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

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

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: N2030407 5.93 GHz Licensee: Alaska Communications Internet, LLC

Licensee: Alaska Communications Internet, LLC Page 1

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

Hooper Bay, 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:

10/30/2020 Original PCN (Expedited response requested by 11/13/2020)

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

Jeremy Lewis Systems Engineer

File: N2030407

TECHNICAL CHARACTERIST	TICS OF TRANS	MIT ONLY EAF	RTH STATION
Company	Alaska Commu	nications Tr	stornot IIC
<u> - </u>	Hooper Bay,		iternet, LLC
Call Sign:	nooper bay,	AII	
Latitude	(NDD83)	61 31	40 0 N
Longitude		166 6	
Elevation AMSL	(ft/m)	26.00	7 92
Receive Frequency Range	(MHz)	20.00	1.52
Transmit Frequency Range		5925-6137	7.75/6167.75-6389.79/6419.
6425	(/		
Range of Satellite Orbital Long.	. (deg W)	95.00	191.00
Range of Azimuths from North			
Antenna Centerline	(ft/m)	16.40	5.00
Antenna Elevation Angles	(deg)	0.20	17.34
Equipment Parameters		Transmit	
Antenna Gain, Main Beam	(dbI)	46.20	
15 DB Half Beamwidth			
	. 3.		
Antennas Transmit: GENERAI	L DYNAMICS 13	85 (3.8M)	
Max Transmitter Power Max EIRP Main Beam	(dbW/4KHz)		-15.44
			30.76
Modulation / Emission Designator	analog Analog	5M6UG/W	
Coordination Parameters		Transmit	
May Creater Circle Distance	(lem)	244 60	
Max Greater Circle Distances Max Rain Scatter Distances	(1rm)	100 00	
Max Interference Power Long Term	(APM)	-154.80	
Max Interference Power Short Ter	m (dbW)	-134.00 -126.80	
Rain Zone / Radio Zone	III (UDW)	3	А
INATII DOILE / INACTO DOILE		J	23

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

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,

Page 1

Jeremy Lewis Systems Engineer

File: M2111918

TECHNICAL CHARACTERISTI	CS OF TRANS	MIT RECEIVE EA	ARTH STATION
	=======	========	
Company: A	laska Commu	nications Inte	ernet, LLC
		alse Pas, AK	,
Call Sign:			
Latitude	(NAD83)	54 52	4.5 N
Longitude	(NAD83)	163 24 3 11.00	35.1 W
Elevation AMSL	(ft/m)	11.00	3.35
		3700-4200	
Transmit Frequency Range			
Range of Satellite Orbital Long.			
Range of Azimuths from North	(deg)	107.93	212.58
Antenna Centerline	(ft/m)	9.84 3.56	3.00
Antenna Elevation Angles	(deg)	3.56	22.66
Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbT)	42.00	46.20
		1.40	
13 DB Hall Beamwidth	(deg)	1.40	1.30
Antennas Receive: PRODELIN	3 8 METER		
Transmit: PRODELIN			
Transmite. Trobbilin	3.011		
Max Transmitter Power	(dbW/4KHz)		-17.08
Max Transmitter Power Max EIRP Main Beam	(dbW/4KHz)		29.12
Modulation / Emission Designator	DIGITAL	2M80G7W 72M00	37W
5M60G7W			
Coordination Parameters		Receive	Transmit
Max Greater Circle Distances		545.46 458.10	193.45
	(km)	458.10	100.00
Max Interference Power Long Term			
Max Interference Power Short Term	(dbW)		
Rain Zone / Radio Zone		3	A

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

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: N2035303 5.93 GHz Licensee: Alaska Communications Internet, LLC

Page 1

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

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:

01/29/2021 Original PCN (Expedited response requested by 02/12/2021)

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

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

STATE OF ALASKA

THE ALASKA WIRELESS NETWORK, LLC

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

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: N2035303 5.93 GHz Licensee: Alaska Communications Internet, LLC

Respectfully Submitted,

eremy S. Lewis

Page 2

Jeremy Lewis Systems Engineer

File: N2035303

	.========		==========			
TECHNICAL CHARACTERISTI			EARTH STATION			
	:========		==========			
Company:	laska Commur	nications In	ternet, LLC			
Site Name, State:	nchorage, Al	Χ				
Call Sign:	170205					
Latitude	(NAD83)	61 8	28.4 N			
Longitude	(NAD83)	149 52	30.7 W			
	(ft/m)					
Receive Frequency Range						
Transmit Frequency Range	(MHz)	5925-5959	.85/5989.85-6078.45/6108.4			
6137.75/6167.75-6330.49/6360.49-6						
Range of Satellite Orbital Long.						
Range of Azimuths from North	(deg)	140.45	142.53			
Antenna Centerline Antenna Elevation Angles	(ft/m)	34.12	10.40			
Antenna Elevation Angles	(deg)	14.62	15.25			
Equipment Parameters		Receive	Transmit			
Antenna Gain, Main Beam						
15 DB Half Beamwidth	(deg)	1.40	0.95			
Antennas Receive: RSI SATCOM 700CS (7M)						
Transmit: RSI SATO	OM 700CS (71	(P				
Max Transmitter Power	(dbW/4KHz)		-17.50			
Max EIRP Main Beam	(dbW/4KHz)		33.50			
Modulation / Emission Designator	DIGITAL	72M0G7W				
Goodination Demonstrate						
Coordination Parameters		Receive	Transmit			
May Creater Civale Distances	(lem)	160 16	164 20			
Max Greater Circle Distances Max Rain Scatter Distances						
	(4PM)	3/2.23 _150 60	_15/ 80			
Max Interference Power Long Term Max Interference Power Short Term	(CLDW)	-158.60 -153.90	-154.80 -126.80			
Rain Zone / Radio Zone	i (abw)	-153.90 3	-126.80 A			
Mari Bone / Madro Bone		J	7.7			

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

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

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

Respectfully Submitted,

eremy S. Lewis

Page 2

Jeremy Lewis Systems Engineer

File: P2034509

TECHNICAL CHARACTERISTI		_	
Company: A Site Name, State: A	laska Commun		ternet, LLC
	170205		
		61 8	28 4 N
Longitude	(NAD83) (NAD83)	149 52	30 7 W
Elevation AMSL	(ft/m)	134.51	41.00
Receive Frequency Range			
Transmit Frequency Range 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
	(ft/m)		
Antenna Elevation Angles	(deg)	7.52	12.86
Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	37.60	42.00
15 DB Half Beamwidth	(deg)	1.50	1.00
Antennas Receive: PRODELIN Transmit: PRODELIN			
Max Transmitter Power	(dbW/4KHz)		-18.89
	(dbW/4KHz)		
Modulation / Emission Designator			
Coordination Parameters			Transmit
Max Greater Circle Distances Max Rain Scatter Distances Max Interference Power Long Term	(km) (dbW)	569.31 398.51 -158.60	-154.80
Max Interference Power Short Term Rain Zone / Radio Zone	(dbW)	-153.90 3	-126.80 A

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

SUPPLEMENTAL SHOWING PART 101.103(D)

