

Sample Application for License of New Ku-Band Transmit/Receive Earth Station Using U.S. & Non-U.S. Licensed Satellites

<p>FCC 312 Main Form</p> <p align="center">FEDERAL COMMUNICATIONS COMMISSION</p> <p align="center">APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS</p>	Approved by OMB 3060-0678 Est. Avg. Burden Hours Per Response: 11 Hrs.	FCC Use Only File Number: Call Sign: Fee Number:
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APPLICANT INFORMATION E-Mail: susanqpublic@fcc.gov

1. Legal Name of Applicant Satellite Earth Station Company, Inc.		2. Voice Telephone Number (202) 555-2222	
3. Other Name Used for Doing Business (if any) d/b/a International FSS, Inc.		4. Fax Telephone Number (202) 555-3333	
5. Mailing Street Address or P.O. Box 1919 M Street, N.W.		6. City Washington	
ATTENTION: Susan Q. Public		7. State / Country (if not U.S.A.) DC / USA	8. Zip Code 20554
9. Name of Contact Representative (If other than applicant) David M. Everyman, Esq.		10. Voice Telephone Number (202) 555-1111	
11. Firm or Company Name Offices of David M. Everyman		12. Fax Telephone Number (202) 555-4444	
13. Mailing Street Address or P.O. Box 2000 M Street, N.W. Suite 880		14. City Washington	
ATTENTION: Susan Q. Lawyer		15. State / Country (if not U.S.A.) DC / USA	16. Zip Code 20554

E-Mail: susanqlawyer@fcc.gov

CLASSIFICATION OF FILING

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.			
<input checked="" type="checkbox"/> a1. Earth Station <input type="checkbox"/> a2. Space Station	<input checked="" type="checkbox"/> b1. Application for License of New Station <input type="checkbox"/> b2. Application for Registration of New Domestic Receive-Only Station <input type="checkbox"/> b3. Amendment to a Pending Application <input type="checkbox"/> b4. Modification of License or Registration <input type="checkbox"/> b5. Assignment of License or Registration	<input type="checkbox"/> b6. Transfer of Control of License or Registration <input type="checkbox"/> b7. Notification of Minor Modification <input type="checkbox"/> b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite <input type="checkbox"/> b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States <input type="checkbox"/> b10. Other (Please Specify): _____	
18. If this filing is in reference to an existing station, enter: Call sign of station:		19. If this filing is an amendment to a pending application enter: (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(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) _____

21. STATUS: Place an "X" in the box next to the applicable status. Mark only one box.

a. Common Carrier b. Non-Common Carrier

22. If earth station applicant, place an "X" in the box(es) next to all that apply.

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. 214 filings. Mark only one box. Are these facilities:

a. Connected to the Public Switched Network b. Not connected 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) **R-10700-10950 MHz, R-11450-11700 MHz**

TYPE OF 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 d. Mobile Earth Station e. Space Station f. Other (Specify) _____

If space station applicant, go to Question 27.

26. TYPE OF EARTH STATION FACILITY Mark only one box.

a. Transmit/Receive b. Transmit-Only c. Receive-Only

PURPOSE OF MODIFICATION OR AMENDMENT

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 increase EIRP and EIRP density
 d -- authorization to replace antenna
 e -- authorization to add antenna
 f -- authorization to relocate fixed station
 g -- authorization to change assigned frequency(ies)
 h -- authorization to add Points of Communication (satellites & countries)
 i -- authorization to change Points of Communication (satellites & countries)
 j -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
 k -- Other (Please Specify) _____

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? YES NO

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 OET Bulletin 65.

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ALIEN OWNERSHIP

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
30. Is the applicant an alien or the representative of an alien?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		
41. By checking Yes, the undersigned certifies, that neither 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.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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?	Canada for ANIKs and USA for INTELSAT	

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43. Description. (Summarize the nature of the application and the services to be provided).

This is an example of an application for a new Transmit/Receive earth station. This station includes two (2) Ku-Band antennas which are used to provide analog video, digital video, and data services via U.S. licensed (ALSAT) and non-U.S. licensed satellites in various frequency bands and satellite arcs.

Exhibit No.	Identify all exhibits that are attached to this application.
A	Radiation Hazard Study
B	Frequency Coordination Report
C	FAA Notification or FCC Form 854 as appropriate
D	Section 25.137 Information on non-U.S. licensed satellites

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Place an "X" in the box next to applicable response.)

