

**Alaska Communications Internet LLC**

**60-Day STA**

**Technical Appendix**

- I. Site-specific Coordination Reports
- II. 3.8m Radiation Hazard Report
- III. 2.4m Radiation Hazard Report
- IV. 7.0m Radiation Hazard Report
- V. Draft Form 312 Schedule B

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M2112346 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Trident False Pass, 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:

05/17/2021 Original PCN (Expedited response requested by 05/31/2021)  
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:

COMSEARCH INC

Respectfully Submitted,



Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: M2112346

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company: Alaska Communications Internet, LLC  
 Site Name, State: Trident False Pass, AK  
 Call Sign:  
 Latitude (NAD83) 54 51 54.0 N  
 Longitude (NAD83) 163 24 41.0 W  
 Elevation AMSL (ft/m) 5.00 1.52  
 Receive Frequency Range (MHz) 3700-4200  
 Transmit Frequency Range (MHz) 5925-6425  
 Range of Satellite Orbital Long. (deg W) 95.00 191.00  
 Range of Azimuths from North (deg) 107.93 212.58  
 Antenna Centerline (ft/m) 9.84 3.00  
 Antenna Elevation Angles (deg) 3.56 22.66

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Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	37.60	41.60
15 DB Half Beamwidth	(deg)	4.90	2.00
Antennas	Receive: GENERAL DYNAMICS 1241 (2.4 M) Transmit: GENERAL DYNAMICS 1241 (2.4 M)		
Max Transmitter Power	(dbW/4KHz)		-15.44
Max EIRP Main Beam	(dbW/4KHz)		26.16
Modulation / Emission Designator	DIGITAL 5M6G7W		

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Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	545.43	199.66
Max Rain Scatter Distances	(km)	458.10	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-153.90	-126.80
Rain Zone / Radio Zone		3	A

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: N2112346 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Kotlik School, AK

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

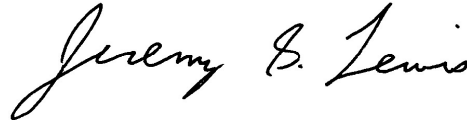
Coordination was performed with existing, proposed and prior coordinated carriers within coordination range on the following dates:

05/17/2021 Original PCN (Expedited response requested by 05/31/2021)  
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:

COMSEARCH INC  
UNITED2, LLC  
WIRELESS APPLICATIONS CORP

Respectfully Submitted,



Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: N2112346

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Kotlik School, AK		
Call Sign:			
Latitude	(NAD83)	63 1	53.0 N
Longitude	(NAD83)	163 33	17.0 W
Elevation AMSL	(ft/m)	3.00	0.91
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-6425	
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	109.29	210.23
Antenna Centerline	(ft/m)	9.84	3.00
Antenna Elevation Angles	(deg)	0.86	15.36

Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	37.60	41.60
15 DB Half Beamwidth	(deg)	4.90	2.00
Antennas	Receive: GENERAL DYNAMICS 1241 (2.4 M)		
	Transmit: GENERAL DYNAMICS 1241 (2.4 M)		
Max Transmitter Power	(dbW/4KHz)		-16.41
Max EIRP Main Beam	(dbW/4KHz)		25.19
Modulation / Emission Designator	DIGITAL 5M6G7W		

Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	715.77	262.19
Max Rain Scatter Distances	(km)	712.58	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-153.90	-126.80
Rain Zone / Radio Zone		3	A

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M2111918 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Silver Bay False Pas, 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:

05/06/2021 Original PCN (Expedited response requested by 05/20/2021)  
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:

COMSEARCH INC

Respectfully Submitted,



Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: M2111918

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Silver Bay False Pas, AK		
Call Sign:			
Latitude	(NAD83)	54 52	4.5 N
Longitude	(NAD83)	163 24	35.1 W
Elevation AMSL	(ft/m)	11.00	3.35
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-6425	
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	107.93	212.58
Antenna Centerline	(ft/m)	9.84	3.00
Antenna Elevation Angles	(deg)	3.56	22.66

Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	42.00	46.20
15 DB Half Beamwidth	(deg)	1.40	1.30
Antennas	Receive: PRODELIN 3.8 METER		
	Transmit: PRODELIN 3.8M		
Max Transmitter Power	(dbW/4KHz)		-17.08
Max EIRP Main Beam	(dbW/4KHz)		29.12
Modulation / Emission Designator	DIGITAL 2M80G7W 72M0G7W		
	5M60G7W		

Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	545.46	193.45
Max Rain Scatter Distances	(km)	458.10	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-149.90	-130.80
Rain Zone / Radio Zone		3	A







Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: N2035303

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Anchorage, AK		
Call Sign:	E170205		
Latitude	(NAD83)	61 8	28.4 N
Longitude	(NAD83)	149 52	30.7 W
Elevation AMSL	(ft/m)	134.51	41.00
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-5959.85/5989.85-6078.45/6108.45-6137.75/6167.75-6330.49/6360.49-6425	
Range of Satellite Orbital Long.	(deg W)	114.00	116.00
Range of Azimuths from North	(deg)	140.45	142.53
Antenna Centerline	(ft/m)	34.12	10.40
Antenna Elevation Angles	(deg)	14.62	15.25

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Equipment Parameters		Receive	Transmit
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Antenna Gain, Main Beam	(dbI)	47.60	51.00
15 DB Half Beamwidth	(deg)	1.40	0.95

Antennas            Receive: RSI SATCOM 700CS (7M)  
                       Transmit: RSI SATCOM 700CS (7M)

Max Transmitter Power	(dbW/4KHz)		-17.50
Max EIRP Main Beam	(dbW/4KHz)		33.50
Modulation / Emission Designator	DIGITAL	72M0G7W	

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Coordination Parameters		Receive	Transmit
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Max Greater Circle Distances	(km)	468.16	164.30
Max Rain Scatter Distances	(km)	372.23	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-153.90	-126.80
Rain Zone / Radio Zone		3	A

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: P2034509 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Anchorage, 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:

02/10/2021 Original PCN (Expedited response requested by 02/24/2021)  
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:

ACS OF ANCHORAGE LICENSE SUB, INC.  
ACS OF ANCHORAGE LICENSE SUB, LLC  
ALASCOM, INC.  
ALASKA PIPELINE COMPANY  
ALASKA PUBLIC TELECOMMUNICATIONS, INC  
ALASKA RAILROAD CORPORATION  
ALASKA, STATE OF  
ANCHORAGE, MUNICIPALITY OF  
AT&T MOBILITY SPECTRUM LLC  
CELLCO PARTNERSHIP  
CHUGACH ELECTRIC ASSOCIATION, INC.  
COLORADO 7-SAGUACHE LIMITED PARTNERSHIP  
COMSEARCH INC  
ENSTAR NATURAL GAS CO., A DIVISION OF SEMCO ENERGY, INC.  
GCI COMMUNICATION CORP  
HOMER ELECTRIC ASSOCIATION  
MATANUSKA-SUSITNA, BOROUGH OF  
MICRONET COMMUNICATIONS INC  
NORSTAR PIPELINE COMPANY, INC. AN ALASKA CORPORATION WHOLLY OWNE  
RADIO DYNAMICS  
THE ALASKA WIRELESS NETWORK, LLC

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: P2034509 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 2

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Respectfully Submitted,

A handwritten signature in black ink that reads "Jeremy B. Lewis". The signature is written in a cursive style with a large, prominent 'J' and 'L'.

Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: P2034509

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Anchorage, AK		
Call Sign:	E170205		
Latitude	(NAD83)	61 8	28.4 N
Longitude	(NAD83)	149 52	30.7 W
Elevation AMSL	(ft/m)	134.51	41.00
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-5959.85/6108.45-6137.75/6167.75-6330.49/6390.14-6425	
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	121.64	224.91
Antenna Centerline	(ft/m)	34.12	10.40
Antenna Elevation Angles	(deg)	7.52	12.86

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Equipment Parameters		Receive	Transmit
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Antenna Gain, Main Beam	(dbI)	37.60	42.00
15 DB Half Beamwidth	(deg)	1.50	1.00

Antennas            Receive: PRODELIN 1244 (2.4M)  
                       Transmit: PRODELIN 1244 (2.4M)

Max Transmitter Power	(dbW/4KHz)		-18.89
Max EIRP Main Beam	(dbW/4KHz)		23.11
Modulation / Emission Designator	DIGITAL	12M4G7W	5M6G07W

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Coordination Parameters		Receive	Transmit
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Max Greater Circle Distances	(km)	569.31	194.25
Max Rain Scatter Distances	(km)	398.51	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-153.90	-126.80
Rain Zone / Radio Zone		3	A

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: R2023911 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Anchorage, 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:

12/16/2020 Original PCN (Expedited response requested by 12/30/220)  
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:

ACS LONG DISTANCE LICENSE SUB, LLC  
ACS OF ANCHORAGE LICENSE SUB, INC.  
ACS OF ANCHORAGE LICENSE SUB, LLC  
ALASCOM, INC.  
ALASKA PIPELINE COMPANY  
ALASKA PUBLIC TELECOMMUNICATIONS, INC  
ALASKA RAILROAD CORPORATION  
ALASKA, STATE OF  
AT&T MOBILITY SPECTRUM LLC  
CELLCO PARTNERSHIP  
CHUGACH ELECTRIC ASSOCIATION, INC.  
COLORADO 7-SAGUACHE LIMITED PARTNERSHIP  
COMSEARCH INC  
ENSTAR NATURAL GAS CO., A DIVISION OF SEMCO ENERGY, INC.  
GCI COMMUNICATION CORP  
HOMER ELECTRIC ASSOCIATION  
MATANUSKA-SUSITNA, BOROUGH OF  
MICRONET COMMUNICATIONS INC  
NORSTAR PIPELINE COMPANY, INC. AN ALASKA CORPORATION WHOLLY OWNE  
RADIO DYNAMICS  
THE ALASKA WIRELESS NETWORK, LLC

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200


SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: R2023911 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

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Page 2

Respectfully Submitted,

A handwritten signature in black ink that reads "Jeremy B. Lewis". The signature is written in a cursive style with a large, prominent 'J' and 'L'.

Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: R2023911

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Anchorage, AK		
Call Sign:	E170205		
Latitude	(NAD83)	61 8	28.4 N
Longitude	(NAD83)	149 52	30.7 W
Elevation AMSL	(ft/m)	134.51	41.00
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-5959.85/6108.45-6137.75/6167.75-6330.49/6390.14-6425	
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	121.64	224.91
Antenna Centerline	(ft/m)	34.12	10.40
Antenna Elevation Angles	(deg)	7.52	12.86

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Equipment Parameters		Receive	Transmit
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Antenna Gain, Main Beam	(dbI)	41.60	45.60
15 DB Half Beamwidth	(deg)	1.50	1.00

Antennas            Receive: PRODELIN 1383 (3.8 M)  
                       Transmit: PRODELIN 1383 (3.8M)

Max Transmitter Power	(dbW/4KHz)		-17.80
Max EIRP Main Beam	(dbW/4KHz)		27.80
Modulation / Emission Designator	DIGITAL	72M0G7W	7M00G7W
		1M20G7W	

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Coordination Parameters		Receive	Transmit
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Max Greater Circle Distances	(km)	569.31	198.38
Max Rain Scatter Distances	(km)	398.51	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-153.90	-126.80
Rain Zone / Radio Zone		3	A



**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M2034509 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Alitek, 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:

01/27/2021 Original PCN (Expedited response requested by 02/10/2021)  
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:

COMSEARCH INC  
KODIAK MICROWAVE SYSTEM, LLC

Respectfully Submitted,



Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: M2034509

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Alitek, AK		
Call Sign:			
Latitude	(NAD83)	56 53	53.7 N
Longitude	(NAD83)	154 14	47.4 W
Elevation AMSL	(ft/m)	50.00	15.24
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-5989.5/6019.5-6048.8/6078.8-6271.19/6301.19-6330.49/6360.49-6425	
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	116.49	221.72
Antenna Centerline	(ft/m)	34.12	10.40
Antenna Elevation Angles	(deg)	7.61	17.68

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Equipment Parameters		Receive	Transmit
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Antenna Gain, Main Beam	(dbI)	37.60	42.00
15 DB Half Beamwidth	(deg)	1.50	1.00

Antennas            Receive: PRODELIN 1244 (2.4M)  
                       Transmit: PRODELIN 1244 (2.4M)

Max Transmitter Power	(dbW/4KHz)		-18.50
Max EIRP Main Beam	(dbW/4KHz)		23.50
Modulation / Emission Designator	DIGITAL	5M60G7W 2M80G7W	
		1M20G7W12M4G7W	

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Coordination Parameters		Receive	Transmit
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Max Greater Circle Distances	(km)	369.72	172.38
Max Rain Scatter Distances	(km)	296.52	100.00
Max Interference Power Long Term	(dbW)	-140.60	-178.00
Max Interference Power Short Term	(dbW)	-118.40	-154.80
Rain Zone / Radio Zone		3	A