Page 1

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

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

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

Licensee: Alaska Communications Internet, LLC Page 2

Respectfully Submitted,

eremy S. Lewis

Jeremy Lewis Systems Engineer

File: R2023911

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION				
			============	
	laska Commun:	ications In	ternet, LLC	
Site Name, State:				
	170205			
Latitude	(NAD83) (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 6330.49/6390.14-6425	(MHz)	5925-5959	.85/6108.45-6137.75/6167.75-	
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				
j	. 5.			
Equipment Parameters		Receive	Transmit	
Antenna Gain, Main Beam	(dbI)	41.60	45.60	
15 DB Half Beamwidth	(deg)	1.50	1.00	
Antennas Receive: PRODELIN)		
Transmit: PRODELIN	1 1383 (3.8M)			
Mara Haranani than Danan	/ -11- T.T / / TZTT _ \		17.00	
Max Transmitter Power Max EIRP Main Beam	(QDW/4KHZ)		-17.80	
Madulation / Emission Designation	(QDW/4KHZ)	701400757 7140	27.80	
Modulation / Emission Designator 1M20G7W	DIGITAL	/ZMUG/W /MU	UG/W	
IM20G/W				
Coordination Parameters			Transmit	
Max Greater Circle Distances	(km)	569.31	198.38	
Max Rain Scatter Distances				
Max Interference Power Long Term	(dbW)	-158.60		
Max Interference Power Short Term	n (dbW)	-153.90	-126.80	
Rain Zone / Radio Zone	•	3	А	

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

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 B. Lewis

Page 1

Jeremy Lewis Systems Engineer

File: M2034509

		===========
TICS OF TRANS	MIT RECEIVE	EARTH STATION
========		=======================================
	nications In	ternet, LLC
Alitek, AK		
(NAD83)	56 53	53.7 N
(NAD83)	154 14	4/.4 W
(IT/M)	3700 4200	15.24
	3923-3989	.5/6019.5-6048.8/60/8.8-
	95 00	191.00
(deg N)	116.49	
_		
		Transmit
(dbI)	37.60	42.00
(deg)	1.50	1.00
(dbW/4KHz)		-18.50
(dbW/4KHz)		23.50
r DIGITAL	5M60G7W 2M8	0G7W
	Receive	Transmit
(km)	369.72	172.38
(km)	296.52	100.00
m (dbW)	-140.60	-178.00
rm (dbW)		-154.80
	3	A
	Alaska Commu Alitek, AK (NAD83) (NAD83) (ft/m) (MHz) (6425) (deg W) (deg) (ft/m) (deg) (ft/m) (deg) (MBZ) (MHZ)	(NAD83) 56 53 (NAD83) 154 14 (ft/m) 50.00 (MHz) 3700-4200 (MHz) 5925-5989 -6425 (deg W) 95.00 (deg) 116.49 (ft/m) 34.12 (deg) 7.61 Receive (dbI) 37.60 (deg) 1.50 IN 1244 (2.4M) IN 1244 (2.4M) (dbW/4KHz) (dbW/4KHz) (dbW/4KHz) CDIGITAL 5M60G7W 2M8 Receive (km) 369.72 (km) 296.52 n (dbW) -140.60

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

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 S. Lewis

Page 1

Jeremy Lewis Systems Engineer

File: N2034509

=======================================			
TECHNICAL CHARACTERISTIC	CS OF TRANSMI	T RECEIVE EA	RTH STATION
		=======	========
Company: A	laska Communi	cations Inte	rnet, LLC
<u> </u>	aknek, AK		
Call Sign:			
Latitude		58 43 4	
Longitude	(NAD83)	157 0	0.9 W
Elevation AMSL	(ft/m) (MHz)	16.00	4.88
Receive Frequency Range			
	(MHz)	5925-6425	116 00
Range of Satellite Orbital Long.			
Range of Azimuths from North Antenna Centerline			
Antenna Centerline Antenna Elevation Angles	(ft/m)	34.1Z	10.40
Antenna Elevation Angles	(deg)	13.09	14.07
Equipment Parameters		Receive	Transmit
		0.760	44 60
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			
Max Transmitter Power Max EIRP Main Beam	(dbW/4KHz)		-15.44
Max EIRP Main Beam	(dbW/4KHz)		26.16
Modulation / Emission Designator	DIGITAL 5	M60G7W 12M4G	7 W
Coordination Daymetons			
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	100.00 -178.00
Max Interference Power Short Term	(dbW)	-118.40	-154.80
Rain Zone / Radio Zone		3	A

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

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 B. Lewis

Page 1

Jeremy Lewis Systems Engineer

File: L2034509

		.========		
TECHNICAL CHARACTERIS				
Company:	Alaska Commu	nications In	ternet, 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		3700-4200		
Transmit Frequency Range		5925-6425		
Range of Satellite Orbital Long Range of Azimuths from North	(deg w)	102.44	204.25	
Antenna Centerline	(ft/m)	6.56	2.00	
Antenna Elevation Angles	(dea)	-0.75		
-	_		22.00	
Equipment Parameters			Transmit	
Antenna Gain, Main Beam	(dhT)	41.60	45 60	
15 DB Half Beamwidth		1.00		
10 BB Hall Beamwiden	(409)	1.00	1.00	
Antennas Receive: PRODELT Transmit: PRODELT	·	•		
II diisiii C. FRODELI.	IN 1303 (3.0M	1)		
Max Transmitter Power	(dbW/4KHz)		-8.80	
Max EIRP Main Beam	(dbW/4KHz)		36.80	
Modulation / Emission Designator 1M20G7W12M4G7W	r DIGITAL	3M20G7W 2M80	OG7W	
Coordination Parameters		Receive	 Transmit	
Max Greater Circle Distances		591.87		
Max Rain Scatter Distances	(km)	265.49	100.00	
Max Interference Power Long Terr	n (abw)	-140.60	-178.00	
Max Interference Power Short Ter Rain Zone / Radio Zone	rm (abw)	-118.40 3	-154.80	
Nath Lone / Nauto Lone		J	A	

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

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 S. Lewis

Page 1

Jeremy Lewis Systems Engineer

File: A2034509

TECHNICAL CHARACTERIST	TCC OF TRANSM		
TECHNICAL CHARACTERIST			EARTH STATION
Company:	Alaska Commun	ications In	ternet. LLC
	Excursion Inl		501.150 , 120
Call Sign:		,	
Latitude	(NAD83)	58 24	55.3 N
Longitude		135 26	
Elevation AMSL		34.00	
Receive Frequency Range		3700-4200	
Transmit Frequency Range 6300.84/6419.79-6425			.025/6019.5-6182.065/6242.065
Range of Satellite Orbital Long.	(deg W)	95.00	191.00
Range of Azimuths from North	(deg)	134.98	239.71
Antenna Centerline		34.12	
Antenna Elevation Angles	(deg)	15.11	8.65
Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	37.60	42.00
15 DB Half Beamwidth	(deg)	1.50	1.00
Antennas Receive: PRODELI Transmit: PRODELI			
Max Transmitter Power	(dbW/4KHz)		-18.50
	(dbW/4KHz)		23.50
Modulation / Emission Designator	DIGITAL	5M60G7W 12M	4G7W
Coordination Parameters		Receive	Transmit
Max Greater Circle Distances Max Rain Scatter Distances	(km) (km)	369.72 292.74	172.38 100.00
Max Interference Power Long Term Max Interference Power Short Ter Rain Zone / Radio Zone	(dbW)	-140.60	-178.00