- a. Individual
 b. Unincorporated Association
 c. Partnership
 d. Corporation
 e. Governmental Entity
 f. Other (Please specify) _____

45. Typed Name of Person Signing

Susan Q. Public

46. Title of Person Signing

Chief Executive Officer

47. Signature

48. Date

October 15, 1998

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).

FCC 312 Schedule B	FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS (Technical and Operational Description) <small>(Place an "X" in one of the blocks below)</small>	Page 1: Location
<input checked="" type="checkbox"/> License of New Station <input type="checkbox"/> Registration of New Domestic Receive-Only Station <input type="checkbox"/> Amendment to a Pending Application <input type="checkbox"/> Modification of License/Registration <input type="checkbox"/> Notification of Minor Modification		

B1. Location of Earth Station Site. If temporary-fixed, mobile, or VSAT remote facility, specify area of operation and point of contact. If VSAT hub station, give its location. For VSAT networks attach individual Schedule B, Page 1 sheets for each hub station and each remote station. Individually provide the Location, Points of Communications, and Destination Points for each hub and remote station.

B1a. Station Call Sign	B1b. Site Identifier (HUB, REMOTE1, etc.) SITE1	B1c. Telephone Number	B1j. Geographic Coordinates Deg. - Min. - Sec. - N/S	B1k. Lat./Lon. Coordinates are:
B1d. Street Address of Station or Area of Operation 991234 Northwest Long Street		B1e. Name of Contact Person		Lat. 39 02 41.0 N <input checked="" type="checkbox"/> NAD-27 Lon. 076 59 07.0 W <input type="checkbox"/> NAD-83
B1f. City White Oak	B1g. County Montgomery	B1h. State MD	B1i. Zip Code 20554	B1l. Site Elevation (AMSL) 109.7 meters

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.

Satellite Name and Orbit Location	Satellite Name and Orbit Location	Satellite Name and Orbit Location
ALSAT		
ANIK-E1 @ 111.1W		
ANIK-E2 @ 107.3W		
INTELSAT 601 @ 34.5W		

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.

Satellite Name	List of Destination Points
ANIK-E1	Alaska (State of) -- United States of America, Canada, United States of America (48 contiguous states only)
ANIK-E2	Alaska (State of) -- United States of America, Canada, United States of America (48 contiguous states only)
INTELSAT 601	France, Germany (Federal Republic of), Italy, Spain, United Kingdom of Great Britain and Northern Ireland

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)
SITE1	K11.1M	1	ANTENNA COMPANY, INC.	A111KU	11.10	60.6 dBi at 11.950 GHz
						62.3 dBi at 14.250 GHz
SITE1	K9.1M	1	ANTENNA COMPANY, INC.	A091KU	9.10	59.0 dBi at 11.950 GHz
						60.4 dBi at 14.250 GHz

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

(a) Antenna ID**	(b) Antenna Structure Registration No.	Maximum Antenna Height		(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)
		(c) Above Ground Level (meters)	(d) Above Mean Sea Level (meters)				
K11.1M		14.10	123.80			500.0	89.3
K9.1M		11.30	121.00			500.0	87.4

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.

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.): **SITE1**

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.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO												
B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO												
Remote Control Point Location:														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="padding: 2px;">B10a. Street Address</td> </tr> <tr> <td style="width: 33%; padding: 2px;">B10b. City</td> <td style="width: 33%; padding: 2px;">B10c. County</td> <td style="width: 17%; padding: 2px;">B10d. State / Country</td> <td style="width: 17%; padding: 2px;">B10e. Zip Code</td> </tr> <tr> <td colspan="2" style="padding: 2px;">B10f. Telephone Number</td> <td colspan="2" style="padding: 2px;">B10g. Call Sign of Control Station (if appropriate)</td> </tr> </table>			B10a. Street Address				B10b. City	B10c. County	B10d. State / Country	B10e. Zip Code	B10f. Telephone Number		B10g. Call Sign of Control Station (if appropriate)	
B10a. Street Address														
B10b. City	B10c. County	B10d. State / Country	B10e. Zip 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.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO												

* * * **DISCLAIMER** * * *

Note that compliance with FAA Notification requirements in 47 CFR Part 17 and 47 CFR Part 25.113(c) is necessarily dependent upon the location and size of antenna structures and their proximity to airports. Earth station applicants must make a determination as to whether or not FAA Notification is required for their individual facilities on a case by case basis. This example application is for illustrative purposes only, and should not be construed to imply that FAA Notification does or does not apply to the applicant's facilities.