

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Sentinels 1A Ranging Campaign

1. Applicant

<b>Name:</b>	Universal Space Network, Inc.	<b>Phone Number:</b>	215-328-9130
<b>DBA Name:</b>		<b>Fax Number:</b>	215-328-9132
<b>Street:</b>	417 Caredean Drive Suite A	<b>E-Mail:</b>	jgreet@uspacenet.com
<b>City:</b>	Horsham	<b>State:</b>	PA
<b>Country:</b>	USA	<b>Zipcode:</b>	19044
<b>Attention:</b>	Joanne Greet		-

SES-STA-20150213-00080

Call Sign None Grant Date 3-13-15  
(or other identifier)

Term Dates  
From 3-13-15 To 3-21-15

Approved: Paul E. Hlaas



GRANTED  
International Bureau

**2. Contact**

**Name:** Universal Space Network, Inc.      **Phone Number:** 215-328-9130  
**Company:**      **Fax Number:** 215-328-9132  
**Street:** 417 Caredean Drive      **E-Mail:** jgreet@uspacenet.com  
Suite A  
**City:** Horsham      **State:** PA  
**Country:** USA      **Zipcode:** 19044      -  
**Attention:**      **Relationship:** Same

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number or Submission ID

4a. Is a fee submitted with this application?

If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity     Noncommercial educational licensee

Other (please explain):

4b. Fee Classification    CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant       Change Station Location       Other

6. Requested Use Prior Date  
03/11/2015

7. CityNorth Pole      8. Latitude  
(dd mm ss.s h)    64 48 15.3 N

9. State AK	10. Longitude (dd mm ss.s h) 147 30 0.8 W
11. Please supply any need attachments. Attachment 1: Form 312 Sentinels      Attachment 2: Waiver      Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Sentinels-1A ranging campaign to test station for support of the Sentinels-2A mission scheduled for launch in May 2015. Comsearch coordination study to be provided separately.	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes.      Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Joanne Greet	15. Title of Person Signing Manager of Compliance
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 NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to [PRA@fcc.gov](mailto:PRA@fcc.gov). PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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

**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**

Universal Space Network, Inc. (USN)  
File No.: SES-STA-20150213-00080  
Call Sign: None

Universal Space Network, Inc. (USN) is granted special temporary authority to operate its fixed earth station in North Pole, AK, to conduct a ranging campaign of the Sentinels-1A spacecraft. Communications shall consist of ranging (tone uplink), telecommand, and telemetry of the satellite. Authority is granted under the following conditions.

1. Operations are limited to the following frequencies, emissions and power limits:

<u>Frequency</u>	<u>Emissions</u>	<u>Max.EIRP(dBW)</u>	<u>Max.EIRP Den.(dBW/4KHz)</u>
Transmitting 2075.650 MHz	400K0G1D	68	48
Receiving: 2254.099 MHz	400K0G1D		

- Operations must comply with the satellite operator's coordinated agreements for the Sentinels-1A spacecraft with U.S. satellite operators. If no agreements exist then operations are not permitted.
- This is not a grant of market access for the Sentinels 1A spacecraft.
- Operations, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station(s). USN shall cease transmission(s) immediately upon notice of such interference and report the interference to the FCC point of contact Paul.Blais@fcc.gov, 202-418-7274 within 24 hours of occurrence.
- Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future USN applications.
- Any action taken or expense incurred as a result of operations pursuant to this STA is solely at USN's risk.
- This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.



File No. SES-STA-20150213-00080

Call Sign None Grant Date 3-13-15  
(or other identifier)

From 3-13-15 Term Dates To 3-21-15

Approved Paul E. Blais

**Exhibit C**  
**PETITION FOR WAIVER OF SECTION 25.137 AND 25.114 AND OF**  
**THE U.S. TABLE OF FREQUENCY ALLOCATIONS**

**I. TO THE EXTENT THEY APPLY, GOOD CAUSE EXISTS FOR A WAIVER OF CERTAIN PORTIONS OF SECTIONS 25.137 AND 25.114**

Universal Space Network, Inc. (USN) is provided limited legal and technical information for the Sentinels-1A Satellite.<sup>1</sup> Pursuant to Section 25.137 of the Federal Communications Commission's ("Commission" or "FCC") rules, the same technical information required by Section 25.114 for U.S.-licensed space station, and certain legal information, must be submitted by earth station applicants "requesting authority to operate with a non-U.S. licensed space station to serve the United States..."<sup>2</sup> USN seeks authority to support the ranging campaign of Sentinels-1A, not commercial service to the United States, and thus believes that Section 25.137 does not apply.

