Date & Time Filed: Jan 18 2007 9:57:22:203AM File Number: SES-MOD-INTR2007-00202

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MA	AIN 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:

Hub Station Antenna Addition

gal Name of Ap	pplicant		
Name:	BJ Services Company U.S.A.	Phone Number:	713-895-5617
DBA Name:		Fax Number:	713–895–5442
Street:	5500 Northwest Central Drive	E-Mail:	dselby@bjservices.com
	Houston, TX 77092 4442		
City:	Houston	State:	TX
Country:	USA	Zipcode:	77210 -4442
Attention:	Dennis L Selby		

9–16. Name of Contact Representative

Name: David R. Kendrick Phone Number: 632–326–4393

Company: Talladega Systems, Inc Fax Number: 281–463–7394

Street: 15023 Margeson E–Mail: drkendrick@talladegasys.com

City: Houston State: TX

Country: USA Zipcode: 77084–

Attention: Relationship: Engineer

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

b3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

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)

(N/A) 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) b12. Application for Database Entry

b13. Amendment to a Pending Database Entry Application

b14. Modification 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 Noncommercial educational licensee							
Other(please explain):							
17d.							
Fee Classification CGV – Fixed Satellite VSAT System							
18. If this filing is in reference to an existing station, enter:							
(a) Call sign of station: (b) File number:							
E020095 SESLIC2002032600543							

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
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	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 sta	tion that applies. Choose only	one.	
a. Fixed Earth Station				
o b. Temporary–Fixed Earth Station				
o. 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/Δ		
Transmit/Receive Transmit-Only "For Space Station applications, select N/A."	O Receive—Only	O 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

under the laws of a foreign country?

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.					Hazard		
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al er	ı rot	ıte oı			
29. Is the applicant a foreign government or the representative of any foreign government?	٥	Yes	•	, No			
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A	
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	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	0	Yes	•	No	0	N/A	

O Yes No

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

		
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 •	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.		
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.	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.	• 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	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.	O Yes	⊚ 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?	hat administr	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.)

Applicant seeks to add an antenna at the hub station location and additional remote VSATs to support the expansion of commercial communications services.

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 button next to applicable response.)					
0000	Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify)					
	45. Name of Person Signing Dennis L. Selby >	46. Title of Person Signing Assistant MIS Director				

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	Location of Earth Station Site					
E1: Site Identifier:	HUB2	E5. Call Sign:	E020095			
E2: Contact Name	Dennis Selby	E6. Phone Number:	713 895–5617			
E3. Street:	11211 FM 2929 Road	E7. City:	Tomball			
		E8. County:	Harris			
E4. State	TX	E9. Zip Code	77375			
E10. Area of Operat	tion:	Conus, Gulf of Mex	ico			
E11. Latitude:	30 °5 '58.7 "N					
E12. Longitude:	95 °35 '24.1 "W					
E13. Lat/Lon Coordinates are:		○ NAD-27	● NAD-83	O N/A		
E14. Site Elevation (AMSL):		175.0 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 ● No ● N/A
--	------------------

E16 If the many of the second of the Eight Country		1		
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Se Satellite Service (FSS) with non–geostationary satellites, do(es) the progain 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 loca point.	ntion and telephone number of the control	O Yes	s 🔞	. No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	<u> </u>		
		O Yes	s 🔞	No
E19. Is coordination with another country required? If YES, attach the r coordination contours as	name of the country(ies) and plot of	O Yes	s @	. 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.			s 💿	No No
POINTS OF COMMUNICATION		-		
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you s	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 Gain Transmint and/or Recieve (dBi atGHz)	
HUB2	HUB2	1	Andrew	ES46MPJ-1	4.6	54.9 dBi at 14	
HUB2	HUB2	1	Andrew	ES46MPJ-1	4.6	53.3 dBi at 11.7	

Id	Diameter		,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
HUB2	0.0/0.0	3.0	178.0	5.0	75.0	0.0	73.65

