



November 09, 2022

Re: Alascom Inc
KING SALMON, AK
Call Sign:
C-Band Transmit-Receive Earth Station
Previous Job Number: 220628COMSPI02
Job Number: 221109COMSPI04

**** Expedited Response Requested by November 23, 2022 ****

***** 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 KING SALMON, 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 November 23, 2022.

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

Sincerely,

COMSEARCH

Pirouz Ebadirad
Microwave Engineer I
PEbadirad@comsearch.com

Enclosure(s)

COMSEARCH

Earth Station Data Sheet

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)231-7538 <http://www.comsearch.com>

Date: 11/09/2022
Job Number: 221109COMSPI04

Administrative Information

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

Site Information

KING SALMON, AK

Venue Name:
Latitude (NAD 83): 58° 40' 51.9" N
Longitude (NAD 83): 156° 40' 1.1" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 13.8 m / 45.3 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Digital
Satellite Arc: 94° W to 219° West Longitude
Azimuth Range: 113.8° to 245.9°
Corresponding Elevation Angles: 5.1° / 5.3°
Antenna Centerline (AGL): 4.57 m / 15.0 ft

Antenna Information

Receive - A4045T

Manufacturer: ANDREW CORPORATION
Model: ESA45T-T
Gain / Diameter: 43.9 dBi / 4.5 m
3-dB / 15-dB Beamwidth: 1.20° / 2.40°

Transmit - A6045T

ANDREW CORPORATION
ESA45T-T
46.2 dBi / 4.5 m
0.94° / 1.90°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-2.7
21.3

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)

43.5
67.5

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

Frequency Information

Receive 4.0 GHz

Emission / Frequency Range (MHz): 29K0G7W - 45M0G7W / 3700.0 - 4200.0

Transmit 6.1 GHz

29K0G7W - 45M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance: 562.6 km / 349.6 mi
Precipitation Scatter Contour Radius: 616.8 km / 383.2 mi

315.9 km / 196.3 mi
101.6 km / 63.1 mi

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Coordination Values		KING SALMON, AK			
Licensee Name		Alascom Inc			
Latitude (NAD 83)		58° 40' 51.9" N			
Longitude (NAD 83)		156° 40' 1.1" W			
Ground Elevation (AMSL)		13.8 m / 45.3 ft			
Antenna Centerline (AGL)		4.57 m / 15.0 ft			
Antenna Model		Andrew Corporation ESA45T-T			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term		-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power				-2.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	113.72	-12.33	270.87	-17.03	143.95
5	0.00	108.75	-9.10	291.08	-13.55	155.66
10	0.29	103.78	-6.10	299.14	-9.80	159.68
15	0.37	98.80	-6.10	289.80	-9.80	152.14
20	0.31	93.81	-6.10	297.10	-9.80	158.01
25	0.32	88.83	-6.10	295.72	-9.80	156.89
30	0.29	83.85	-6.10	299.45	-9.80	159.93
35	0.26	78.87	-6.10	302.92	-9.80	162.80
40	0.30	73.89	-6.10	298.36	-9.80	159.04
45	0.30	68.91	-6.10	298.63	-9.80	159.26
50	0.30	63.93	-6.10	298.89	-9.80	159.47
55	0.29	58.95	-6.10	299.06	-9.80	159.61
60	0.27	53.98	-6.10	301.98	-9.80	162.02
65	0.26	49.01	-6.10	302.93	-9.80	162.81
70	0.24	44.04	-6.10	305.80	-9.80	165.21
75	0.22	39.09	-6.10	308.15	-9.80	168.81
80	0.22	34.14	-5.93	309.95	-8.94	172.67
85	0.21	29.21	-4.94	318.57	-4.64	190.19
90	0.30	24.29	-3.81	314.31	-3.51	185.04
95	0.30	19.42	-1.87	328.86	-1.68	192.59
100	0.00	14.74	-0.10	355.84	-0.80	206.04
105	0.00	10.21	-0.10	355.84	2.79	218.81
110	0.00	6.41	8.08	421.90	6.97	237.56
115	0.00	5.28	10.35	562.64	9.65	315.87
120	0.21	7.23	6.44	463.62	4.97	251.29
125	0.24	9.45	1.55	385.14	3.20	222.42
130	0.00	11.79	-0.10	355.84	-0.38	206.02
135	0.00	13.80	-0.10	355.84	-0.80	206.04
140	0.00	15.66	-0.37	353.81	-0.93	205.54
145	0.00	17.36	-1.04	348.67	-1.27	204.25
150	0.00	18.88	-1.65	344.11	-1.58	203.09
155	0.00	20.20	-2.18	340.17	-1.88	201.93
160	0.00	21.31	-2.62	336.88	-2.32	200.24
165	0.00	22.19	-2.97	334.30	-2.67	198.90
170	0.00	22.82	-3.23	332.45	-2.93	197.93
175	0.00	23.21	-3.38	331.31	-3.08	197.34
180	0.00	23.34	-3.44	330.94	-3.14	197.14
185	0.00	23.21	-3.38	331.32	-3.08	197.34

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Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term		-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		-2.7 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	22.82	-3.23	332.44	-2.93	197.93
195	0.00	22.19	-2.97	334.30	-2.67	198.90
200	0.00	21.31	-2.62	336.89	-2.32	200.24
205	0.00	20.20	-2.18	340.17	-1.88	201.93
210	0.00	18.88	-1.65	344.11	-1.58	203.09
215	0.00	17.36	-1.04	348.68	-1.27	204.25
220	0.00	15.66	-0.36	353.83	-0.93	205.54
225	0.00	13.80	-0.10	355.84	-0.80	206.04
230	0.00	11.79	-0.10	355.84	-0.39	206.00
235	0.00	9.66	0.92	382.75	3.20	225.00
240	0.00	7.43	6.05	471.08	4.77	255.95
245	0.00	5.38	10.15	560.69	9.45	311.79
250	0.00	6.72	7.46	416.49	6.04	233.21
255	0.00	10.55	-0.10	355.84	2.10	215.95
260	0.22	15.00	-0.10	352.90	-0.80	203.93
265	0.20	19.77	-2.01	341.31	-1.75	202.32
270	0.00	24.67	-3.97	327.07	-3.67	195.10
275	0.28	29.52	-5.00	308.71	-4.70	183.05
280	0.00	34.49	-6.00	312.64	-9.29	173.42
285	0.00	39.43	-6.10	311.30	-9.80	171.44
290	0.00	44.38	-6.10	311.30	-9.80	171.44
295	0.00	49.34	-6.10	311.30	-9.80	171.44
300	0.00	54.31	-6.10	311.30	-9.80	171.44
305	0.00	59.28	-6.10	311.30	-9.80	171.44
310	0.00	64.25	-6.10	311.30	-9.80	171.44
315	0.00	69.22	-6.10	311.30	-9.80	171.44
320	0.00	74.20	-6.10	311.30	-9.80	171.44
325	0.00	79.18	-6.10	311.30	-9.80	171.44
330	0.00	84.15	-6.10	311.30	-9.80	171.44
335	0.22	89.13	-6.10	308.22	-9.80	168.87
340	0.24	94.11	-6.10	305.52	-9.80	164.98
345	0.24	99.09	-6.10	305.91	-9.80	165.30
350	0.24	104.07	-6.10	306.52	-9.80	165.81
355	0.00	109.04	-9.34	289.54	-13.84	154.61