	0.0

E50. Modulation and Services QPSK, Digital Data

Rem-H3 1.6	11450 11700	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 1.6	11700 12200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 1.6	13750 14000	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 1.6	14000 14500	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						

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)
Rem-H3 1.6	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-26.0
	Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-26.0

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL POINT LOCATION

E61. Call Sign				E65. Phone Number			
<i>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</i>							
E62. Street Address							
E63. City			E67. County			E64/68. State/Country	E66. Zip Code

**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: Rem-H3 2.0M

E5. Call Sign:

E2. Contact Name	Vance Kannapel	E6. Phone Number:	585-742-9122
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, AK, HI, ALL US TERRITORIES
E11. Latitude:	0 ° 0 ' 0.0 " N		
E12. Longitude:	0 ° 0 ' 0.0 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> 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 a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

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

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

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

Satellite Name: If you selected OTHER, please enter the following:
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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	E41/42. Antenna Gain Transmitt and/or Recieve(____dBi at ____GHz)
Rem-H3 2.0M	Rem-H3 2.0	15	L3Harris	GCS Hawkeye III 2.0M	2.0	45.7 dBi at 11.575
						47.3 dBi at 14.125

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)
Rem-H3	2.0/2.0	2.0	0.0	0.0	1.86	0.0	41.7

2.0						
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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 EIRP Density per Carrier (dBW/4kHz)
Rem-H3 2.0	10950 11200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.0	11450 11700	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.0	11700 12200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.0	13750 14000	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.0	14000 14500	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						

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)
Rem-H3 2.0	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-28.0
	Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-28.0

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E65. 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		E67. County		E64/68. State/Country	E66. Zip Code
				/	

**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:	Rem-H3 2.4M	E5. Call Sign:	
E2: Contact Name	Vance Kannapel	E6. Phone Number:	585-742-9122
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	
E11. Latitude:	0 ° 0 ' 0.0 " N	CONUS, AK, HI, ALL US TERRITORIES	
E12. Longitude:	0 ° 0 ' 0.0 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> 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 a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

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

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

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

POINTS OF COMMUNICATION

Satellite Name: 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	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)
Rem-H3	Rem-H3	15	L3Harris	GCS Hawkeye III	2.4	47.3 dBi at 11.575

2.4M	2.4			2.4M			
							48.8 dBi at 14.125
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)
Rem-H3 2.4	2.4/2.4	2.4	0.0	0.0	1.32	0.0	41.7

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)
Rem-H3 2.4	10950 11200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.4	11450 11700	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.4	11700 12200	R	Horizontal	625KG7D	0.0	0.0
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.4	13750 14000	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						
Rem-H3 2.4	14000 14500	T	Horizontal	625KG7D	42.0	19.3
E50. Modulation and Services QPSK, Digital Data						

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)
Rem-H3 2.4	Geostationary	10950 11200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	13750 14000	0.0/ 0.0	0.0	5.0	0.0	5.0	-29.5
	Geostationary	14000 14500	0.0/ 0.0	0.0	5.0	0.0	5.0	-29.5

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number
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NOTE: Please enter the callsign of the controlling station, not the 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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Attachment to Item 42A
Use of Non-U.S.-Licensed Satellites

As noted in this application, the proposed authorization will be used to communicate with the AMAZONAS 2 (S2793) satellite which is licensed by Brazil and appears on the Commission's Permitted List. The authorization may also be used to communicate with non-U.S. space stations that are on the Commission's Permitted List. Pursuant to the DISCO II First Reconsideration Order, FCC 99-325 (released October 29, 1999), a U.S.-licensed earth station with an ALSAT license is permitted to access any space station on the Permitted List, provided that the space station complies with the Commission's technical requirements, and operates under the conditions on its license and set forth in the Orders cited at <https://www.fcc.gov/permitted-space-station-list>. The authorization does not intend to be used to communicate with any non-U.S. space station that is not on the Permitted List.

Radiation Hazard Report Page 1 of 4**Analysis of Non-Ionizing Radiation for a 4.8-Meter Earth Station System**

This report analyzes the non-ionizing radiation levels for a 4.8-meter earth station system. The analysis and calculations performed in this report comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01. The radiation safety limits used in the analysis are in conformance with the FCC R&O 96-326. Bulletin No. 65 and the FCC R&O specifies that there are two separate tiers of exposure limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. The Maximum Permissible Exposure (MPE) limits for persons in a General Population/Uncontrolled environment are shown in Table 1. The General Population/Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less. The MPE limits for persons in an Occupational/Controlled environment are shown in Table 2. The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less. The purpose of the analysis described in this report is to determine the power flux density levels of the earth station in the far-field, near-field, transition region, between the sub-reflector or feed and main reflector surface, at the main reflector surface, and between the antenna edge and the ground and to compare these levels to the specified MPEs.

