FCC 312 Main Form

FORM FEDERAL COMMUNICATIONS COMMISSION Est. Avg.Burden How Per Response: 11 Hrs APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS

| Approved by OMB 3060-0678 | FCC Use Only |
|------------------------------|--------------|
| . Avg.Burden Hours | File Number: |
| Response: 11 Hrs. | Call Sign: |
| ONS | Fee Number: |

| APPLICANT INFO | ORMATION | | | |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------|--------------|--|
| 1. Legal Name of Applicant | 2 | 2. Voice Telepho | one Number | |
| 3. Other Name Used for Doing Business (if any) | 4 | 1. Fax Telephone | Number | |
| 5. Mailing Street Address or P.O. Box | 6. City | | | |
| ATTENTION: | 7. State / Country (if no | ot U.S.A.) | 8. Zip Code | |
| 9. Name of Contact Representative (If other than applicant) | 1 | 10. Voice Teleph | one Number | |
| 11. Firm or Company Name | 1 | 12. Fax Telephor | ne Number | |
| 13. Mailing Street Address or P.O. Box | 14. City | | | |
| ATTENTION: | 15. State / Country (if r | not U.S.A) | 16. Zip Code | |
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| CLASSIFICATION | | | | |
| 17. Place an "X" in the box next to the classification that applies to this filing for both questions a. and b. Mark only | one box for 17a and only one box for 17b | | | |
| b1. Application for License of New Station | b6. Transfer of Control of License or Reg | gistration | | |

| 17. Place an "X" in the box next to the classification that applies to this filing for both questions a. and b. Mark only one box for 17a and only one box for 17b. | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|--|--|--|
| | b1. Application for License of New Station | b6. Transfer of Control of License or Registration | | | | |
| a1. Earth Station | b2. Application for Registration of New Domestic Receive-Only Station | b7. Notification of Minor Modification | | | | |
| | b3. Amendment to a Pending Application | b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite | | | | |
| a2. Space Station | b4. Modification of License or Registration | b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States | | | | |
| | b5. Assignment of License or Registration | b10. Other (Please Specify): | | | | |
| 18. If this filing is in reference to | an existing station, enter: | 19. If this filing is an amendment to a pending application enter: | | | | |
| Call sign of station: | | (a) Date pending application was filed: (b) File number of pending application: | | | | |
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TYPE OF SERVICE

| 20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|
| a. Fixed Satellite c. Radiodetermination Satellite e. Direct to Home Fixed S b. Mobile Satellite d. Earth Exploration Satellite f. Digital Audio Radio Ser | | | | | | | | |
| 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 | | | | | | | |
| 23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 2 | 214 filings. Mark only one box. Are these facilities: | | | | | | | |
| a. Connected to the Public Switched Network b. Not conne | ected to the Public Switched Network | | | | | | | |
| 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) | | | | | | | | |
| TYPE OF S | STATION | | | | | | | |
| 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. | C f Other | | | | | | | |
| 26. TYPE OF EARTH STATION FACILITY Mark only one box. | | | | | | | | |
| a. Transmit/Receive b. Transmit-Only c. Receive-Only | | | | | | | | |
| PURPOSE OF MODIFICA | TION OR AMENDMENT | | | | | | | |
| 27. The purpose of this proposed modification or amendment is to: Place an "X" in the box(es) next to all that a | ipply. | | | | | | | |
| a authorization to add new emission designate b authorization to change emission designato c authorization to increase EIRP and EIRP de d authorization to replace antenna e authorization to add antenna f authorization to relocate fixed station g authorization to change assigned frequency h authorization to add Points of Communicati i authorization to change Points of Communicati j authorization for facilities for which environ k Other (Please Specify) | or and related service ensity v(ies) tion (satellites & countries) | | | | | | | |
| ENVIRONMEN | TTAL POLICY | | | | | | | |
| 28. Would a Commission grant of any proposal in this application or amendment have a significant environment. If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ A Radiation Hazard Study must accompany all applications as an exhibit for new transmitting facilities, major magnetic statements. | | | | | | | | |