To the extent the Commission determines, however, that USN's request for authority to provide a ranging campaign on a special temporary basis is a request to serve the United States with a non-U.S.-licensed satellite, USN respectfully requests a waiver of Sections 25.137 and 25.114 of the Commission's rules, to the extent that USN has not herein provided the information required by these rules.<sup>3</sup> The Commission may grant a waiver for good cause shown.<sup>4</sup> A waiver is therefore appropriate if special circumstances warrant a deviation from the general rule, and such a deviation will serve the public interest.

In this case, good cause for a waiver of portions of Section 25.114 exists. USN seeks authority only to conduct a ranging campaign for Sentinels-1A. Thus, any information sought by Section 25.114 that is not relevant to the ranging – e.g., antenna patterns, energy and propulsion and orbital debris - USN does not have. In addition, USN would not easily be able to obtain such information because USN is not the operator of the Sentinels-1A satellite, nor is USN in contractual privity with that operator. Rather, USN has contracted with Swedish Space Corporation, Solona Sweden (SSC) to support the ranging portion in S-Band of the Sentinels-1A satellite in preparation of the Sentinels-2A satellite being launch in May 2015.

As evidenced by the Comsearch report attached to this request, USN has coordinated the test of the Sentinels-1A satellite with potentially affected terrestrial operators. Moreover, as with any STA, USN will conduct the test on an unprotected, non-interference basis to government operations.

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<sup>1</sup> FCC Form 312 Section B

<sup>2</sup> 47 C.F.R. § 25.137(a)

<sup>3</sup> 47 C.F.R. §§25.137 and 25.114

<sup>4</sup> 47 C.F.R. §1.3

Because it is not relevant to the service for which USN seeks authorization, and because obtaining the information would be a hardship, USN seeks a waiver of all the technical and legal information required by Section 25.114, to the extent it is not provided herein. As noted above, USN has provided the required information to the extent that it is relevant to the ranging service for which USN seeks authorization.

Good cause also exists to waive portions of Section 25.137, to the extent the information required is not herein provided. Section 25.137 is designed to ensure that “U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services” in other countries. Here, there is no service being provided by the satellite; USN is providing TT&C while the satellite is on the way to its low earth orbit. Thus, the purpose of the information required by Section 25.137 is not implicated here. For example, Section 25.137(d) requires earth station applicants requesting authority to operate with a non-U.S.-licensed space station that is not in orbit and operating to post a bond.<sup>5</sup> The underlying purpose in having to post a bond – i.e., to prevent warehousing of orbital locations by operators seeking to serve the United States – would not be served by requiring USN to post a bond in order to conduct the 7 days of LEOP support of the Sentinels-1A satellite.

It is USN’s understanding that Sentinels-1A is licensed by ESA (European Space Agency). Sentinels-1A is the first of the series spacecraft meant to serve the EU. Thus, the purpose of Section 25.137 – to ensure that U.S. satellite operators enjoy “effective competitive opportunities” to serve foreign markets and to prevent warehousing of orbital locations service the United States – will not be undermined by grant of this waiver request.

Finally, USN notes that it expects to communicate with the Sentinels-1A satellite using its U.S. earth station for a period of 60 days. Requiring USN to obtain technical and legal information from an unrelated party, where there is no risk of interference and the operation will cease within 60 days would pose undue hardship without serving underlying policy objectives. Given these particular facts, the waiver sought herein is appropriate.

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<sup>5</sup> 47 C.F.R. §25.137(d)(4)

## II. GOOD CAUSE EXISTS FOR A WAIVER OF THE UNITED STATES TABLE OF FREQUENCY ALLOCATIONS

USN further requests a waiver of the United States Table of Frequency Allocations ("U.S. Table") as described in section 2.106 of the rules for the frequency bands 2025 – 2110 MHz (Earth-to-Space) and 2200 – 2290 MHz (Space-to-Earth).<sup>6</sup> Section footnotes allow for non-federal Government use of these bands in the United States on a case-by-case non-interference basis. Such use by USN necessitates a waiver of the U.S. Table.

