# RBC Signals LLC Application for 60-Day Special Temporary Authorization ("STA")

### **Technical Appendix**

- I. Frequency Coordination Report
- II. Radiation Hazard Analysis
- III. Draft FCC Form 312 Schedule B

### Micronet Communications, Inc.

720 F Avenue, Suite 100 Plano, Texas 75074 972-422-7200

#### SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M1834615 2.03 GHz

Licensee: RBC Signals, LLC Page 1

Pursuant to Parts 25.203 and 101.103(d) of the FCC Rules and Regulations, a frequency coordination study was conducted by Micronet Communications, Inc. for the following proposed earth station:

Deadhorse, AK

The results of the study indicate that no unacceptable interference will result with existing, proposed or prior coordinated radio facilities.

Coordination was performed with existing, proposed and prior coordinated carriers within coordination range on the following dates:

12/19/2018 Original PCN (Expedited response requested by 01/02/2019)

There were no unresolved interference objections.

The attached coordination data was forwarded on the latest date to the following parties within coordination range or their authorized coordination agents:

Respectfully Submitted,

Jeremy Lewis Systems Engineer

Attached: 1 data sheet

\*\*\*\*\*\*\*\*\*

# \* MICRONET COMMUNICATIONS, INC. \* \*

			-	- , -
TECHNICAL CHARACTERISTIC	S OF TRANSM	IT ONLY EART	======================================	
Company: RI	BC Signals			
Site Name, State: De	eadhorse, A	K		
Call Sign:				
Latitude	(NAD83)	70 12	45.0 N	
Longitude	(NAD83)	148 24	29.0 W	
Elevation AMSL	(ft/m)	49.00	14.94	
Receive Frequency Range	(MHz)			
Transmit Frequency Range	(MHz)	2025.00	2110.00	
Range of Satellite Orbital Long.	(deg W)	00.00	360.00	
Range of Azimuths from North	(deg)	97.92	233.28	
Antenna Centerline	(ft/m)	15.00	4.57	
Antenna Elevation Angles	(deg)	Varies		
Equipment Parameters		2.07 GHz		
Antenna Gain, Main Beam	(dbI)	35.90		
15 DB Half Beamwidth	(deg)	1.20		
Antennas Transmit: GAIA 100	4.5M			
Max Transmitter Power	(dbW/4KHz)		-10.40	
Max EIRP Main Beam	(dbW/4KHz)		25.50	
Modulation / Emission Designator	Digital	1M00G7D		
Coordination Parameters		2.07 GHz		
Max Greater Circle Distances		681.56		
Max Rain Scatter Distances	(km)	100.00		
Max Interference Power Long Term	(dbW)	-140.60		
Max Interference Power Short Term	(dbW)	-118.40		
Rain Zone / Radio Zone		3	А	

## MICRONET COMMUNICATIONS, INC. 12-19-2018

File: M1834615 page 2

Horizon Angle Horizon Gain Final Contour - 2.07 GHz TRANSMIT ONLY

Company: RBC Signals LLC

Site Name, State: Deadhorse, AK

Call Sign:

Latitude (NAD83) 70 12 45.0 N Longitude (NAD83) 148 24 29.0 W

Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)	Az	zimuth	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)
(deg) 0.00 0.00 0.00 0.00 0.00 0.00 0.	(db)10.00 -10.0	(km) 211.0 2		(deg) 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 265 270 275 280 285 290 305 310 315 320 325	(deg) 0.00 0.00 0.00 0.00 0.00 0.00 0.	(db) 0.00 0.00 0.00 0.00 1.71 4.00 6.55 8.41 10.26 13.09 14.01 6.84 0.00 -0.76 -2.56 -4.37 -6.00 -7.32 -8.63 -9.95 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00	
0.00 0.00 0.00 0.00	1.71 0.00 0.00 0.00 0.00	306.9 302.9 300.1 298.5 297.9		335 340 345 350 355	0.00 0.00 0.00 0.00	-6.00 -6.00 -6.00 -8.37 -10.00	211.0 211.0 211.0 211.0 211.0
	Angle (deg) 0.00 0.00 0.00 0.00 0.00 0.00 0.	Angle (deg) (db)	Angle (deg) (db) (km)	Angle (db) (km)	Angle (deg) (db) (km) (deg)	Angle (deg)	Angle (deg)         Gain (db)         Contour (km)         Azimuth (deg)         Angle (deg)         Gain (db)

