ALE LICATION FOR SALELLITE SPACE AND EARTH STATION AUTHORIZATIONS 'hrs.	FEDERAL COMMUNICATIONS COMMISSION Per Report Of Control of Contro	FCC 312 Approved by OMB 3069-6678 Main Form Est. Ave. Burder Hours
Fee Number:	Call Sign:	FCC Use Only File Number:

APPLICANT INFORMATION			
L_Legal Name of Applicant	22	. Voice Telephone Number	umber
3. Other Name Used for Doing Business (if any)	. 4	l. Fax Telephone Number	ber
5. Mailing Street Address or P.O. Box	6. City		
	7. State / Country (if not U.S.A.)		8. Zip Cade
9, Name of Contact Representative (If other than applicant)		0. Voice Telephone Number	iumber
11. Firm or Company Name		l2. Fax Telephone Number	nber
13. Maning Street Address or P.O. Box	14. City		
ATTENTION:	15. State / Country (if not U.S.A)		16. Zip Code

CLASSIFICATION OF FILING

19. If this filing is an amendment to a pending application enter:(a) Date pending application was filed:(b) File number of pending application:	18. If this filing is in reference to an existing station, enter: Cell sign of station:
b10. Other (Please Specify):	b5. Assignment of License or Registration
b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States	a2. Space Station b4. Modification of License or Registration
b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite	b3. Amendment to a Pending Application
b7. Notification of Minor Modification	al. Earth Station
b6. Transfer of Control of License or Registration	bl. Application for License of New Station
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TYPE OF SERVICE

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.130? 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 as an exhibit for new transmitting facilities, major modifications, or major amendments. Refer to OEI Bulletin 65.
ENVIRONMENTAL POLICY
27. The purpose of this proposed modification or amendment 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 replace antenna e authorization to replace antenna f authorization to relocate fixed station g authorization to change assigned frequency(ies) h authorization to change assigned frequency(ies) i authorization for facilities for which environmental assessment and radiation hazard reporting is required k Other (Please Specify)
PURPOSE OF MODIFICATION OR AMENDMENT
26. TYPE OF EARTH STATION FACILITY Mark only one box. a. Transmit/Receive b. Transmit-Only c. Receive-Only
25: CLASS OF STATION: Place an "X" in the box next to the class of station that applies. Mark only one box. a. Fixed Earth Station b. Temporary-Fixed Earth Station c. 12/14 GHz VSAT Network If space station applicant, go to Question 27.
TYPE OF STATION
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)
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings, Mark only one box. Are these facilities: a. Connected to the Public Switched Network b. Not connected to the Public Switched Network
21. STATUS: Place an "X" in the box next to the applicable status. Mark only one box. 22. If earth station applicant, place an "X" in the box(es) next to all that apply. a. Common Carrier b. Non-Common Carrier a. Using U.S. licensed satellites b. Using Non-U.S. licensed satellites
20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Place an "X" in the box(es) next to all that apply. a. Fixed Satellite c. Radiodetermination Satellite e. Direct to Home Fixed Satellite b. Mobile Satellite d. Earth Exploration Satellite f. Digital Audio Radio Service g. Other (please specify)
X X X X Y X X X X X X X X X X X X X X X

FCC 312, Main Form - Page 2 February, 1998

ALIEN OWNERSHIP

29. Is the applicant a foreign government or the representative of any foreign government?	YES	ON
30. Is the applicant an alien or the representative of an alien?	∐YES	ON
31. Is the applicant a corporation organized under the laws of any foreign government?	∐YES	ON
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?	ΣEX	ON
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	ONO
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit, the 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	ON
36. Has the applicant or any party to this application 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 explanation of the circumstances.	YES	NO
37. Has the applicant, or any party to this application, 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 explanation of the circumstances.	XES	ON
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 the circumstances.	YES	ON
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceeding two items? If Yes, attach as an exhibit, an explanation of the circumstances.	∐¥ES	No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, addresses, and citizenship of those stockholders owning of 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(les) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.	f those f fiduciary ler.	
41. By checking Yes, the undersigned certifies, that neither the 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 purposes.	ON
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.	Sax	NO
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?		

