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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:

Kepler ESIM Blanket License Application

1–8. Legal Name	of Applicant
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Name: Kepler Communications Inc. **Phone Number:** 437–637–0017

DBA Fax Number: 437–537–5372

Name:

Street: 196 Spadina Avenue, Suite 400 **E–Mail:** nspina@keplercommunications.

com

City: Toronto State:

Country: Canada Zipcode: –

Attention: Mr Nickolas G Spina

9–16. Name of Contact Representative

Name: Simon Molgat Laurin Phone Number: 647–812–1384

Company: Kepler Communications Inc. **Fax Number:** 437–537–5372

Street: 196 Spadina Avenue, Suite 400 E–Mail: smolgatlaurin@keplercommunicati

ons.com

City: Toronto State:

Country: Canada Zipcode: M5T -2C2

Attention: Relationship: Other

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. 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 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. 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 application If Yes, complete and attach FCC Form	on? 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
Ofther(please explain):	rcial educational licensee
17d. Fee Classification BGV – Fixed Satellite V	SAT System

18. If this filing is in reference to an	19. If this filing is an amendment to a pending a	oplication enter:
existing station, enter: (a) Call sign of station:	(a) Date pending application was filed:	(b) File number of pending application:
Not Applicable	Not Applicable	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) Blanket Licensed ESIMs	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	■ Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
	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)Blanket Licensed ESIMs
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

1.1308 and 1.1311 of the Commission's rules,

application. A Radiation Hazard Study

28. Would a Commission grant of any proposal in this application or amendment

environmental impact as defined by 47 CFR 1.1307? If YES, submit the

modifications, or major amendments.	
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona 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?	O Yes O No O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	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?	O Yes O No O N/A

47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this

must accompany all applications for new transmitting facilities, major

have a significant

statement as required by Sections

O Yes

No

Exhibit B Rad Hazard

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
	Exhibit D Wai	vers
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	• Yes	O No
BASIC QUALIFICATIONS		
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.		
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 O	No () N/A

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 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	⊚ 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
	Exhibit C Non	US Sat
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? Canada	d, what administr	ation has
43. Description. (Summarize the nature of the application and the services to be provided). (If the	na aominista daga	rintian dags
not appear in this box, please go to the end of the form to view it in its entirety.)	ne complete descr	iipuon does
Kepler seeks a blanket license authorization to operate ESIMs (in particulaboard mobile vessels) in the Ku-band with its NGSO network in the FSS.	lar, termina	ls
Exhibit A Narrative		

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

CERTIFICATION

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

O Individual				
Unincorporated Association				
Partnership				
Corporation				
Governmental Entity				
Other (please specify)				
45. Name of Person Signing Simon Molgat Laurin 47. Please supply any need attach	iments.	46. Title of l Regulatory	Person Signing Associate	
Attachment 1:	Attachment 2:		Attachment 3:	
WILLFUL FALSE ST	TATEMENTS MADE ON THIS	FORM ARE PUNIS	HABLE BY FINE AND / OR IMPRISO	ONMENT
•	e, Title 18, Section 1001), AND Title 47, Section 312(a)(1)), AN		OF ANY STATION AUTHORIZATION	N

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: Kepler ESIM E5. Call Sign:

Blanket

E2: Contact Name Kepler Network E6. Phone 437–637–0017

Operations Center Number:

E3. Street: 196 Spadina E7. City: Toronto

Avenue, Suite 400

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, Hawaii, Alaska, Puerto Rico, US Virgin Islands (see application

Narrative)

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.	⊚ Ye	S I	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?	⊘ Ye	:s	O No	O N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	● Y	es	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Y	Zes .	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Y	Zes	•	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 Y	es	•	No
POINTS OF COMMUNICATION				
Satellite Name:OTHER OTHER If you selected OTHER, please enter the following:				

E21. Common Name: Kepler Comms	E22. ITU Name: KELYPSIS
E23. Orbit Location: NGSO	E24. Country: Canada

Satellite Name:PERMITTED LIST	If you selected OTHER, p	lease enter the following:	
E21. Common Name:		E22. ITU Name:	
E23. Orbit Location:		E24. Country:	

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: Kepler ESIM Blanket	
E26. Common Name:	E27. Country: USA

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)
Kepler ESIM Blanket	ESIM-01	250	Intellian	v65	0.65	36.3 dBi at 11.725
						37.7 dBi at 14.125
	ESIM-02			v85NX	0.85	38.9 dBi at 11.7
						40.7 dBi at 14.25
	ESIM-03			v240MT	2.4	46.5 dBi at 11.8
						47.4 dBi at 14.25

