Date & Time Filed: Sep 30 2010 4:31:51:240PM File Number: SES-LIC-INTR2010-03070

Callsign/Satellite ID:

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

#### APPLICANT INFORMATION

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

**CSAT Network License Application** 

1–8. Legal Name of Applicant
------------------------------

Name: Telesat Phone Number: 6137488700

**DBA Fax Number:** 6137488712

Name:

Street: 1601 Telesat Court E–Mail: rthommes@telesat.com

City: Gloucester State:

Country: Canada Zipcode: –

**Attention:** Mr Richard W Thommes

9–16. Name of Contact Representative

Name: Telesat Phone Number: 6137488700

**Company: Fax Number:** 6137488712

Street: 1601 Telesat Court E–Mail: rthommes@telesat.com

City: Gloucester State:

Country: Canada Zipcode: –

Attention: Relationship:

#### **CLASSIFICATION OF FILING**

17. Choose the button next to the	b.			
classification that applies to this filing for	lies to this filing for b1. Application for License of New Station			
both questions a. and b. Choose only one	b2. Application for Registration of New Domestic Receive–Only Station			
for 17a and only one for 17b.	(N/A) b3. Amendment to a Pending Application			
	(N/A) b4. Modification of License or Registration			
a.  a1. Earth Station	(N/A) b5. Assignment of License or Registration			
<del>-</del>	(N/A) b6. Transfer of Control of License or Registration			
(N/A) a2. Space Station	(N/A) b7. Notification of Minor Modification			
	(N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite			
	(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United			
	States			
	<b>b</b> 10. Other (Please specify)			
	→ b11. Application for Earth Station to Access a Non–U.S. satellite Not Currently Authorized to			
	Provide the Proposed Service in the Proposed Frequencies in the United States.			
	o b12. Application for Database Entry			
	(N/A) b13. Amendment to a Pending Database Entry Application			
	(N/A) b14. Modifiction of Database Entry			
17c. Is a fee submitted with this applicati	on?			
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 Noncomme	orcial educational licensee			
Other(please explain):				
17d.				
Fee Classification BDS – Fixed Satellite S	mall Transmit/Receive Earth			
Station Lead Application				

18. If this filing is in reference to an existing station, enter:  (a) Call sign of station:  Not Applicable  19. If this filing is an amendment to a pending application enter:  (a) Date pending application was filed:  (b) File number of pending application:  Not Applicable  Not Applicable
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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	d. Earth Exploration Satellite				
e. Direct to Home Fixed Satellite					
f. Digital Audio Radio Service					
g. Other (please specify)					
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.				
only one.	Using U.S. licensed satellites				
O Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites				
23. If applicant is providing INTERNATIONAL COMMON CARRIER sefacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these				
O Connected to a Public Switched Network Not connected to	o a Public Switched Network				

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: Frequency Upper:
TYPE OF STATION
25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non-Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit-Only Receive-Only N/A
PURPOSE OF MODIFICATION
27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
Not Applicable

#### **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 Exhibit B
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical fixed radio station services are not required to respond to Items 30–34.	utical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No
30. Is the applicant an alien or the representative of an alien?	Yes No N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O 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?	O Yes ● N	To O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	<b>○</b> Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	<b>○</b> Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	<b>⊚</b> No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	<b>⊚</b> No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	<b>⊘</b> No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	• Yes	<b>⊚</b> No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, coordinated or is in the process of coordinating the space station?	what administi	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the not appear in this box, please go to the end of the form to view it in its entirety.)	complete desc	ription does
Telesat seeks to license a CSAT network of earth station sites in Alaska. To provide digital services.	he network	s will
Exhibit E		

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.	<b>●</b> A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	<b>o</b> c

#### **CERTIFICATION**

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

Individual			
<ul> <li>Unincorporated Association</li> </ul>			
Partnership			
Corporation			
Governmental Entity			
Other (please specify)			
45. Name of Person Signing Richard W. Thommes		46. Title of Person Signing Communications Systems Engi	neer
47. Please supply any need attachn	nents.		
47. Please supply any need attachn Attachment 1:	Attachment 2:	Attach	ment 3:

Location of Earth Station Site

E1: Site Identifier: Anchorage E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: 5376 Lambert E7. City:

Avenue

City: Anchorage-

Elmendorf

E8. County: Greater Anchorage

Boro

E4. State AK E9. Zip Code 99506

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 61 ° 14 '7.3 "N

E12. Longitude: 149 °49 '24.3 "W

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

E14. Site Elevation (AMSL): 44.5 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<b>O</b> Yes	O No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	• Yes	٥	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit D	O 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.	O Yes	•	No
POINTS OF COMMUNICATION			
Satellite Name: ANIK F3   CANSAT-18   118.7 W.L. If you selected OTHER, please enter the following:			

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

Satellite Name: ANIK–F2   ANIK–F2   111.1 W.L. If you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:	
E23. Orbit Location:	E24. Country:	

E25. Site Identifier:	
E26. Common Name:	E27. Country:

## ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Anchorage	Hub 1	1	Andrew	ES 7.3	7.3	48.3 dBi at 3.950
						51.7 dBi at 6.175
	Hub 2		ASC Signal	4.6M	4.6	44.0 dBi at 3.950
						47.5 dBi at 6.175

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level  (meters)	(meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Hub 1	0.0/0.0	8.1	52.6	0.0	100.0	0.0	71.7
Hub 2	0.0/0.0	5.5	50.0	0.0	28.2	0.0	62.0

## FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Hub 1	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Digital Data

	i	i	i			
Hub 1	5987.0	T	Linear and Circular	853KG7D	55 ()	31.7
	6007.0					

E50. Modulation entirety.)	and Services (I	f the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its
Digital Da	ta					
Hub 2	3762.0 3882.0	R	Linear and Circular	853KG7D	0.0	0.0
E50. Modulation entirety.)  Digital Da			escription does not appear in			
Hub 2	5990.8 6007.0	Т	Linear and Circular	853KG7D	62.0	38.7
E50. Modulation entirety.)  Digital Da		f the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its

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)
Hub 1	Geostationary	3762.0 3782.0	111.0/ 120.0	137.5	13.6	146.8	16.3	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	137.5	13.6	146.8	16.3	-16.2
Hub 2	Geostationary	3762.0 3782.0	111.0/ 120.0	137.5	13.6	146.8	16.3	0.0
	Geostationary	5990.8 6007.0	111.0/ 120.0	137.5	13.6	146.8	16.3	-5.0

## 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

Location of Earth Station Site

E1: Site Identifier: Remote 1 E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: PO Box 941 E7. City: Barrow

E8. County: North Slope

Borough

E4. State AK E9. Zip Code 99723

E10. Area of Operation: Conus, Alaska, and Hawaii

E11. Latitude: 71 ° 19 '36.5 "N

E12. Longitude: 156 °38 '6.1 "W

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

E14. Site Elevation (AMSL): 2.74 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>⊗</b> Yo	es	O No	)	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Ye	es	O No	)	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0,	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 Exhibit G	0,	Yes	•	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.		Yes	•	•	No
POINTS OF COMMUNICATION					
Satellite Name: ANIK–F2   ANIK–F2   111.1 W.L. If you selected OTHER, please enter the following:					

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

Satellite Name: ANIK F3   CANSAT-18   118.7 W.L.	you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:	
E23. Orbit Location:	E24. Country:	

E25. Site Identifier:	
E26. Common Name:	E27. Country:

## ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote 1	Barrow	1	Andrew Corp.	4.5M	4.5	43.8 dBi at 3.950
						46.6 dBi at 6.175

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Barrow	0.0/0.0	6.0	8.7	0.0	25.0	0.0	60.6

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)			
Barrow	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0			
E50. Modulation entirety.)	E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)								
Digital Da	ta								
Barrow	5987.0 6007.0	Т	Linear and Circular	853KG7D	55.0	31.7			
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its			
Digital Da	ta								

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	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Barrow	Geostationary	3762.0 3782.0	111.0/ 120.0	132.8	4.3	141.9	6.2	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	132.8	4.3	141.9	6.2	0.4

#### REMOTE CONTROL POINT LOCATION

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

Location of Earth Station Site

E1: Site Identifier: Remote 2 E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: PO Box 108 E7. City: Kaktovik –Barter

Is.