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).	47. Signature 48. Date	45. Title of Person Signing	<u>Б.</u>	44. Applicant is a (an): (Place an "X" in the box next to applicable response.)	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.	CERTIFICATION							Exhibit No. Identify all exhibits that are attached to this application.						45. Description. (Summanze the nature of the application and the services to be provided).	
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ng) A33. Date	(Office Held by Person Signing)	A32. Tide (त	A31. Signature	ise Transferce/Assignee	A30, Printed Name of License Transferce/Assignee
ng) A29. Date	Office Held by Person Signing)	A28, Tide (ત.	A27. Signature	nse Transferor/Assignor itagree with A10)	A26. Printed Name of Lucase Transferor/Assignor (Hulffrent than licence, Mustagree with A10)
ng) A25. Date	A24. Tide (Office Held by Person Signing)	A24. Tide (-	त	A23. Signature	isee (Must agree with A1)	AZZ. Frinted Name of Licensee (Must agree with A1)
ed, but that transfer of must be notified by letter	onsent has been received es that the Commission	the Commission's c ed also acknowledge	ot be transferred until tonsent. The undersigne	d that control will no s of Commission co	delivered and within 60 days	2. The undersigned represents that stock will not be delivered and that control will not be transferred until the Commission's consent has been received, but that transfer of control or assignment of license will be completed within 60 days of Commission consent. The undersigned also acknowledges that the Commission must be notified by letter within 30 days of consummation.	2. The undersigned represents tha control or assignment of license within 30 days of consummation.
this application itted herewith are	made in Schedule A of other instruments subm	A and all statements hat any contracts or	pertinent to Schedule A rsigned also certifics th	ll attached exhibits prideled. The under	ertifies that al knowledge an	1. The undersigned, individually and for licensee, certifies that all attached exhibits pertinent to Schedule A and all statements made in Schedule A of this application are true, complete and correct to the best of his/her knowledge and belief. The undersigned also certifies that any contracts or other instruments submitted herewith are complete and constitute the full agreement.	1. The undersigned, individually and for lic are true, complete and correct to the best of complete and constitute the full agreement.
serve the public interest.	nment or transfer will so	show how the assig	Setting forth the facts which CERTIFICATION	ete statement setting	ubit, a comple	A21. It these factiones are licensed, attach as an exhibit, a complete statement setting forth the facts which show how the assignment or transfer will serve the public interest. CERTIFICATION	A.71. II these facilities
ON	ily YES rolling ng and	entity? I fully and complete susiness of the contropercentages of voting stock.	ontrolled by any other tere appropriate) which izenship, and primary bas, citizenship, and the gorporation's voting	ectly or indirectly or ational diagrams wh mame, address, citi- the names, addresse ore of the controllin-	e/assignee dired in the ding organizar hading: (1) the rties; and (2) the percent or more than the district or more district.	A20. If these facilities are licensed, is the transferee/assignee directly or indirectly controlled by any other entity? If Yes, attach as an exhibit, a statement (including organizational diagrams where appropriate) which fully and completely identifies the nature and extent of control including: (1) the name, address, citizenship, and primary business of the controlling entity and any intermediate subsidiaries or parties; and (2) the names, addresses, citizenship, and the percentages of voting and equity stock of those stockholders holding 10 percent or more of the controlling corporation's voting stock.	A20. If these facilities If Yes, attach as identifies the na entity and any in equity stock of t
ry A19. Zip Code	A18. State/Country		A17. City	A14. Zip Code	A13. State/Country	A13. S	A12, City
	WARRENCH CONTRACTOR OF THE PARTY OF THE PART	Address or P.O. Box	A16. Mailing Street Address or P.O. Box			s or P.O. Box	All. Mailing Street Address or P.O. Box
		:feree/Assignee	A15. Name of Transferee/Assignee		registrant)	A10. Name of Transferor/Assignor (if different than licensee or registrant)	A10. Name of Transferor/A
A9. No. of station(s) listed						A8. List Call Sign(s) of station(s) being assigned or transfered	A8. List Call Sign(s) of sta
íp Code	fnot U.S.A.) A7. Zip Code	A6. State / Country (if					A5. City
	,						ATTENTION:
	A4. Fax Telephone Number		unaparatura arrivi innerezza errenter erriter egit de iripud.	mangan garaga ang mangan		or P.O. Box	A3. Mailing Street Address or P.O. Box
er ·	A2. Voice Telephone Number					egistrant	A1. Name of Licensee or Registrant
		LICENSE T ION	CONSENT TO ASSIGNMENT OF LICENSE NOTHFICATION OF ASSIGNMENT OF RECEIVE ONLY REGISTRATION	CONSENT TO NOTHFICATION OF RECEIVE	ROL [CONSENT TO TRANSFER OF CONTROL NOTIFICATION OF TRANSFER OF CONTROL OF RECEIVE ONLY REGISTRATION	CONSENT 1 NOTUFICAT OF RECEIV
	FCC Use Only		NOISSI	FEDERAL COMMUNICATIONS COMMISSION FCC 312 - Schedule A (Place an "X" in one of the blocks below)	OMMUNICATIONS COFFICE 312 - Schedule A	FEDERAL CO Fi	

