

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
KA313 STA request for AMC-21 POC authority for .96M remote antenna

1. Applicant

Name:	Vizada, Inc.	Phone Number:	301-838-7807
DBA Name:		Fax Number:	301-838-7752
Street:	1101 Wootton Parkway 10th Floor	E-Mail:	robert.swanson@vizada.com
City:	Rockville	State:	MD
Country:	USA	Zipcode:	20852 -
Attention:	Mr Robert W Swanson		

With Condition



File # SES-STA-20090716-00868

Call Sign KA313 Grant Date 7/21/09
(or other identifier)

From 7/20/09 Term Dates To: 8/18/09

Approved: Jeanette D. Spriggs

Attachment

SES-STA-20090716-00868

KA313

Condition:

All operations shall be on an unprotected and non-harmful interference basis, *i.e.*, Vizada, Inc. shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station.

With Condition



File # SES-STA-20090716-00868

Call Sign KA313 Grant Date 7/21/09
(or other identifier)

From 1120109 Term Dates
To: 8/18/09

Approved: Janette R. Spruyt

2. Contact

Name:	Vizada, Inc.	Phone Number:	301-838-7909
Company:		Fax Number:	301-838-7752
Street:	1101 Wootton Parkway	E-Mail:	james.lovelace@vizada.com
City:	Rockville	State:	MD
Country:	USA	Zipcode:	20852 -
Attention:	James G. Lovelace	Relationship:	Other

(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

07/20/2009

7. City Southbury

8. Latitude

(dd mm ss.s h) 41 27 6.3 N

9. State CT	10. Longitude (dd mm ss.s h) 73 17 16.4 W
11. Please supply any need attachments. Attachment 1: STA NEED STATEMENT Attachment 2: 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.) <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">Vizada, Inc. ('Vizada') requests special temporary authority (STA), beginning July 20, 2009, on an unprotected and non-interference basis to perform testing using a .96 meter antenna currently licensed under callsign KA313. An STA is requested because Vizada needs to access the AMC-21 satellite (on the Permitted Space Station List) for the testing.</div>	
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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing James G. Lovelace	15. Title of Person Signing Security Officer
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).	

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12. Description

Vizada, Inc. ('Vizada') requests special temporary authority (STA), beginning July 20, 2009, on an unprotected and non-interference basis to perform testing using a .96 meter antenna currently licensed under callsign KA313. An STA is requested because Vizada needs to access the AMC-21 satellite (on the Permitted Space Station List) for the testing. None of the technical parameters of Vizada

**VIZADA, INC.
Request for Special Temporary Authority**

Exhibit 1 – Callsign KA313

Summary

Vizada, Inc. ("Vizada") requests special temporary authority (STA), beginning July 20, 2009, on an unprotected and non-interference basis to perform testing using a .96 meter antenna currently licensed under callsign KA313. An STA is requested because Vizada needs to access the AMC-21 satellite (on the Permitted Space Station List) for testing. None of the technical parameters of Vizada's current authorization will change for purposes of the STA. Indeed, the only change is to utilize the Emission Designators listed below with the AMC-21 as a point of communication for the .96 meter antenna used in the test.

We regret the short notice of this STA filing. The proposed testing will involve a performance test of services for U.S. Government customers requiring secure satellite communications.

Vizada is concurrently filing a modification application to add ALSAT authority to the .96 meter antennas authorized under KA313. This application will include provision for use of lower power levels for operation of the antenna in order to ensure compliance with section §25.218 of the Commission's Rules.

The .96 meter antenna will likewise be operating at reduced power levels to transmit to the AMC-21 satellite and will thus meet the requirements of §25.218 of the Commission's Rules for preventing adjacent satellite interference with any adjacent satellites.

Technical Parameters of the Proposed Testing

Frequencies: 11700-12200 MHz (transmit)
14000-14500 MHz (receive)

Emission Designator	Modulation and Services
3M67G7W Receive	Digital Audio, Video, and Data
776KG7W Transmit	Digital Audio, Video, and Data

Conclusion

We believe that because the proposed testing will be used to support secure communications for U.S. Government users, the grant of this requested STA serves the public interest pursuant to Section 25.120(b)(1) of the Commission's Rules. Grant of this STA is respectfully requested on or before July 20, 2009, for a period of 30 days.

Jeanette Spriggs

To: Rob Swanson VIZADA
Subject: RE: Vizada STA - SES-STA-20090716-00868

Thanks.

From: Rob Swanson VIZADA [mailto:Rob.Swanson@vizada.com]
Sent: Tuesday, July 21, 2009 9:08 AM
To: Jeanette Spriggs
Cc: Kathryn Medley
Subject: RE: Vizada STA - SES-STA-20090716-00868

Hi Jeanette—

Regarding your request for EIRP numbers for our requested STA, I have received the following information about the proposed STA testing from our engineers:

We propose a back-off of 4.1 dB, setting the maximum RF transmit power density limit, input at the antenna flange, to -18.1 dBW/4 KHz. The preliminary link budgets for this STA (for AMC-21) show that the antenna will be operated at 11 dB below this limit.

Calculations

Antenna Manufacturer	Andrew
Antenna Model	CM 960 0.96m
Transmit Band	14.00 to 14.50 GHz
Antenna Tx Gain, Co-pol	41.2 dBi at 14.25 GHz
At Off-axis Angle	1.5 deg
Off-axis Gain Envelope	24.6 dBi
Off-axis EIRP Envelope (Tx PD of -14 dBW/4kHz)	10.6 dBW/4kHz
Gain relative to the Main-lobe	-12.5 dB
Actual Gain	28.7 dBi
Off-axis EIRP (Tx PD of -18.1 dBW/4kHz)	10.6 dBW/4kHz
E.49. Maximum EIRP Density per Carrier (Tx PD of -18.1 dBW/4kHz)	23.1 dBW/4kHz
E.49. Maximum EIRP Density per Carrier (STA)	12.1 dBW/4kHz
Margin from the limit (STA)	11 dB

Please let me know if you need additional information or if I should submit this information as a letter supplement to the STA.

7/21/2009

Thanks and have a great day.

Best regards,
Rob

Robert Swanson
Associate Counsel
Vizada Americas
Email: robert.swanson@vizada.com
Fixed line: +1 301 838 7807
Mobile: +1 240 285 7634
www.vizada.com

From: Rob Swanson VIZADA
Sent: Monday, July 20, 2009 3:53 PM
To: 'Jeanette.Spriggs@fcc.gov'
Cc: 'kathryn.medley@fcc.gov'
Subject: Vizada STA - SES-STA-20090716-00868

Jeanette—

Thanks again for returning my call so quickly. As I noted on the phone, the .96 Meter antenna has already been licensed by Vizada, Inc. under call sign KA313 (File no. SES-MOD-20050803-01034) and is currently listed on the International Bureau's list of Approved Non-Routine Earth Station Antennas. I am attaching a PDF listing the antenna on the NRESA site. Since it is already listed as approved, we do not see why we would need to file the 25.115 tables.

We regret that we did not include this information in our STA filing from the outset.

As we also discussed, I will get our engineering group to put together the EIRP numbers for you and we'll get that over late tonight or early tomorrow.

Please let me know if you need anything else from us and I look forward to speaking with you tomorrow.

Thank you in advance and have a great afternoon.

Best regards,
Rob

Robert Swanson
Associate Counsel
Vizada Americas
Email: robert.swanson@vizada.com
Fixed line: +1 301 838 7807
Mobile: +1 240 285 7634
www.vizada.com

7/21/2009