### ANALYSIS OF NON-IONIZING RADIATION for RBC Signals LLC

Site: Deadhorse State: AK

Latitude: 70 12 45.0 Longitude: 148 24 29.0 (NAD83) 01-25-2019

The Office of Science and Technology Bulletin, No. 65, October 1985 and revised August 1997, specifies that the maximum level of non-ionizing radiation that a person may be exposed to over a six minute period is an average power density equal to  $5~\mathrm{mW/cm}^{**2}$ (five milliwatts per centimeter squared) for a controlled environment. For an uncontrolled environment, the maximum level of non-ionizing radiation that a person may be exposed to over a thirty minute period is an average power density equal to 1 mW/cm\*\*2 (one milliwatt per centimeter squared). It is the purpose of this report to determine the maximum power flux densities of the earth station in the far zone, near zone, transition zone, at the main reflector surface, and between the antenna edge and the ground.

#### Parameters which were used in the calculations: \_\_\_\_\_\_

Antenna Diameter,

(D) = 4.5000 m

Antenna Surface Area (Sa) =  $pi(D^{**}2)/4$  = 15.9043 m\*\*2

Wavelength at 2.0000 GHz (lambda) = 0.1500 m

Transmit Power at Flange (P) = 22.8500 Watts

Antenna Gain at Earth Site (GES) = 35.9000 dBi = 3890.4514

Power Ratio:

AntiLog(GES/10)

= 3.1415927 рi

Antenna Aperture Efficiency (n) = 0.6000

### 1. FAR ZONE CALCULATIONS

### 2. NEAR ZONE CALCULATIONS

Power Flux Density is considered to be at a maximum value throughout the entire length of this Zone. The Zone is contained within a cylindrical volume which has the same diameter as the antenna. Beyond the Near Zone, the Power Flux Density will decrease with distance from the Antenna.

Distance to the Near Zone (Dn) = 
$$D^*2$$
 = 33.7500 m =  $4*lambda$  Near Zone Power Density (Rn) =  $16.0(n)P$  = 3.4481 W/m\*\*2 =  $pi(D^*2)$ 

= 0.3448 mW/cm\*\*2

### 3. TRANSITION ZONE CALCULATIONS

The Power Density begins to decrease with distance in the Transition Zone. While the Power Density decreases inversely with distance in the Transition Zone, the Power Density decreases inversely with the square of the distance in the Far Zone. Since the maximum Power Density in the Transition Zone will not exceed the Near Zone values, it is not calculated.

#### 4. MAIN REFLECTOR ZONE

2(P) = 2.8734 W/m\*\* 2Main Reflector Power Density =

Sa

= 0.2873 mW/cm\*\*2

#### 5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND \_\_\_\_\_

Applying uniform illumination of the Main Reflector Surface:

P = 1.4367 W/m\*\*2 Main to Ground Power Density =

Sa = 0.1437 mW/cm\*\*2

## CALCULATED SAFETY MARGINS SUMMARY AND EVALUATION

Controlled Safety Margin = 5.0 - Calculated Zone Value (mW/cm\*\*2)

	Zones	Safety Margins (mW/cm**2)	Conclusions
1.	Far Zone	4.8922	Complies with ANSI
2.	Near Zone	4.6552	Complies with ANSI
3.	Transition Zone	Rf < Rt < Rn	Complies with ANSI
4.	Main Reflector Surface	4.7127	Complies with ANSI
5.	Main Reflector to Ground	4.8563	Complies with ANSI

Uncontrolled Safety Margin = 1.0 - Calculated Zone Value (mW/cm\*\*2)

	Zones	Safety Margins (mW/cm**2)	Conclusions	
1.	Far Zone	0.8922	Complies with ANSI	_
2.	Near Zone	0.6552	Complies with ANSI	
3.	Transition Zone	Rf < Rt < Rn	Complies with ANSI	
4.	Main Reflector Surface	0.7127	Complies with ANSI	
5.	Main Reflector to Ground	0.8563	Complies with ANSI	

### 6. EVALUATION =======

- A. Controlled Environment
- B. Uncontrolled Environment

All Zones comply with ANSI Standards.