E8. County: North Slope

Borough

E4. State AK E9. Zip Code 99747

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 70 °7 '47.7 "N

E12. Longitude: 143 °38 '18.8 "W

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

E14. Site Elevation (AMSL): 11.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	S O No	0 1	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	s O No	Ο ,	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Ye	es (	<b>9</b>	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<b>●</b> Ye	es (	<b>)</b>	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit J	O Ye	es (	<b>9</b> ]	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Ye	es (	<b>③</b> ¹	No
POINTS OF COMMUNICATION	-			
Satellite Name: ANIK–F2   ANIK–F2   111.1 W.L. If you selected OTHER, please enter the following:				

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

Satellite Name: ANIK F3   CANSAT-18   118.7 W.L. If	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

E25. Site Identifier:	
E26. Common Name:	E27. Country:

## ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote 2	Barter Is	1	Andrew Corp.	4.5M	4.5	43.8 dBi at 3.950
						46.6 dBi at 6.175

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Barter Is	0.0/0.0	6.0	17.0	0.0	25.0	0.0	60.6

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)
Barter Is	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
Barter Is	5987.0 6007.0	Т	Linear and Circular	853KG7D	55.0	31.7
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Barter Is	Geostationary	3762.0 3782.0	111.0/ 120.0	145.7	8.0	155.0	9.6	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	145.7	8.0	155.0	9.6	-5.5

#### REMOTE CONTROL POINT LOCATION

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

Location of Earth Station Site

E1: Site Identifier: Remote 3 E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: PO Box 432 E7. City: Kotzebue – Cape

Lisbu

E8. County: NW Arctic

Borough

E4. State AK E9. Zip Code 99752

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 68 °52 '17.4 "N

E12. Longitude: 166 °5 '32.4 "W

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

E14. Site Elevation (AMSL): 18.6 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	• Yes	o No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	○ Yes	o No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Ye	es <b>@</b>	) No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	● Ye	es C	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit L	O Ye	es <b>©</b>	) No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Ye	es <b>@</b>	No No
POINTS OF COMMUNICATION	-		
Satellite Name: ANIK–F2   ANIK–F2   111.1 W.L. If you selected OTHER, please enter the following:			

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

Satellite Name: ANIK F3   CANSAT-18   118.7 W.L.	you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:	
E23. Orbit Location:	E24. Country:	

E25. Site Identifier:	
E26. Common Name:	E27. Country:

## ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote 3	Cape Lisbu	1	General Dynamics	4.8M	4.8	44.1 dBi at 3.950
						48.1 dBi at 6.175

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Cape Lisbu	0.0/0.0	6.0	24.6	0.0	25.0	0.0	62.1

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)
Cape Lisbu	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital Da	ıta					
Cape Lisbu	5987.0 6007.0	Т	Linear and Circular	853KG7D	55.0	31.7
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital Da	ıta					

E28. Antenna Id	E51. Satellite Orbit Type		E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Cape Lisbu	Geostationary	3762.0 3782.0	111.0/ 120.0	123.1	3.2	131.9	5.8	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	123.1	3.2	131.9	5.8	6.7

### REMOTE CONTROL POINT LOCATION

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

Location of Earth Station Site

E1: Site Identifier: Remote 4 E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: PO Box 2218 E7. City: Bethel – Cape

Romanz

E8. County: Bethel Borough

E4. State AK E9. Zip Code 99559

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 61 °47 '2.4 "N

E12. Longitude: 166 °0 '13.7 "W

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

E14. Site Elevation (AMSL): 242.3 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<b>O</b> Yes	O No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	• Yes	٥	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit O	O 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.	O Yes	•	No
POINTS OF COMMUNICATION	1		
Satellite Name: ANIK F3   CANSAT-18   118.7 W.L. If you selected OTHER, please enter the following:			

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

Satellite Name: ANIK-F2   ANIK-F2   111.1 W.L. If	If you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		

E25. Site Identifier:	
E26. Common Name:	E27. Country:

## ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote 4	Cape Roman	1	General Dynamics	4.8M	4.8	44.1 dBi at 3.950
						48.1 dBi at 6.175

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Cape Roman	0.0/0.0	6.0	248.3	0.0	25.0	0.0	62.1

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)	
Cape Roman	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0	
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
Digital Da	ta						
Cape Roman	5987.0 6007.0	Т	Linear and Circular	853KG7D	55.0	31.7	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
Digital Da	ta						

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	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)
Cape Roman	Geostationary	3762.0 3782.0	111.0/ 120.0	121.7	7.1	130.4	10.6	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	121.7	7.1	130.4	10.6	8.0

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: Remote 5 E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: PO Box 147 E7. City: Cold Bay

E8. County: Aleutians East

Borough

E4. State AK E9. Zip Code 99571

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 55 °14 '41.7 "N

E12. Longitude: 162 °46 '13.7 "W

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

E14. Site Elevation (AMSL): 29.3 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<b>O</b> Yes	O No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
T10 X 6 11 11 12 12 12 12 12 12 12 12 12 12 12			
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	• Yes	0	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit Q	O 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.	O Yes	•	No
POINTS OF COMMUNICATION	-		
Satellite Name: ANIK-F2   ANIK-F2   111.1 W.L. If you selected OTHER, please enter the following:			

