Approved by OMB 3060–0678

Date & Time Filed: Jan 26 2011 3:22:57:096PM File Number: SES–MOD–INTR2011–00256

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: KA313 Modification to add Intellian V110 Antenna to ESV Authorization

Name:	Vizada, Inc.	Phone Number:	301-838-7807
DBA Name:		Fax Number:	301-838-7824
Street:	2600 Tower Oaks Boulevard	E-Mail:	rob.swanson@vizada.com
City:	Rockville	State:	MD
Country:	USA	Zipcode:	20852 –
Attention:	Mr Robert W Swanson		

–16. Name o	of Contact]	Representative		
Ν	Name:	Vizada, Inc.	Phone Number:	301-838-7909
C	Company:		Fax Number:	301-838-7824
S	street:	2600 Tower Oaks Boulevard	E-Mail:	james.lovelace@vizada.com
C	City:	Rockville	State:	MD
С	Country:	USA	Zipcode:	20852-
Α	Attention:	James G. Lovelace	Relationship:	Other

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.	 (N/A) b1. Application for License of New Station (N/A) b2. Application for Registration of New Domestic Receive–Only Station b3. Amendment to a Pending Application
 a1. Earth Station a2. Space Station 	 b4. Modification of License or Registration b5. Assignment of License or Registration b6. Transfer of Control of License or Registration 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) (N/A) b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States (N/A) b12. Application for Database Entry b13. Amendment to a Pending Database Entry Application b14. Modification of Database Entry

17c. Is a fee submitted with this application	on?	
● 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 ONOncommercial educational licensee		
• Other(please explain):		
17d.		
Fee Classification CGX – Fixed Satellite 7 Station	Fransmit/Receive Earth	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	application enter both fields, if this filing is a
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:
KA313		SESMOD2010062800835
		SLSINOD2010002000033

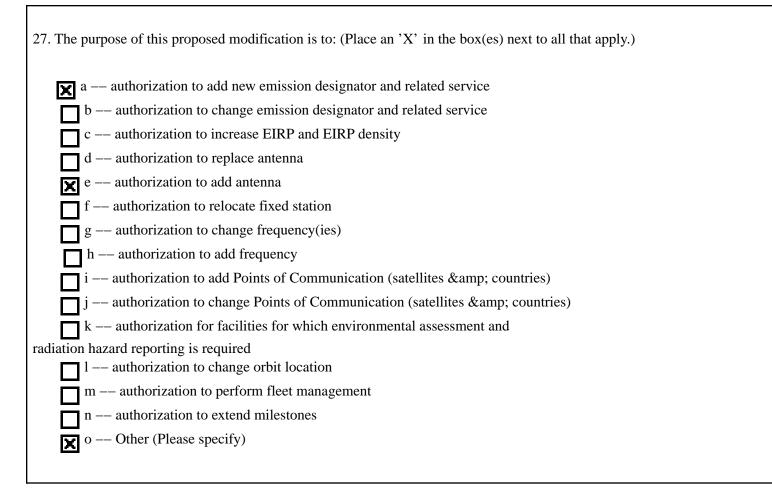
TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide 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) Earth Station on Vessel
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 service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:
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 applicable 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 additional 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
o c. 12/14 GHz VSAT Network
O d. Mobile Earth Station
e. Geostationary Space Station
• f. Non–Geostationary Space Station
• g. Other (please specify) Earth Station on Vessel
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit-Only Receive-Only N/A
"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION



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.	-	● Yes ● No Rad Haz Report				
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or	•	
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	۲	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	۲	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	۲	No	0	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?	0	Yes	۲	No	0	N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than	• Yes • No • N/A
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?	

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 Ownership Statement 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.	O Yes ● No
	Intellian Declaratio
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.	🔿 Yes 💿 No
	Varan Declaration

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	lo No
	Exhibits 2 – 4	
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	O Yes	
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	Exh 5 Operation	n Area
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	O 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.		

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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.

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 No

Yes

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? All satellites used are on ALSAT list.

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

By this application Vizada, Inc. seeks authority to add up to 500 Intellian 1.0 meter Ku−band, Model V110 remote Earth Station on Vessel (ESV) antennas to its authorization to provide ESV service via its Southbury, CT teleport, call sign KA313.

25.222 Compliance

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	О ^В
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	O 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.

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	46. Title of Person Signing
James G. Lovelace	Security Officer
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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 Sta	ation Site					
E1: Site Identifier:	Ku–band ESV Remotes	E5. Call Sign:	KA313			
E2: Contact Name	Guy White	E6. Phone Number:	203-262-5000			
E3. Street:		E7. City:				
		E8. County:				
E4. State		E9. Zip Code				
E10. Area of Operati	ion:	U.S. and Internatio	nal Waters			
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coordi	inates are:	ONAD-27	NAD-83	O N/A		
E14. Site Elevation (	(AMSL):	0.0 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.	● Yes ● No	O N/A
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E16. 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?	O Yes	O [№]	N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	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.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: ALSAT   ALL AUTHORIZED U.S.   ALSAT If you selected 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:

#### 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 at GHz)
Ku–band ESV Remotes	Intl V110	500	Intellian	V110	1.05	39.8 dBi at 12.50
Ku–band ESV Remotes	Intl V110	500	Intellian	V110	1.05	41.7 dBi at 14.25

