Approved by OMB 3060–0678

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APPLICATION FOR EARTH STATION AUTHORIZATIONS	FCC Use Only
FCC 312 MAIN FORM	
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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: Schlumberger Technology Corp. Fixed VSAT Application

	Corporation		
DBA Name:		Fax Number:	713–939–7686
Street:	5599 San Felipe	E-Mail:	dstellas @slb.com
City:	Houston	State:	TX
Country:	USA	Zipcode:	77056 –

Name:	Robert J. Miller	Phone Number:	214-999-4219
Company:	Gardere Wynne Sewell LLP	Fax Number:	214-999-3219
Street:	1601 Elm Street	E-Mail:	rmiller@gardere.com
	Suite 3000		
City:	Dallas	State:	TX
Country:	USA	Zipcode:	75201-
Attention:		Relationship:	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the	b.			
classification 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. a. a. a1. Earth Station (N/A) a2. Space 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 			
	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. 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	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).			
O Governmental Entity O Noncomme	ercial educational licensee			
• Other(please explain):				
17d.				
Fee Classification BGV – Fixed Satellite VSAT System				

18. If this filing is in reference to an	19. If this filing is an amendment to a pending application enter:		
existing station, enter:	(a) Date pending application was filed:	(b) File number of pending application:	
(a) Call sign of station:			
Not Applicable	Not Applicable	Not Applicable	

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	e 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
	Using Non–U.S. licensed satellites
facilities:	ervice, 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 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

a. Fixed Earth Station	1		
b. Temporary–Fixed	Earth Station		
• c. 12/14 GHz VSAT	Network		
d. Mobile Earth Stati	on		
N/A) e. Geostationary S	pace Station		
N/A) f. Non–Geostation	ary Space Station		
g. Other (please spec	ify)		
PE OF EARTH STATI	ON FACILITY: Choose only	one.	

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 environmental impact as defined by 47 CFR 1.1307? If YES, submit the statemen	have a significant of as required by Sections	es O No
1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, a application.A Radiation Hazard Study must accompany all applications for new t	as an exhibit to this Exhibi	t 1
modifications, or major amendments.		

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	O Yes	● No
30. Is the applicant an alien or the representative of an alien?	O Yes	● No ● N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	● No ● N/A
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	• Yes	O No O N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	● Yes ○ No ○ N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	Exhibit 2

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.	O Yes	No 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 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.	• 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.

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.



O No

• Yes

Exhibit 3

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

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

Applicant seeks authority to operate 550 fixed VSAT 1.2 meter antennas in the Ku-band. The hub facility will be applicant's currently authorized Ku-band earth station, call sign E7818, located in Sedalia, CO. Applicant has an application pending to modify this license so its status would be non-common carrier instead of common carrier (File No. SES-

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.	О ^В
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.

44. Applicant is a (an): (Choose the butto	on next to applicable response	e.)		
O Individual				
• Unincorporated Association				
• Partnership				
• Corporation				
• Governmental Entity				
Other (please specify)				
45. Name of Person Signing		46. Title of Person	Signing	
Demetrios Stellas		Vice President		
47. Please supply any need attachments.				
Attachment 1:	Attachment 2:		Attachment 3:	
WILLFUL FALSE STATEM	ENTS MADE ON THIS FOI	RM ARE PUNISHABI	LE BY FINE AND / OR IMPRISON	MENT
			NY STATION AUTHORIZATION	
(U.S. Code, Title 4)	7, Section 312(a)(1)), AND/C	JK FURFEITURE (U.S	S. Code, Title 47, Section 503).	
1				

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

ation Site			
VSAT HUB	E5. Call Sign:	E7818	
Curtis Dais	E6. Phone Number:	303-470-2524	
7147 Reynolds Dr.		Sedalia	
	E8. County:	Douglas	
СО	E9. Zip Code	80135	
tion:	United States		
39 °28 '0.0 "N			
104 °59 '32.9 "W			
linates are:	ONAD-27	● NAD-83	O N/A
(AMSL):	1725.0 meters		
	Curtis Dais 7147 Reynolds Dr. CO ion: 39 °28 '0.0 "N 104 °59 '32.9 "W inates are:	Curtis DaisE6. Phone Number:7147 Reynolds Dr.E7. City:7147 Reynolds Dr.E8. County:E8. County:E9. Zip Codeion:United States39 ° 28 '0.0 "NUnited States104 ° 59 ' 32.9 "WNAD-27	Curtis DaisE6. Phone Number: $303-470-2524$ Number:7147 Reynolds Dr.E7. City:SedaliaE8. County:DouglasCOE9. Zip Code80135ion:United States $39 ° 28 ' 0.0 "N$ $104 ° 59 ' 32.9 "WNAD-27$

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 asExhibit 4 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}	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit 5	0	Yes	۲	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.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: ALSAT | ALL AUTHORIZED U.S. | ALSAT If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
VSAT HUB	VSAT	550	Prodelin	Series 1123	1.2	41.5 dBi at 12.0
						43.0 dBi at 14.0

Id	E33/34. Diameter Minor/Major (meters)		E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
VSAT	0.0/0.0	0.0	1000.0	0.0	4.0	1.2	48.5

FREQUENCY

 E43/44. Frequency Bands		E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)	L,R)		Carrier (dBW/4kHz)
			(UD W/4KHZ)