File: N2112346

	-========		:=========
TECHNICAL CHARACTERIST	CICS OF TRANSM	IT RECEIVE	EARTH STATION
	-========	=======	
Company:	Alaska Communi	ications I	nternet, LLC
•	Kotlik School,	, AK	
Call Sign:			
Latitude	(NAD83)		
Longitude	(NAD83)	2 00	0 01
Elevation AMSL	(ft/m)	3.00 3700-420	0.91
Receive Frequency Range Transmit Frequency Range	(MHz) (MHz)	5925-642	5
Range of Satellite Orbital Long.			
	(deg)	109 29	
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: GENERAI	DVNAMTCC 1941	1 (2 / M)	
Transmit: GENERAL			
		,	
Max Transmitter Power	(dBW/4KHz)		-16.41
	(dBW/4KHz)		25.19
Modulation / Emission Designator	S DIGITAL S	DMOG/W	
Coordination Parameters		Receive 	Transmit
Max Greater Circle Distances			
Max Rain Scatter Distances			
Max Interference Power Long Term			
Max Interference Power Short Ter	rm (dBW/MHz)		
Rain Zone / Radio Zone		3	A

Trident False Pass Data Sheet

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

File: M2112346

TECHNICAL CHARACTERISTIC		_	
Company: Site Name, State: Call Sign:	Alaska Communi Trident False	ications 1	
Latitude Longitude	(NAD83)	54 51 163 24 5.00	4 41.0 W
Elevation AMSL Receive Frequency Range Transmit Frequency Range	(MHz)	3700-420 5925-642	00 25
Range of Satellite Orbital Long Range of Azimuths from North Antenna Centerline		107.93	212.58
Antenna Elevation Angles	(deg)	3.56	22.66
Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam 15 DB Half Beamwidth	(dbI) (deg)	37.60 4.90	41.60 2.00
Antennas Receive: GENERAL Transmit: GENERAL			
Max EIRP Main Beam Modulation / Emission Designator	(dBW/4KHz) (dBW/4KHz) r DIGITAL 5	5M6G7W	-15.44 26.16
Coordination Parameters			Transmit
Max Greater Circle Distances Max Rain Scatter Distances Max Interference Power Long Terr Max Interference Power Short Ter Rain Zone / Radio Zone	(km) m (dBW/MHz)	458.10 -134.60	-130.80

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

Far Zone Power Density (Rf) = (GES)(P) =
$$4.1581 \text{ W/m**2}$$

------ $4*\text{pi*}(\text{Df**2})$ = 0.4158 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.

Distance to the Near Zone (Dn) =
$$D^{**2}$$
 = 74.4330 m 4^* lambda Near Zone Power Density (Rn) = $16.0(n)P$ = 8.4648 W/m**2

pi(D**2)

= 0.8465 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

Main Reflector Power Density = 2(P) = 7.0540 W/m**2

Sa

= 0.7054 mW/cm**2

5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND

Applying uniform illumination of the Main Reflector Surface:

Main to Ground Power Density = P = 3.5270 W/m**2

Sa

= 0.3527 mW/cm**2

CALCULATED SAFETY MARGINS SUMMARY AND EVALUATION

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

	Zones	Safety Margins (mW/cm**2)	Conclusions
1.	Far Zone	4.5842	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.

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

Distance to the Far Zone (Df) = (n)(D**2) = 71.2577 m
$$------$$
 lambda

Far Zone Power Density (Rf) = (GES)(P) =
$$9.0612 \text{ W/m**2}$$

------ $4*\text{pi*(Df**2)}$
= 0.9061 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.

Distance to the Near Zone (Dn) =
$$D^{**2}$$
 = 29.6907 m $4*1$ ambda

Near Zone Power Density (Rn) = $16.0(n)$ P = 21.2207 W/m**2

pi(D**2)

= 2.1221 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

Main Reflector Power Density = 2(P) = 17.6839 W/m**2

Sa

= 1.7684 mW/cm**2

5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND

Applying uniform illumination of the Main Reflector Surface:

Main to Ground Power Density = P = 8.8419 W/m**2

Sa

= 0.8842 mW/cm**2

CALCULATED SAFETY MARGINS SUMMARY AND EVALUATION

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

	Zones	Safety Margins (mW/cm**2)	Conclusions
1.	Far Zone	4.0939	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)

Safety
Margins Conclusions

(mW/cm**2)

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

Far Zone Power Density (Rf) = (GES)(P) =
$$8.7243 \text{ W/m**2}$$

------ $4*\text{pi*}(\text{Df**2})$ = 0.8724 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.

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

Near Zone Power Density (Rn) = $16.0(n)P$ = $19.9561 W/m^{**2}$

pi(D**2) = 1.9956 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

Main Reflector Power Density = 2(P) = 16.6301 W/m**2

Sa

= 1.6630 mW/cm**2

5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND

Applying uniform illumination of the Main Reflector Surface:

Main to Ground Power Density = P = 8.3150 W/m**2

Sa

= 0.8315 mW/cm**2

CALCULATED SAFETY MARGINS SUMMARY AND EVALUATION

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

	Zones	Safety Margins (mW/cm**2)	Conclusions
1.	Far Zone	4.1276	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

APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY FCC Use Only

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: Draft Form to Support 60-Day STA (May 2021)

- 1 01 1 0 1 1 1	to support of Buy Siri (May 20	,			
1-8. Legal N	Name of Applicant				
Name:	Alaska Communications Internet,	LLC	Phone	Number:	907-297-3000
DBA Name:			Fax N	umber:	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:		202-230-49	962
Company:	LMI Advisors	Fax Number:			
Street:	2550 M Street NW	E-Mail:		rcameron@	lmiadvisors.com
	Suite 343				
City:	Washington	State:		DC	
Country:	USA	Zipcode:		20037-	
Attention:	Richard Cameron	Relationship:		Other	

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b. a. a1. Earth Station (N/A) a2. Space Station	b. b1. Application for License of New Station b2. Application for Registration of New Domestic Receive-Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States				
b10. Other (Please specify)					
	b11. Application for Earth Station to Access a Non-U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.				
17c. Is a fee submitted with this application	?				
If Yes, complete and attach FCC Form	159.				
If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114). Governmental Entity Noncommercial educational licensee Other(please explain): Draft Form					
17d.					