Approved by OMB 3060-0678

Date & Time Filed: File Number: ---Callsign/Satellite ID:

APPLICATION FOR	R EARTH	STATION.	<b>AUTHORIZ</b>	ATIONS
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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: DRAFT FORM for 60-Day STA REQUEST (SpaceQuest S-band)

1-8. Legal Name of Applicant RBC Signals, LLC Name: Phone Number: 404-803-7734 DBA Fax Number: Name: Street: 2205 152nd Ave NE E-Mail: crichins@rbcsignals.com City: Redmond State: WA **USA** Country: Zipcode: 98052 -Attention: Mr. Christopher Richins 9-16. Name of Contact Representative Name: Jason Davila Phone Number: 6099021670 Company: LMI Advisors Fax Number: 2550 M Street NW Street: E-Mail: jdavila@lmiadvisors.com Suite 343 City: Washington State: DC **USA** Country: Zipcode: 20037-Attention: Mr. Jason Davila Relationship: Other

### CLASSIFICATION OF FILING

CEMBOTI CHION OF FIERRO				
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.  a.  a.  1. Earth Station (N/A) a2. Space Station	b.   b1. Application for License of New Station 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 (N/A) b5. Assignment of License or Registration (N/A) 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  b10. Other (Please specify) 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.			
17c. Is a fee submitted with this application	on?			
☐ If Yes, complete and attach FCC Form 159.				
If No, indicate reason for fee exemption (  Governmental Entity Noncomme				

Other(please explain): DRAFT FORM	$\mathbf{M}$	_ 11_	
17d.			
Fee Classification			
18. If this filing is in reference to an	19. If this filing is an ame	ndment to a pending	application enter:
existing station, enter:	(a) Date pending applicati	ion was filed:	(b) File number of pending application:
(a) Call sign of station: Not Applicable	Not Applicable		Not Applicable
	TYPE OF	SERVICE	
20. NATURE OF SERVICE: This filing is	s for an authorization to pro	ovide or use the follo	wing 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)			
NGSO		îr.	
21. STATUS: Choose the button next to the	ne applicable status.		applicant, check all that apply.
Choose only one.  Common Carrier Non-Common C	Carrier	Using U.S. lice	nsed satellites Licensed satellites
			actions regarding Sec. 214 filings. Choose one.
Are these facilities:	ONAL COMIMON CARRII	ER service, see ilistri	actions regarding Sec. 214 mings. Choose one.
Connected to a Public Switched Netw	ork Not connected to a	Public Switched Ne	twork • N/A
24. FREQUENCY BAND(S): Place an "2		applicable frequenc	y band(s).
a. C-Band (4/6 GHz) b. Ku-Band			
✓ c.Other (Please specify upper and low Frequency Lower: 2045 Frequency Upper	•		
Trequency Lower. 2043 Frequency Opper		STATION	
25. CLASS OF STATION: Choose the bu			oose only one
a. Fixed Earth Station	ation heat to the class of star	tion that applies. Ch	Jose Only One.
b. Temporary-Fixed Earth Station			
c. 12/14 GHz VSAT Network			
d. Mobile Earth Station			
(N/A) e. Geostationary Space Station			
(N/A) f. Non-Geostationary Space Statio	n		
g. Other (please specify)			
26. TYPE OF EARTH STATION FACIL	•		
Transmit/Receive Transmit-Only Receive-Only 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.)			
Not Applicable			
	ENVIRONME	NTAL POLICY	
28. Would a Commission grant of any pr			
environmental impact as defined by 47 C 1.1308 and 1.1311 of the Commission's r			
application. A Radiation Hazard Study m			
modifications, or major amendments.			
ALIEN OWNERSHIP Earth statio	on applicants not prop	osing to provide	broadcast, common carrier, aeronautical

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?	Yes No No 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?	○ Yes ○ No ● 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?	○ Yes ○ No ● 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 O 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.	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.	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	
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.	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.	○ Yes ● No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be has coordinated or is in the process of coordinating the space station?	issued, what administration
43. Description. (Summarize the nature of the application and the services to be provided). Draft Form to request to provide S-band service link support for the U.Slicensed SpaceQuest spacecra	
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
	$\bigcirc$ B

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.