VSAT	14000.0 14500.0	Т	Vertical	4M00G1D	0.0	0.0
E50. Modu entirety.)	lation and Services (If the complete d	escription does not appea	ar in this box, please	go to the end of t	the form to view it in its
0						
VSAT	11700.0 12200.0	R	Horizontal	1M00G1D	0.0	0.0
E50. Modul entirety.)	lation and Services (If the complete d	escription does not appea	ar in this box, please	go to the end of t	he form to view it in its
8PSK						
VSAT	11700.0 12200.0	R	Horizontal	1M00G1D	0.0	0.0
E50. Modu entirety.)	lation and Services (If the complete d	escription does not appea	ar in this box, please	go to the end of t	the form to view it in its
QPSK						

VSAT	11700.0 12200.0	R	Horizontal	256KG1D	0.0	0.0
E50. Modulat entirety.)	tion and Services (If the complete de	escription does not appea	ar in this box, please	go to the end of t	the form to view it in its
8PSK						
VSAT	11700.0 12200.0	R	Horizontal	256KG1D	0.0	0.0
entirety.) QPSK						
VSAT	11700.0 12200.0	R	Horizontal	2M00G1D	0.0	0.0
E50. Modulat entirety.)	tion and Services (If the complete de	escription does not appe	ar in this box, please	go to the end of t	the form to view it in its
QPSK						

VSAT	11700.0 12200.0	R	Horizontal	4M00G1D	0.0	0.0
E50. Modulati entirety.)	ion and Services (1	If the complete de	escription does not appe	ar in this box, please	go to the end of t	the form to view it in its
QPSK						
VSAT	11700.0 12200.0	R	Horizontal	512KG1D	0.0	0.0
entirety.) 8PSK						
VSAT	11700.0 12200.0	R	Horizontal	512KG1D	0.0	0.0
E50. Modulati entirety.)	ion and Services (1	If the complete d	escription does not appea	ar in this box, please	go to the end of t	the form to view it in its
QPSK						

VSAT	14000.0 14500.0	Т	Vertical	1M00G1D	51.6	29.2
E50. Modula entirety.)	ation and Services (If the complete de	escription does not app	ear in this box, please	go to the end of t	he form to view it in its
8psk						
VSAT	14000.0 14500.0	Т	Vertical	1M00G1D	54.6	29.2
entirety.) QPSK						
VSAT	14000.0 14500.0	Т	Vertical	256KG1D	45.6	29.2
E50. Modula entirety.)	ation and Services (If the complete d	escription does not app	ear in this box, please	go to the end of t	he form to view it in its

VSAT	14000.0 14500.0	Т	Vertical	256KG1D	48.6	29.2
E50. Modul entirety.)	ation and Services (If the complete de	escription does not app	ear in this box, please	go to the end of the	he form to view it in its
QPSK						
VSAT	14000.0 14500.0	Т	Vertical	2M00G1D	54.6	29.2
entirety.)	ation and Services (he form to view it in its
VSAT	14000.0 14500.0	Т	Vertical	2M00G1D	57.6	29.2
E50. Modul entirety.)	ation and Services (If the complete de	escription does not app	ear in this box, please	go to the end of the	he form to view it in its
QPSK						

VSAT	14000.0 14500.0	Т	Vertical	512KG1D	48.6	29.2
E50. Modula entirety.)	ation and Services (If the complete de	escription does not appe	ar in this box, please	go to the end of t	he form to view it in its
8PSK						
VSAT	14000.0 14500.0	Т	Vertical	512KG1D	51.6	29.2
QPSK	ation and Services (escription does not appe			
VSAT	11700.00 12200.0	R	Horizontal	2M00G1D	0.0	0.0
E50. Modula entirety.)	ation and Services (If the complete de	escription does not appe	ar in this box, please	go to the end of t	he form to view it in its
8psk						

VSAT	11700.0 12200.0	R	Horizontal	2M00G1D	0.0	0.0
E50. Modulation entirety.)	and Services (If	the complete desc	cription does not appe	ar in this box, please	go to the end of t	the form to view it in its
QPSK TDM						
VSAT	14000.0 14500.0	Т	Vertical	2M00G1D	0.0	0.0
E50. Modulation entirety.) QPSK TDM	and Services (If	the complete desc	cription does not appe	ar in this box, please	go to the end of t	the form to view it in its
FREQUENCY CO	OORDINATION					

E28. Antenna Id		Limits(MHz)	Range of Satellite Arc E/W Limit	Station	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
VSAT	Geostationary	14000.0 14500.0	61.0/ 143.0	123.0	26.0	231.0	30.0	17.1

REMOTE CONTROL POINT LOCATION

E61. Call Sign E7818 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.		E65. Phone Number +441224773727		
E62. Street Address Stoneywood Park				
E63. City Aberdeen	E67. County N/A		E64/68. State/Country / United Kingdom	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.

43. Description. (Summarize the nature of the application and the services to be provided).

Applicant seeks authority to operate 550 fixed VSAT 1.2 meter antennas in the Ku-band. The hub facility will be applicant's currently authorized Ku-band earth station, call sign E7818, located in Sedalia, CO. Applicant has an application pending to modify this license so its status would be non-common carrier instead of common carrier (File No. SES-MOD-20100323-00339).