ALIEN OWNERSHIP

| 29. Is the applicant a foreign government or the representative of any foreign government? | YES | □ NO | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|--|
| 30. Is the applicant an alien or the representative of an alien? | YES | □ NO | |
| 31. Is the applicant a corporation organized under the laws of any foreign government? | YES | □ NO | |
| 32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? | YES | □ NO | |
| 33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? | YES | □ NO | |
| 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 | □ NO | |
| 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. | 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 the 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 exhibit, 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, addresses, and citizenshi 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 control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the | e of fiduciary | | |
| 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, becaus 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 the substance. | e LIES | □ NO | |
| 42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. § 25.137, as appropriate. If no, proceed to question 43. | YES | □ NO | |
| 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). | |
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| Exhibit No. Identify all exhibits that are attached to this application. | |
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| CERTIFICA | TION |
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| The Applicant waives any claim to the use of any particular frequency or of the electroma the previous use of the same, whether by license or otherwise, and requests an authorization application would not cause the applicant to be in violation of the spectrum aggregation li and are incorporated herein as if set out in full in this application. The undersigned, individually application and in all attached exhibits are true, complete and correct to the best of his or like the same true. | on in accordance with this application. The applicant certifies that grant of this mit in 47 CFR Part 20. All statements made in exhibits are a material part hereof idually and for the applicant, hereby certifies that all statements made in this |
| 44. Applicant is a (an): (Place an "X" in the box next to applicable response.) | |
| a. Individual b. Unincorporated Association c. Partnership d. Corporat | ion |
| 45. Typed Name of Person Signing | 46. Title of Person Signing |
| | |
| 47. Signature | 48. Date |
| 47. Signature | 40. Date |
| | |
| 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 A Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Se | NY STATION AUTHORIZATION (U.S. Code, Title 47. |

| FEDERAI | FCC 312 - Sch (Place an "X" in one of th | | ON | | FCC Use | Only | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------|----------------------|-----------------------------------|-------------------------------------------|
| CONSENT TO TRANSFER OF C | CONTROL | CONSENT TO ASS | SIGNMENT OF I | LICENSE | | | | |
| OF RECEIVE ONLY REGISTRA | R OF CONTROL | NOTIFICATION O OF RECEIVE ONL | F ASSIGNMEN LY REGISTRATI | Γ ION | | | | |
| A1. Name of Licensee or Registrant | | | | | A2. Voice | Telephon | e Number | |
| A3. Mailing Street Address or P.O. Box | | | | | A4. Fax T | elephone l | Number | |
| ATTENTION: | | | | Licaina | (10.110.1 | | T. 5 5 6 1 | |
| A5. City | | | | A6. State / Country | (if not U.S.A | 1 .) | A7. Zip Code | |
| A8. List Call Sign(s) of station(s) being assigned or tran | sfered | | | ı | | | | A9. No. of station(s) listed |
| A10. Name of Transferor/Assignor (if different than lice | ensee or registrant) | | A15. Name of Trans | feree/Assignee | | | | |
| A11. Mailing Street Address or P.O. Box | | | A16. Mailing Street | Address or P.O. Box | | | | |
| A12. City | A13. State/Country | A14. Zip Code | A17. City | | | A18. Stat | te/Country | A19. Zip Code |
| A20. If these facilities are licensed, is the tra If Yes, attach as an exhibit, a statemen identifies the nature and extent of contra entity and any intermediate subsidiarie equity stock of those stockholders hold | t (including organization of the first including: (1) the first or parties; and (2) the | ional diagrams where a name, address, citizens names, addresses, ci | appropriate) which hip, and primary b tizenship, and the | fully and comple ousiness of the corpercentages of vo | ntrolling | | YES | NO |
| A21. If these facilities are licensed, attach as | an exhibit, a complet | e statement setting for | th the facts which | show how the ass | ignment o | or transfe | r will serve th | ne public interest. |
| | | | ICATION | | | | | |
| 1. The undersigned, individually and for lice are true, complete and correct to the best of I complete and constitute the full agreement. | nsee, certifies that all nis/her knowledge and | attached exhibits perti l belief. The undersign | nent to Schedule Aned also certifies the | A and all statement that any contracts of | ts made in or other in | n Schedu istrumen | le A of this ap ts submitted h | pplication erewith are |
| 2. The undersigned represents that stock will control or assignment of license will be comwithin 30 days of consummation. | not be delivered and pleted within 60 days | that control will not be of Commission conser | e transferred until to the undersigned | the Commission's ed also acknowled | consent l lges that t | has been he Comr | received, but nission must b | that transfer of be notified by letter |
| A22. Printed Name of Licensee (Must agree with A1) | A23. Signature | | | A24. Titl | e (Office He | eld by Pers | on Signing) | A25. Date |
| A26. Printed Name of License Transferor/Assignor (If different than licensee. Must agree with A10) | A27. Signature | | | A28. Titl | e (Office He | eld by Pers | on Signing) | A29. Date |
| A30. Printed Name of License Transferee/Assignee (Must agree with A15) | A31. Signature | | | A32. Titl | e (Office He | eld by Pers | on Signing) | A33. Date |

