Date & Time Filed: Dec 1 2006 2:07:31:253PM File Number: SES-MOD-INTR2006-03180

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:

Modification of E8634 Atlanta

–8. Legal	Name of App	plicant			
	Name:	Crawford Communications, Inc.	Phone Number:	404-876-7149	
	DBA Name:		Fax Number:	404-876-8956	
	Street:	3845 Pleasantdale Road	E–Mail:		
	City:	Atlanta	State:	GA	
	Country:	USA	Zipcode:	30340 –	
	Attention:	Mr James Schuster			

9–16. Name of Contact Representative

Name: Frank R. Jazzo, Esq. Phone Number: 703–812–0470

Company: Fletcher, Heald & Hildreth, P.L.C. Fax Number: 703–812–0486

Street: 1300 N. 17th Street, 11th Flr. E–Mail: jazzo@fhhlaw.com

City: Arlington State: VA

Country: USA Zipcode: 22209–

Attention: 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

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

b 13. Amendment to a Pending Database Entry Application

b14. Modification of Database Entry

17c. Is a fee submitted with this applicati					
If Yes, complete and attach FCC Form					
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 an modification please enter only the file number:	oplication enter both fields, if this filing is a			
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:			
E8634		SESMOD1999022600260			

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:	ervice, 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 & mp; countries)
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	O Yes O No	
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.	RadHaz 7.3	

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?	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

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.		

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.	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
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,	• Yes	No

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.)

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?

Application to modify E8634 to change location, add Ku-Band frequencies, replace two existing antennas with two new (7.3 meter and 6.1 meter) antennas, change emission designators and related services, increase EIRP and EIRP density, and change points of communication to ALSAT

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.)	
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 	
	46. Title of Person Signing Sr. V. Pres. & Pres. of Crawford Satellite Srvices

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:	1	E5. Call Sign:	E8634			
E2: Contact Name	James L. Schuster	E6. Phone Number:	678-421-6750			
E3. Street:	3845 Pleasantdale Road	E7. City:	Atlanta			
		E8. County:	Dekalb			
E4. State	GA	E9. Zip Code	30340			
E10. Area of Operat	tion:	Atlanta, GA				
E11. Latitude:	33 °53 '46.0 "N					
E12. Longitude:	84°14'21.8"W					
E13. Lat/Lon Coord	linates are:	O NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	280.42 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 Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	pposed 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.	ation and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as FreqCoord	Yes	•	No
E19. Is coordination with another country required? If YES, attach the coordination 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 FAZ the structure to aviation? FAA Notification FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	Yes	0	No
POINTS OF COMMUNICATION		1		
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: 1				

E26. Common Name:	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)
1	1	1	Scientific- Atlanta	ESA73-46	7.3	48.5 dBi at 4.0
1	1	1	Scientific- Atlanta	ESA73-46	7.3	51.5 dBi at 6.0
1	2	1	Vertex	KPK	6.1	55.5 dBi at 12
1	2	1	Vertex	KPK	6.1	56.9 dBi at 14

Id	Diameter	E35. Above Ground Level (meters)	· '	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
1	0.0/0.0	8.0	288.42	0.0	450.0	0.0	78.0
2	0.0/0.0	7.1	287.52	0.0	500.0	0.0	83.9

FREQUENCY

					E49. Maximum
Frequency Bands (MHz)	1/K viode	Polarization(H,V, L,R)	Designator	EIRP per Carrier (dBW)	Carrier
		(2,11)		()	(dBW/4kHz)

1	3700.00 4200.00	R	Horizontal and Vertical	36M0G1F	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear	in this box, please go t	to the end of the form	to view it in its
Compressed	Digital Video)				
1	3700.00 4200.00	R	Horizontal and Vertical	3M00G1F	0.0	0.0
Compressed	l Digital Video					
1	5925.00 6425.00	Т	Horizontal and Vertical	36M0G1F	78.0	38.5
E50. Modulation entirety.)	and Services (If to	he complete descripti	on does not appear	in this box, please go t	to the end of the form	to view it in its