	rec.gov/ibioweb/ib.page.r eterii			amous areplay							
Fee Classification	71										
18. If this filing is in reference to an	19. If this filing is an amen	dment to a pending	application enter:								
existing station, enter:	(a) Date pending application	n was filed:	(b) File number of pendi	ng application:							
(a) Call sign of station: Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable										
	!L	SERVICE	11								
20. NATURE OF SERVICE: This filing is			ng type(s) of service(s): Sele	ect all that apply:							
20. NATURE OF SERVICE. This fining is	101 an aumorization to provid	ic of use the followi	ing type(s) of service(s). Serv	et an that appry.							
a. Fixed Satellite	a Fixed Satellita										
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	e applicable status. Choose	22. If earth station	applicant, check all that app	ly.							
only one.	·FF	II	ensed satellites								
Common Carrier Non-Common C	Carrier	Using Non-U.	S. licensed satellites								
23. If applicant is providing INTERNATION these facilities:	NAL COMMON CARRIER	service, see instruct	ions regarding Sec. 214 filin	gs. Choose one. Are							
Connected to a Public Switched Netwo	ork Not connected to a P	ublic Switched Net	work N/A								
24. FREQUENCY BAND(S): Place an "X"	in the box(es) next to all app	plicable frequency b	pand(s).								
a. C-Band (4/6 GHz) 🔲 b. Ku-Band ((12/14 GHz)										
C.Other (Please specify upper and lower	er frequencies in MHz.)										
Frequency Lower: Frequency Upper:											
		STATION									
25. CLASS OF STATION: Choose the butt	on next to the class of station	that applies. Choos	se 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 FACILIT	Y· Choose only one										
Transmit/Receive Transmit-Only	•										
	PURPOSE OF N	MODIFICATIO	V								
27. The purpose of this proposed modifica											
Not Applicable	tion is to. (I face all X in the	box(cs) liext to all t	mat appry.)								
Not Applicable	EM AD OND AD	NEAL BOLICE									
		NTAL POLICY									
28. Would a Commission grant of any propimpact as defined by 47 CFR 1.1307? If Y				Yes No							
the Commission's rules, 47 C.F.R. §§ 1.130				Yes No							
Study must accompany all applications for											
ALIEN OWNERSHIP Earth station	on applicants not propos	sing to provide h	proadcast. common cari	rier, aeronautical en							
	fixed radio station service	~ .	•								
29. Is the applicant a foreign government of	or the representative of any fo	oreign government?		Yes No							
30. Is the applicant an alien or the represen	ntative of an alien?		0	Yes O No O N/A							
31. Is the applicant a corporation organized under the laws of any foreign government? Yes No N/A											

32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	○ Yes ○ No ○ N/A
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	○ Yes ○ No ◎ N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	
BASIC QUALIFICATIONS	
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	○ Yes ◎ No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	○ Yes ○ No
37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	○ Yes ◎ No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	○ Yes ◎ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	○ 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 coordinated or is in the process of coordinating the space station? Mexico	d, what administration has
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.	
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.	Ов
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	O C
CERTIFIC ATION	

CERTIFICATION

/2021	nttps://licensing.fcc.gov/ibfsweb/ib.page.FetcnForm?id_app_num=138045&form=P013_101.ntm&mode=display
application. The applicant limit in 47 CFR Part 20. A application. The undersig	the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this a certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this ned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached a and correct to the best of his or her knowledge and belief, and are made in good faith.
44. Applicant is a (an): (C	Choose the button next to applicable response.)

Individual Unincorporated Association Partnership Corporation O Governmental Entity Other (please specify) LLC 45. Name of Person Signing 46. Title of Person Signing VP Rick Benken 47. Please supply any need attachments. Attachment 2: Attachment 1: Attachment 3:

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

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

FOR OFFICIAL USE ONLY

Location of Earth Station Si	te								
E1: Site Identifier:	Hooper Bay	E5. Call Sign:							
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364	1					
E3. Street:	Blackberry Street E7. City: Hooper Bay								
		E8. County:							
E4. State	AK	E9. Zip Code	99604						
E10. Area of Operation:		Hooper Bay, AK							
E11. Latitude:	61 ° 31 ' 40.0 " N								
E12. Longitude:	166 ° 6 ' 22.5 " W								
E13. Lat/Lon Coordinates a	re:	○ NAD-27	NAD-83	○ N/A					
E14. Site Elevation (AMSL):	7.92 meters							
E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.									
216. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed atellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna ain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification Yes No N/A									
E17. Is the facility operated point.	17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control oint.								
E18. Is frequency coor	ination report as	Yes No							
s://licensing.fcc.gov/ibfsweb/i	ib.page.FetchForm?id_app_num	n=138045&form=P013_101.htm&m	ode=display	4/					

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	No
E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	○ Yes	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	Man	E30. nufacturer	E31. Model	E32. Antenna Size		E41/42. Antenr Recieve(na GainTransmin dBi atG	t and/or Hz)
Hooper Bay	НООРВАУ	1	Gene Dyna	eral amics	1385	3.8	41.8 dBi at 3.740			
							46.	2 dBi at 5.9650		
E28. Anten Id	na E33/3	34. Diamet Major(me		E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Buildi Height Abo Ground Le (meters)	vel	at antenna	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for

0.0

0.0

40.0

62.5

7.92

FREQUENCY

HOOPBAY 0.0/0.0

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)			
HOOPBAY	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0			
E50. Modula	E50. Modulation and Services Digital								
HOOPBAY	5925 6137.75	Т	Horizontal and Vertical	12M4G7W	62.5	27.31			
E50. Modula	ation and Service	es Digita	1						
HOOPBAY	6419.79 6425	Т	Horizontal and Vertical 12M4G7W 62.5			27.31			
E50. Modula	ation and Service	es Digita	1						
	6167.75 6389.79	Т	Horizontal and Vertical	12M4G7W	62.5	27.31			
E50. Modula	ation and Service	es Digita	1						

FREQUENCY COORDINATION

	E28. Antenna Id	E51. Satellite Orbit Type	Hraananav	1	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	Angle	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
]]	HOOPBAY	Geostationary	3700 4200	95.0/	106.74	0.2	207.83	17.34	0.0

4.0

		191.0					
Geostationary	5925 6137.75	95.0/ 191.0	106.74	0.2	207.83	17.34	-60.0
Geostationary	6419.79 6425	95.0/ 191.0	106.74	0.2	207.83	17.34	-60.0
Geostationary	6167.75 6389.79	95.0/ 191.0	106.74	0.2	207.83	17.34	-60.0

	0367.77	171.0		<u> </u>			
REMOTE CONTROL POIN	T LOCATION						
REMOTE CONTROL POIN	T LOCATION						
E61. Call Sign					Ī	E65. Phone Number	
C							
NOTE: Please enter the callsig	n of the controlling	station, not t	he callsign fo	r which this a	pplication is		
being filed.							
E62. Street Address							
E63. City			E67. County			E64/68.	E66. Zip
						State/Country	Code
						/	
		TADTI	I OTATIA		HODIZAT	CIONC	
	SATELLITE						
FCC F	orm 312 - Scl	nedule B	:(Technic	al and O	perational	l Description)	
		FOR O	FFICIAL	USE ONL	Y		
Location of Earth Station Site							
E1. Cita Idantifian	Amahamara 7 O I	T la	E5 Call	Ciam.			