| FCC 312 Schedule B | | FEDERAL CO ATELLITE EA (Technica | ARTH STAT | | ORIZATIONS ription) | S | Pag | ge 1: Location |
|-------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|------------------------------------------|
| License of New Station | Registration of New Domestic Receive-Only Statio | Amandman | nt to a Pending A | | Modification of I | License/Registr | ation Notification of M | Minor Modification |
| B1. Location of Earth Sta | tion Site. If temporary-fixed, For VSAT networks Location, Points of | nobile, or VSAT attach individua Communications. | remote facilit I Schedule B, I and Destination | y, specify area Page 1 sheets for on Points for ea | of operation and or each hub stati ach hub and rem | d point of contion and each anote station. | ntact. If VSAT hub station remote station. Individual | n, give its location. lly provide the |
| B1a. Station Call Sign | B1b. Site Identifier (HUB, REMOTI | | , | B1c. Telephone I | | | raphic Coordinates N/S, Deg Min Sec E/W | |
| B1d. Street Address of Station or A | Larea of Operation | B1e. | Name of Contact | l Person | | Lat | | NAD-27 |
| B1f. City | B1g. (| County | 1 | B1h. State | B1i. Zip Code | • | B11. Site Elevation (AMSL) | meters |
| B2. Points of Communica | tions: List the names and orbi | locations of all so | satellites with tellite facilities | which this earth s licensed by th | n station will co e U.S. All non- | mmunicate. ' -U.S. licensed | The entry "ALSAT" is suf I satellites must be listed i | ficient to ndividually. |
| Satellite Name and Orb | it Location | Satellite Nan | ne and Orbit | Location | | Satellite Na | ame and Orbit Location | |
| | | | | | | | | |
| | | | | | | | | |
| B3. Destination points for | communications using non-ldes sate | J.S. licensed sate tination point(s) ellite system. Use | ellites. For each (countries) when additional sh | ch non-U.S. lice ere the services eets as needed. | ensed satellite fa s will be provide | acility identified by this ear | ied in section B2 above, sp th station via each non-U. | pecify the S. licensed |
| Satellite Name | List of Destination | Points | | | | | | |
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FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS

FCC Form 312 - Schedule B: (Technical and Operational Description)

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

| (a) Site ID* | (b) Antenna ID** | (c) Quantity | (d) Manufacturer | (e) Model | (f) Antenna Size (meters) | (g) Antenna Gain Transmit and/or Receive (dBi at GHz) |
|--------------|---------------------|-----------------|------------------|-----------|---------------------------------|--------------------------------------------------------|
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B5. Antenna Heights and Maximum Power Limits: (The corresponding Antenna ID in tables B4 and B5 applies to the same antenna)

| | | | 1 8 | | · | * | · · · · · · · · · · · · · · · · · · · |
|------------------------|-------------------------------------------|-----------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------|
| (a) Antenna ID** | (b) Antenna Structure Registration No. | Maximum Ai (c) Above Ground Level (meters) | (d) Above Mean Sea Level (meters) | (e) Building Height Above Ground Level (meters)*** | (f) Maximum Antenna Height Above Rooftop (meters)*** | (g) Total Input Power at antenna flange (Watts) | (h) Total EIRP for all carriers (dBW) |
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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.

