Date & Time Filed: Mar 8 2006 3:09:08:103PM File Number: SES-MOD-INTR2006-00638

ĺ	FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM	FCC Use Only
	FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	
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APPLICANT INFORMATION

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

Galaxy 11 Modification for E970347

Name:	GTECH Corp.	Phone Number:	401–392–1000 x7803
DBA Name:		Fax Number:	401–392–4993
Street:	55 Technology Way	E–Mail:	helen.santos@gtech.com
City:	West Greenwich	State:	RI
Countr	y: USA	Zipcode:	02817 –
Attenti	on: Mrs Helena M Santos		

9–16. Name of Contact Representative

Name: Bruce Olcott Phone Number: 202 626 6615

Company: Squire, Sanders & Dempsey LLP Fax Number: 202 626 6780

Street: 1201 Pennsylvania Ave. NW E–Mail: bolcott@ssd.com

P.O. Box 407

City: Washington State: DC

Country: USA **Zipcode:** 20044–0407

Attention: Attorney Relationship: Legal Counsel

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 applic If Yes, complete and attach FCC For		If No, indicate reason for fee exempti	ion (see	e 47 C.F.R.Section 1.1114).
Governmental Entity Noncom	mercial e	educational licensee		
Other(please explain):				
17d.				
Fee Classification CGV – Fixed Satellin	te VSAT	System		
18. If this filing is in reference to an existing station, enter:		If this filing is an amendment to a pend ification please enter only the file num		plication enter both fields, if this filing is a
(a) Call sign of station: E970347	(a) I	Date pending application was filed:		(b) File number:
E7/034/				SESMOD2004043000619

TYPE OF SERVICE

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				
oc. 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 & Countries)
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

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.	_		~			
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 en	ı rou	ite or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	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?	0	Yes	0	No	•	N/A

 $lackbox{ Yes } lackbox{ No}$

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

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
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.	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

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.



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.



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.)

GTECH seeks authority to add new emission designators and related changes to the 4.6 meter antenna at its existing Hub facility in Austin, Texas, which operates with remote terminals licensed under callsign E930182.

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 applie	cable response.)	
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 		
45. Name of Person Signing Bruce R. Turner >	46. Title of Person Signing Chief Executive Officer	

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:	E970347		
E2: Contact Name	Greg Sanders or David Schwlam	E6. Phone Number:	512 908-4242		
E3. Street:	8200 Cameron Road	E7. City:	Austin		
		E8. County:	Austin		
E4. State	TX	E9. Zip Code	78754		
E10. Area of Operat	ion:	ALSAT			
E11. Latitude:	30°20'30.0"N				
E12. Longitude:	97 °41 '15.0 "W				
E13. Lat/Lon Coord	linates are:	O NAD-27	● NAD-83	O N/A	
E14. Site Elevation	(AMSL):	257.0 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 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?	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	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the recoordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 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 APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION		•		
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you s	elected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country: USA			
POINTS OF COMMUNICATION (Destination Points)	•			
E25. Site Identifier: HUB				

E26. Common Name: ANT2	E27. Country: USA

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)
HUB	ANT	2	ANDREW	ES46MPJ1	4.6	53.4 dBi at 11.95
HUB	ANT	2	ANDREW	ES46MPJ1	4.6	54.9 dBi at 14.25
HUB	ANT2	1	ANDREW	ES76-KNH1	7.6	57.8 dBi at 11.95
HUB	ANT2	1	ANDREW	ES76-KNH1	7.6	59.3 dBi at 14.25
HUB	ANT3	1	ANDREW	ES49-2LPKU-	5.0	53.7 dBi at 11.95
HUB	ANT3	1	ANDREW	ES49-2LPKU-1	5.0	55.3 dBi at 14.25

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
ANT	0.0/0.0	5.2	262.2	0.0	350.0	0.0	80.3
ANT2	0.0/0.0	8.6	265.6	0.0	400.0	0.0	85.3
ANT3	0.0/0.0	5.7	262.7	0.0	400.0	0.0	81.3

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)
ANT	11700 12200	R	Horizontal and Vertical	200KG7D	0.0	0.0
QPSK, Data	a, Inroute, 128	KSPS				
ANT	11700 12200	R	Horizontal and Vertical	400KG7D	0.0	0.0
E50. Modulation entirety.)	,		tion does not appear ir	this box, please go	to the end of the form	to view it in its
QPSK, Data	a, Inroute, 256	KSPS				
ANT	11700 12200	R	Horizontal and Vertical	800KG7D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
	, Inroute, 512	KSPS					
ANT	11700 12200	R	Horizontal and Vertical	1M60KG7D	0.0	0.0	
entirety.)	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, Data, Inroute, 1024 MSPS						
ANT	11700 12200	R	Horizontal and Vertical	200KG7W	0.0	0.0	
E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its	
OQPSK, 128	KSPS, Return	Digitial Carri	er				
ANT	11700 12200	R	Horizontal and Vertical	60K0G7W	0.0	0.0	

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its	
	Varient) Retur	n Digital Carr	ier				
ANT	11700 12200	R	Horizontal and Vertical	120K0G7W	0.0	0.0	
E50. Modulation entirety.) MSK (QPSK	Varient) Retur			i tilis oox, piease go t	to the end of the form	to view it in its	
ANT	14000 14500	Т	Horizontal and Vertical	6M00G7D	72.6	40.9	
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, Data, Inroute, 5 MSPS							
ANT	14000 14500	Т	Horizontal and Vertical	12M00G7D	75.6	40.9	

