Date & Time Filed: Jun 22 2005 9:54:30:326AM File Number: SES-MOD-INTR2005-01368

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

E000358 MOD

–8. Legal Name of A	pplicant		
Name:	Vyvx, LLC	Phone Number:	918–547–9140
DBA Name:		Fax Number:	918–547–9446
Street:	One Technology Center	E-Mail:	Kathy.Hough@wiltel.com
	15L		
City:	Tulsa	State:	OK
Country:	USA	Zipcode:	74103 –
Attention	Kathy L Hough		

9–16. Name of Contact Representative

Name: Kathy L Hough Phone Number: 918–547–9140

Company: Vyvx, LLC Fax Number: 918–547–9446

Street: One Technology Center E–Mail: Kathy.Hough@wiltel.com

15L

City: Tulsa State: OK

Country: USA Zipcode: 74103–

Attention: Kathy L Hough **Relationship:** Same

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

17c. Is a fee submitted with this applicati						
If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).						
O Governmental Entity O Noncomme	Governmental Entity Noncommercial educational licensee					
Other(please explain):						
17d.						
Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station						
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending an modification please enter only the file number:	oplication enter both fields, if this filing is a				
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:				
E000358		SESLIC2000071801174				

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	e or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
_	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	■ Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER sfacilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a	Public Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	pplicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper: (Please specify addition	nal frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.	
a. Fixed Earth Station	
• b. Temporary–Fixed Earth Station	
c. 12/14 GHz VSAT Network	
d. Mobile Earth Station	
e. Geostationary Space Station	
f. Non–Geostationary Space Station	
g. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY:	
Transmit/Receive Transmit-Only Receive-Only N/A	
"For Space Station applications, select N/A."	

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & p; countries)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.

O Yes O No

В

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?

Yes No

30. Is the applicant an alien or the representative of an alien?

O Yes O No O N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes No N/A

32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

O Yes O No O N/A

		
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes •	No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	• Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
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.	O Yes	⊚ No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, w coordinated or is in the process of coordinating the space station?	hat administr	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description box, please go to the end of the form to view it in its entirety.)	on does not aj	ppear in this
Common Carrier ad-hoc and/or full time analog, digital, video and/or data. ${ m C}$		

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.

	<u> </u>
44. Applicant is a (an): (Choose the button next to applicable response.)	
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 	
45. Name of Person Signing Adam Kupetsky >	46. Title of Person Signing Director, Regulatory Affairs

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth St	tation Site					
E1: Site Identifier:	E000358 MOD	E5. Call Sign:	E000358			
E2: Contact Name	Cary McDaniel	E6. Phone Number:	404-325-2272			
E3. Street:	1802 Briarcliff Road	E7. City:	Atlanta			
		E8. County:	Dekalb			
E4. State	GA	E9. Zip Code	30329			
E10. Area of Opera	tion:	Atlanta Earth Statio	n			
E11. Latitude:	33 °48 '25.4 "N					
E12. Longitude:	84 °20 '27.7 "W					
E13. Lat/Lon Coord	dinates are:	O NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	262.2 meters				
[

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Se Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the loca point.	ntion and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as A	Yes	0	No
E19. Is coordination with another country required? If YES, attach the recoordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(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.			•	No
POINTS OF COMMUNICATION				-
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you s	elected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	•			·
E25. Site Identifier:				

E26. Common Name:	E27. Country:
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
E000358 MOD	4.5M	1	Andrew Corp.	ESA45T-T-1	4.5	54.9 dBi at 14
E000358 MOD	4.5M	1	Andrew Corp.	ESA45T-T-1	4.5	53.6 dBi at 11.0
E000358 MOD	5.5M	1	Satcom	550KS	5.5	55.0 dBi at 11
E000358 MOD	5.5M	1	Satcom	550KS	5.5	56.3 dBi at 14

Id	Diameter	E35. Above Ground Level (meters)	` ′	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
4.5M	0.0/0.0	5.0	267.2	0.0	250.0	0.0	78.9
5.5M	0.0/0.0	6.0	268.2	0.0	250.0	0.0	80.3

FREQUENCY

E43/44. Frequency Bands				E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)	1/K\bi>ivioue	L,R)	Designator	(dBW)	Carrier
					(dBW/4kHz)

4.5M	10950 11200	R	Horizontal and Vertical	36M0G7F	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete descri	ption does not appear	in this box, please	go to the end of t	the form to view it in its
Compressed	d Digital Vide	5				
4.5M	10950 11200	R	Horizontal and Vertical	4M00G7F	0.0	0.0
Compressed	d Digital Vide	-				
4.5M	11450 12200	R	Horizontal and Vertical	36M0G7F	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete descri	ption does not appear	in this box, please	go to the end of t	the form to view it in its
Compressed	d Digital Vide)				

4.5M	11450 12200	R	Horizontal and Vertical	4M00G7F	0.0	0.0
E50. Modulation entirety.)	and Services (If	the complete descrip	ption does not appear	in this box, please	go to the end of th	he form to view it in its
Compressed	l Digital Vide	0				
4.5M	14000 14500	Т	Horizontal and Vertical	36M0G7F	78.9	39.3
Compressed	l Digital Vide	o 				
4.5M	14000 14500	Т	Horizontal and Vertical	4M00G7F	69.3	39.3
E50. Modulation entirety.)	and Services (If	the complete descrip	ption does not appear	in this box, please	go to the end of th	he form to view it in its
Compressed	d Digital Vide	0				