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

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

| (a) Antenna ID* | (b) Frequency Limits (MHz) | (c) Range of Satellite Arc Eastern Limit** | (d) Range of Satellite Arc Western Limit** | (e) Antenna Elevation Angle Eastern Limit | (f) Antenna Elevation Angle Western Limit | (g) Earth Station Azimuth Angle Eastern Limit | (h) Earth Station Azimuth Angle Western Limit | (i) Maximum EIRP Density toward the Horizon (dBW/4kHz) |
|-----------------------|----------------------------|--------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|
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Notes: * Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and orbital arc range is associated.

^{**} If operating with geostationary satellites, give the orbital arc limits and the associated elevation and azimuth angles. If operating with non-geostationary satellites, give the notation "NON-GEO" for the satellite arc 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)

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

| (a) Antenna ID* | (b) Frequency Bands (MHz) | | (f) Maximum EIRP per Carrier (dBW) | (h) Description of Modulation and Services |
|-----------------------|---------------------------|--|------------------------------------------|--------------------------------------------|
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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.

Page 5: Questions

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

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

| | • | | | _ | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------|--|---|--|------------|------|--|
| B8. 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 measurements? If NO, provide as an exhibit, a technical analysis showing compliance with two-degree spacing policy. | | | | | | ☐ YES | □ NO | |
| 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? | | | | | | ☐ YES | □ NO | |
| B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. Remote Control Point Location: | | | | | | YES | □ NO | |
| B10a. Street Address | | | | | | | | |
| | | | | | | | | |
| | B10b. City | b. City B10c. County B10d. State / Country | | | | | Code | |
| | B10f. Telephone Number B10g. Call Sign of Control Station (if appropriate) | | | | | | | |
| B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. | | | | | | YES | □ NO | |
| B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. | | | | | | YES | □ NO | |
| 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? | | | | | | YES | □ NO | |
| FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | | | | | | | | |

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 stations should be mailed to:

Federal Communications Commission International Bureau-Earth Station P.O. Box 358160 Pittsburgh, Pennsylvania 15251-5160

Completed applications concerning space stations should be mailed to:

Federal Communications Commission International Bureau-Space Station P.O. Box 358210 Pittsburgh, Pennsylvania 15251-5210

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

Federal Communications Commission c/o Mellon Bank Three Mellon Bank Center 535 William Penn Way 27th Floor, Room 153-2713 Pittsburgh, Pennsylvania (Attn: Wholesale Lockbox Shift Supervisor).

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.

Paperwork Reduction and Privacy Act Notice

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 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.

Public reporting burden for this collection is estimated to be 11 hours 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.

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.

<u>Item 18</u> 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

<u>Item 20</u> 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 <u>Earth Station Modifications</u> 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
- o a facility located in an officially designated wilderness area, wildlife preserve or floodplain
- o a facility that affects a site significant in American history
- o 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

<u>Items 35-42</u> 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 <u>and</u> the Main Form must be completed when requesting Consent to Assignment of License or Transfer of Control. Schedule A <u>and</u> 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.

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

<u>Items A10-A14 and A26-A29</u> must be completed by the entity assigning or transferring the license or registration (assignor/transferor) if different from the licensee or registrant.

<u>Items A15-A21 and A30-A33</u> must be completed by the assignee/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.

<u>Item B4c</u> 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>Item 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.

<u>Item B5c-B5d</u> 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 B5e-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 B5g-B5h 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.

<u>Item B6b</u> 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).

<u>Item B6i</u> 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.

<u>Item B7b</u> 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.

<u>Item B7c</u> Indicate with a "T" or "R" whether the earth station transmits or receives this emission in this frequency band.

Item B7d Indicate the antenna polarization used with this emission.

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

the FCC Rules.)

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

<u>Item B7g</u> 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 <u>all</u> 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).

<u>Item B10</u> 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.