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: N2034509 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Naknek, 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:

02/10/2021 Original PCN (Expedited response requested by 02/24/2021)  
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:

COMSEARCH INC  
NUSHAGAK ELECTRIC & TELEPHONE COOP  
RADIO DYNAMICS  
UNITED UTILITIES, INC.  
WIRELESS APPLICATIONS CORP

Respectfully Submitted,



Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: N2034509

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Naknek, AK		
Call Sign:			
Latitude	(NAD83)	58 43	43.7 N
Longitude	(NAD83)	157 0	0.9 W
Elevation AMSL	(ft/m)	16.00	4.88
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-6425	
Range of Satellite Orbital Long.	(deg W)	114.00	116.00
Range of Azimuths from North	(deg)	132.51	134.52
Antenna Centerline	(ft/m)	34.12	10.40
Antenna Elevation Angles	(deg)	13.89	14.67

Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	37.60	41.60
15 DB Half Beamwidth	(deg)	1.50	1.00
Antennas	Receive: PRODELIN 1244 (2.4M)		
	Transmit: PRODELIN 1244 (2.4M)		
Max Transmitter Power	(dbW/4KHz)		-15.44
Max EIRP Main Beam	(dbW/4KHz)		26.16
Modulation / Emission Designator	DIGITAL	5M60G7W	12M4G7W

Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	332.74	166.74
Max Rain Scatter Distances	(km)	282.26	100.00
Max Interference Power Long Term	(dbW)	-140.60	-178.00
Max Interference Power Short Term	(dbW)	-118.40	-154.80
Rain Zone / Radio Zone		3	A

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: L2034509 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

St Paul, 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:

06/07/2021 No-impact change notification pursuant to Section  
101.103(d)(2)(ix) - No response required.  
01/27/2021 Original PCN (Expedited response requested by 02/10/2021)  
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.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: L2034509

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	St Paul, AK		
Call Sign:			
Latitude	(NAD83)	57 7	23.0 N
Longitude	(NAD83)	170 16	45.0 W
Elevation AMSL	(ft/m)	26.25	8.00
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-6425	
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	102.44	204.25
Antenna Centerline	(ft/m)	6.56	2.00
Antenna Elevation Angles	(deg)	-0.75	22.50

Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	41.60	45.60
15 DB Half Beamwidth	(deg)	1.00	1.00
Antennas	Receive: PRODELIN 1383 (3.8 M)		
	Transmit: PRODELIN 1383 (3.8M)		
Max Transmitter Power	(dbW/4KHz)		-8.80
Max EIRP Main Beam	(dbW/4KHz)		36.80
Modulation / Emission Designator	DIGITAL 3M20G7W 2M80G7W		
	1M20G7W12M4G7W		

Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	591.87	343.49
Max Rain Scatter Distances	(km)	265.49	100.00
Max Interference Power Long Term	(dbW)	-140.60	-178.00
Max Interference Power Short Term	(dbW)	-118.40	-154.80
Rain Zone / Radio Zone		3	A

**Micronet Communications, Inc.**

812 Lexington Dr  
Plano, Texas 75075  
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: A2034509 5.93 GHz  
Licensee: Alaska Communications Internet, LLC

Page 1

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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:

Excursion Inlet, 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:

01/27/2021 Original PCN (Expedited response requested by 02/10/2021)  
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:

ALASCOM, INC.  
ALASKA POWER & TELEPHONE  
COMSEARCH INC  
FIBER ALASKA

Respectfully Submitted,



Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 812 Lexington Dr  
 Plano, Texas 75075  
 972-422-7200

File: A2034509

=====

TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company:	Alaska Communications Internet, LLC		
Site Name, State:	Excursion Inlet, AK		
Call Sign:			
Latitude	(NAD83)	58 24	55.3 N
Longitude	(NAD83)	135 26	36.4 W
Elevation AMSL	(ft/m)	34.00	10.36
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-5930.025/6019.5-6182.065/6242.065-6300.84/6419.79-6425	
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	134.98	239.71
Antenna Centerline	(ft/m)	34.12	10.40
Antenna Elevation Angles	(deg)	15.11	8.65

-----

Equipment Parameters		Receive	Transmit
----------------------	--	---------	----------

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Antenna Gain, Main Beam	(dbI)	37.60	42.00
15 DB Half Beamwidth	(deg)	1.50	1.00

Antennas            Receive: PRODELIN 1244 (2.4M)  
                      Transmit: PRODELIN 1244 (2.4M)

Max Transmitter Power	(dbW/4KHz)		-18.50
Max EIRP Main Beam	(dbW/4KHz)		23.50
Modulation / Emission Designator	DIGITAL	5M60G7W 12M4G7W	

-----

Coordination Parameters		Receive	Transmit
-------------------------	--	---------	----------

-----

Max Greater Circle Distances	(km)	369.72	172.38
Max Rain Scatter Distances	(km)	292.74	100.00
Max Interference Power Long Term	(dbW)	-140.60	-178.00
Max Interference Power Short Term	(dbW)	-118.40	-154.80
Rain Zone / Radio Zone		3	A



## II. 3.8m Rad Haz Report

### ANALYSIS OF NON-IONIZING RADIATION for Alaska Communications Internet LLC

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 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) = 3.8000 m  
Antenna Surface Area (Sa) =  $\pi(D^2)/4$  = 11.3411 m\*\*2  
Wavelength at 6.1750 GHz ( $\lambda$ ) = 0.0485 m  
Transmit Power at Flange (P) = 40.0000 Watts  
Antenna Gain at Earth Site (GES) = 46.2000 dBi = 41686.9383  
Power Ratio:  
AntiLog(GES/10)  
pi = 3.1415927  
Antenna Aperture Efficiency (n) = 0.6000

### 1. FAR ZONE CALCULATIONS

=====

$$\text{Distance to the Far Zone} \quad (Df) = \frac{(n) (D^{**2})}{\text{lambda}} = 178.6392 \text{ m}$$

$$\text{Far Zone Power Density} \quad (Rf) = \frac{(GES) (P)}{4 * \text{pi} * (Df^{**2})} = 4.1581 \text{ W/m}^{**2}$$
$$= 0.4158 \text{ mW/cm}^{**2}$$

### 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.

$$\text{Distance to the Near Zone} \quad (Dn) = \frac{D^{**2}}{4 * \text{lambda}} = 74.4330 \text{ m}$$

$$\text{Near Zone Power Density} \quad (Rn) = \frac{16.0 (n) P}{\text{pi} (D^{**2})} = 8.4648 \text{ W/m}^{**2}$$
$$= 0.8465 \text{ mW/cm}^{**2}$$