	And the state of t
List of Destination Points	Satellite Name
B3. Destination points for communications using non-U.S. licensed satellites. For each non-U.S. licensed satellite facility identified in section B2 above, specify the destination point(s) (countries) where the services will be provided by this earth station via each non-U.S. licensed satellite system. Use additional sheets as needed.	B3. Destination points for com
Satellite Name and Orbit Location Satellite Name and Orbit Location	Satellite Name and Orbit Location
B2. Points of Communications: List the names and orbit locations of all satellites with which this earth station will communicate. The entry "ALSAT" is sufficient to identify the names and locations of all satellite facilities licensed by the U.S. All non-U.S. licensed satellites must be listed individually.	B2. Points of Communications
B18. County B11. State B11. Zip Code B11. Site Elevation (AMSL) meters	Bit. Cily
Lon	
Operation Blc. Name of Contact Person Lat. NAD-27	B1d. Street Address of Station or Area of Operation
Blb. Site identifier (HUB, REMOTE I, etc.) Blc. Telephone Number Blj. Geographic Coordinates N/S Deg Min Sec E/W Coordinates are:	B1a. Station Call Sign B11
If temporary-fixed, mobile, or VSAT remote facility, specify area of operation and point of contact. If VSAT hub station, For VSAT networks attach individual Schedule B, Page 1 sheets for each hub station and each remote station. Individually Location, Points of Communications, and Destination Points for each hub and remote station.	Earth Stat
Registration of New Domestic Receive-Only Station Amendment to a Pending Application Modification of License/Registration Notification of Minor Modification	License of New Station
FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS (Technical and Operational Description)	FCC 312 Schedule B

Page 2: Antennas

FCC Form 312 - Schedule B: (Technical and Operational Description) SATELLITE EARTH STATION AUTHORIZATIONS

B4. Earth Station Antenna Facilities: Use additional pages as needed.

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		:				1440
				:		
(g) Antenna Gain Transmit and/or Receive (dBi atGHz)	(f) Antenna Size (meters)	(e) Model	(d) Manufacturer	(c) Quantity	(b) Antenna ID**	(a) Site ID*
4 5 5 5 5			The same of the sa	j	_	

B5. Antenna Heights and Maximum Power Limits: (The corresponding Antenna ID in tables B4 and B5 applies to the same antenna)

				Antenna ID***	Ē
			- Andrews	(b) Antenna Structure Registration No.	
				(c) Above Ground Level (meters)	Maximum A
	•			(c) Above Ground Level Mean Sea Level (meters) (meters)	ntenna Height
				Height Above Ground Level (meters)***	(c) Building
				Antenna Height Above Rooftop (meters)***	(f) Maximum
			•	Power at antenna flange (Watts)	(g) Total Input
				(a) Total EIRP for all carriers (dBW)	

Notes: * If this is an application for a VSAT network, identify the site (Item B1b, Schedule B, Page 1) where each antenna is located. Also include this Site-ID on Schedule B, Page 5, ** Identify each antenna in VSAT network or multi-antenna station with a unique identifier, such as HUB, REMOTE1, A1, A2, 10M, 12M, 7M, etc. Use this same antenna ID throughout tables B4, B5, B6, and B7 when referring to the same antenna.

^{***} Attach sketch of site or exemption, See 47 CFR Part 17.

FCC Form 312 - Schedule B: (Technical and Operational Description) FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS

Page 3: Coordination

B6. Frequency Coordination Limits: Use additional pages as needed.

ID*	(MHz)	Eastern Limit**	Western Limit**	Eastern Limit	Western Limit	Eastern Limit	Western Limit	Horizon (dBW/4kHz)
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Trademorphis &								

[&]quot; * Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and orbital are range is associated.

** If operating with geostationary satellites, give the orbital are limits and the associated elevation and azimuth angles. If operating with non-geostationary satellites, give the notation "NON-GEO" for the satellite are and give the minimum operational elevation angle and the maximum azimuth angle range.

FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description)

Page 4: Particulars

B7. Particulars of Operation (Full particulars are required for each r.f. carrier): Use additional pages as needed.

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(it) Description of Modulation and Services	(g) Maximum EJRP Density per Carrier (dBW/4kHz)	(f) Maximum EIRP per Carrier (dBW)	(e) Emission Designator	(d) Antenna Polarization (H,V,L,R)	(c) T/R Mode	(b) Frequency Bands (MHz)	(a) Antenna ID*

Notes: * Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and emission is associated. For VSAT networks, include frequencies and emissions for all HUB and REMOTE units.