ESIM-04	Cobham	Sailor 900	1.03	40.6 dBi at 11.7
				41.6 dBi at 14.25
ESIM-05		Sailor 600	0.65	36.0 dBi at 11.7
				37.7 dBi at 14.0
ESIM-06		Sailor XTR	1.03	40.6 dBi at 11.7
				41.6 dBi at 14.25
ESIM-07		Sea Tel 3011	0.75	37.0 dBi at 11.85
				39.1 dBi at 14.25
ESIM-08		Sea Tel 9711	2.4	47.8 dBi at 11.85
				48.5 dBi at 14.25
ESIM-09	Kymeta	u7	0.823	32.5 dBi at 12.3
				33.5 dBi at 14.25
ESIM-10		u8	0.9	34.6 dBi at 14.2
				35.5 dBi at 12.2

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
ESIM-01	0.65/0.65	0.0	0.0	0.0	8.0	0.0	46.73
ESIM-02	0.85/0.85	0.0	0.0	0.0	8.0	0.0	49.73
ESIM-03	2.4/2.4	0.0	0.0	0.0	125.0	0.0	68.37
ESIM-04	1.03/1.03	0.0	0.0	0.0	8.0	0.0	50.63
ESIM-05	0.65/0.65	0.0	0.0	0.0	6.0	0.0	45.48
ESIM-06	1.03/1.03	0.0	0.0	0.0	16.0	0.0	53.1
ESIM-07	0.75/0.75	0.0	0.0	0.0	8.0	0.0	48.13
ESIM-08	2.4/2.4	0.0	0.0	0.0	125.0	0.0	69.47
ESIM-09	0.823/0.891	0.0	0.0	0.0	16.0	0.0	44.5
ESIM-10	0.9/0.9	0.0	0.0	0.0	20.0	0.0	45.5

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
ESIM-01	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0

E50. Modulation entirety.)	n and Services	(If the complete d	escription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-01	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0
E50. Modulation entirety.)	n and Services	(If the complete d	escription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-01	14000 14500	Т	Left Hand Circular	1M00G7W	46.73	-13.27
E50. Modulation entirety.)	n and Services	(If the complete d	escription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-01	14000 14500	Т	Left Hand Circular	400MG7W	46.73	-39.29

E50. Modulatio entirety.)	n and Services (If the complete d	escription does not appear i	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S2	2, up to 32 <i>F</i>	APSK), Digital Data			
ESIM-02	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0
E50. Modulatio entirety.)	n and Services (If the complete d	escription does not appear	n this box, please	go to the end of the	ne form to view it in its
QPSK nomi	nally (DVB-S2	2, up to 32 <i>P</i>	APSK), Digital Data			
ESIM-02	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0
E50. Modulatio entirety.)	n and Services (If the complete d	escription does not appear i	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S2	2, up to 32 <i>F</i>	APSK), Digital Data			
ESIM-02	14000 14500	Т	Left Hand Circular	1M00G7W	49.73	-10.27

E50. Modulation entirety.)	on and Services	(If the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
QPSK nomi	inally (DVB-S	2, up to 32A	.PSK), Digital Data	ı		
ESIM-02	14000 14500	Т	Left Hand Circula	r 400MG7W	49.73	-36.29
E50. Modulation entirety.)	on and Services	(If the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
QPSK nomi	inally (DVB-S	2, up to 32A	.PSK), Digital Data	1		
ESIM-03	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0
E50. Modulation entirety.)	on and Services	(If the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
QPSK nomi	inally (DVB-S	2, up to 32A	.PSK), Digital Data	1		
ESIM-03	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0

E50. Modulation entirety.)	n and Services (I	f the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomin	nally (DVB-S2	, up to 32 <i>F</i>	APSK), Digital Data			
ESIM-03	14000 14500	Т	Left Hand Circular	1M00G7W	68.37	8.37
E50. Modulation entirety.)	n and Services (I	f the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomin	nally (DVB-S2	, up to 324	APSK), Digital Data			
ESIM-03	14000 14500	Т	Left Hand Circular	400MG7W	68.37	-17.65
E50. Modulation entirety.)	n and Services (I	f the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomin	nally (DVB-S2	, up to 32 <i>F</i>	APSK), Digital Data			
ESIM-04	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0

E50. Modulation entirety.)	n and Services (I	f the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomin	nally (DVB-S2	, up to 32 <i>1</i>	APSK), Digital Data			
ESIM-04	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0
E50. Modulation entirety.)	n and Services (I	f the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomi	nally (DVB-S2	, up to 321	APSK), Digital Data			
ESIM-04	14000 14500	Т	Left Hand Circular	1M00G7W	50.63	-9.37
E50. Modulation entirety.)	n and Services (I	f the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its
QPSK nomin	nally (DVB-S2	, up to 32 <i>1</i>	APSK), Digital Data			
ESIM-04	14000 14500	Т	Left Hand Circular	400MG7W	50.63	-35.39