### 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

=====

$$\begin{aligned} \text{Main Reflector Power Density} &= \frac{2(P)}{S_a} = 7.0540 \text{ W/m}^2 \\ &= 0.7054 \text{ mW/cm}^2 \end{aligned}$$

5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND

=====

Applying uniform illumination of the Main Reflector Surface:

$$\begin{aligned} \text{Main to Ground Power Density} &= \frac{P}{S_a} = 3.5270 \text{ W/m}^2 \\ &= 0.3527 \text{ mW/cm}^2 \end{aligned}$$

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	4.5842	Complies with ANSI
2. Near Zone	4.1535	Complies with ANSI
3. Transition Zone	Rf < Rt < Rn	Complies with ANSI
4. Main Reflector Surface	4.2946	Complies with ANSI
5. Main Reflector to Ground	4.6473	Complies with ANSI

---

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

---

Zones	Safety Margins (mW/cm**2)	Conclusions
1. Far Zone	0.5842	Complies with ANSI
2. Near Zone	0.1535	Complies with ANSI
3. Transition Zone	Rf < Rt < Rn	Complies with ANSI
4. Main Reflector Surface	0.2946	Complies with ANSI
5. Main Reflector to Ground	0.6473	Complies with ANSI

6. EVALUATION

- =====
- A. Controlled Environment
  - B. Uncontrolled Environment
- All Zones comply with ANSI Standards.

III. 2.4m Rad Haz Report

ANALYSIS OF NON-IONIZING RADIATION  
for Alaska Communications Internet LLC

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 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) = 2.4000 m  
Antenna Surface Area (Sa) = pi(D\*\*2)/4 = 4.5239 m\*\*2  
Wavelength at 6.1750 GHz (lambda) = 0.0485 m  
Transmit Power at Flange (P) = 40.0000 Watts  
Antenna Gain at Earth Site (GES) = 41.6000 dBi = 14454.3977  
Power Ratio:  
AntiLog(GES/10)  
pi = 3.1415927  
Antenna Aperture Efficiency (n) = 0.6000

### 1. FAR ZONE CALCULATIONS

=====

$$\text{Distance to the Far Zone} \quad (Df) = \frac{(n)(D^{**2})}{\text{lambda}} = 71.2577 \text{ m}$$

$$\text{Far Zone Power Density} \quad (Rf) = \frac{(GES)(P)}{4*\text{pi}*(Df^{**2})} = 9.0612 \text{ W/m}^{**2}$$
$$= 0.9061 \text{ mW/cm}^{**2}$$

### 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.

$$\text{Distance to the Near Zone} \quad (Dn) = \frac{D^{**2}}{4*\text{lambda}} = 29.6907 \text{ m}$$

$$\text{Near Zone Power Density} \quad (Rn) = \frac{16.0(n)P}{\text{pi}(D^{**2})} = 21.2207 \text{ W/m}^{**2}$$
$$= 2.1221 \text{ mW/cm}^{**2}$$

### 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  
=====

$$\begin{aligned} \text{Main Reflector Power Density} &= \frac{2(P)}{S_a} &= 17.6839 \text{ W/m}^2 \\ & &= 1.7684 \text{ mW/cm}^2 \end{aligned}$$

5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND  
=====

Applying uniform illumination of the Main Reflector Surface:

$$\begin{aligned} \text{Main to Ground Power Density} &= \frac{P}{S_a} &= 8.8419 \text{ W/m}^2 \\ & &= 0.8842 \text{ mW/cm}^2 \end{aligned}$$

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	4.0939	Complies with ANSI
2. Near Zone	2.8779	Complies with ANSI
3. Transition Zone	Rf < Rt < Rn	Complies with ANSI
4. Main Reflector Surface	3.2316	Complies with ANSI
5. Main Reflector to Ground	4.1158	Complies with ANSI

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

Zones	Safety Margins (mW/cm**2)	Conclusions
1. Far Zone	0.0939	Complies with ANSI
2. Near Zone	-1.1221	POTENTIALLY HAZARDOUS
3. Transition Zone	Rf < Rt < Rn	Complies with ANSI
4. Main Reflector Surface	-0.7684	POTENTIALLY HAZARDOUS
5. Main Reflector to Ground	0.1158	Complies with ANSI

6. EVALUATION

=====

A. Controlled Environment

B. Uncontrolled Environment

The NEAR ZONE does not comply with the ANSI standards!

The system will be FENCED so that no one can enter the affected Zone while the system is in use. Additionally, the system will be shut down for servicing.

The MAIN Reflector Surface ZONE does not comply with the ANSI standards!

The system will be FENCED so that no one can enter the affected Zone while the system is in use. Additionally, the system will be shut down for servicing.



IV. 7.0m Rad Hazard Report

ANALYSIS OF NON-IONIZING RADIATION  
for Alaska Communications Internet LLC  
Site: Anchorage State: AK

Latitude: 61 8 28.4 Longitude: 149 52 30.7 (NAD83)  
05-12-2021

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 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) = 7.0000 m  
Antenna Surface Area (Sa) = pi(D\*\*2)/4 = 38.4845 m\*\*2  
Wavelength at 6.1750 GHz (lambda) = 0.0485 m  
Transmit Power at Flange (P) = 320.0000 Watts  
Antenna Gain at Earth Site (GES) = 51.0000 dBi = 125892.5412  
Power Ratio:  
AntiLog(GES/10)  
pi = 3.1415927  
Antenna Aperture Efficiency (n) = 0.6000

### 1. FAR ZONE CALCULATIONS

=====

$$\text{Distance to the Far Zone} \quad (Df) = \frac{(n)(D^{**2})}{\text{lambda}} = 606.1856 \text{ m}$$

$$\text{Far Zone Power Density} \quad (Rf) = \frac{(GES)(P)}{4*\text{pi}*(Df^{**2})} = 8.7243 \text{ W/m}^{**2}$$
$$= 0.8724 \text{ mW/cm}^{**2}$$

### 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.

$$\text{Distance to the Near Zone} \quad (Dn) = \frac{D^{**2}}{4*\text{lambda}} = 252.5773 \text{ m}$$

$$\text{Near Zone Power Density} \quad (Rn) = \frac{16.0(n)P}{\text{pi}(D^{**2})} = 19.9561 \text{ W/m}^{**2}$$
$$= 1.9956 \text{ mW/cm}^{**2}$$