4.5M	10950 11200	R	Horizontal and Vertical	36M0F3F	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete descript	ion does not appear	in this box, please	go to the end of t	he form to view it in its
Standard a	analog video w	ith associated	audio subcarr	riers		
4.5M	11450 12200	Т	Horizontal and Vertical	36M0F3F	0.0	0.0
		ith associated				
4.5M	10950 11200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.) Digital Da		the complete descript				the form to view it in its

4.5M	10950 11200	R	Horizontal and Vertical	51K2G7W	0.0	0.0
E50. Modulati entirety.)	on and Services (If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Digital	Data, various	information	, various data rat	es, various	FEC	
4.5M	11450 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
4.5M	11450 12200	R	Horizontal and Vertical	51K2G7W	0.0	0.0
E50. Modulati entirety.)	on and Services (If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its

4.5M	14000 14500	Т	Horizontal and Vertical	36M0F3F	78.9	51.9
E50. Modulation entirety.)	on and Services (If the complete de	escription does not appear	in this box, please	go to the end of the	ne form to view it in its
Standard	analog video	with associa	ated audio subcarr	riers		
4.5M	14000 14500	Т	Horizontal and Vertical	36M0G7W	78.9	39.3
4.5M	14000 14500	Т	Horizontal and Vertical	51K2G7W	50.4	39.3
E50. Modulation entirety.)	on and Services (If the complete de	escription does not appear	in this box, please	go to the end of the	ne form to view it in its
		information				

5.5M	10950 11200	R	Horizontal and Vertical	36M0G7F	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descript	ion does not appear	in this box, please	go to the end of t	the form to view it in its
Compressed	l digital video)				
5.5M	10950 11200	R	Horizontal and Vertical	4M00G7F	0.0	0.0
Compressed	l digital video)				
5.5M	11450 12200	R	Horizontal and Vertical	36M0G7F	0.0	0.0
E50. Modulation entirety.)	and Services (If the		ion does not appear	in this box, please	go to the end of t	the form to view it in its

5.5M	11450 12200	Т	Horizontal and Vertical	4M00G7F	0.0	0.0
E50. Modulation entirety.)	and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of the	ne form to view it in its
Compressed	d digital vid	eo				
5.5M	14000 14500	Т	Horizontal and Vertical	36M0G7F	80.3	40.7
Compressed	d digital vid	eo				
5.5M	14000 14500	Т	Horizontal and Vertical	4M00G7F	70.7	40.7
E50. Modulation entirety.)	and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of the	ne form to view it in its
Compressed	d digital vid	eo				

5.5M	10950 11200	R	Horizontal and Vertical	36M0F3F	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear	in this box, please	go to the end of t	he form to view it in its
Standard a	nalog video wi	th associated	audio subcarr	riers		
5.5M	11450 12200	R	Horizontal and Vertical	36M0F3F	0.0	0.0
Standard a	nalog video wi	th associated	audio subcarr	riers		
5.5M	10950 11200	R	Horizontal and Vertical	51K2G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear	in this box, please	go to the end of t	he form to view it in its
Digital da	ta, various ir	nformation, var	rious data rat	es, various	FEC	

5.5M	10950 11200	Т	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulati entirety.)	ion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	he form to view it in its
Digital	data, various	information	, various data rat	ces, various	FEC	
5.5M	11450 12200	R	Horizontal and Vertical	51K2G7W	0.0	0.0
			, various data ra	, 		
5.5M	11450 12200	Т	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulati entirety.)	ion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	he form to view it in its
Digital	data, various	information	, various data rat	ces, various	FEC	

5.5M	14000 14500	Т	Horizontal and Vertical	36M0F3F	80.3	53.3
E50. Modula entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
Standar	d analog video	with associa	ated audio subcarı	riers		
5.5M	14000 14500	Т	Horizontal and Vertical	36M0G7W	80.3	40.7
		_		511/20/7XV	F1 0	
5.5M	14000 14500	Т	Horizontal and Vertical	51K2G7W	51.8	40.7

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
4.5M	Geostationary	11450 11700	18.0/58.0	103.7	10.9	138.3	41.6	0.0
	Geostationary	11700 12200	15.0/143.0	101.9	8.4	251.3	17.3	0.0
	Geostationary	11950 11200	18.0/58.0	103.7	10.9	138.3	41.6	0.0
	Geostationary	14000 14500	15.0/143.0	101.9	8.4	251.3	17.3	5.5
5.5M	Geostationary	10950 11200	18.0/58.0	103.7	10.9	138.3	41.6	0.0
	Geostationary	11450 11700	18.0/58.0	103.7	10.9	138.3	41.6	0.0
	Geostationary	11700 12200	15.0/143.0	101.9	8.4	251.3	17.3	0.0
	Geostationary	14000 14500	15.0/143.0	101.9	8.4	251.3	17.3	5.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	

E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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

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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.