Table 1. Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm ²)
30-300	0.2
300-1500	Frequency (MHz)*(0.8/1200)
1500-100,000	1.0

Table 2. Limits for Occupational/Controlled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm ²)
30-300	1.0
300-1500	Frequency (MHz)*(4.0/1200)
1500-100,000	5.0

Table 3. Formulas and Parameters Used for Determining Power Flux Densities

Parameter	Symbol	Formula	Value	Units
Antenna Diameter	D	Input	4.8 m	m
Antenna Surface Area	A _{surface}	$(\pi/4) \cdot D^2$	18.10	m ²
Sub-reflector Diameter	D _{sr}	Input	36.6	cm
Area of Sub reflector	A _{sr}	$(\pi/4) \cdot D_{sr}^2$	1049.67	cm ²
Frequency	F	Input	14125	MHz
Wavelength	λ	300/F	2.122	cm
Transmit Power	P	Input	100.00	W
Antenna Gain (dBi)	G _{es}	Input	55	dBi
Antenna Gain (factor)	G	$10^{G_{es}/10}$	316227.7	n/a
Pi	π	Constant	3.1415927	n/a
Antenna Efficiency	η	$G \cdot (\lambda / (\pi \cdot D))^2$	0.627	n/a

1. Far Field Distance Calculation

The distance to the beginning of the far field can be determined from the following equation:

$$\begin{aligned} \text{Distance to the Far Field Region } R_{ff} &= 0.60 D^2/\lambda \\ &= 650.9 \text{ m} \end{aligned} \quad (1)$$

The maximum main beam power density in the far field can be determined from the following equation:

$$\begin{aligned} \text{On-Axis Power Density in the Far Field } S_{ff} &= G P / (4 \pi R_{ff}^2) \\ &= 5.93965 \text{ W/m}^2 \\ &= 0.5939 \text{ mW/cm}^2 \end{aligned} \quad (2)$$

2. Near Field Calculation

Power flux density is considered to be at a maximum value throughout the entire length of the defined Near Field region. The region is contained within a cylindrical volume having the same diameter as the antenna. Past the boundary of the Near Field region, the power density from the antenna decreases linearly with respect to increasing distance.

The distance to the end of the Near Field can be determined from the following equation:

$$\begin{aligned} \text{Extent of the Near Field } R_{nf} &= D^2 / (4 \lambda) \\ &= 271.2 \text{ m} \end{aligned} \quad (3)$$

The maximum power density in the Near Field can be determined from the following equation:

$$\begin{aligned} \text{Near Field Power Density } S_{nf} &= 16.0 \eta P / (\pi D^2) \\ &= 13.847 \text{ W/m}^2 \\ &= 1.3847 \text{ mW/cm}^2 \end{aligned} \quad (4)$$

3. Transition Region Calculation

The Transition region is located between the Near and Far Field regions. The power density begins to decrease linearly with increasing distance in the Transition region. While the power density decreases inversely with distance in the Transition region, the power density decreases inversely with the square of the distance in the Far Field region. The maximum power density in the Transition region will not exceed that calculated for the Near Field region. The power density calculated in Section 1 is the highest power density the antenna can produce in any of the regions away from the antenna. The power density at a distance R_t can be determined from the following equation:

$$\begin{aligned} \text{Transition Region Power Density } S_t &= S_{nf} R_{nf} / R_t \\ &= 1.481 \text{ mW/cm}^2 \end{aligned} \quad (5)$$

Radiation Hazard Report Page 3 of 4

4. Region between the Main Reflector and the Sub-reflector

Transmissions from the feed assembly are directed toward the sub-reflector surface and are reflected back toward the main reflector. The most common feed assemblies are waveguide flanges, horns or sub-reflectors. The energy between the sub-reflector and the reflector surfaces can be calculated by determining the power density at the sub-reflector surface. This can be determined from the following equation:

$$\begin{aligned} \text{Power Density at the Sub-reflector } S_{sr} &= 4 \cdot P / A_{sr} & (6) \\ &= 0.381072 \text{ W/cm}^2 \\ &= 381.07 \text{ mW/cm}^2 \end{aligned}$$