### 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

=====

$$\begin{aligned} \text{Main Reflector Power Density} &= \frac{2(P)}{S_a} = 16.6301 \text{ W/m}^2 \\ &= 1.6630 \text{ mW/cm}^2 \end{aligned}$$

5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND

=====

Applying uniform illumination of the Main Reflector Surface:

$$\begin{aligned} \text{Main to Ground Power Density} &= \frac{P}{S_a} = 8.3150 \text{ W/m}^2 \\ &= 0.8315 \text{ mW/cm}^2 \end{aligned}$$

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	4.1276	Complies with ANSI
2. Near Zone	3.0044	Complies with ANSI
3. Transition Zone	Rf < Rt < Rn	Complies with ANSI
4. Main Reflector Surface	3.3370	Complies with ANSI
5. Main Reflector to Ground	4.1685	Complies with ANSI

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

Zones	Safety Margins (mW/cm**2)	Conclusions
1. Far Zone	0.1276	Complies with ANSI
2. Near Zone	-0.9956	POTENTIALLY HAZARDOUS
3. Transition Zone	Rf < Rt < Rn	Complies with ANSI
4. Main Reflector Surface	-0.6630	POTENTIALLY HAZARDOUS
5. Main Reflector to Ground	0.1685	Complies with ANSI

6. EVALUATION

=====

A. Controlled Environment

B. Uncontrolled Environment

The NEAR ZONE does not comply with the ANSI standards!

WARNING SIGNS will be posted for the affected Zone indicating danger while the system is in use. Additionally, the system will be shut down for servicing.

The MAIN Reflector Surface ZONE does not comply with the ANSI standards!

WARNING SIGNS will be posted for the affected Zone indicating danger while the system is in use. Additionally, the system will be shut down for servicing.

## V. Draft FCC Form 312 Schedule B

<b>APPLICATION FOR EARTH STATION AUTHORIZATIONS</b>  <b>FCC 312 MAIN FORM FOR OFFICIAL USE ONLY</b>	<b>FCC Use Only</b>
---	---------------------

### APPLICANT INFORMATION

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

Draft Form to Support 60-Day STA

1-8. Legal Name of Applicant			
Name:	Alaska Communications Internet, LLC	Phone Number:	907-297-3000
DBA Name:		Fax Number:	907-297-3153
Street:	600 Telephone Avenue MS #60	E-Mail:	Lisa.Phillips@acsalaska.com
City:	Anchorage	State:	AK
Country:	USA	Zipcode:	90503 -
Attention:	Ms. Lisa Phillips		
9-16. Name of Contact Representative			
Name:	Richard Cameron	Phone Number:	202-230-4962
Company:	LMI Advisors	Fax Number:	
Street:	2550 M Street NW Suite 343	E-Mail:	rcameron@lmiadvisors.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20037-
Attention:	Richard Cameron	Relationship:	Other

### CLASSIFICATION OF FILING

<p>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.</p> <p>a.</p> <p><input checked="" type="radio"/> a1. Earth Station (N/A) a2. Space Station</p>	<p>b.</p> <p><input type="radio"/> b1. Application for License of New Station</p> <p><input type="radio"/> b2. Application for Registration of New Domestic Receive-Only Station</p> <p>(N/A) b3. Amendment to a Pending Application</p> <p>(N/A) b4. Modification of License or Registration</p> <p>(N/A) b5. Assignment of License or Registration</p> <p>(N/A) b6. Transfer of Control of License or Registration</p> <p>(N/A) b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p>(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p><input checked="" type="radio"/> b10. Other (Please specify)</p> <p><input type="radio"/> 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.</p>
<p>17c. Is a fee submitted with this application?</p> <p><input type="radio"/> If Yes, complete and attach FCC Form 159.</p> <p>If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).</p> <p><input type="radio"/> Governmental Entity    <input type="radio"/> Noncommercial educational licensee</p> <p><input checked="" type="radio"/> Other (please explain): Draft Form</p>	
<p>17d.</p>	

Fee Classification

18. If this filing is in reference to an existing station, enter:  
(a) Call sign of station:  
Not Applicable

19. If this filing is an amendment to a pending application enter:  
(a) Date pending application was filed: (b) File number of pending application:  
Not Applicable Not Applicable

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)

21. STATUS: Choose the button next to the applicable status. Choose only one.  
 Common Carrier  Non-Common Carrier

22. If earth station applicant, check all that apply.  
 Using U.S. licensed satellites  
 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:

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  
(N/A) e. Geostationary Space Station  
(N/A) f. Non-Geostationary Space Station  
 g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.  
 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

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

**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  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?  Yes  No  
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

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 explanation 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 explanation 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  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 exhibit, 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  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 issued, what administration has coordinated or is in the process of coordinating the space station? Mexico

43. Description. (Summarize the nature of the application and the services to be provided). Draft Form

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.  B

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.  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)

LLC

45. Name of Person Signing  
Rick Benken

46. Title of Person Signing  
VP

47. Please supply any need attachments.

Attachment 1:

Attachment 2:

Attachment 3:



				10071			17 4	- 0

**REMOTE CONTROL POINT LOCATION**  
**REMOTE CONTROL POINT LOCATION**

E61. Call Sign  <b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b>		E65. Phone Number	
E62. Street Address			
E63. City	E67. County	E64/68. State/Country /	E66. Zip Code

**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:	Anchorage 7.0 Hub	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	Anchorage, AK
E11. Latitude:	61 ° 8 ' 28.4 " N		
E12. Longitude:	149 ° 52 ' 30.7 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	41.0 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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes <input type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>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</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**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.**

**POINTS OF COMMUNICATION**

Satellite Name:EUTELSAT115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)		
Anchorage 7.0 Hub	ANC7HUB	1	RSI SATCOM	700 CS	7.0	37.6 dBi at 3.740		
						41.6 dBi at 5.9650		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
ANC7HUB	0.0/0.0		30.0	41.0	0.0	320.0	0.0	81.1