** Indicate whether the earth station transmits or receives in each frequency band.

FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description)

Page 5: Questions

If VSAT Network, provide the SITE-ID (Item B1b) of the station that B8-B13 are in response to (HUB, REMOTE1, etc.):

F.A	B13. FA W/ an	B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit.	B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit.	1 STOPE					B9. If th (FS: Sect	B8. If th com
FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	B13. 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?			B10f. Telephone Number	B10b, City	B10a. Street Address	Remote Control Point Location:	B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	B9. 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?	B8. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qual measurements? If NO, provide as an exhibit, a technical analysis showing compliance with two-degree spacing policy.
VD 25 WILL RESULT IN THE RETU				B10g. Call Sign of Control Station (if appropriate)	Blüc. County			ocation and telephone number of the control p		
RN OF THIS APPI				ion (if appropriate)	B10d. State / Country			oint.	tellite Service specified in	proposed antenna(s) rer's qualification g policy.
LICATION.	YES	YES	∐YES		B10e. Zip Code			YES	YES	YES
	ON	ON	ON		Ode			ON NO	ON	ON
							-			

Approved by DMB 3060-9678
Est. Avg. Burdan Hours Per Response: 0.2522 HOURS

INSTRUCTIONS FOR COMPLETION OF FCC FORM 312 APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS

Information and Instructions

Purpose of Form

FCC Form 312 is used to apply for all authorizations relating to satellite earth and space station facilities, and to notify the Commission of changes to these facilities in cases where prior Commission approval is not required. Specifically, applicants should use FCC Form 312 in the following cases: (1) when applying for a license for a new earth or space station(s); (2) when applying for registration of a domestic receive-only earth station(s); (3) when applying for a modification to a licensed earth or space station(s); (4) when seeking Commission consent to an assignment or transfer of control of a licensed earth or space station(s); (5) when notifying the Commission of a minor modification to a licensed earth or space station(s); (6) when notifying the Commission of an assignment or transfer of control of a registered domestic receive-only earth station(s); and (7) when filing an amendment to a pending earth or space station application(s). The purpose of this form is to collect data and other information relating to satellite space and earth stations to assist the FCC in determining whether the public interest would be served by a grant of the requested authorization.

Applicable Rules and Regulations

Before the application is prepared, the applicant should refer to Parts 1 and 25 of the Rules and Regulations of the Commission, (Title 47, Code of Federal Regulations (CFR), Parts 1 and 25). Copies of the FCC Rules may be purchased from the Superintendent of Documents, Mail Stop: SSOP, U.S. Government Printing Office, Washington, DC 20402-9328. Part 1 contains rules regarding fee requirements. See also the International and Satellite Services Fee Filing Guide for specific fee information. Part 25 may require information to be filed with an application in addition to that specified in the application form. Applicant should make every effort to file a complete application in compliance with the Rules. Failure to do so can result in rejection or return of the application or a delay in the processing of the application. Use additional sheets only where necessary. All additional sheets must contain the applicant's name and the number of questions to which it responds.

Introduction

FCC Form 312 is a multi-part form comprised of a Main Form and schedules. Each application must contain a completed Main Form in addition to any required schedules in order to receive consideration.

The purpose of the mandatory Main Form is to (1) obtain information sufficient to identify the applicant; (2) establish the applicant's basic eligibility and qualifications; (3) classify the filing; and (4) identify the nature of the proposed service or request. The Main Form also contains required certifications and signature block(s).

Schedules

There are two schedules - Schedule A and Schedule B - that are used in conjunction with the mandatory Main Form.

SCHEDULE A is to be completed when:

Applying for Consent to Assignment of License of both space and earth stations

Applying for Consent to Transfer of Control of both space and earth stations

Notifying the FCC of Assignment or Transfer of Control of Receive-Only earth station Registration

SCHEDULE B is to be completed when:

Applying for a License for a Transmit and/or Receive Earth Stations

Applying for Registration of Domestic Receive-only Earth Stations

Applying for Blanket License for New Earth Station System, including VSAT and Mobile Satellite Service Systems

Amending a <u>pending</u> earth station Application
Applying for a Modification of a <u>granted</u> earth station or
VSAT license

Applying for a Modification of a granted Receive-only earth station Registration

Notifying FCC of a Minor Modification of a granted earth station or VSAT license

For Assistance

For additional information about Form 312 contact the FCC Consumer Assistance Office at (202) 418-0220. Information is also available on the FCC's internet site at http://www.fcc.gov. Examples of completed Form 312 applications are available on the FCC's internet site. The International and Satellite Services Fee Filing Guide is available on the International Bureau's Home Page at the above internet address.

Incorporation by Reference

Reference documents, exhibits, or other lengthy showings already on file with the FCC may be referred to in the application without further submission only if: (a) the information is current and accurate in all significant respects and (b) the reference states specifically where the previously filed information can be found (i.e., station call sign and application file number, title of proceeding, docket number or legal citations), including exhibit and page references. If either of these criterion is not met, the reference documents must accompany the application.

