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FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM	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:

STC Modification Application for Sedalia Earth Station

egal Name of A	pplicant		
Name:	Schlumberger Techhnology Corporation	Phone Number:	281-285-8400
DBA Name:		Fax Number:	281–285–6952
Street:	300 Schlumberger Drive	E–Mail:	rmiller@gardere.com
City:	Sugar Land	State:	TX
Country:	USA	Zipcode:	77478 –
Attention	Mr Robert J Miller		

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

Name: Robert J. Miller **Phone Number:** 214-999-4219

Gardere Wynne Sewell LLP Fax Number: Company: 214-999-3219

1601 Elm Street E-Mail: rmiller@gardere.com **Street:**

City: TX**Dallas State:**

Zipcode: **Country: USA** 75201-

Relationship: Contact Legal Counsel

Title:

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.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) 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

b5. Assignment of License or Registration

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

(N/A) b10. Other (Please specify)

17c. Is a fee submitted with this applicati						
O Governmental Entity O Noncomme	Governmental Entity Noncommercial educational licensee					
Other(please explain):						
17d.						
Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station						
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a				
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:				
E7818		SESRWL1996022101770				

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	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
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER stacilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
O 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	pplicable 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: (Please specify addition	nal frequencies in an attachment)

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	
e. Geostationary Space Station	
f. Non–Geostationary Space Station	
g. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY:	
Transmit/Receive Transmit-Only Receive-Only N/A	
"For Space Station applications, select 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.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

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 A–Q.28

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?

Yes No N/A

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?



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?	Yes No	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.	Exhibit B – Q.34	
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
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 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	• 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.	• 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
 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
 No

Exhibit C-Q.42

- 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? Canada and Brazil
- 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.)

Licensee's Sedalia earth station (call sign E7818) is authorized to provide service in the 11.7-12.2 and 14.0-14.5 GHz bands. In this application, Licensee seeks FCC authorization to modify this earth station license so it can operate in the 10.5-11.2, 11.45-11.7, and 13.75-14.0 GHz extended Ku-bands by adding two (2) antennas to provide service using the

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.

, <u> </u>		
44. Applicant is a (an): (Choose the button next to app	olicable response.)	
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 		
45 N	AC TELL ORD GO :	
45. Name of Person Signing Michael D. Lennon >	46. Title of Person Signing Teleport Operations Manager	

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 St	ation Site					
E1: Site Identifier:	HUB	E5. Call Sign:	E7818			
E2: Contact Name	Robert Danti	E6. Phone Number:	303-470-2524			
E3. Street:	7147 Reynolds Drive	E7. City:	Sedalia			
		E8. County:	Douglas			
E4. State	CO	E9. Zip Code	80135			
E10. Area of Operat	tion:	All of North Americ	ea			
E11. Latitude:	39 °28 '0.0 "N					
E12. Longitude:	104 °59 '32.9 "W					
E13. Lat/Lon Coord	linates are:	O NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	1725.0 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.

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Ser Satellite Service (FSS) with non–geostationary satellites, do(es) the propagin patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the local point.	tion and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as Exhibit D–Q.E18	• Yes	0	No
E19. Is coordination with another country required? If YES, attach the national contours as	ame of the country(ies) and plot of	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.			•	No
POINTS OF COMMUNICATION		!		
Satellite Name: PERMITTED LIST If you selected OTHER, please	e enter the following:			
E21. Common Name: ANIK F2	E22. ITU Name: ANIK-1A			
E23. Orbit Location: 111.1 W.L.	E24. Country: Canada			
Satellite Name: PERMITTED LIST If you selected OTHER, please	e enter the following:			

E21. Common Name: AMAZONAS-1	E22. ITU Name:			
E23. Orbit Location: 61 W.L.	E24. Country: Brazil			

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: HUB	
E26. Common Name: AMAZONAS-1	E27. Country: USA

E25. Site Identifier: HUB	
E26. Common Name: ANIK F2	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
HUB	HUB 1, 2	2	Vertex RSI	6.3 KXK	6.3	55.9 dBi at 12
						57.6 dBi at 14

Id			, ,	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
HUB 1, 2	0.0/0.0	1733.0	1725.0	0.0	80.0	0.0	76.0

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)
HUB 1, 2	109500 11200.0	R	Horizontal and Vertical	1M04G7D	0.0	0.0
E50. Modulation entirety.) QPSK	and Services (If the state of t	ne complete descrip	otion does not appear in	this box, please go	to the end of the form	to view it in its
HUB 1, 2	13750.0 14000.0	Т	Horizontal and Vertical	1M04G7D	59.0	-21.0
E50. Modulation entirety.) QPSK	n and Services (If the	ne complete descrip	otion does not appear in	n this box, please go	to the end of the form	to view it in its
HUB 1, 2	11450.00 12200.00	R	Horizontal and Vertical	1M04G7D	0.0	0.0

E50. Modul entirety.)	ation and Service	es (If the com	plete description	does not appear	in this box, plea	ase go to the end	d of the form	n to view it in its
QPSK								
E28. Antenna Id	Y COORDINA' E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern 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	
HUB 1, 2	Geostationary	10.5 GHz 14.0 GHz	123.4/189.6	123.4	25.9	189.4	43.9	43.6
REMOTE CO	NTROL POIN	T LOCATION	1	1		1		ļ .
	gn ase enter the calls ich this applicati	•	•		. Phone Number			
E62. Street	Address			•				
E63. City			E68. County	ý		E67/68. State/Country		E64. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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

Licensee's Sedalia earth station (call sign E7818) is authorized to provide service in the 11.7-12.2 and 14.0-14.5 GHz bands. In this application, Licensee seeks FCC authorization to modify this earth station license so it can operate in the 10.5-11.2, 11.45-11.7, and 13.75-14.0 GHz extended Ku-bands by adding two (2) antennas to provide service using the ANIK F2 and AMAZONAS 1 satellites (both satellites are on the FCC's permitted space station list).