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
ANC7HUB	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
ANC7HUB	5925 5959.85	T	Horizontal and Vertical	72M0G7W	81.1	33.5
E50. Modulation and Services Digital						
ANC7HUB	6360.49 6425	T	Horizontal and Vertical	72M0G7W	81.1	33.5
E50. Modulation and Services Digital						
ANC7HUB	5989.85 6078.45	T	Horizontal and Vertical	72M0G7W	81.1	33.5
E50. Modulation and Services Digital						
ANC7HUB	6108.45 6137.75	T	Horizontal and Vertical	72M0G7W	81.1	33.5
E50. Modulation and Services Digital						
ANC7HUB	6167.75 6330.49	T	Horizontal and Vertical	72M0G7W	81.1	33.5
E50. Modulation and Services Digital						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc	E56. Earth Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
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			<b>E/W Limit</b>	<b>Eastern Limit</b>		<b>Western Limit</b>		
ANC7HUB	Geostationary	3700 4200	114.0/ 116.0	140.45	14.62	142.53	15.25	0.0
	Geostationary	5925 5959.85	114.0/ 116.0	140.45	14.62	142.53	15.25	-63.55
	Geostationary	6360.49 6425	114.0/ 116.0	140.45	14.62	142.53	15.25	-63.55
	Geostationary	5989.85 6078.45	114.0/ 116.0	140.45	14.62	142.53	15.25	-63.55
	Geostationary	6108.45 6137.75	114.0/ 116.0	140.45	14.62	142.53	15.25	-63.55
	Geostationary	6167.75 6330.49	114.0/ 116.0	140.45	14.62	142.53	15.25	-63.55

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign		E65. Phone Number	
<p><b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b></p>			
E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

**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:	Silver Bay FP	E5: Call Sign:	
E2: Contact Name	Greg Tooke	E6: Phone Number:	(907) 550-8364
E3: Street:		E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	False Pass, AK
E11: Latitude:	54 ° 52 ' 4.5 " N		
E12: Longitude:	163 ° 24 ' 35.1 " W		
E13: Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14: Site Elevation (AMSL):	3.35 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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes <input type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>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.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name:EUTELSAT115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. 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	E41/42. Antenna GainTransmint and/or Recieve(____dBi at ____GHz)		
Silver Bay FP	SLVRBY FP	1	General Dynamics	Prodelin 3.8 Meter	3.8	42.0 dBi at 3.740		
						46.2 dBi at 5.9650		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
SLVRBY FP	0.0/0.0		3.0	6.0	0.0	10.0	0.0	49.4

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
SLVRBY FP	3700 4200	R	Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
SLVRBY FP	5925 6425	T	Vertical	72M0G7W	49.4	29.12
E50. Modulation and Services Digital						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)

SLVRBY FP	Geostationary	3700 4200	95.0/ 191.0	107.92	3.56	212.58	22.6	0.0
	Geostationary	5925 6425	95.0/ 191.0	107.92	3.56	212.58	22.6	-62.91

**REMOTE CONTROL POINT LOCATION**  
**REMOTE CONTROL POINT LOCATION**

E61. Call Sign  <b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b>		E65. Phone Number	
E62. Street Address			
E63. City	E67. County	E64/68. State/Country /	E66. Zip Code

**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:	Kotlik School	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:		E7. City:	
E4. State	AK	E8. County:	
E10. Area of Operation:		E9. Zip Code	
E11. Latitude:	63 ° 1 ' 53.0 " N	E10. Area of Operation:	Kotlik, AK
E12. Longitude:	163 ° 33 ' 17.0 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	0.91 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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> 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?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes	<input checked="" type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes	<input checked="" type="radio"/> No
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<b>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.</b>	<input type="radio"/> Yes	<input checked="" type="radio"/> No
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**POINTS OF COMMUNICATION**

Satellite Name:EUTELSAT115WB(S2938)   EUTELSAT 115 WB   114.9 W.L. 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	E41/42. Antenna GainTransmint and/or Recieve(____dBi at ____GHz)		
Kotlik School	KOTLIK	1	General Dynamics	1241	2.4	37.6 dBi at 3.740		
						41.6 dBi at 5.9650		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
KOTLIK	0.0/0.0		7.0	8.0	0.0	40.0	0.0	57.7

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
KOTLIK	5925 6425	T	Vertical	5M6G7W	57.7	25.19
E50. Modulation and Services Digital						
KOTLIK	3700 4200	R	Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
KOTLIK	Geostationary	3700 4200	95.0/191.0	109.29	0.86	210.23	15.36	0.0
	Geostationary	5925 6425	95.0/191.0	109.29	0.86	210.23	15.36	-56.29

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign				E65. 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			E67. County			E64/68. State/Country	E66. Zip Code

# 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:	Trident False Pass	E5. Call Sign:	
E2. Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:		E7. City:	
		E8. County:	
E4. State	AK	E9. Zip Code	
E10. Area of Operation:	False Pass, AK		
E11. Latitude:	54 ° 51 ' 54.0 " N		
E12. Longitude:	163 ° 24 ' 41.0 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	1.52 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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> 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?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes	<input checked="" type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes	<input checked="" type="radio"/> No
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<b>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.</b>	<input type="radio"/> Yes	<input checked="" type="radio"/> No
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### POINTS OF COMMUNICATION

Satellite Name:EUTELSAT115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. 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	E41/42. Antenna GainTransmint and/or Recieve(____dBi at ____GHz)

Trident False Pass	TRDNTPFP	1	General Dynamics	1241	2.4	0.0 dBi at		
<b>E28. Antenna Id</b>	<b>E33/34. Diameter Minor/Major(meters)</b>		<b>E35. Above Ground Level (meters)</b>	<b>E36. Above Sea Level (meters)</b>	<b>E37. Building Height Above Ground Level (meters)</b>	<b>E38. Total Input Power at antenna flange (Watts)</b>	<b>E39. Maximum Antenna Height Above Rooftop (meters)</b>	<b>E40. Total EIRP for al carriers (dBW)</b>
TRDNTPFP	0.0/0.0		3.0	5.4	0.0	40.0	0.0	57.7

**FREQUENCY**

<b>E28. Antenna Id</b>	<b>E43/44. Frequency Bands(MHz)</b>	<b>E45. T/R Mode</b>	<b>E46. Antenna Polarization(H,V,L,R)</b>	<b>E47. Emission Designator</b>	<b>E48. Maximum EIRP per Carrier(dBW)</b>	<b>E49. Maximum ERIP Density per Carrier(dBW/4kHz)</b>
TRDNTPFP	5925 6425	T	Vertical	5M6G7W	57.7	26.16
E50. Modulation and Services Digital						
TRDNTPFP	3700 4200	R	Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						

**FREQUENCY COORDINATION**

<b>E28. Antenna Id</b>	<b>E51. Satellite Orbit Type</b>	<b>E52/53. Frequency Limits(MHz)</b>	<b>E54/55. Range of Satellite Arc E/W Limit</b>	<b>E56. Earth Station Azimuth Angle Eastern Limit</b>	<b>E57. Antenna Elevation Angle Eastern Limit</b>	<b>E58. Earth Station Azimuth Angle Western Limit</b>	<b>E59. Antenna Elevation Angle Western Limit</b>	<b>E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)</b>
TRDNTPFP	Geostationary	3700 4200	95.0/191.0	107.93	3.56	212.58	22.66	0.0
	Geostationary	5925 6425	95.0/191.0	107.93	3.56	212.58	22.66	-56.79

