



January 20, 2017

Re: Alascom Inc
ANAKTUVUK PASS, AK
Call Sign: E2278
C-Band Transmit-Receive Earth Station
Job Number: 170120COMSGE01

***** Revision Notice *****

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached revised coordination data on behalf of Alascom Inc for modifications to their existing C-Band Transmit-Receive Earth Station in ANAKTUVUK PASS, AK.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s). Please update your database with the attached information.

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that were not previously reported, please contact us by February 24, 2017.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

Date: 01/20/2017
Job Number: 170120COMSGE01

Administrative Information

Status ENGINEER PROPOSAL
Call Sign E2278
Licensee Code P1040
Licensee Name Alascom Inc

Site Information**ANAKTUVUK PASS, AK**

Venue Name
Latitude (NAD 83) 68° 8' 28.9" N
Longitude (NAD 83) 151° 44' 0.6" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 661.0 m / 2168.6 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 119° W to 150° West Longitude
Azimuth Range 145.3° to 178.1°
Corresponding Elevation Angles 9.7° / 13.4°
Antenna Centerline (AGL) 4.57 m / 15.0 ft

Antenna Information**Receive - A4045B****Transmit - A6045B**

Manufacturer	ANDREW CORPORATION	ANDREW CORPORATION
Model	ESA45-39239	ESA45-39239
Gain / Diameter	43.9 dBi / 4.5 m	46.5 dBi / 4.5 m
3-dB / 15-dB Beamwidth	1.20° / 2.40°	0.94° / 1.90°
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)	5.4 29.4
Maximum EIRP	(dBW/4 kHz) (dBW/MHz) (dBW)	51.9 75.9
Interference Objectives:	Long Term Short Term	-162.0 dBW/MHz 20% -140.0 dBW/MHz 0.01%
		-154.0 dBW/4 kHz 20% -131.0 dBW/4 kHz 0.0025%

Frequency Information**Receive 4.0 GHz****Transmit 6.1 GHz**

Emission / Frequency Range (MHz) 29K0G7W - 15M0G7W / 3700.0 - 4200.0 29K0G7W - 15M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 296.5 km / 184.2 mi 215.9 km / 134.1 mi
Precipitation Scatter Contour Radius 536.4 km / 333.3 mi 332.8 km / 206.8 mi

Coordination Values		ANAKTUVUK PASS, AK		
Licensee Name		Alascom Inc		
Latitude (NAD 83)		68° 8' 28.9" N		
Longitude (NAD 83)		151° 44' 0.6" W		
Ground Elevation (AMSL)		661.0 m / 2168.6 ft		
Antenna Centerline (AGL)		4.57 m / 15.0 ft		
Antenna Model		Andrew Corporation ESA45-46		
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz
Interference Objectives: Long Term		-162.0 dBW/MHz	20%	-154.0 dBW/4 kHz 20%
Short Term		-140.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power			5.4 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz		Coordination Distance (km)
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)		
0	10.70	145.28	-13.10	100.00	-18.80		100.00
5	9.93	140.30	-14.71	100.00	-18.80		100.00
10	7.93	135.27	-17.93	100.00	-21.23		100.00
15	5.79	130.18	-17.14	100.00	-22.80		100.00
20	2.90	125.01	-16.10	121.04	-22.80		100.00
25	0.36	119.86	-15.04	209.03	-22.66		137.12
30	0.22	114.93	-13.06	232.12	-17.76		169.95
35	0.00	109.99	-10.10	249.36	-14.79		183.47
40	0.00	105.07	-6.16	271.92	-9.87		202.34
45	0.00	100.15	-6.10	272.28	-9.80		202.62
50	0.46	95.23	-6.10	242.22	-9.80		177.04
55	0.94	90.29	-6.10	213.09	-9.80		146.61
60	1.14	85.35	-6.10	206.18	-9.80		139.80
65	1.21	80.40	-6.10	206.50	-9.80		137.78
70	1.30	75.46	-6.10	203.97	-9.80		135.36
75	1.73	70.49	-6.10	191.95	-9.80		125.89
80	1.64	65.55	-6.10	194.49	-9.80		128.10
85	1.95	60.59	-7.64	178.33	-9.80		120.70
90	2.24	55.63	-10.10	156.93	-10.17		113.29
95	2.97	50.62	-10.10	141.22	-10.05		100.00
100	5.32	45.46	-9.19	111.01	-9.80		100.00
105	7.54	40.34	-8.17	100.00	-9.80		100.00
110	8.57	35.31	-6.22	100.00	-9.80		100.00
115	10.23	30.30	-5.16	100.00	-5.10		100.00
120	11.26	25.34	-4.17	100.00	-3.87		100.00
125	10.42	20.31	-2.22	100.00	-1.92		100.00
130	9.95	15.30	-0.22	102.13	-0.86		100.00
135	10.04	10.30	-0.10	101.92	2.60		100.00
140	8.32	5.47	9.96	164.68	9.26		108.53
145	7.17	2.52	18.81	296.50	18.11		215.91
150	4.59	5.93	9.04	244.01	8.34		175.25
155	4.27	7.10	6.70	217.91	5.10		148.87
160	3.25	8.84	3.23	202.51	3.36		144.84
165	2.56	10.09	-0.10	200.55	3.02		158.08
170	2.27	10.80	-0.10	204.38	1.61		158.09
175	6.13	7.19	6.53	174.74	5.01		114.31
180	8.91	4.85	11.21	165.91	10.51		108.38
185	7.59	8.98	2.95	135.35	3.22		100.00