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

Satellite Name: ANIK F3   CANSAT-18   118.7 W.L.	If you selecte	d 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		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote 5	Cold Bay	1	General Dynamics	4.8M	4.8	44.1 dBi at 3.950
						48.1 dBi at 6.175

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Cold Bay	0.0/0.0	6.0	35.3	0.0	30.0	0.0	62.9

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)
Cold Bay	3762.0 3782.0	R	Linear and Circular	1M92G7D	0.0	0.0
E50. Modulation entirety.)	,	he complete descript	tion does not appear in	this box, please go	to the end of the form	to view it in its
Digital Da	ata					
Cold Bay	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0
E50. Modulation entirety.)	n and Services (If the	he complete descrip	tion does not appear in	this box, please go	to the end of the form	to view it in its
Digital Da	ata					
Cold Bay	5987.0 6007.0	Т	Linear and Circular	1M92G7W	60.0	33.1

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Digital Data

Cold Bay | 5987.0 | T | Linear and Circular | 853KG7D | 60.0 | 36.7 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Digital Data

### FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	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)
Cold Bay	Geostationary	3762.0 3782.0	111.0/ 120.0	122.9	12.2	131.6	16.4	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	122.9	12.2	131.6	16.4	-6.7

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: Remote 6 E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: Pouch 34–0099 E7. City: Prudhoe Bay –

Oliktok

E8. County: North Slope

Borough

E4. State AK E9. Zip Code 99734

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 70 °29 '52.4 "N

E12. Longitude: 149 °53 '24.4 "W

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

E14. Site Elevation (AMSL): 1.5 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<b>O</b> Yes	O No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
	ı		
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	• Yes	0	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit S	• 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.	O Yes	•	No
POINTS OF COMMUNICATION			
Satellite Name: ANIK-F2   ANIK-F2   111.1 W.L. If you selected OTHER, please enter the following:			

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

Satellite Name: ANIK F3   CANSAT-18   118.7 W.L.	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		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote 6	Oliktok	1	General Dynamics	4.8M	4.8	44.1 dBi at 3.950
						48.1 dBi at 6.175

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Oliktok	0.0/0.0	6.0	7.5	0.0	25.0	0.0	62.1

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)
Oliktok	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital Da	ta					
Oliktok	5987.0 6007.0	Т	Linear and Circular	853KG7D	55.0	31.7
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital Da	ta					

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	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Oliktok	Geostationary	3762.0 3782.0	111.0/ 120.0	139.4	6.4	148.6	8.2	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	139.4	6.4	148.6	8.2	-4.6

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

#### 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: Remote 7 E5. Call Sign:

E2: Contact Name Mark Callahan E6. Phone 907–552–1261

Number:

E3. Street: PO Box TNC E7. City: Nome (Tin City)

E8. County: Nome Borough

E4. State AK E9. Zip Code 99762

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 65 ° 34 '1.1 "N

E12. Longitude: 167 °58 '29.7 "W

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

E14. Site Elevation (AMSL): 111.6 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<b>O</b> Yes	O No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
	ı		
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	• Yes	0	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit U	O 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.	O Yes	•	No
POINTS OF COMMUNICATION			
Satellite Name: ANIK-F2   ANIK-F2   111.1 W.L. If you selected OTHER, please enter the following:			

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

Satellite Name: ANIK F3   CANSAT-18   118.7 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		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote 7	Tin City	1	General Dynamics	4.8M	4.8	44.1 dBi at 3.950
						48.1 dBi at 6.175

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
Tin City	0.0/0.0	6.0	117.6	0.0	25.0	0.0	62.1

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)
Tin City	3762.0 3782.0	R	Linear and Circular	853KG7D	0.0	0.0
E50. Modulation entirety.)		ne complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital Da	ata					
Tin City	5987.0 6007.0	Т	Linear and Circular	853KG7D	55.0	31.7
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital Da	ata					

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	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Tin City	Geostationary	3762.0 3782.0	111.0/ 120.0	120.6	4.4	129.4	7.5	0.0
	Geostationary	5987.0 6007.0	111.0/ 120.0	120.6	4.4	129.4	7.5	-0.5

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

#### FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25-24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.