GENERAL INSTRUCTIONS

Current Information

Information filed with the FCC must be kept current. The applicant should notify the FCC regarding any substantial and significant changes in the facts as they appear in the application. See 47 CFR 1.65.

Waiver Requests

Requests for waivers must contain a statement of reasons sufficient to justify a waiver and must be included as "Exhibit D" to the Main Form. For each rule waiver desired, a separate request with the required showing identifying the specific rule or policy for which the waiver is requested, must be made.

Exhibits

Each document required to be filed as an exhibit should be current as of the date of filing. Each exhibit must be identified by a letter. Each page of each exhibit must be identified by exhibit and page number using the following format: Exhibit A, Page 2 of 3. If material is to be incorporated by reference within the exhibit, see the instruction on incorporation by reference. If interference studies, frequency coordination reports, radiation hazard reports, environmental impact statements, etc., are required by rule, include them as exhibits. All exhibits must be consecutively designated using either letters or numbers. All exhibits must be listed on the exhibit chart, Main Form, page 4.

Filing of Applications

An original and two copies of the completed application(s) for earth station(s) and an original and nine copies of the completed application(s) for space station(s), as set forth in Part 25, must be submitted along with an FCC Form 159 and the correct filing fee amount. The original application and the duplicate thereof must be clearly marked as such. DO NOT SEND CASH. Payment can generally be made by check, bank draft, credit card, money order, or by prearrangement. For detailed information regarding fees refer to the International and Satellite Services Fee Filing Guide.

Mailing of Applications

Completed applications concerning earth and space stations should be mailed to:

Federal Communications Commission International Bureau Applications P.O. Box 979093 St. Louis, MO 63197-9000

When delivering feeable applications by hand or by courier, use the following address:

US Bank Government Lock Box 1005 Convention Plaza St. Louis, MO

Applications received before midnight on a normal business day will receive that day's date as the receipt date.

Deliveries made after midnight on Fridays will not be "officially" receipted until the next Monday. Applications received on weekends and government holidays are dated the next regular business day. See the FCC International and Satellite Services Fee Filing Guide for fee information.

Additional Information

All information provided in this form will be available for public inspection. If information requested on the form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to FCC rules. The solicitation of personal information requested in this form is authorized by the Communications Act of 1934, as amended, and the Telecommunications Act of 1996, Pub. L. 104-104 (February 8, 1996). The FCC will use the information provided in this form to determine whether grant of this application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition all

Paperwork Reduction and Privacy Act Notice

become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on this form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to the Commission rules. Your response is required to obtain the requested authority.

bours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Federal Communications Commission, AMD-Performance Evaluation and Records Management Branch, Washington, D.C. 20554, Paperwork Reduction Project 3060-0678. [Do not send completed application forms to this address.] Applicant is not required to respond to any collection of information that does not display a valid OMB Control Number Of Via email to PRA & fcc. 90v.

The foregoing Notice is required by the Privacy Act of 1974, Pub.L. 93-597, December 31, 1974, 5 U.S.C. 552a(e)(3), and the Paperwork Reduction Act of 1995, Pub.L. 104-13, May 22, 1995, 44 U.S.C. 3506(c)(1)(B), 5 CFR 1320.5(b).

Miscellaneous Information Regarding Specific Types of Filings

Space Station Applications. All space station applications should be filed using Form 312 Main Form. Applications for assignments and transfers of control of space station licenses should also include Schedule A. Only the Main Form is needed to submit ownership information. All additional required space station information such as business plans, technical descriptions, etc. should be provided in a narrative form attached to the Form 312 Main Form. See Part 25.140, et al., of the FCC's Rules and Regulations concerning the filing requirements for space station applications.

Earth Station Amendments. All amendments to pending earth station applications should include FCC Form 312 Main Form and Schedule B. Applicants may incorporate by reference those data items not being changed. (See instructions for incorporation by reference.)

Earth Station Modifications. All modifications to existing earth station authorizations should include FCC Form 312 Main Form and Schedule B. Applicants may incorporate by reference those data items not being changed. (See instructions for incorporation by reference.) If you presently hold domestic, international, and/or transborder authorizations for the same earth station (call sign) that were previously granted under different file numbers, be sure to include the composite data from all of these previous separate authorizations. Only one modified authorization will be issued that encompasses all of the previous earth station authorizations.

VSAT Network Applications. Applications for blanket licenses for VSAT networks may be filed in a single consolidated network application using Form 312. Separate radio station authorizations will be issued to each hub station and for each different size or type of remote unit in the network. The application for a new VSAT network should include a single Main Form and a Schedule B which includes the complete data for all parts of the VSAT network. Provide a separate Schedule B, Page 1 for each part of the network, including one sheet for each hub station and one sheet for each remote unit variant. Include all hub and remote antennas, frequency coordination limits, and particulars of operation on Schedule B, Pages 2-4. Be sure to identify the associated site-id and antenna-id for each row of data. Attach continuation sheets for Pages 2-4 as needed. Provide a separate Schedule B, Page 5 for each hub site and remote variant. Be sure to identify the site-id on each Page 5.