Coordination Values		ANAKTUVUK PASS, AK		
Licensee Name		Alascom Inc		
Latitude (NAD 83)		68° 8' 28.9" N		
Longitude (NAD 83)		151° 44' 0.6" W		
Ground Elevation (AMSL)		661.0 m / 2168.6 ft		
Antenna Centerline (AGL)		4.57 m / 15.0 ft		
Antenna Model		Andrew Corporation ESA45-46		
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz
Interference Objectives: Long Term		-162.0 dBW/MHz	20%	-154.0 dBW/4 kHz 20%
Short Term		-140.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power		5.4 (dBW/4 kHz)		

Azimuth (°)	Transmit 6.1 GHz		Receive 4.0 GHz		Transmit 6.1 GHz	
	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	6.07	13.91	-0.10	139.05	-0.80	100.00
195	4.39	19.06	-1.72	152.47	-1.61	107.83
200	5.72	23.11	-3.34	130.49	-3.04	100.00
205	6.26	27.73	-4.65	119.87	-4.35	100.00
210	5.61	32.70	-5.64	122.39	-7.50	100.00
215	3.43	38.00	-7.30	144.11	-9.80	100.00
220	0.66	43.41	-8.78	214.93	-9.80	161.65
225	0.32	48.24	-9.75	238.14	-9.80	191.30
230	1.00	52.90	-10.10	194.63	-10.89	139.42
235	1.60	57.65	-10.10	176.79	-9.86	129.01
240	1.78	62.49	-6.37	189.39	-9.80	124.80
245	2.68	67.29	-6.10	166.31	-9.80	106.08
250	5.76	72.03	-6.10	119.13	-9.80	100.00
255	8.55	76.91	-6.10	100.00	-9.80	100.00
260	8.00	81.90	-6.10	100.00	-9.80	100.00
265	8.38	86.88	-6.10	100.00	-9.80	100.00
270	9.52	91.86	-6.10	100.00	-9.80	100.00
275	8.83	96.84	-6.10	100.00	-9.80	100.00
280	6.10	101.77	-6.10	115.72	-9.80	100.00
285	4.38	106.65	-7.42	129.37	-11.45	100.00
290	2.99	111.49	-10.99	137.27	-15.69	100.00
295	5.88	116.62	-13.75	100.00	-19.42	100.00
300	9.31	121.77	-15.45	100.00	-22.80	100.00
305	10.67	126.82	-16.46	100.00	-22.80	100.00
310	10.90	131.82	-17.46	100.00	-22.80	100.00
315	9.03	136.69	-16.29	100.00	-19.05	100.00
320	7.29	141.45	-13.59	100.00	-18.80	100.00
325	5.76	146.10	-13.10	100.00	-18.80	100.00
330	7.20	151.25	-13.10	100.00	-18.80	100.00
335	7.13	156.08	-13.10	100.00	-18.80	100.00
340	9.39	161.44	-13.10	100.00	-18.80	100.00
345	11.42	160.22	-13.10	100.00	-18.80	100.00
350	11.42	155.24	-13.10	100.00	-18.80	100.00
355	11.77	150.23	-13.10	100.00	-18.80	100.00