,*								
Location of Earth Station S	ite							
E1: Site Identifier:	Anchorage 7.0 Hub	E5. Call Sign:						
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-836	54				
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:	○ NAD-27	NAD-83	○ N/A				
E14. Site Elevation (AMSI								
by the manufacturer's quality two-degree spacing policy. E16. If the proposed antenn Satellite Service (FSS) with	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 No N/A							
E17. Is the facility operated point.	by remote control? If YES, provide	de the location and telephone nu	umber of the control	O Yes O No				
E18. Is frequency coordination required? If YES, attach a frequency coordination report as								
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as								
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								
too://liconoing.foo.gov/ibfowob	/ib page EstabEorm2id app pum=1	200458 form=D012 101 htm8 mo	do-display	61				

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.

n.	n	T	Tr	Г	3 /	n	F		•	N.	/	M /	TT	TR	TI				T	^	NT.	ď
_		лШ	v		•	.,	r	١.		ж	71	IV		JI.	V I	•	. А	١.		•	и.	٧

Satellite Name: EUTELSAT115WB(S2938) EUTELSAT 115 WB	3 114.9 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. Manufact	- 1	E31 Mod	- 1	E32. Antenna Size	E41/42. Antenna GainTransmint and/or Recieve(dBi atGHz)		
Anchorage 7.0 Hub	ANC7HUB	1	RSI SATC	ОМ	700 CS		7.0	37.6 dBi at 3.74	0	
								41.6 dBi at 5.9650		
E28. Antenna Id	E33/34. D Minor/Majo		E35. Above Ground Level (meters)	E3 Abo So Lev (met	Height Above Ground Level		eight Above ound Level	at antenna	E39. Maximum Antenna Height Above Rooftop (meters)	I I
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. Modula	E50. Modulation and Services Digital									
ANC7HUB 5925 5959.85 T Horizontal and Vertical 72M0G7W 81.1 33.5										
E50. Modula	ation and Service	es Digita	1							
ANC7HUB	6360.49 6425	T	Horizontal and Vertical	72M0G7W	81.1	33.5				
E50. Modula	ation and Service	es Digita	1							
ANC7HUB	5989.85 6078.45	Т	Horizontal and Vertical	72M0G7W	81.1	33.5				
E50. Modula	ation and Service	es Digita	1							
ANC7HUB	6108.45 6137.75	Т	Horizontal and Vertical	72M0G7W	81.1	33.5				
E50. Modula	ation and Service	es Digita	1			W				
ANC7HUB	6167.75 6330.49	Т	Horizontal and Vertical	72M0G7W	81.1	33.5				
E50. Modula	ation and Service	es Digita	1		· · · · · · · · · · · · · · · · · · ·					

FREQUENCY COORDINATION

E28.	E51. Satellite	E52/53.	E54/55.	E56.	E57.	E58.	E59.	E60. Maximum
Antenna	Orbit Type	Frequency	Range	Earth	Antenna	Earth	Antenna	EIRP Density
Id		Limits(MHz)	of	Station	Elevation	Station	Elevation	toward the
			Satellite	Azimuth	Angle	Azimuth	Angle	Horizon(dBW/4kHz)
			Arc	Angle	Eastern	Angle	Western	
					Limit		Limit	

			E/W Limit	Eastern Limit		Western Limit		
ANC7HUB	Geostationary	13700 4700	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	
NOTE: Please enter the callsign of the controlling station, not the being filed.	ne callsign for which this application is		
E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code
SATELLITE EARTH FCC Form 312 - Schedule B	STATION AUTHORIZA (Technical and Operations		

	FOF	R OFFICIAL USE ON	LY		
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:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operation:		False Pass, AK			
E11. Latitude:	54 ° 52 ' 4.5 " N				
E12. Longitude:	163 ° 24 ' 35.1 " W				
E13. Lat/Lon Coordinates are	:	○ NAD-27	NAD-83		○ N/A
E14. Site Elevation (AMSL):		3.35 meters			
E15. If the proposed antenna(s) proposed antenna(s) comply w by the manufacturer's qualificatwo-degree spacing policy.	with the antenna gain patterns	specified in Section 25.209(a	a) and (b) as demonstrated	Yes	◎ No N/A
E16. If the proposed antenna(s Satellite Service (FSS) with no gain patterns specified in Sect measurements?	on-geostationary satellites, do	o(es) the proposed antenna(s)	comply with the antenna	O Yes	○No N/A

/8/2021 https://licensing.fcc.gov/ibfsweb/ib.page.FetchForm?id_app_num=138045&form=P013_101.	htm&mode=di	splay
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	Yes	O No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	No
E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Yes	No
POINTS OF COMMUNICATION		
Satellite Name: FLITFL SAT115WR(S2938) FLITFL SAT 115 WR 114 9 W L. If you selected	1 OTHER	nlease enter

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. Manufactur	er Mod		E32. Antenna Size	E41/42. Ante Recieve(enna GainTransm dBi at	int and/or GHz)
	SLVRBY FP	1	General Dynamics	Prodel 3.8 Me		3.8	42.0 dBi at 3.740		
							46.2 dBi at 5.96	550	
E28. Antenna Id	tenna E33/34. Diameter Minor/Major(meters)		('round	E36. Above Sea Level (meters)	Hei Gro	7. Building ght Above bund 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. Mod	E50. Modulation and Services Digital								
SLVRBY FP	5925 6425	Т	Vertical	72M0G7W	49.4	29.12			
E50. Mod	E50. Modulation and Services Digital								

FREQUENCY COORDINATION

E28. Antenna Id		I Promitonov	 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 POIN	T L OCATION				
REMOTE CONTROL POIN REMOTE CONTROL POIN					
E61. Call Sign			E65. Phor	ne Number	
NOTE: Please enter the callsig being filed.	gn of the controlling station, not	the callsign for which this application	is		
E62. Street Address					
			1		
E63. City		E67. County	ll ll	1/68. te/Country	E66. Zip Code
	orm 312 - Schedule I	H STATION AUTHORIZ B:(Technical and Operation OFFICIAL USE ONLY			
F 0F 4.9 91.					1
Location of Earth Station Site E1: Site Identifier:	Kotlik School	E5. Call Sign:			
E2: Contact Name	Greg Tooke		7) 550-8364	1	
E3. Street:	Greg Tooke	E7. City:	7) 550-650-	T	
Es. sacca		E8. County:			
E4. State	AK	E9. Zip Code			
E10. Area of Operation:		Kotlik, AK			
E11. Latitude:	63 ° 1 ' 53.0 " N				
E12. Longitude:	163 ° 33 ' 17.0 " W				
E13. Lat/Lon Coordinates are	:	○ NAD-27	NAD-83	(○N/A
E14. Site Elevation (AMSL):		0.91 meters			
proposed antenna(s) comply w by the manufacturer's qualifica two-degree spacing policy.	with the antenna gain patterns sp ation measurement? If NO, prov	Service (FSS) with geostationary satellipecified in Section 25.209(a) and (b) as wide as a technical analysis showing contact the section (FSS) with the section (FSSS) with the section (FSSSS) with the section (FSSSSS) with the section (FSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	demonstrated apliance with		No N/A
E16. If the proposed antenna(s Satellite Service (FSS) with no gain patterns specified in Secti measurements?	Yes	No N/A			
E17. Is the facility operated by point.	O Yes	O No			
E18. Is frequency coordi	Yes	O No			
E19. Is coordination with country(ies) and plot of o	O Yes	O No			
notification is required, the FAA's study regard	, have you attached a col ling the potential hazard Y WITH 47 CFR PART	nd 47 CFR part 25.113(c)) Wh py of a completed FCC Form 8 I of the structure to aviation? TS 17 AND 25 WILL RESULT	854 and or	Yes	No

POINTS OF COMMUNICATION

Satellite Name:EUTELSAT115WB(S2938) EUTELSAT 115 WE the following:	B 114.9 W.L. If you selected OTHER, please enter
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 atGHz)
Kotlik School	KOTLIK	11	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)	at antenna	E39. Maximum Antenna Height Above Rooftop (meters)	I I
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	Т	Vertical	5M6G7W	57.7	25.19			
E50. Mod	ulation and Serv	ices Digi	tal						
KOTLIK	3700 4200	R	Vertical	72M0G7W	0.0	0.0			
E50. Mod	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 contrbeing filed.	olling station, not the callsign for which this application	n is	
E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