Modifications to a VSAT network authorization should include only the data relevant to the portion of the network that is being revised. For example, if the modification affects only the hub station, do not include data relevant to the remote units (see Earth Station Modifications section above).

SPECIFIC INSTRUCTIONS FOR THE MAIN FORM

APPLICANT INFORMATION

Items 1-16. These items identify the applicant. If an authorization is granted, the information provided will become the licensee's name, address and telephone numbers of record, and the authorization will be sent to this address. Applicants must provide a current and valid mailing address. Failure to respond to FCC correspondence sent to the address of record may result in dismissal of an application, liability for forfeiture or revocation of an authorization. These items also identify the contact representative (e.g., a person at the headquarter's office of the applicant, the law firm of the applicant, or the company that prepared or submitted the application on behalf of the applicant).

CLASSIFICATION OF FILING

Item 17a indicates whether the filing relates to an earth or a space station application. Do not combine both earth and space station actions within a single application -- check only one box. For example, file two separate applications for an Assignment of License that covers both the space segment and earth segment of a satellite system.

Item 17b indicates the type of application that is being filed. Do not combine different types of actions into a single application -- check only one box. For example, to modify and assign the authorization for a single station, you must file two separate applications. Schedule A must be attached to the Main Form if you have checked box 17b5 or 17b6. Schedule B must be attached to the Main Form if you have checked box 17b1, 17b2, 17b3 (if earth station), 17b4, or 17b7.

Item 18 If this filing is in reference to an existing station, provide the station's call sign. If this filing is in reference to multiple stations provide the call sign of the lead station.

Item 19 Where a pending application is to be amended, enter the date that the original pending application was filed. Also provide the file number of that original pending application, if known.

TYPE OF SERVICE

Item 20 This item seeks information about the nature of service requested.

Item 21 This item indicates whether or not the applicant will operate this station as a common carrier.

Item 22 All earth station applications must identify whether or not U.S. licensed satellites are used. Check both boxes if this earth station will operate with both U.S. and foreign licensed satellites. If the earth station will operate with a non-U.S. licensed satellite, be sure to complete Item B3 on Schedule B.

Item 23 Only those applicants providing INTERNATIONAL COMMON CARRIER service need to indicate whether or not this facility is connected to the Public Switched Network. Appropriate Section 214 filings are required. See 47 CFR Part 63 of the Commission Rules.

Item 24 The proposed frequency band(s) are specified in this item. All C-band (4/6 GHz) earth stations require successful prior radio frequency coordination for both Fixed and Temporary-Fixed (including Satellite News-Gathering) operations. See Items B6, B11, and B12 on Schedule B.

TYPE OF STATION

Item 25 This item identifies the class of station to be placed in service. Mark only one box. Transportable Satellite News-Gathering (SNG) trucks fall under the category "Temporary-Fixed Earth Station."

Item 26 This item identifies whether the earth station transmits and/or receives.

PURPOSE OF MODIFICATION OR AMENDMENT

Note: An application that revises the data on a previous application that has NOT YET BEEN GRANTED is an "Amendment", whereas an application that revises the data on a previously GRANTED application (license or registration) is a "Modification". Existing authorizations are "modified" while pending applications are "amended".

Item 27 Purpose of the proposed modification or amendment highlights the various types of modifications or amendments generally requested. Mark all that apply. Provide the revised earth station data on Schedule B (see Earth Station Modifications section above).

ENVIRONMENTAL POLICY

Item 28 This item is required for compliance with the National Environmental Policy Act of 1969, as amended, 42 U.S.C. 4321-4335. See also Part 1, Subpart I of the FCC rules (47 CFR 1.1301-1.1319). Examples of facilities that may have a significant effect on the environment include:

- o an antenna structure located in a residential area (as defined by applicable zoning laws) which will utilize high intensity aviation obstruction lighting
- a facility located in an officially designated wilderness area, wildlife preserve or floodplain
- a facility that affects a site significant in American history
- a facility, the construction of which involves extensive changes in surface features

A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, and major amendments as Exhibit B. For information on preparing this study, consult OET Bulletin 65.

ALIEN OWNERSHIP

Items 29-34 These items request information that will enable the FCC to determine whether an applicant is eligible under Section 310 of the Communications Act of 1934, as amended, to hold a station license. 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.

BASIC QUALIFICATIONS

Items 35-42 These items request information that enables the FCC to determine whether an applicant is basically qualified to hold an FCC authorization. Item 40 applies only to applicants for Space Station authorizations.

