Date & Time Filed: Jul 24 2008 10:05:19:343AM File Number: SES-LIC-INTR2008-01801

Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

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

Red Dog Mine

1-8. Legal Name of Applicant

Name: Teck Cominco Alaska Incorporated **Phone Number:** 509–459–4406

DBA Fax Number:

Name:

Street: P.O. Box 3087 E–Mail:

City: Spokane State: WA

Country: USA **Zipcode:** 99220 -0387

Attention: Ms Deborah Frost

9–16. Name of Contact Representative

Name: Brian MacDonald Phone Number: 907–426–9234

Company: Teck Cominco Alaska Incorporated Fax Number:

Street: 3105 Lakeshore Drive **E-Mail:**

Building A, Suite 101

City: Anchorage State: AK

Country: USA Zipcode: 99517–

Attention: Brian MacDonald Relationship: Same

CLASSIFICATION OF FILING

17. Choose the button next to the	b.		
classification that applies to this filing for	ion that applies 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.	(N/A) b5. Assignment of License or Registration		
a1. Earth Station	(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 h 10. Other (Please specify)		
	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.		
(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	ercial educational licensee		
Other(please explain):			
17d.			
Fee Classification BAX – Fixed Satellite T	ransmit/Receive Earth		
Station			

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				
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 RadHaz
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 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 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.	○ 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.	○ 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 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. 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.		
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. 42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued,	Yes	O No
	O Yes	No
	what administr	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

Red Dog Mine site in a remote part of Alaska.

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 Brian MacDonald	nents.	46. Title of Person Signii Telecom Manager – Red		
47. Please supply any need attachn				
47. Please supply any need attachm Attachment 1:	Attachment 2:		Attachment 3:	
	Attachment 2:		Attachment 3:	

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: Red Dog Mine E5. Call Sign:

E2: Contact Name Brian MacDonald E6. Phone 907–426–9234

Number:

E3. Street: Rural – Noatak E7. City: Red Dog Mine

City

E8. County: Northwest Arctic

Burea

E4. State E9. Zip Code

E10. Area of Operation: ALSAT

E11. Latitude: 68 °4 '19.0 "N

E12. Longitude: 162 °52 '34.0 "W

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

E14. Site Elevation (AMSL): 237.3 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.	⊗ Y	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?	OY	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	0	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0 7	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: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the following	g:			

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)
Red Dog Mine	4.5	1	Andrew Corp.	Prime Focus	4.5	43.0 dBi at 3.950
						47.0 dBi at 6.175

Id	Diameter	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)		Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
4.5	0.0/0.0	5.0	242.3	0.0	300.0	0.0	71.77

FREQUENCY

E28. Antenna Id	E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
	Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
	(MHz)		L , R)		(dBW)	Carrier
						(dBW/4kHz)

4.5	3700	4200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modentirety.)	dulation and Servi	ces (If the	he complete descrip	otion does not appear	in this box, please	go to the end of th	ne form to view it in its
Digit	cal traffic,	various	s FEC, data ra	ates, modulatio	on and inform	ation	
4.5	3700	4200	R	Horizontal and Vertical	51K2G7W	0.0	0.0
1.5	5925	6425	Т	Horizontal and Vertical	36M0G7W	71.77	32.23
	<u> </u>	(TC :	1 1 1 1	. 1	. 41. 1	1 . 6.4	
E50. Modentirety.)	dulation and Servi	ces (If the	ne complete descrip	otion does not appear	in this box, please	go to the end of the	ne form to view it in its

4.5	5925	6425	T	Horizontal and Vertical	51K2G7W	49.17	38.1
E50. Modulation entirety.)	and Services	(If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital tr	affic, va	arious	FEC, data rat	es, modulation	and informati	on	

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	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)
4.5	Geostationary	3700 4200	125.0/ 139.0	140.0	8.5	154.5	11.4	0.0
	Geostationary	5925 6425	125.0/ 139.0	140.0	8.5	154.5	11.4	8.7

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.	E66. Zip Code
		State/Country	
		/	

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