Good cause exists to grant USN a limited waiver of the U.S. Table to allow the ranging support of the Sentinels-1A satellite. In considering request for case-by-case spectrum uses, the Commission has indicated that it would generally grant such waivers "where there is little potential for interference into any service authorized under the Table of Frequency Allocations and when the case-by-case operator accepts any interference from authorized services."<sup>7</sup> USN will coordinate with other parties operating communication systems in compliance with the Table of Frequency Allocations to ensure that no harmful interference is caused. USN seeks to operate only pursuant to special temporary authorization and thus agrees to accept any interference from authorized services. In summary, USN's operation on a non-interference, non-protected basis support waiver of the U.S. Table.

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<sup>6</sup> 47 C.F.R. §2.106

<sup>7</sup> Previously approved STA's for Universal Space Network SES-STA-20020725-01174; SES-STA-20021112-02008; SES-STA-20040315-00475



**FCC 312**  
Main Form

**FEDERAL COMMUNICATIONS COMMISSION**

**APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS**

FCC Use Only  
File Number:  
Call Sign:  
Fee Number:

Approved by OMB  
3000-0678  
Est. Avg Burden Hours  
Per Response: 11 Hrs.

**APPLICANT INFORMATION**

1. Legal Name of Applicant Universal Space Network, Inc.		2. Voice Telephone Number 215-328-9130	
3. Other Name Used for Doing Business (if any)		4. Fax Telephone Number 215-328-9132	
5. Mailing Street Address or P.O. Box 417 Caredean Drive, Suite A ATTENTION: Joanne Greet 215-328-9130 phone		6. City Horsham	8. Zip Code 19044
9. Name of Contact Representative (if other than applicant)		7. State / Country (if not U.S.A.) PA	
11. Firm or Company Name		10. Voice Telephone Number	
13. Mailing Street Address or P.O. Box		12. Fax Telephone Number	
ATTENTION:		14. City	
		15. State / Country (if not U.S.A.)	
		16. Zip Code	

**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"/> b1. Application for License of New Station	<input type="checkbox"/> b6. Transfer of Control of License or Registration
<input type="checkbox"/> a2. Space Station	<input type="checkbox"/> b2. Application for Registration of New Domestic Receive-Only Station	<input type="checkbox"/> b7. Notification of Minor Modification
	<input type="checkbox"/> b3. Amendment to a Pending Application	<input type="checkbox"/> b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
	<input type="checkbox"/> b4. Modification of License or Registration	<input type="checkbox"/> b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
	<input type="checkbox"/> b5. Assignment of License or Registration	<input checked="" type="checkbox"/> b10. Other (Please Specify): Application to request Special Temporary Authority

18. If this filing is in reference to an existing station, enter:  
Call sign of station: N/A  
 (a) Date pending application was filed:  
 (b) File number of pending application:

19. If this filing is an amendment to a pending application enter:  
 (a) Date pending application was filed:  
 (b) File number of pending application:

**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.

<input type="checkbox"/>	a. Fixed Satellite	<input type="checkbox"/>	c. Radiodetermination Satellite	<input type="checkbox"/>	e. Direct to Home Fixed Satellite
<input type="checkbox"/>	b. Mobile Satellite	<input type="checkbox"/>	d. Earth Exploration Satellite	<input checked="" type="checkbox"/>	f. Digital Audio Radio Service
				<input checked="" type="checkbox"/>	g. Other (please specify) <u>LEOP</u>

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

<input type="checkbox"/>	a. Common Carrier	<input checked="" type="checkbox"/>	b. Non-Common Carrier
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22. If earth station applicant, place an "X" in the box(es) next to all that apply.

<input type="checkbox"/>	a. Using U.S. licensed satellites	<input checked="" type="checkbox"/>	b. Using Non-U.S. licensed satellites
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23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Mark only one box. Are these facilities:

<input type="checkbox"/>	a. Connected to the Public Switched Network	<input type="checkbox"/>	b. Not connected to the Public Switched Network
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24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).

<input type="checkbox"/>	a. C-Band (4/6 GHz)	<input type="checkbox"/>	b. Ku-Band (12/14 GHz)	<input checked="" type="checkbox"/>	c. Other (Please specify) <u>S-band</u>
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**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.

<input checked="" type="checkbox"/>	a. Fixed Earth Station	<input type="checkbox"/>	b. Temporary-Fixed Earth Station	<input type="checkbox"/>	c. 12/14 GHz VSAT Network	<input type="checkbox"/>	d. Mobile Earth Station	<input type="checkbox"/>	e. Space Station	<input type="checkbox"/>	f. Other (Specify) _____
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If space station applicant, go to Question 27.

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

<input checked="" type="checkbox"/>	a. Transmit/Receive	<input type="checkbox"/>	b. Transmit-Only	<input type="checkbox"/>	c. Receive-Only
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**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.