<u>Item 43</u> Provide a summary of the nature of the application and services to be provided.

CERTIFICATION

Items 44-48 To be acceptable for filing, applications, amendments, modifications and registrations must be signed in accordance with Part 1 of the FCC rules. The signer must be a person authorized to sign the application. Paper originals of applications must bear an original signature. Neither rubber-stamped nor photocopied signatures are acceptable.

SPECIFIC INSTRUCTIONS FOR SCHEDULE A
Consent to Assignment of License/Transfer of Control
Notification of Assignment or Transfer of Control of
Receive-Only Registration

PURPOSE OF FILING

Schedule A and the Main Form must be completed when requesting Consent to Assignment of License or Transfer of Control. Schedule A and the Main Form must be used when notifying the FCC of a completed Assignment of Receive-Only Registration or of a completed Transfer of Control of Receive-Only Registration. The Main Form and Schedule A collects information about the parties to the transaction in order to determine whether the requested consent, governed by 47 CFR Part 25, serves the public interest. The Main Form is to be completed by the prospective licensee or registrant in the case of an assignment (assignee) or the new controlling entity in the case of a transfer of control (transferee). Schedule A is to be completed by all involved parties.

Items A1-A9 and A22-A25 must be completed by the current licensee or registrant.

Items Alo-Al4 and A26-A29 must be completed by the entity assigning or transferring the license or registration (assignor/transferor) if different from the licensee or registrant.

Items A15-A21 and A30-A33 must be completed by the assignce/transferee.

SPECIFIC INSTRUCTIONS FOR SCHEDULE B

Technical and Operational Description of Earth Station(s)

PURPOSE OF FILING

Schedule B is used for all earth station filings that do not involve Assignments or Transfers of Control. Schedule B and the Main Form must be completed when filing for both licenses and registrations for all new earth stations, all amendments to pending earth station applications, and all modifications to existing earth station authorizations. This includes VSAT networks. Schedule B collects technical and operational information relevant to the earth station.

LOCATION OF EARTH STATION SITE

Item B1a-B11 identifies the location of the fixed earth station both by address and geographic coordinates; and the area of operation for temporary-fixed, mobile, and VSAT remote earth stations. For fixed earth stations, indicate whether the geographic coordinates are based on the North American Datum (NAD) of 1927 or 1983. Until further notice, you must provide the geographic coordinates based upon NAD-27. See FCC Public Notice, DA 92-1188 (released September 1, 1992).

Item B1b should be completed only when the application involves a VSAT network. The site identifier is used to identify the various parts of the VSAT network. The applicant should assign a unique identifier to each hub station and each remote variant that is part of a VSAT network (e.g., "HUB", "REMOTE1", "REMOTE2", etc.). Each hub station and each remote variant of a VSAT network must have its own completed Page 1 of Schedule B. The Points of Communications (Item B2) and Destination Points (Item B3) must be completed individually for each hub station and each remote variant.

POINTS OF COMMUNICATIONS

Item B2 This is the list of satellites with which the earth station will communicate. If the earth station will communicate only with U.S. licensed satellites, then "ALSAT" is the notation needed under item B2. If, however, the earth station will operate with satellites licensed by countries other than the U.S.A., each and every non-U.S. licensed satellite must be individually listed here. If the earth station will operate with both U.S. licensed satellites and non-U.S. licensed satellites, include the notation "ALSAT" to cover the U.S. licensed satellites and then list each non-U.S. licensed satellite individually.

Item B6, Frequency Coordination Limits, must also be completed to indicate the satellite orbital arc range and frequency band limits over which the satellites will operate. This applies to both U.S. licensed and non-U.S. licensed satellite systems. Any authorization issued for the earth station will be valid only in the orbital arc range and frequency band range specified in Item B6.

DESTINATION POINTS

Item B3 This is a list of all countries that the earth station will provide service to using non-U.S. licensed satellites. The countries for each non-U.S. licensed satellite must be listed separately. The ITU 3-letter country codes as specified in Table B1 to the Preface of the ITU's International Frequency List may be used to identify the countries to which service will be provided.

EARTH STATION ANTENNA FACILITIES

Item B4a Site IDs should be provided only for applications relating to VSAT networks. Use the Site Identifier (Item B1b) to identify the portion of the VSAT network that each antenna belongs to.

Item B4b Applicants should assign a unique identifying number or name to each antenna. This ID should be used throughout Schedule B when referring to the frequencies, emissions, heights, satellite arcs, etc., that are associated with each antenna that comprises the earth station.

Item B4c Identify the number of units of each make and model of antenna installed at this earth station. For VSAT networks, identify the total number of units for each remote segment.

<u>Hem B4d-B4e</u> Provide the manufacturer and model number of the antenna.