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign				E65. 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			E67. County			E64/68. State/Country	E66. Zip Code

**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:	Anchorage 3.8 Hub	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:		E7. City:	
		E8. County:	



E4. State	E9. Zip Code
E10. Area of Operation:	Anchorage, AK
E11. Latitude: 61 ° 8 ' 28.4 " N	
E12. Longitude: 149 ° 52 ' 30.7 " W	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input checked="" type="radio"/> NAD-83 <input type="radio"/> N/A
E14. Site Elevation (AMSL):	41.0 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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes <input type="radio"/> No
--	---

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

<b>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.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
---	---

**POINTS OF COMMUNICATION**

Satellite Name: EUTELSAT115WB(S2938)   EUTELSAT 115 WB   114.9 W.L. 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:	E27. Country:
E26. Common Name:	

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Anchorage 3.8 Hub	DMDTEST3.8	1	General Dynamics	Prodelin 1383	3.8	37.6 dBi at 3.7400
						41.6 dBi at 5.9650

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
DMDTEST3.8	0.0/0.0	2.0	8.0	0.0	9.33	0.0	51.2

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
DMDTEST3.8	3700 4200	R	Vertical	72M0G7W	0.0	0.0

E50. Modulation and Services Digital						
DMDTEST3.8	5925 5959.85	T	Vertical	72M0G7W	51.2	23.11
E50. Modulation and Services Digital						
DMDTEST3.8	6390.14 6425	T	Vertical	72M0G7W	51.2	23.11
E50. Modulation and Services Digital						
DMDTEST3.8	6108.45 6137.75	T	Vertical	72M0G7W	51.2	23.11
E50. Modulation and Services Digital						
DMDTEST3.8	6167.75 6330.49	T	Vertical	72M0G7W	51.2	23.11
E50. Modulation and Services Digital						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
DMDTEST3.8	Geostationary	3700 4200	95.0/ 191.0	121.64	7.52	224.91	12.86	0.0
	Geostationary	5925 5959.85	95.0/ 191.0	121.64	7.52	224.91	12.86	-21.45
	Geostationary	6390.14 6425	95.0/ 191.0	121.64	7.52	224.91	12.86	-21.45
	Geostationary	6108.45 6137.75	95.0/ 191.0	121.64	7.52	224.91	12.86	-21.45
	Geostationary	6167.75 6330.49	95.0/ 191.0	121.64	7.52	224.91	12.86	-21.45

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E65. 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		E67. County		E64/68. State/Country	E66. Zip Code

**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:	Anchorage 2.4 Hub	E5: Call Sign:	
E2: Contact Name	Greg Tooke	E6: Phone Number:	(907) 550-8364

E3. Street:	E7. City:
E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 61 ° 8 ' 28.4 " N	Anchorage, AK
E12. Longitude: 149 ° 52 ' 30.7 " W	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input checked="" type="radio"/> NAD-83 <input type="radio"/> N/A
E14. Site Elevation (AMSL):	41.0 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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes <input type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

<b>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.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
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**POINTS OF COMMUNICATION**

Satellite Name:EUTELSAT115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Anchorage 2.4 Hub	DMDTEST2.4	1	General Dynamics	Prodelin 1244	2.4	37.6 dBi at 3.7400
						42.0 dBi at 5.9650

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
DMDTEST2.4	0.0/0.0	2.0	8.0	0.0	40.0	0.0	57.7

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency	E45. T/R	E46. Antenna Polarization(H,V,L,R)	E47. Emission	E48. Maximum EIRP per	E49. Maximum ERIP Density per
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	Bands(MHz)	Mode		Designator	Carrier(dBW)	Carrier(dBW/4kHz)
DMDTEST2.4	3700 4200	R	Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
DMDTEST2.4	5925 5959.85	T	Vertical	12M4G7W	57.7	23.11
E50. Modulation and Services Digital						
DMDTEST2.4	6390.14 6425	T	Vertical	12M4G7W	57.7	23.11
E50. Modulation and Services Digital						
DMDTEST2.4	6108.45 6137.75	T	Vertical	12M4G7W	57.7	23.11
E50. Modulation and Services 12M4G7W						
DMDTEST2.4	6167.75 6330.49	T	Vertical	12M4G7W	57.7	23.11
E50. Modulation and Services Digital						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
DMDTEST2.4	Geostationary	3700 4200	95.0/ 191.0	121.64	7.52	224.91	12.86	0.0
	Geostationary	5925 5959.85	95.0/ 191.0	121.64	7.52	224.91	12.86	-60.9
	Geostationary	6390.14 6425	95.0/ 191.0	121.64	7.52	224.91	12.86	-60.9
	Geostationary	6108.45 6137.75	95.0/ 191.0	121.64	7.52	224.91	12.86	-60.9
	Geostationary	6167.75 6330.49	95.0/ 191.0	121.64	7.52	224.91	12.86	-60.9

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign  <b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b>			E65. Phone Number		
E62. Street Address					
E63. City		E67. County		E64/68. State/Country	E66. Zip Code

**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: Naknek E5. Call Sign:

E2: Contact Name: Greg Tooke E6. Phone Number: (907) 550-8364

E3. Street: E7. City:

E4. State: AK E8. County:

E10. Area of Operation: Naknek, AK

E11. Latitude: 58 ° 43 ' 43.7 " N

E12. Longitude: 157 ° 0 ' 0.9 " W

E13. Lat/Lon Coordinates are:  NAD-27  NAD-83  N/A

E14. Site Elevation (AMSL): 4.88 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 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  No  N/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

**POINTS OF COMMUNICATION**

Satellite Name: EUTELSAT 115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Naknek	NAKNEK	1	General Dynamics	Prodelin 1244	2.4	37.6 dBi at 3.7400
						41.6 dBi at 5.9650

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
NAKNEK	0.0/0.0	3.0	4.88	0.0	40.0	0.0	57.7

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum EIRP Density per Carrier(dBW/4kHz)
NAKNEK	3700 4200	R	Vertical	72M0G7W	0.0	0.0

E50. Modulation and Services Digital

NAKNEK	5925 6425	T	Vertical	12M4G7W	57.7	26.16
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E50. Modulation and Services Digital