<input type="checkbox"/>	a -- authorization to add new emission designator and related service
<input type="checkbox"/>	b -- authorization to change emission designator and related service
<input type="checkbox"/>	c -- authorization to increase EIRP and EIRP density
<input type="checkbox"/>	d -- authorization to replace antenna
<input type="checkbox"/>	e -- authorization to add antenna
<input type="checkbox"/>	f -- authorization to relocate fixed station
<input type="checkbox"/>	g -- authorization to change assigned frequency(ies)
<input type="checkbox"/>	h -- authorization to add Points of Communication (satellites & countries)
<input type="checkbox"/>	i -- authorization to change Points of Communication (satellites & countries)
<input type="checkbox"/>	j -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
<input checked="" type="checkbox"/>	k -- Other (Please Specify) <u>N/A</u>

**ENVIRONMENTAL POLICY**

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of 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.

<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
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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 type="checkbox"/> NO
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="checkbox"/> YES	<input 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 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 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 checked="" type="checkbox"/> YES	<input 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 type="checkbox"/> YES	<input checked="" 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?	International Telecommunication Union	



**FEDERAL COMMUNICATIONS COMMISSION**

**FCC 312 - Schedule A**

(Place an "X" in one of the blocks below)

**CONSENT TO TRANSFER OF CONTROL**       **CONSENT TO ASSIGNMENT OF LICENSE**  
 **NOTIFICATION OF TRANSFER OF CONTROL**       **NOTIFICATION OF ASSIGNMENT**  
 **OF RECEIVE ONLY REGISTRATION**                       **OF RECEIVE ONLY REGISTRATION**

FCC Use Only

A1. Name of Licensee or Registrant		A2. Voice Telephone Number	
A3. Mailing Street Address or P.O. Box		A4. Fax Telephone Number	
ATTENTION:		A7. Zip Code	
A5. City	A6. State / Country (if not U.S.A.)	A9. No. of station(s) listed	
A8. List Call Sign(s) of station(s) being assigned or transferred			
A10. Name of Transferor/Assignor (if different than licensee or registrant)			
A15. Name of Transferee/Assignee			
A16. Mailing Street Address or P.O. Box			
A12. City	A13. State/Country	A17. City	A18. State/Country
		A14. Zip Code	A19. Zip Code
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.			
		<input type="checkbox"/> <b>YES</b>	<input type="checkbox"/> <b>NO</b>
A21. If these facilities 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**

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.		A24. Title (Office Held by Person Signing)		A25. Date
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.		A28. Title (Office Held by Person Signing)		A29. Date
A22. Printed Name of Licensee (Must agree with A1)	A23. Signature	A32. Title (Office Held by Person Signing)		A33. Date
A26. Printed Name of License Transferor/Assignor (if different than licensee. Must agree with A10)	A27. Signature	A32. Title (Office Held by Person Signing)		A33. Date
A30. Printed Name of License Transferee/Assignee (Must agree with A15)	A31. Signature	A32. Title (Office Held by Person Signing)		A33. Date









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.): N/A -not VSAT network

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 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 checked="" 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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO												
<p style="text-align: center;"><b>Remote Control Point Location:</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">B10a. Street Address 417 Caredean Drive, Suite A</td> <td style="width: 30%; padding: 2px;">B10c. County Montgomery</td> <td style="width: 40%; padding: 2px;">B10d. State / Country PA</td> </tr> <tr> <td style="padding: 2px;">B10b. City Horsham</td> <td colspan="2" style="padding: 2px;">B10e. Zip Code 19044</td> </tr> <tr> <td colspan="3" style="padding: 2px;">B10f. Telephone Number 215-328-9130</td> </tr> <tr> <td colspan="3" style="padding: 2px;">B10g. Call Sign of Control Station (if appropriate)</td> </tr> </table>		B10a. Street Address 417 Caredean Drive, Suite A	B10c. County Montgomery	B10d. State / Country PA	B10b. City Horsham	B10e. Zip Code 19044		B10f. Telephone Number 215-328-9130			B10g. Call Sign of Control Station (if appropriate)		
B10a. Street Address 417 Caredean Drive, Suite A	B10c. County Montgomery	B10d. State / Country PA											
B10b. City Horsham	B10e. Zip Code 19044												
B10f. Telephone Number 215-328-9130													
B10g. Call Sign of Control Station (if appropriate)													
B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit.	<input type="checkbox"/> YES <input checked="" 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?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO												

**FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.**