Location of Earth Station Site

E1: Site Identifier:

E2: Contact Name

E3. Street:

Trident False Pass

Greg Tooke

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

FOR OFFICIAL USE ONLY

E5. Call Sign:

E7. City: E8. County:

E6. Phone Number:

(907) 550-8364

E4. State		AK		E9. Z	Zip Code					
E10. Area of	Operation:			Fals	e Pass, A	λK				
E11. Latitude:	:	54 ° 51 ' 5	54.0 " N							
E12. Longitud	de:	163 ° 24 '	41.0 " W							
E13. Lat/Lon	Coordinates ar	e:		\bigcirc \mathbf{N}	NAD-27		NAD-83		○ N/A	
E14. Site Elev	vation (AMSL)	:		1.52	meters					
proposed anter	nna(s) comply cturer's qualific	with the anter	nna gain patterns sp	ecified in	Section 25	.209(tionary satellites, do(es) the (a) and (b) as demonstrated showing compliance with	Yes	◎ No N/) /A
Satellite Servi	ce (FSS) with r pecified in Sec	on-geostatio		s) the prop	osed anter	nna(s)	f they operate in the Fixed comply with the antenna rer's qualification	Yes	○No N/	/A
E17. Is the fac point.	ility operated b	y remote cor	trol? If YES, provid	de the loca	tion and to	elepho	one number of the control	O Yes	s ON	o
E18. Is freq	uency coord	lination rec	uired? If YES,	attach a	frequenc	у со	ordination report as	O Yes	s O No	o
			country required on contours as	l? If YE	S, attach	the	name of the	O Yes	s ONO	0
notification the FAA's s FAILURE	is required study regar	l, have you ding the p LY WITH	ı attached a co _l otential hazard 47 CFR PART	py of a c	complete structure	ed Fo	13(c)) Where FAA CC Form 854 and or aviation? L RESULT IN THE	O Yes	s 🔘 No	0
POINTS OF C										
Satellite Na the following		SAT115W	B(S2938) EUT	ELSAT	115 WB	11-	4.9 W.L. If you selected	OTHE	R, please e	nter
E21. Comm	non Name:					E22	. ITU Name:			
E23. Orbit	Location:					E24	. Country:			
POINTS OF C	COMMUNICA	TION (Dest	ination Points)				<u> </u>			
E25. Site Id	lentifier:									
E26. Comm	on Name:						E27. Country:			
ANTENNA										
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Anten Size	na	E41/42. Antenna Ga Recieve(dB		smint and GHz)	or/
sps://licensing.fc	ll c.gov/ibfsweb/ib	l o.page.FetchF	orm?id_app_num=1	 38045&for	l m=P013_1	∏ 01.htı	m&mode=display			12

Trident False Pass	TRDNTFP		General Dynamics	1241	2.4	0.0 dBi at		
E28. Antenna Id	E33/34. I Minor/Maj		Level	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	at antenna	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for
TRDNTFP	0.0/0.0		3.0	5.4	0.0	40.0	0.0	57.7

FREQUENCY

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

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)		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)
TRDNTFP	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 C: 1	Titips.//iioc	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ovibiowebilo.	pagen				4111	500+5Q101111-1 015	_ 101.	ntinamode-disp	nay
E4. State E10. Area of Op	peration:					Zip Co chora	ode ge, AK					
E10. Area of Op	•	3 ' 28.4 "]	N		/ A III	ciivia	gu, AK					
E12. Longitude		52 ' 30.7										
E13. Lat/Lon C			• •			NAD	-27		● NAD-	-83	(○ N/A
E14. Site Elevar	tion (AMSL):					0 mete						
	osed antenna(s) opera	ate in the Fi	ixed Satellite	Servi				tiona	ry satellites, doles) the		
proposed antenn	a(s) comply with the	antenna ga	in patterns sp	pecifie	ed in S	Section	n 25.209(a) an	d (b) as demonstra	ited		N _O
two-degree spac											Yes	No N/A
	osed antenna(s) do no (FSS) with non-geos											
	ecified in Section 25.2										Yes	No N/A
E17. Is the facili point.	ty operated by remot	te control?	If YES, provi	ide the	e loca	tion an	nd telepho	one n	umber of the contr	rol	O Yes	O No
E18. Is freque	ency coordination	n required	d? If YES,	attac	h a f	freque	ency co	ordi	nation report a	S	O Yes	O No
II .	ination with anot and plot of coordi		•	d? If	YES	S, atta	ich the	nam	e of the		O Yes	No
	otification - (See											
	is required, have									or		0
	udy regarding th O COMPLY W									F	○ Yes	No
II .	F THIS APPLIC			191	, AIN	(D 43	, ** 11.L	/ IXE	ZOLLINIA	Ľ		
<u> </u>	OMMUNICATION											
II.	ne:EUTELSAT11	5WB(S2	938) EU7	ΓELS	SAT	115 V	VB 114	4.9 V	W.L. If you sel	ected	d OTHER, p	lease enter
the following												
E21. Commo							=		U Name:			
E23. Orbit Lo							E24	. Co	untry:			
	OMMUNICATION ((Destinatio	on Points)				1	i .				
E25. Site Idea								Fa	7.0			
E26. Commo	n Name:							E27	7. Country:			
ANTENNA							E32	,]				
Site ID	E28. Antenna	E29.	E30.		II .	31.	Anten		E41/42. Ante			
	Id Q	uantity	Manufact	urer 	IVI	odel	Size		Recieve(dBi at	_GHz)
Anchorage 3.8 Hub	DMDTEST3.8 1	ll ll	General Dynamics		Pro 138	delin 3	3.8		37.6 dBi at 3.	7400		
									41.6 dBi at 5.9	9650		
		<u> </u>	E25	E		E25	D.:1.1		F20 Ta4al	E20	Maximum	E40.
			E35. Above	E3 Abo		II.	. Buildi ght Abo	~ II	E38. Total Input Power	l .	. Maximum Antenna	Total
E28. Antenn	II .		Ground	Se		II ~	Fround		at antenna	l	ight Above	EIRP for
Id	Minor/Major	(meters)	Level	Le	vel		Level		flange		Rooftop	al carriers
			(meters)	(met	ters)	(r	neters)		(Watts)	((meters)	(dBW)
DMDTEST3	.8 0.0/0.0		2.0	8.0		0.0			9.33	0.0		51.2
FREQUENCY												1
E28. Antenn	E43/44.	E45.	E46.	Anta	enna		E47		E48. Maxim		E49. Maxir	
Id	Frequency	T/R	Polarizat				Emiss				Densi	
	Bands(MHz)			- (-	, . ,	, ,	Design		<u> </u>	W)	Carrier(dl	bW/4kHz)
DMDTEST3	.8∥3700 4200	R	Vertical				72M00	j / W	/ U.U		0.0	

E50. Modulatio	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	Т	Vertical	72M0G7W	51.2	23.11				
E50. Modulation and Services Digital										
DMDTEST3.8	6108.45 6137.75	Т	Vertical	72M0G7W	51.2	23.11				
E50. Modulation	on and Services 1	Digital								
DMDTEST3.8	6167.75 6330.49	Т	Vertical	72M0G7W	51.2	23.11				
E50. Modulation	on and Services 1	Digital								

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

E46. Antenna

||Polarization(H,V,L,R)|| Emission

E47.