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
QPSK nomin	nally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-05	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0
E50. Modulation entirety.) QPSK nomin	and Services (If the nally (DVB-S2,			this box, please go t	o the end of the form	to view it in its
ESIM-05	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0
E50. Modulation entirety.) QPSK nomin	and Services (If the land Services) (If the land Services)			this box, please go t	o the end of the form	to view it in its
ESIM-05	14000 14500	Т	Left Hand Circular	1M00G7W	45.48	-14.52

E50. Modulatio entirety.)	n and Services	If the complete d	escription does not appear in	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	PSK), Digital Data			
ESIM-05	14000 14500	Т	Left Hand Circular	400MG7W	45.48	-40.54
E50. Modulatio entirety.)	n and Services	(If the complete d	escription does not appear in	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	.PSK), Digital Data			
ESIM-06	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0
E50. Modulatio entirety.)	n and Services	(If the complete d	escription does not appear in	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-06	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0

E50. Modulation entirety.)	n and Services (If the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its
QPSK nomi:	nally (DVB-S:	2, up to 32A	APSK), Digital Data			
ESIM-06	14000 14500	Т	Left Hand Circular	1M00G7W	53.1	-6.9
E50. Modulation entirety.)	n and Services (If the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-06	14000 14500	Т	Left Hand Circular	400MG7W	53.1	-32.92
E50. Modulation entirety.)	n and Services (If the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its
QPSK nomi	nally (DVB-S:	2, up to 32A	APSK), Digital Data			
ESIM-07	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	nally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-07	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0
E50. Modulation entirety.) QPSK nomin	`	he complete descripti up to 32APSK),		this box, please go t	to the end of the form	to view it in its
	Luca	T_	I		Trave	
ESIM-07	14000 14500	Т	Left Hand Circular	1M00G7W	48.13	-11.87
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	nally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-07	14000 14500	Т	Left Hand Circular	400MG7W	48.13	-37.89

E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	nally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-08	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	nally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-08	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	nally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-08	14000 14500	Т	Left Hand Circular	1M00G7W	69.47	9.47

E50. Modulatio entirety.)	n and Services	(If the complete d	escription does not appear in	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	PSK), Digital Data			
ESIM-08	14000 14500	Т	Left Hand Circular	400MG7W	69.47	-16.55
E50. Modulatio entirety.)	n and Services	(If the complete d	escription does not appear in	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	.PSK), Digital Data			
ESIM-09	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0
E50. Modulatio entirety.)	n and Services	(If the complete d	escription does not appear in	n this box, please	go to the end of the	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	PSK), Digital Data			
ESIM-09	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its
QPSK nomin	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-09	14000 14500	T	Left Hand Circular	1M00G7W	44.5	-15.5
E50. Modulation entirety.)	and Services (If the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its
QPSK nomi	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-09	14000 14500	Т	Left Hand Circular	400MG7W	44.5	-41.52
E50. Modulation entirety.)	n and Services (If the complete d	escription does not appear in	this box, please	go to the end of t	he form to view it in its
QPSK nomin	nally (DVB-S	2, up to 32A	APSK), Digital Data			
ESIM-10	10700 12700	R	Right Hand Circular	1M00G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	ally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-10	10700 12700	R	Right Hand Circular	400MG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	ally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-10	14000 14500	Т	Left Hand Circular	1M00G7W	45.5	-14.5
E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
QPSK nomin	ally (DVB-S2,	up to 32APSK),	Digital Data			
ESIM-10	14000 14500	Т	Left Hand Circular	400MG7W	45.5	-40.52

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

QPSK nominally (DVB-S2, up to 32APSK), 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)
ESIM-01	Non- Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non– Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-10.95
ESIM-02	Non– Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non– Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-10.95
ESIM-03	Non– Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0

	Non– Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	0.99
Non-	Non– Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non- Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-10.95
Non-	Non- Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non- Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-12.2
ESIM-06	Non- Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non- Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-7.94
ESIM-07	Non- Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non- Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-10.95
ESIM-08	Non- Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0

	Non– Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	0.99
ESIM-09	Non- Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non– Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-7.94
ESIM-10	Non– Geostationary	10700 12700	0.0/ 0.0	360.0	10.0	360.0	10.0	0.0
	Non- Geostationary	14000 14500	0.0/ 0.0	360.0	10.0	360.0	10.0	-6.97

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	_	E65. Phone Number 437–637–0017		
E62. Street Address 196 Spadina Avenue, Suite 400				
E63. City Toronto	E67. County N/A		E64/68. State/Country / Canada	E66. Zip Code

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