Item B4f Provide the diameter of the antenna for circular aperture antennas. For elliptical aperture antennas, provide the major and minor axes diameters of the antenna and its equivalent circular electrical diameter. All units must be provided in meters.

Item B4g Provide the antenna gain and reference frequency for both the transmit and receive frequency bands. The antenna gain should be characteristic of the center frequency of the frequency band in which it operates.

ANTENNA HEIGHTS AND MAXIMUM POWER LIMITS

Item B5a See item B4b above.

Item B5b For earth station antennas that will be mounted on towers or are otherwise subject to the required FCC prior tower registration, provide the Tower ID number as listed in the FCC's Tower Database. See 47 CFR Part 17 for information concerning prior registration of towers.

Item B5c-B5d Enter the maximum overall height to the top of the antenna structure with respect to ground level and mean sea level. All units must be in meters. See Part 17 of the FCC Rules.

Item B5c-B5f If the antenna is located on a building or other structure, provide the height of the building above ground level, and the maximum height of the antenna above the top of the structure on which the antenna is located. Also attach a sketch of the site and other information required by 47 CFR Part 17.

Item BSg-BSh If the antenna transmits, provide the total input power (in Watts) at the antenna flange and the aggregate output EIRP (in dBW) for all r.f. carriers. These powers must be consistent with those provided in the Radiation Hazard Study in Exhibit B.

FREQUENCY COORDINATION LIMITS Item B6a See item B4b above.

Item B6b Provide the lower and upper frequency band limits over which the earth station has been frequency coordinated, or over which the earth station will operate.

Item B6c-B6d Provide the eastern most and western most geostationary satellite arc limits over which the earth station has been frequency coordinated, or over which the earth station will operate. For non-geostationary satellites, provide the notation "NON-GEO".

Item B6e-B6f Provide the elevation angle to the eastern most and western most geostationary satellite orbital arc limits. For non-geostationary satellites, provide the minimum elevation angle at which the earth station will operate.

Item B6g-B6h Provide the azimuth angle relative to true north to the eastern most and western most geostationary satellite orbital arc limits. For non-geostationary satellites, provide the maximum azimuthal angles at which the earth station will operate (e.g., 0-360 degrees).

Item B6i If the earth station transmits in this frequency band, provide the maximum EIRP density toward the horizon (in dBW/4kHz).

PARTICULARS OF OPERATION Item B7a See item B4b above.

Item B7b Enter the lower and upper frequency limits of the frequency band to which this emission is limited. Alternatively, provide the single center or carrier frequency of the emission.

Item B7c Indicate with a "T" or "R" whether the earth station transmits or receives this emission in this frequency hand.

Item B7d Indicate the antenna polarization used with this

<u>Item B7e</u> Enter the emission designator for the emission. (For proper emission designator format, see Section 2.201 of

the FCC Rules.)

Item B7f For transmit mode, provide the maximum EIRP, in dBW, for each r.f. carrier of the emission.

Item B7g For transmit mode, provide the maximum EIRP Density, in dBW/4kHz, for each r.f. carrier of the emission.

Item B7h Give a brief description of both the modulation and services provided by this emission. Examples of modulation include QPSK, BPSK, SCPC, etc. Examples of services include "video", "data", "voice", etc.

Items B8-B13 Generally

If the application is for a VSAT network, attach an individual Schedule B, Page 5 for each hub station and each different size or type of remote unit. Items B8-B13 require response with respect to each portion of the VSAT network. Identify the VSAT site by using the Site Identifier from Item B1b. For all other earth station applications not involving VSAT networks, respond to Items B8-B13 with respect to the earth station as a whole (i.e., with respect to all antennas that comprise the earth station).

Item B8-B9 These questions indicate compliance with the antenna sidelobe standard specified in 25.209 of the FCC Rules. FSS operations using satellites located in the geostationary satellite orbit must comply with the more stringent standard (item B8), or provide a technical analysis showing that this operation is compatible with two-degree spacing policy. Earth stations operating with nongeostationary satellites (MSS, etc.) or non-FSS operations should indicate compliance with the less stringent antenna standard (item B9).

Item B10 If the earth station is operated from a remote location, give the location and telephone number of the control point.

Item B11-B12 If the earth station operates in frequency bands that are shared with other radio services, such as the C band (4/6 GHz), frequency coordination is required. In such cases, a Frequency Coordination Report and/or Coordination Contour map is required. Also see item B6, Frequency Coordination Limits. There are several private companies that will provide frequency coordination services for hire.

Item B13 The purpose of this item is to insure adherence to all regulations concerning the safety of air travel. See 47 CFR Part 17 for requirements concerning the notification and coordination of antenna structures with the FAA. Also see 47 CFR Part 25.113(c) concerning earth station filing requirements.