1	5925.00 6425.00	Т	Horizontal and Vertical	3M00G1F	73.7	45.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear	in this box, please go	to the end of the form	n to view it in its
Compressed	Digital Video)				
1	3700.00 4200.00	R	Horizontal and Vertical	36M0F3F	0.0	0.0
entirety.) Standard V	ideo with Asso	ociated Audio S	ub-carriers			
1	5925.00 6297.00	Т	Horizontal and Vertical	36M0F3F	78.0	51.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear	in this box, please go	to the end of the form	n to view it in its
Standard V	ideo with Asso	ociated Audio S	ub-carriers			

1	6297.00 6334.00	Т	Horizontal and Vertical	36M0F3F	72.0	45.0
E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear i	n this box, please go	to the end of the form	to view it in its
Standard V	ideo with Asso	ociated Audio S	ub-carriers			
1	6334.00 6425.00	Т	Horizontal and Vertical	36M0F3F	78.0	51.0
entirety.) Standard V	ideo with Asso	ociated Audio S	ub-carriers			
1	3700.00 4200.00	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.) BPSK, QPSK Informatio	, 8PSK, QAM, F				to the end of the form 5 Mbps, Various	

1	3700.00 4200.00	R	Horizontal and Vertical	51K2G7W	0.0	0.0
E50. Modulation entirety.)	on and Services (If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
BPSK, QPS		, FEC Rates	1/2-7/8, Various I	Oata Rates fr	om 64 kbps,	Various
1	5925.00 6425.00	Т	Horizontal and Vertical	36M0G7W	78.0	38.5
Informati		,	1/2-7/8, Various I			
1	5925.00 6425.00	Т	Horizontal and Vertical	51K2G7W	56.1	45.0
	on and Services (If the complete de	escription does not appear	in this box, please	go to the end of t	ha form to view it in its
E50. Modulation entirety.)	,		1			he form to view it in its

2	11700.00 12200.00	R	Horizontal and Vertical	36M0G1F	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear	in this box, please go	to the end of the form	to view it in its
Compressed	Digital Video					
2	11700.00 12200.00	R	Horizontal and Vertical	3M00G1F	0.0	0.0
entirety.) Compressed	Digital Video	,				
2	14000.00 14500.00	Т	Horizontal and Vertical	36M0G1F	82.4	42.9
E50. Modulation entirety.)	and Services (If the Digital Video		on does not appear	in this box, please go	to the end of the form	to view it in its

2	14000.00 14500.00	Т	Horizontal and Vertical	3M00G1F	71.7	42.9
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear	in this box, please go	to the end of the form	n to view it in its
Compressed	Digital Video	,				
2	11700.00 12200.00	R	Horizontal and Vertical	36M0F3F	0.0	0.0
entirety.) Standard V	ideo with Asso	ciated Audio S	ub-carriers			
2	14000.00 14500.00	Т	Horizontal and Vertical	36M0F3F	83.9	56.9
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear	in this box, please go	to the end of the form	n to view it in its
Standard V	ideo with Asso	ciated Audio S	ub-carriers			

2	11700.00 12200.00	R	Horizontal and Vertical	36M0G7W	0.0	0.0	
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
BPSK, QPSK Informatio		EC Rates 1/2-7	/8, Various Da	ata Rates to 45	Mbps, Various		
2	11700.00 12200.00	R	Horizontal and Vertical	51K2G7W	0.0	0.0	
entirety.) BPSK, QPSK, 8PSK, QAM, FEC Rates 1/2-7/8, Various Data Rates from 64 kbps, Various Information							
2	14000.00 14500.00	Т	Horizontal and Vertical	36M0G7W	82.4	42.9	
E50. Modulation entirety.) BPSK, QPSK Informatio	, 8PSK, QAM, F			n this box, please go to			

2	14000.00	Т	Horizontal and	51K2G7W	54.0	42.9
	14500.00		Vertical			

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, QPSK, 8PSK, QAM, FEC Rates 1/2-7/8, Various Data Rates from 64 kbps, Various Information

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)
1	Geostationary	3700.00 4200.00	43.0/139.0	122.5	31.2	248.5	20.5	0.0
	Geostationary	5925.00 6425.00	43.0/139.0	122.5	31.2	248.5	20.5	-10.4
2	Geostationary	11700.00 12200.00	58.0/139.0	138.5	41.6	248.5	20.5	0.0
	Geostationary	14000.00 14500.00	58.0/139.0	138.5	41.6	248.5	20.5	-10.0

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

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.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

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.