E45.

T/R

E43/44.

Frequency

E28. Antenna

Id

E48. Maximum E49. Maximum ERIP

EIRP per

Density per

	Bands(MHz)	Mode		Designator	Carrier(dBW)	Carrier(dBW/4kHz)				
DMDTEST2.4	3700 4200	R	Vertical	72M0G7W	0.0	0.0				
E50. Modulatio	E50. Modulation and Services Digital									
DMDTEST2.4	5925 5959.85	T	Vertical	12M4G7W	57.7	23.11				
E50. Modulatio	n and Services I	Digital								
DMDTEST2.4	6390.14 6425	T	Vertical	12M4G7W	57.7	23.11				
E50. Modulatio	n and Services I	Digital								
DMDTEST2.4	6108.45 6137.75	Т	Vertical	12M4G7W	57.7	23.11				
E50. Modulatio	n and Services 1	12M4G7	'W							
DMDTEST2.4	6167.75 6330.49	Т	Vertical	12M4G7W	57.7	23.11				
E50. Modulatio	n and Services I	Digital								

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)		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		E65. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the being filed.	he callsign for which this application is		
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 l	Earth Station									
E1: Site Idea	ntifier:	Nal	knek	E5. Call	Sign:					
E2: Contact	Name	Gre	eg Tooke	E6. Phon	e Number:		(907) 550-8	364		
E3. Street:				E7. City:						
				E8. Cour	=					
E4. State		AK	•	E9. Zip C	Code					
E10. Area of	f Operation:			Naknek	x, AK					
E11. Latitud	le:		° 43 ' 43.7 " N							
E12. Longiti	ude:	157	7°0'0.9"W							
E13. Lat/Lo	n Coordinat	es are:		O NAI	D - 27		NAD-83	3		N/A
E14. Site Ele	evation (AM	ISL):		4.88 me	eters					
proposed ant	E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.									
Satellite Serv	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 No N/A									No N/A
E17. Is the fapoint.	acility opera	ted by remote	e control? If YES, p	provide the l	ocation and te	elepho	one number of the co	ntrol	O Yes	O No
E18. Is fre	quency co	oordination	required? If Y	ES, attach	a frequenc	у со	ordination report	as	O Yes	O No
II .			her country requention contours		YES, attach	the	name of the		O Yes	No
notification the FAA's	on is requ s study re E TO CO	ired, have garding th MPLY WI	you attached a ne potential haz ITH 47 CFR PA	a copy of zard of th	a complete e structure	ed Fo	.13(c)) Where FA CC Form 854 an aviation? L RESULT IN T	d or	O Yes	No
POINTS OF	COMMUN	ICATION								
Satellite N the follow		ELSAT11	5WB(S2938) I	EUTELSA	AT 115 WB	11	4.9 W.L. If you se	elected	OTHER, p	lease enter
E21. Com	mon Nam	e.				E22	. ITU Name:			
E23. Orbit							. Country:			
<u> </u>			Destination Points	<u> </u>						
E25. Site I				·)]			
E26. Com		Θ.					E27. Country:			
ANTENNA	IIIOII INAIII	<u>. </u>					E27. Country.			
	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	ı	E41/42. Anten Recieve(_		nTransmin atG	
Naknek N		1	General Dynamics	Prodelin 1244	-	3	7.6 dBi at 3.7400			
						4	1.6 dBi at 5.9650			
E28.	E33/3	4. Diameto	E35. Above	E36. Above	E37. Build Height Ab	ling	E38. Total	E39. I	Maximum na Height	E40. Total EIRP for

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level (meters)	Sea Level	Ground Level	at antonna	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for
NAKNEK	0.0/0.0	3.0	4.88	0.0	40.0	0.0	57.7

FREQUENCY

E28.	E43/44.	E45.	E46. Antenna	E47.	E48. Maximum	E49. Maximum ERIP	
Antenna	ntenna Frequency T/R		Polarization(H,V,L,R)	Emission	EIRP per	Density per	
Id	Bands(MHz)	Mode		Designator	Carrier(dBW)	Carrier(dBW/4kHz)	
NAKNEK	3700 4200	R	Vertical	72M0G7W	0.0	0.0	
E50. Modu	lation and Service	es Digit	al				
NAKNEK	NAKNEK 5925 6425 T Vertical 12M4G7W 57.7 26.16						
E50. Modu	lation and Service	es Digit	al				

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 being filed.	he callsign for which this application is		
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: (907) 550-8364

E3. Street:

E7. City:

E4. State AK E9. Zip Code

E10. Area of Operation:

Alitek, AK

E11. Latitude: $56 \circ 53 ' 53.7 " N$

E12. Longitude: 154 ° 14 ' 47.4 "

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

E14. Site Elevation (AMSL): 15.24 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated





by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	
E16. If the proposed antenna(s) do not operate in the Fixed Satellite 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 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	O Yes No
E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Yes No

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		Antenna Size	E41/42. Antenna GainTransmint and/or Recieve(dBi atGHz)			
Alitak	ALITAK		General Dynamics	Prodelin 1244	2.4	7.6 dBi at 3.7400			
					4	2.0 dBi at 5.9650			
E28 Anter Id	ına E33/. Minor/	34. Diamete Major(mete	(_round	Level	E37. Building Height Above Ground Level (meters)	at antenna	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)	
ALIT	AK 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	Т	Vertical	12M4G7W	57.7	23.5	
E50. Mod	ulation and Serv	ices Dig	ital				
ALITAK	6360.49 6425	Т	Vertical	12M4G7W	57.7	23.5	
E50. Mod	ulation and Serv	ices Dig	ital				
ALITAK	6019.5 6048.8	Т	Vertical	12M4G7W	57.7	23.5	
E50. Mod	lulation and Serv	ices Dig	ital				
ALITAK	6078.8 6271.19	Т	Vertical	12M4G7W	57.7	23.5	

E50. Modulation and Services Digital							
ALITAK	6301.19 6330.49	T	Vertical	12M4G7W	57.7	23.5	
E50. Mod	ulation and Servi	ices Digi	tal				

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	13/100/12/100	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		95.0/ 191.0	116.49	7.61	221.72	17.68	-62.16
	Geostationary	l	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	e Number	
NOTE DI COLLEGE				
NOTE: Please enter the callsign of the controlling station, not the	he callsign for which this application is			
being filed.				
E62. Street Address				
E63. City	E67. County	E64/	68.	E66. Zip
		State	/Country	Code
		1		
		∥/		

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 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: Exursion Inlet, AK