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
	, Inroute, 10	MSPS					
ANT	14000 14500	Т	Horizontal and Vertical	1M20G7W	59.6	34.8	
BPSK Digit	al Broadcast C	arrier					
ANT	14000 14500	Т	Horizontal and Vertical	2M40G7W	62.6	34.8	
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.) BPSK Digital Broadcast Carrier							
ANT	14000 14500	Т	Horizontal and Vertical	800KG7W	57.8	34.8	

E50. Modul entirety.)	lation and Services	(If the complete	description does not appear	in this box, please	go to the end of the	he form to view it in its
BPSK D	igital Broadca	ast Carrier				
ANT	14000 14500	T	Horizontal and Vertical	1M60G7W	60.5	34.5
E50. Modulentirety.)	lation and Services	(If the complete	description does not appear	in this box, please	go to the end of the	he form to view it in its
BPSK,	1024 KSPS, Out	route Carrie	r			
ANT	14000 14500	Т	Horizontal and Vertical	6M20G7W	64.5	34.8
E50. Modul entirety.)	lation and Services	(If the complete	description does not appear	in this box, please	go to the end of the	he form to view it in its
QPSK,	5 MSPS, Broado	cast Digital	Carrier			
ANT2	11700 12200	R	Horizontal and Vertical	200KG7W	0.0	0.0

entirety.)	on and Services	(If the complete	description does not appear	in this box, please	go to the end of the	ne form to view it in its
OQPSK, 1	28 KSPS, Re	turn Digital	Carrier			
ANT2	11700 12200	R	Horizontal and Vertical	60K0G7W	0.0	0.0
E50. Modulati entirety.)	on and Services	(If the complete	description does not appear	in this box, please	go to the end of t	he form to view it in its
MSK (QPS	K Varient)	Return Digita	l Carrier			
ANT2	11700 12200	R	Horizontal and Vertical	120KG7W	0.0	0.0
E50. Modulati entirety.)	on and Services	(If the complete	description does not appear	in this box, please	go to the end of t	he form to view it in its
MSK (QPS	K Varient)	Return Digiti	al Carrier			
ANT2	14000 14500	Т	Horizontal and Vertical	1M20G7W	59.6	34.8

E50. Modulation entirety.)	n and Services (If	the complete descript	ion does not appear i	n this box, please go	to the end of the form	to view it in its	
	tal Broadcast	Carrier					
ANT2	14000 14500	Т	Horizontal and Vertical	2M40G7W	62.6	34.8	
BPSK Digit	tal Broadcast	Carrier					
ANT2	14000 14500	Т	Horizontal and Vertical	800KG7W	57.8	34.8	
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.) BPSK Digitial Broadcast Carrier							
ANT2	14000 14500	Т	Horizontal and Vertical	1M60G7W	60.5	34.5	

E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
BPSK, 1024	: KSPS, Outrout	e Carrier				
ANT2	14000 14500	Т	Horizontal and Vertical	6M20G7W	64.5	32.6
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear ir	this box, please go t	o the end of the form	to view it in its
QPSK, 5 MS	PS Broadcast D	egital Carrier				
ANT3	11700 12200	R	Horizontal and Vertical	200KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
OQPSK, 128	KSPS, Return	Digital Carrie	er			
ANT3	11700 12200	R	Horizontal and Vertical	120KG7W	0.0	0.0

E50. Modulatior 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
	Varient) Retur	n Digital Carr	ier			
ANT3	11700 12200	R	Horizontal and Vertical	60K0G7W	0.0	0.0
E50. Modulation entirety.) MSK (QPSK	Varient) Retur			33, p	o the end of the form	
ANT3	14000 14500	Т	Horizontal and Vertical	1M20G7W	59.6	34.8
E50. Modulation entirety.) BPSK Digit	a and Services (If the		on does not appear in	this box, please go t	o the end of the form	to view it in its
ANT3	14000 14500	Т	Horizontal and Vertical	2M40G7W	62.6	34.8

E50. Modulation entirety.)	n and Services (If t	he complete descripti	on does not appear in	this box, please go	to the end of the form	to view it in its	
BPSK Digit	tal Broadcast (Carrier					
ANT3	14000 14500	Т	Horizontal and Vertical	800KG7W	57.8	34.8	
BPSK Digit	tal Broadcast (Carrier					
ANT3	14000 14500	Т	Horizontal and Vertical	1M60G7W	60.5	34.5	
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.) BPSK, 1024 KSPS, Outroute Carrier							
ANT3	14000 14500	Т	Horizontal and Vertical	6M20G7W	64.5	32.6	

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, 5 MSPS Broadcast Digital Carrier

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)
ANT	Geostationary	0 0	0.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	11700 12200	69.0/139.0	132.7	42.8	240.1	33.1	0.0
	Geostationary	14000 14500	69.0/139.0	132.7	42.8	240.1	33.1	-26.1
ANT2	Geostationary	11700 12200	69.0/139.0	132.7	42.8	240.1	33.1	0.0
	Geostationary	14000 14500	69.0/139.0	132.7	42.8	240.1	33.1	-30.5
ANT3	Geostationary	11700 12200	69.0/139.0	132.7	42.8	240.1	33.1	0.0
	Geostationary	14000 14500	69.0/139.0	132.7	42.8	240.1	33.1	-26.5

REMOTE CONTROL POINT LOCATION

E61. Call Sign E66. 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
E68. County
E68. County
E64. Zip Code
State/Country

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 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 jboley@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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