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.

#### **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.)

and in all attached exhibits are true, complete	and correct to the best	of this of their knowledge	e and bener, and are made in good faidi.
44. Applicant is a (an): (Choose the button nex	kt to applicable respons	se.)	
Individual			
<ul> <li>Unincorporated Association</li> </ul>			
<ul><li>Partnership</li></ul>			
Corporation			
Ogovernmental Entity			
<ul><li>Other (please specify)</li></ul>			
LLC			
45. Name of Person Signing		46. Title of Person Sig	ning
Christopher Richins		CEO	
47. Please supply any need attachments.			
Attachment 1:	Attachment 2:		Attachment 3:

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 Station	Site			
E1: Site Identifier:	Deadhorse	E5. Call Sign:		
E2: Contact Name	Zachary Reich	E6. Phone Number:	415-622-5548	
E3. Street:	DS12 Access Road	E7. City:	Deadhorse	
		E8. County:	North Slope Borough	
E4. State	AK	E9. Zip Code	99734	
E10. Area of Operation:		Deadhorse, AK		
E11. Latitude:	70 ° 12 ' 45.0 " N			
E12. Longitude:	148 ° 24 ' 29.0 " W			
E13. Lat/Lon Coordinate	s are:	ONAD-27	• NAD-83	○N/A
E14. Site Elevation (AM	SL):	15.0 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 ⊙ N/A
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?	• Yes ONo ON/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	Yes No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	○ 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.	Yes No

Satellite Name:OTHER   OTHER   If you selected OTHER, please enter the following:					
E21. Common Name: THEA	E22. ITU Name:				
E23. Orbit Location: NGSO E24. Country: USA					
Satellite Name:OTHER   OTHER   If you selected OTHER, please enter the following:					
E21. Common Name: BRIO	E22. ITU Name:				
E23. Orbit Location: NGSO E24. Country: USA					

### **POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier: Deadhorse	
E26. Common Name:	E27. Country:USA

### ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufact	urer	E31. Mode	E32. Antenna Size	E41/42. Anter Recieve(_	nna GainTransm dBi at	
Deadhorse	4.5m	1	Orbit		GAIA 100	4.5	35.9 dBi at 2.0	25	
							36.7 dBi at 2.2	25	
E28. Antenna Id	E33/34. D Minor/Majo	diameter or(meters)	E35. Above Ground Level (meters)	E3 Abo Se Lev (met	ove H a vel	37. Building eight Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)

### FREQUENCY

4.5m

0.0/0.0

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	l <b></b>		E49. Maximum ERIP Density per Carrier(dBW/4kHz)
4.5m	2200 2202	R	Right Hand Circular	1M00G7W	0.0	0.0

0.0

22.85

0.0

15.0

0.0

49.5

E50. Modulation and Services Mission Data Downlink								
4.5m   2045 2046   T   Right Hand Circular   1M00G7W   49.5   25.5								
E50. Mod	E50. Modulation and Services Mission Data Uplink							

#### FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	ll I	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)
14 5m	Non- Geostationary	2200 2202	0.0/ 0.0	0.0	5.0	360.0	5.0	0.0
II I	Non- Geostationary	2045 2046	0.0/ 0.0	0.0	5.0	360.0	5.0	10.7

# REMOTE CONTROL POINT LOCATION REMOTE CONTROL POINT LOCATION

E61. Call Sign	l l	65. Phone Number 650-746-8744	
NOTE: Please enter the callsign of the controlling station, not the application is being filed.			
E62. Street Address 2205 152nd Street NE			
E63. City Redmond	E67. County King	E64/68. State/Country WA/ USA	E66. Zip Code 98052

### FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25 - 24 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. 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.