FREQUENCY

	E43/44. Frequency Bands (MHz)				E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
HUB2	11700 12200	R	Horizontal and Vertical	150KG7W	0.0	0.0

and Services (If the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its
ital voice an	nd data carr	ier			
14000 14500	Т	Horizontal and Vertical	1M50G7W	62.5	36.76
		escription does not appear	in this box, please	go to the end of the	ne form to view it in its
14000 14500	Т	Horizontal and Vertical	2M50G7W	65.0	37.04
		escription does not appear	in this box, please	go to the end of th	ne form to view it in its
	14000 14500 n and Services (ata Carrier, 14000 14500 n and Services (14000 T and Services (If the complete de lata Carrier, QPSK	14000 T Horizontal and Vertical and Services (If the complete description does not appear ata Carrier, QPSK 14000 T Horizontal and Vertical and Services (If the complete description does not appear ata Carrier, QPSK	14000 T Horizontal and Vertical 14000 and Services (If the complete description does not appear in this box, please at a Carrier, QPSK Horizontal and Vertical 2M50G7W vertical 14000 T Horizontal and Vertical 2M50G7W vertical and Vertical 14000 T Horizontal and Vertical 2M50G7W vertical 14000 T Horizontal and Vertical 14000 T Horizontal and Vertical 2M50G7W vertical 14000 T Horizontal and Vertical 14000 T Horizo	14000 T

FREQUENCY COORDINATION

E28. Antenna Id	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	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
HUB2	Geostationary	11700 12200	60.0/143.0	125.0	37.9	245.2	28.2	0.0
	Geostationary	14000 14500	60.0/143.0	125.0	37.9	245.2	28.2	-10.2

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code

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:	Remote2	E5. Call Sign:	E020095		
E2: Contact Name	Dennis Selby	E6. Phone Number:	713 895–5617		
E3. Street:	11211 FM 2929 Road	E7. City:	Tomball		
		E8. County:	Harris		
E4. State	TX	E9. Zip Code	77375		
E10. Area of Operat	ion:	Conus, Gulf of Mexico			
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates are:	O NAD-27	O 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.	O Yes	⊚ 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 locat point.	ion and telephone number of the control	● Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as Affadavit 1	O Yes	No
E19. Is coordination with another country required? If YES, attach the na	nme of the country(ies) and plot of	0	•
coordination contours as		O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA' the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	O Yes	No	
POINTS OF COMMUNICATION			
Satellite Name: AMC-4 (formerl GE-4 AMC-4 101 W.L. If you see	lected 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	Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
Remote2	Remote2	30	AVL Technologies	965KCB	0.96	0.0 dBi at

Id	Diameter		,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Remote2	0.0/0.0	0.0	0.0	0.0	1.1	0.0	41.8

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)
Remote2	11700 12200	R	Horizontal and Vertical	1M50G7D	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.)

QPSK,	Digital	voice	and	data

Remote2	11700 12200	R	Horizontal and Vertical	2M50G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
QPSK, Digi	tal voice and	data T	Horizontal and	150KG7D	41.8	26.06
E50. Modulation	and Services (If t	he complete descripti	Vertical on does not appear ir	this box, please go t	to the end of the form	to view it in its
entirety.)			T T T T T T T T T T T T T T T T T T T	, r		
QPSK, Digi	tal voice and	data				

FREQUENCY COORDINATION

E28. Antenna Id		Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	Station	Antenna Elevation Angle	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Remote2	Geostationary	11700 12200	60.0/143.0	0.0	10.0	0.0	10.0	0.0

	Geostationary	14000 14500	60.0/143.0	0.0		10.0	0.0	10.0		-6.1	
REMOTE CO	REMOTE CONTROL POINT LOCATION										
E020095 NOTE: Pleas	E61. Call Sign E020095 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. E66. Phone Number 713 895–5617										
E62. Street A 11211 FM 2				ļ.							
E63. City Tomball			E68. County Harris	I			E67/68. State/Cour TX/		E64.	Zip Code 75	

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