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

APPLICANT INFORMATION

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

F2KA Transportable

1–8. Legal Name of Applicant						
	Name:	Telesat Canada	Phone Number:	6137488700		
	DBA Name:		Fax Number:	6137488712		
	Street:	1601 Telesat Court	E-Mail:	a.kulig@telesat.ca		
		Gloucester				
	City:		State:			
	Country:	Canada	Zipcode:	_		
	Attention:	Mrs Angela M Kulig				

9–16. Name of Contact Representative (If other than applicant)

Name: Angela Kulig Phone Number: 613–748–8700

Company: Telesat Canada **Fax Number:** 613–748–8712

Street: 1601 Telesat Court E–Mail: a.kulig@telesat.ca

City: Gloucester State:

Country: Canada Zipcode: K1B –5P4

Contact Coordination Engineering **Relationship:** Same

Title: Associate

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

a1. Earth Station

(N/A) a2. Space Station

b.

b1. Application for License of New Station

b2. Application for Registration of New Domestic Receive–Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

(N/A) b5. Assignment of License or Registration

(N/A) b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

o b10. Other (Please specify)

• b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.

17c. Is a fee submitted with this applicate If Yes, complete and attach FCC Form Governmental Entity Noncommental Entity Other(please explain):	159. If No, indicate reason for fee exemption ((see 47 C.F.R.Section 1.1114).
Fee Classification BAX – Fixed Satellite T Station	Transmit/Receive Earth	
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 (a) Date pending application was filed: Not Applicable	application enter: (b) File number of pending application: Not Applicable
TYPE OF SERVICE 20. NATURE OF SERVICE: This filing is for	or an authorization to provide or use the following	ng type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite e. Direct to Home Fixed Satellite f. Digital Audio Radio Service g. Other (please specify)		

21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	■ Using Non–U.S. licensed satellites
facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected	to a Public Switched Network N/A
24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all a	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: 18300 Frequency Upper: 30000	
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	
oc. 12/14 GHz VSAT Network	
d. Mobile Earth Station	
(N/A) e. Geostationary Space Station (N/A) f. Non–Geostationary Space Station	
og. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY: Choose only one. Transmit/Receive Transmit—Only Receive—Only N/A	A
W Transmitted on the same only to receive only to 147	•

PURPOSE OF MODIFICATION

FURFUSE 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	O Yes O No
application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	F2Authorization
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronateronautical fixed radio station services are not required to respond to Items 30–34.	autical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	● Yes ● No ● N/A
30. Is the applicant an alien or the representative of an alien?	O Yes O No O N/A

32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	Yes	O N	lo 🕲	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	O N	lo 🔞	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.	0	Yes	•	No

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊚ No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		
41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	Yes	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? Industry Canada	hat administi	ration has

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

Proposed transportable earth station will be capable of simulating a Ka-band Hub and/or Ka-band remote primarily for troubleshooting, testing, etc., should any payload performance issues come up on any of the US KA gateways or user beams.

AndrewTestReport

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.

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.)
o Individual
O Unincorporated Association
O Partnership
© Corporation
Governmental Entity
Other (please specify)

45. Name of Person Signing P.D. Bush		46. Title of Person Signing VP, Broadcast & Corporate Development	
47. Please supply any need attachments.			
Attachment 1: Cover/Rad Haz Study	Attachment 2:	Attachment 3:	

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: F2KA E5. Call Sign:

Transportable

E2: Contact Name Don Berg (Satellite E6. Phone 519–371–7490

Network Number:

Operations)

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

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

E14. Site Elevation (AMSL): 0.0 meters

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

E21. Common Name: WildBlue 1	E22. ITU Name: USASAT-31J
E23. Orbit Location: 109.2 W	E24. Country: Canada
Satellite Name: OTHER If you selected OTHER, please enter the	following:
E21. Common Name: ANIK F2	E22. ITU Name: CANSAT KA-4
E23. Orbit Location: 111.1 W	E24. Country: USA
Satellite Name: OTHER If you selected OTHER, please enter the	following:
E21. Common Name: WildBlue 1	E22. ITU Name: USASAT-31J
E23. Orbit Location: 109.2 W	E24. Country: USA
Satellite Name: OTHER If you selected OTHER, please enter the	following:
E21. Common Name: ANIK F2	E22. ITU Name: CANSAT KA-4
E23. Orbit Location: 111.1 W	E24. Country: Canada
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier: F2KA Transportable	
E26. Common Name:	E27. Country: USA
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier: F2KA Transportable	
E26. Common Name:	E27. Country: Canada
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier: F2KA Transportable	
E26. Common Name:	E27. Country: USA
POINTS OF COMMUNICATION (Destination Points)	

E25. Site Identifier: F2KA Transportable	
E26. Common Name:	E27. Country: Canada

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
F2KA Transportable	F2KA RT	1	Andrew	ESA24SNG-LTE	2.4	51.7 dBi at 19
						55.13 dBi at 29

E28. Antenna Id	Diameter	E35. Above Ground Level (meters)	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
F2KA RT	2.4/2.4	5.4	0.0	2.4	0.32	3.0	50.24
F2KA HT	2.4/2.4	5.4	0.0	2.4	14.35	3.0	66.7

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
F2KA HT	18300 18800	R	Right Hand Circular	1M60G7W	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.)	and services (if the	ie complete description	on does not appear in	tills box, piease go ti	o the end of the form	to view it in its	
	and Internet						
F2KA HT	19700 20200	R	Left Hand Circular	25M2G7W	0.0	0.0	
E50. Modulation entirety.) PSK, Data	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
F2KA HT	28350 28600	Т	Left Hand Circular	25M2G7W	66.7	29.5	
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	
PSK, Data	and Internet						
F2KA HT	29250 29500	Т	Left Hand Circular	25M2G7W	66.7	29.5	

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.)

PSK, Data and Internet

F2KA HT	29500	Т	Right Hand	1M60G7W	50.24	25.19
	30000		Circular			

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.)

PSK, Data and Internet

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	Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
F2KA RT	Geostationary	18300 18800	62.0/ 144.0	0.0	34.4	0.0	15.1	0.0
	Geostationary	19700 20200	62.0/ 144.0	0.0	34.4	0.0	15.1	0.0

Ge	•	28350 28600	62.0/ 144.0	0.0	34.4	0.0	15.1	-26.1
Ge	•	29250 29500	62.0/ 144.0	0.0	34.4	0.0	15.1	-26.1
Ge	•	29500 30000	62.0/ 144.0	0.0	34.4	0.0	15.1	-30.4

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. State/Country	E66. Zip Code

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