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
NAKNEK	Geostationary	3700 4200	114.0/116.0	132.51	13.89	134.52	14.67	0.0
	Geostationary	5925 6425	114.0/116.0	132.51	13.89	134.52	14.67	-60.47

**REMOTE CONTROL POINT LOCATION**  
**REMOTE CONTROL POINT LOCATION**

E61. Call Sign				E65. 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			E67. County			E64/68. State/Country	E66. Zip Code

**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:	Alitak	E5. Call Sign:
E2: Contact Name	Greg Tooke	E6. Phone Number:
E3. Street:		(907) 550-8364
E4. State	AK	E7. City:
E10. Area of Operation:		E8. County:
E11. Latitude:	56 ° 53 ' 53.7 " N	E9. Zip Code
E12. Longitude:	154 ° 14 ' 47.4 "	E10. Area of Operation:
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83
E14. Site Elevation (AMSL):	15.24 meters	<input type="radio"/> N/A

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	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> N/A
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by the manufacturer's qualification measurement? If NO, provide a technical analysis showing compliance with two-degree spacing policy.	
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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes <input type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>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.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name:EUTELSAT115WB(S2938)   EUTELSAT 115 WB   114.9 W.L. 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	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)		
Alitak	ALITAK	1	General Dynamics	Prodelin 1244	2.4	37.6 dBi at 3.7400		
						42.0 dBi at 5.9650		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
ALITAK	0.0/0.0		3.0	15.24	0.0	40.0	0.0	57.7

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
ALITAK	3700 4200	R	Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
ALITAK	5925 5989.5	T	Vertical	12M4G7W	57.7	23.5
E50. Modulation and Services Digital						
ALITAK	6360.49 6425	T	Vertical	12M4G7W	57.7	23.5
E50. Modulation and Services Digital						
ALITAK	6019.5 6048.8	T	Vertical	12M4G7W	57.7	23.5
E50. Modulation and Services Digital						
ALITAK	6078.8 6271.19	T	Vertical	12M4G7W	57.7	23.5

E50. Modulation and Services Digital						
ALITAK	6301.19 6330.49	T	Vertical	12M4G7W	57.7	23.5

E50. Modulation and Services Digital

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
ALITAK	Geostationary	3700 4200	95.0/ 191.0	116.49	7.61	221.72	17.68	0.0
	Geostationary	5925 5989.5	95.0/ 191.0	116.49	7.61	221.72	17.68	-62.16
	Geostationary	6360.49 6425	95.0/ 191.0	116.49	7.61	221.72	17.68	-62.16
	Geostationary	6019.5 6048.8	95.0/ 191.0	116.49	7.61	221.72	17.68	-62.16
	Geostationary	6078.8 6271.19	95.0/ 191.0	116.49	7.61	221.72	17.68	-62.16
	Geostationary	6301.19 6330.49	95.0/ 191.0	116.49	7.61	221.72	17.68	-62.16

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign	E65. 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	E67. County	E64/68. State/Country	E66. Zip Code
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**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:	Exursion Inlet
E2: Contact Name	Greg Tooke
E3. Street:	
E4. State	AK
E10. Area of Operation:	Exursion Inlet, AK
E11. Latitude:	58 ° 24 ' 55.3 " N
E5. Call Sign:	
E6. Phone Number:	(907) 550-8364
E7. City:	
E8. County:	
E9. Zip Code	



E12. Longitude:	135 ° 26 ' 36.4 " W
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input checked="" type="radio"/> NAD-83 <input type="radio"/> N/A
E14. Site Elevation (AMSL):	10.36 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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes <input type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>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.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name:EUTELSAT115WB(S2938)   EUTELSAT 115 WB   114.9 W.L. 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	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Exursion Inlet	EXCRINLT	1	General Dynamics	Prodelin 1244	2.4	37.6 dBi at 3.7400
						42.0 dBi at 5.9650

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
EXCRINLT	0.0/0.0	3.0	10.36	0.0	40.0	0.0	57.7

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
EXCRINLT	3700 4200	R	Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
EXCRINLT	6419.79 6425	T	Vertical	12M4G7W	57.7	23.5
E50. Modulation and Services Digital						

EXCRINLT	5925 5930.025	T	Vertical	12M4G7W	57.7	23.5
E50. Modulation and Services Digital						
EXCRINLT	6019.5 6182.065	T	Vertical	12M4G7W	57.7	23.5
E50. Modulation and Services Digital						
EXCRINLT	6242.065 6300.84	T	Vertical	12M4G7W	57.7	23.5
E50. Modulation and Services Digital						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
EXCRINLT	Geostationary	3700 4200	95.0/ 191.0	134.98	15.11	239.71	8.65	0.0
	Geostationary	6419.79 6425	95.0/ 191.0	134.98	15.11	239.71	8.65	-64.8
	Geostationary	5925 5930.025	95.0/ 191.0	134.98	15.11	239.71	8.65	-64.8
	Geostationary	6019.5 6182.065	95.0/ 191.0	134.98	15.11	239.71	8.65	-64.8
	Geostationary	6242.065 6300.84	95.0/ 191.0	134.98	15.11	239.71	8.65	-64.8

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign		E65. 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	E67. County	E64/68. State/Country	E66. Zip Code

**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:	St. Paul	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:		E7. City:	
E4. State	AK	E8. County:	
E10. Area of Operation:		E9. Zip Code	

St. Paul, AK

E11. Latitude: 57 ° 7 ' 23.0 " N  
 E12. Longitude: 170 ° 16 ' 45.0 " W  
 E13. Lat/Lon Coordinates are:  NAD-27  NAD-83  N/A  
 E14. Site Elevation (AMSL): 8.0 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 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  No  N/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

**POINTS OF COMMUNICATION**

Satellite Name: EUTELSAT 115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. 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	E41/42. Antenna Gain Transmitt and/or Recieve(____dBi at ____GHz)		
St. Paul	STPAUL	1	General Dynamics	Prodelin 1383	3.8	41.6 dBi at 3.7400		
						45.6 dBi at 5.9650		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height 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)
STPAUL	0.0/0.0		2.0	8.0	0.0	40.0	0.0	61.92

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
STPAUL	3700 4200	T	Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						

STPAUL	5925 6425	T	Vertical	12M4G7W	61.92	36.8
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E50. Modulation and Services Digital

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
STPAUL	Geostationary	3700 4200	95.0/191.0	102.44	-0.75	204.25	22.5	0.0
	Geostationary	5925 6425	95.0/191.0	102.44	-0.75	204.25	22.5	-60.12

**REMOTE CONTROL POINT LOCATION**

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign		E65. Phone Number	
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E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

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