E11. Latitude: 58 ° 24 ' 55.3 " N

E12. Longitude: 135 ° 26 ' 36.4 " W	
E13. Lat/Lon Coordinates are: NAD-27 NAD-8	3 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(e proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance two-degree spacing policy.	rated No.
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 antegain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the conpoint.	trol Yes No
E18. Is frequency coordination required? If YES, attach a frequency coordination report	as
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 FA notification is required, have you attached a copy of a completed FCC Form 854 and 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 THRETURN OF THIS APPLICATION.	d or Yes No
POINTS OF COMMUNICATION	
Satellite Name:EUTELSAT115WB(S2938) EUTELSAT 115 WB 114.9 W.L. If you se the following:	elected OTHER, please enter
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 E32.	
Site ID E28. E29. E30. E31. Antenna Id Quantity Manufacturer Model Size E41/42. Antenna Recieve(_	na GainTransmint and/or dBi atGHz)
Exursion Inlet EXCRINLT 1 General Dynamics Prodelin 2.4 37.6 dBi at 3.7400)
42.0 dBi at 5.9650	0
E28. Antenna Id 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)
	0.0 57.7
FREQUENCY	
E28. Frequency Bands(MHz) Mode E45. E46. Antenna E47. E48. Maximu EIRP per Designator Carrier(dBV	Density per
EXCRINLT 3700 4200 R	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	Т	Vertical	12M4G7W	57.7	23.5		
E50. Modula	ation and Service	s Digita	1					
EXCRINLT	6242.065 6300.84	Т	Vertical	12M4G7W	57.7	23.5		
E50. Modula	ation and Service	s Digita	1		·			

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		95.0/ 191.0	134.98	15.11	239.71	8.65	-64.8
	l(teostationary)		95.0/ 191.0	134.98	15.11	239.71	8.65	-64.8
	Geostationary	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. 1	Phone Number	
NOTE: Please enter the callsign of the controlling station, not the being filed.	he callsign for which this application is			
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:					
		E8. County:					

E4. State AK E9. Zip Code

E10. Area of Operation:

				2 0 11 NT															
E11. I	Latitude:	5	57 ° 7 ' 2:	3.0 N															
E12. I	Longitude:	1	70 ° 16	' 45.0 " V	W														
E13. I	Lat/Lon Coordi	nates are:			\bigcirc NA	AD-27			NAD-8	3		N/A							
E14. S	Site Elevation (AMSL):			8.0 me	eters													
propos by the	sed antenna(s) c	comply with t qualification	the antenna	a gain patt	erns specifie	ed in Secti	ion 25.2	209(a	ionary satellites, do a) and (b) as demons showing compliance	strated	Yes	No N/A							
Satelli gain pa	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 Yes No N/A								No N/A										
E17. Is point.	E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.								O No										
E18.	Is frequency	coordinat	ion requi	ired? If Y	YES, attac	h a freq	quency	coc	ordination repor	t as	Yes	O No							
	Is coordinati try(ies) and p					YES, at	ttach tl	he n	name of the		O Yes	No							
notif the F FAII RET	country(ies) and plot of coordination contours as 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.																		
Ι	rs of comm			(00000)		N A FD 115	, IIID I	111		1 . 1	LOTHER	1 ,							
11	lite Name:El	UTELSAT	115WB((S2938) 	EUTELS	SAT 115		114	l.9 W.L. If you s	selected	OTHER, p	lease enter							
E21.	Common Na	ame:					E	22.	ITU Name:										
E23.	Orbit Locati	on:					E	24.	Country:										
	TS OF COMM		N (Destina	ation Poin	its)														
E25.	Site Identific	er:																	
<u></u>		ame:							E27. Country:										
ANTE	NNA	ANTENNA																	
Site			îl-	11															
ID	E28. Antenna Id	E29. Quantity	E3 Manuf	ll ll	E31. Model	E32 Anten Sizo	nna		E41/42. Anteni Recieve(t and/or Hz)							
II .	Antenna	l	II	acturer		Anten	nna œ												
St.	Antenna Id	Quantity	Manufa General	acturer	Model Prodelin	Anten Sizo	nna æ	41.6	Recieve(
St. Paul E2 Ante	Antenna Id STPAUL 8. E33/3 nna Minor/	Quantity	Manufa General Dynami ter eters)	E35. Above Ground Level	Model Prodelin	Anten Sizo 3.8 E37. B Height Ground	nna ce de de de de de de de de de de de de de	41.6 45.6 45.6	Recieve(E39. N Anten Above									
St. Paul E2 Ante	Antenna Id STPAUL 8. nna Minor/ AUL 0.0/0.0	Quantity 1 34. Diame	Manufa General Dynami ter eters)	E35. Above Ground Level meters)	Prodelin 1383 E36. Above Sea Level (meters)	Anten Sizo 3.8 E37. B Height Ground	nna ge Guildin t Abov	41.6 45.6 1g /e	Recieve(E39. N Anten Above	Maximum na Height e Rooftop	E40. Total EIRP for al carriers							
St. Paul E2 Ante Ic	Antenna Id STPAUL 8. E33/3 nna Minor/ AUL 0.0/0.0 UENCY	Quantity 1 34. Diame Major(me	General Dynam: ter eters) (n) 2.0	E35. Above Ground Level meters)	Prodelin 1383 E36. Above Sea Level (meters)	Anten Sizo 3.8 E37. B Height Ground (men	Buildin t Abov d Leverters)	441.6 45.6 45.6 eel	Recieve(E39. M Anten Abovo (m	Maximum na Height e Rooftop neters)	E40. Total EIRP for al carriers (dBW)							
St. Paul E2 Ante Ic STPA FREQ Ante	Antenna Id STPAUL 8. E33/3 Minor/ AUL 0.0/0.0 UENCY 8. E43 nna Freq	Quantity 1 34. Diame Major(me	deneral Dynam: ter eters) [E35. Above Ground Level meters)	Prodelin 1383 E36. Above Sea Level (meters)	Anten Size 3.8 E37. B Height Ground (met	Buildin t Above d Levers)	441.6 45.6 19 2/e el	Recieve(E39. N Anten Above (m	Maximum na Height e Rooftop neters) E49. Maxim	E40. Total EIRP for al carriers (dBW) 61.92							
St. Paul E2 Ante Ic STPA FREQ Ante Ic	Antenna Id STPAUL 8. E33/3 Minor/ AUL 0.0/0.0 UENCY 8. E43 nna Freq I Bands	Quantity 1 34. Diame Major(me	deneral Dynamic Steres (n. 2.0) E45. T/R Mode	E35. Above Ground Level meters) 0 E46. Polariza	Prodelin 1383 E36. Above Sea Level (meters) 8.0	Anten Size 3.8 E37. B Height Ground (mer	Building t Aboveters) E47. Emissic esigna	41.6 45.6 19 7e el	Recieve(E39. M Anten Abovo (m 0.0	Maximum na Height e Rooftop neters) E49. Maxim Densit Carrier(dB	E40. Total EIRP for al carriers (dBW) 61.92							
St. Paul E2 Ante Ic STPA E2 Ante Ic STPA	Antenna Id STPAUL 8. E33/3 Minor/ AUL 0.0/0.0 UENCY 8. E43 nna Freq I Bands	Quantity 1 34. Diame Major(means) 8/44. uency s(MHz) 200 7	deneral Dynamic derectors (no. 2.0) E45. T/R Mode	E35. Above Ground Level meters) 0 E46. Polariza	Prodelin 1383 E36. Above Sea Level (meters) 8.0	Anten Size 3.8 E37. B Height Ground (mer	Buildin t Above d Levers)	41.6 45.6 19 7e el	Recieve(E39. M Anten Above (m	Maximum na Height e Rooftop neters) E49. Maxim Densit Carrier(dB	E40. Total EIRP for al carriers (dBW) 61.92							

| STPAUL | 5925 6425 | T | Vertical | 12M4G7W | 61.92 | 36.8 | 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	
NOTE: Please enter the callsign of the controlling station, not the being filed.	he callsign for which this application is		
E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

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