5. Main Reflector Region

The power density in the main reflector is determined in the same manner as the power density at the sub-reflector. The area is now the area of the main reflector aperture and can be determined from the following equation:

$$\begin{aligned} \text{Power Density at the Main Reflector Surface } S_{\text{surface}} &= 4 P / A_{\text{surface}} & (7) \\ &= 22.099 \text{ W/m}^2 \\ &= 2.209 \text{ mW/cm}^2 \end{aligned}$$

6. Off-axis Levels at the Far Field Limit and Beyond

In the far field region, the power is distributed in a pattern of maxima and minima (sidelobes) as a function of the off-axis angle between the antenna on-axis center line and the point of interest. The on-axis main-beam will be the location of the greatest of these maxima. The on-axis power density calculated above represent the maximum exposure levels that the system can produce. Off-axis power densities will be considerably less and hence comply with FCC limits.

7. Off-axis Levels at the Near Field Limit and in the Transition Region

According to Bulletin 65, off-axis calculations in the near field may be performed as follows: assuming that the point of interest is at least one antenna diameter removed from the center of the main beam, the power density at that point is at least a factor of 100 (20dB) less than the value calculated for the equivalent on-axis power density in the main beam. Therefore, for regions at least D meters away from the center line of the dish, whether behind, below, or in front under of the antenna's main beam, the power density exposure is at least 20 dB below the main beam level as follows:

$$\begin{aligned} \text{Power Density off-axis behind, below or in front under the antenna's main beam } S_g &= \\ &= \underline{S_{nf}/100 = 0.014 \text{ mW/cm}^2} \end{aligned}$$

Radiation Hazard Report Page 4 of 4

7. Summary of Calculations

Table 4. Summary of Expected Radiation levels for Uncontrolled Environment

Region		Calculated Max. Radiation Power Density Level (mW/cm ²)		Hazard Assessment (≤ 1mW/cm ²)
	Far Field (R _{ff} = 650.9 m)	S _{ff}	0.593	Satisfies FCC MPE
	Near Field (R _{nf} = 271.2 m)	S _{nf}	1.385	Potential Hazard
	Transition Region (R _{nf} < R _t < R _{ff})	S _t	1.385	Potential Hazard
	Between Main Reflector and Sub-reflector	S _{sr}	381.072	Potential Hazard
	Main Reflector	S _{surface}	2.209	Potential Hazard
	Between Main Reflector and Ground	S _g	0.014	Satisfies FCC MPE

Table 5. Summary of Expected Radiation levels for Controlled Environment

Region		Calculated Max. Radiation Power Density Level (mW/cm ²)		Hazard Assessment (≤ 5mW/cm ²)
	Far Field (R _{ff} = 650.9 m)	S _{ff}	0.593	Satisfies FCC MPE
	Near Field (R _{nf} = 271.2 m)	S _{nf}	1.385	Satisfies FCC MPE
	Transition Region (R _{nf} < R _t < R _{ff})	S _t	1.385	Satisfies FCC MPE
	Between Main Reflector and Sub-reflector	S _{sr}	381.072	Potential Hazard
	Main Reflector	S _{surface}	2.209	Satisfies FCC MPE
	Between Main Reflector and Ground	S _g	0.014	Satisfies FCC MPE

It is the applicant's responsibility to ensure that the public and operational personnel are not exposed to harmful levels of radiation.

8. Evaluation of Safe Occupancy Area in Front of Antenna

As covered in the section above “Off-axis levels at the Near Field and in the Transition Region”, the off-axis levels are well below the FCC limit for a controlled environment. However, in an abundance of caution, a fence will be used to prevent employee and the general public access to the area surrounding the antenna. In addition, the area between the feed horn and the reflector will not be accessible by maintenance personnel without the proper training and the transmitter being turned off.

9. Conclusions

Based on the above analysis it is concluded that harmful levels of radiation will not exist in regions normally occupied by the public or the earth station's operating personnel. The transmitter will be turned off during antenna maintenance so that the FCC MPE of 5.0 mW/cm² will be complied with for those regions with close proximity to the reflector that exceed acceptable levels.



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Billing Address 2:

City: WASHINGTON

State/Province: DC

ZIP/Postal Code: 20006-3906

Country: USA

Account Information

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(26B) Fee Due for (PTC)	(27B) Total Fee	FCC Use Only
(28B) FCC CODE 1	(29B) FCC CODE 2	