E28. Antenna Id		E35. Above Ground Level (meters)	· · · ·	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Intl V110	1.05/1.05	0.0	0.0	0.0	6.97	0.0	49.83

## FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Intl V110	10950 11200	R	Horizontal and Vertical	151KG7W	0.0	0.0

E50. Modula entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
	TRAFFIC USIN	G QPSK AND BP	SK MODULATION			
Intl V110	10950 11200	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modula entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
DIGITAL	TRAFFIC USIN	G QPSK AND BP	SK MODULATION			
Intl V110	10950 11200	R	Horizontal and Vertical	44K8G1W	0.0	0.0
E50. Modula entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
DIGITAL	TRAFFIC USIN	G QPSK AND BP	SK MODULATION			
Intl V110	10950 11200	R	Horizontal and Vertical	54M0G7W	0.0	0.0

E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Intl V110	10950 11200	R	Horizontal and Vertical	717KG1W	0.0	0.0
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
DIGITAL	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Intl V110	10950 11200	R	Horizontal and Vertical	89K6G1W	0.0	0.0
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
DIGITAL	TRAFFIC USIN	G QPSK AND BP	SK MODULATION			
Intl V110	11450 12200	R	Horizontal and Vertical	151KG7W	0.0	0.0

DIGITAI	J TRAFFIC	USING	QPSK	AND	BPSK	MODULATION			
	11450								
V110	11450 12200		R			Horizontal and Vertical	2M60G7W	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

2101111	IRAFFIC	USING	QPSK	AND BPSK	MODULATION		

Intl V110	11450	R	Horizontal and	44K8G1W	0.0	0.0
	12200		Vertical			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIGITAL	TRAFFIC	USING	QPSK	AND	BPSK	MODULATION			
V110	11450 12200		R			Horizontal and Vertical	54M0G7W	0.0	0.0

DIGITAI	J TRAFFIC	USING	QPSK	AND	BPSK	MODULATION			
l V110	11450 12200		R			Horizontal and Vertical	717KG1W	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIGITAL	TRAFFIC	USING	QPSK	AND	BPSK	MODULATION				
V110	11450		R			Horizontal and	89K6G1W	0.0	(	0.0

Intl V11011450RHorizontal and89K6G1W0.012200Vertical

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIGITAI	L TRAFFIC	USING	QPSK A	ND BPSK	MODULATION				
Intl V110	14000 14500		Т		Horizontal and Vertical	194KG7W	42.4	25.5	

	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
entirety.) DIGITAL	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	1M16G7W	49.8	25.2
entirety.)	tion and Services		SK MODULATION	in this box, please	go to the end of t	he form to view it in its
Intl V110	14000 14500	Т	Horizontal and Vertical	1M36G7W	49.8	24.5
entirety.)	tion and Services		escription does not appear	in this box, please	go to the end of t	he form to view it in its
Intl V110	14000 14500	Т	Horizontal and Vertical	1M55G7W	49.8	23.9

	on and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
entirety.)	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	291KG7W	44.1	25.5
entirety.)	on and Services		SK MODULATION	in this box, please	go to the end of t	he form to view it in its
Intl V110	14000 14500	Т	Horizontal and Vertical	388KG7W	45.4	25.5
entirety.)		G QPSK AND BP	SK MODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	44K8G1W	36.0	25.5

E50. Modulation	n and Services (If	the complete descript	tion does not appear	in this box, please §	go to the end of th	he form to view it in its
entirety.)						
DIGITAL T	RAFFIC USING Q	PSK AND BPSK M	ODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	485KG7W	46.3	25.5
E50. Modulation entirety.)	n and Services (If	the complete descript	tion does not appear	in this box, please §	go to the end of the	he form to view it in its
DIGITAL T	RAFFIC USING Q	PSK AND BPSK M	ODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	582KG7W	47.1	25.5
E50. Modulation entirety.)	n and Services (If	the complete descript	tion does not appear	in this box, please g	go to the end of the	he form to view it in its
DIGITAL T	RAFFIC USING Q	PSK AND BPSK M	ODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	64K0G7W	37.5	25.5

	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
entirety.)						
DIGITAL	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	679KG7W	47.8	25.5
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
DIGITAL	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	717KG1W	48.0	25.5
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
DIGITAL	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Intl V110	14000 14500	Т	Horizontal and Vertical	776KG7W	48.4	25.5

DIGITAI	I TRAFFIC	USING	QPSK	AND E	BPSK	MODULATION			
V110	14000 14500		Т			Horizontal and Vertical	89K6G1W	39.0	25.5

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIGITAL TRAFFIC	USING QPSK ANI	BPSK MODULATION

Intl V110	14000	Т	Horizontal and	970KG7W	49.3	25.5
	14500		Vertical			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIGITAI	J TRAFFIC	USING	QPSK	AND	BPSK	MODULATION			
1 V110	14000 14500		Т			Horizontal and Vertical	97K0G7W	39.3	25.5

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

#### FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	Station Azimuth	Antenna Elevation Angle	Station Azimuth Angle	Antenna Elevation Angle Western	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
			/					

### REMOTE CONTROL POINT LOCATION

E61. Call Sign KA313 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.		E66. Phone Number 203−262		
E62. Street Address 2120 River Road				
E63. City Southbury	E68. County New Haven		E67/68. State/Country CT/ USA	E64. Zip Code 06488

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