

19700 Janelia Farm Boulevard

Ashburn, VA 20147

(703) 726-5500



Fax (703) 726-5600 COMSEARCH®

<http://www.comsearch.com>

August 23, 2007

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\*\*\* CLIENT COPY \*\*\*

\*\*\* PLEASE MAIL \*\*\*

\*\*\* TO CUSTOMER \*\*\*

Re: ALASCOM, Inc.  
Selawik, Alaska  
Call Sign: E2199  
C-Band Transmit-Receive Earth Station  
Job Number: 070823COMSJC02

\*\*\*\*\* EXPEDITED LICENSE MODIFICATION \*\*\*\*\*  
\*\*\*\*\* RESPONSE REQUESTED BY AUGUST 30, 2007 \*\*\*\*\*

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 expedited coordination data on behalf of ALASCOM, Inc. to modify the license (E2199) of their existing C-band transmit/receive earth station near Selawik, Alaska.

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 Comsearch by August 30, 2007.

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

Sincerely,

COMSEARCH

Jeffrey E. Cowles  
Principal Frequency Planner

Enclosure(s)

**COMSEARCH**  
**Earth Station Data Sheet**  
 19700 Janelia Farm Boulevard, Ashburn, VA 20147  
 (703)726-5660 <http://www.comsearch.com>

Date: 08/23/2007  
 Job Number: 070823COMSJC02

**Administrative Information**

Status ENGINEER PROPOSAL  
 Call Sign E2199  
 Licensee Code P1040  
 Licensee Name ALASCOM, INC.

**Site Information SELAWIK, ALASKA**

Venue Name  
 Latitude (NAD 83) 66° 36' 24.5" N  
 Longitude (NAD 83) 160° 0' 52.9" W  
 Climate Zone A  
 Rain Zone 2  
 Ground Elevation (AMSL) 10.7 m / 35.1 ft

**Link Information**

Satellite Type Geostationary  
 Mode TR - Transmit-Receive  
 Modulation Digital  
 Satellite Arc 107° W to 150° West Longitude  
 Azimuth Range 124.7° to 169.1°  
 Corresponding Elevation Angles 5.2° / 14.6°  
 Antenna Centerline (AGL) 4.57 m / 15.0 ft

**Antenna Information**

Manufacturer  
 Model  
 Gain / Diameter  
 3-dB / 15-dB Beamwidth

**Receive**

Andrew Corporation  
 ESA45-39239  
 43.0 dBi / 4.5 m  
 1.20° / 2.50°

**Transmit**

Andrew Corporation  
 ESA45-39239  
 46.5 dBi / 4.5 m  
 0.80° / 1.52°

42K7G7W to 2M06G7W

Max Available RF Power	(dBW/4 kHz)	-2.7	-11.1
	(dBW/MHz)	7.6	12.9
Maximum EIRP	(dBW/4 kHz)	43.8	35.4
	(dBW/MHz)	54.1	59.4
	(dBW)	54.1	62.5
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**

Emission / Frequency Range (MHz)

**Receive 4.0 GHz**

42K7G7W - 2M06G7W / 3700.0 - 4200.0

**Transmit 6.1 GHz**

42K7G7W - 2M06G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 574.0 km / 356.6 mi 330.8 km / 205.6 mi  
 Precipitation Scatter Contour Radius 616.6 km / 383.1 mi 101.6 km / 63.1 mi

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## Earth Station Data Sheet

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<b>Coordination Values</b>		<b>SELAWIK, AK</b>			
Licensee Name		ALASCOM, INC.			
Latitude (NAD 83)		66° 36' 24.5" N			
Longitude (NAD 83)		160° 0' 52.9" W			
Ground Elevation (AMSL)		10.7 m / 35.1 ft			
Antenna Centerline (AGL)		4.57 m / 15.0 ft			
Antenna Model		Andrew Corporation ESA45-39239			
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	0.62	124.53	-10.00	242.20	-10.00	133.58
5	0.62	119.55	-10.00	242.20	-10.00	133.58
10	0.62	114.57	-10.00	242.20	-10.00	133.58
15	0.58	109.59	-10.00	244.72	-10.00	135.48
20	0.58	104.61	-10.00	244.71	-10.00	135.47
25	0.58	99.63	-10.00	244.80	-10.00	135.54
30	0.54	94.64	-10.00	247.32	-10.00	137.47
35	0.54	89.66	-10.00	247.34	-10.00	137.49
40	0.66	84.67	-10.00	239.75	-10.00	133.00
45	0.66	79.69	-10.00	239.79	-10.00	133.03
50	0.66	74.71	-10.00	239.78	-10.00	133.02
55	1.02	69.71	-10.00	219.66	-10.00	117.09
60	1.02	64.73	-10.00	219.58	-10.00	117.03
65	1.02	59.74	-10.00	219.62	-10.00	117.07
70	1.02	54.76	-10.00	219.60	-10.00	117.04
75	0.47	49.82	-10.00	252.68	-10.00	141.56
80	0.46	44.85	-9.29	258.89	-9.29	145.54
85	0.46	39.89	-8.02	266.69	-8.02	150.01
90	0.46	34.93	-6.58	275.85	-6.58	155.31
95	0.46	29.99	-4.93	286.94	-4.93	161.95
100	0.42	25.08	-2.98	305.50	-2.98	175.94
105	0.42	20.20	-0.63	323.48	-0.63	185.77
110	0.62	15.33	2.36	327.44	2.36	183.97
115	0.62	10.66	6.31	359.80	6.31	201.04
120	0.62	6.50	11.68	406.19	11.68	223.42
125	0.62	4.55	15.55	574.00	15.55	330.85
130	0.66	5.96	12.61	510.46	12.61	284.76
135	0.66	7.44	10.21	454.85	10.21	249.12
140	0.66	8.80	8.39	412.02	8.39	224.64
145	0.66	10.04	6.96	378.37	6.96	208.94
150	0.66	11.14	5.83	352.71	5.83	196.83
155	0.62	12.14	4.90	348.03	4.90	195.08
160	0.62	12.93	4.21	342.25	4.21	192.06
165	0.62	13.56	3.70	338.08	3.70	189.81
170	0.62	14.01	3.34	335.21	3.34	188.25
175	0.62	15.15	2.49	328.41	2.49	184.50
180	0.62	17.65	0.83	315.37	0.83	177.12
185	0.62	21.04	-1.08	300.30	-1.08	168.61

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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	0.62	24.96	-2.93	287.00	-2.93	158.90
195	0.62	29.19	-4.63	275.36	-4.63	151.93
200	0.62	33.62	-6.16	265.34	-6.16	146.11
205	0.62	38.17	-7.54	256.81	-7.54	141.41
210	0.62	42.81	-8.79	249.15	-8.79	137.30
215	0.62	47.51	-9.92	242.66	-9.92	133.83
220	0.62	52.26	-10.00	242.21	-10.00	133.59
225	0.62	57.03	-10.00	242.24	-10.00	133.61
230	0.62	61.83	-10.00	242.23	-10.00	133.61
235	0.62	66.65	-10.00	242.24	-10.00	133.61
240	0.62	71.48	-10.00	242.22	-10.00	133.60
245	0.62	76.31	-10.00	242.25	-10.00	133.62
250	0.62	81.16	-10.00	242.25	-10.00	133.62
255	0.62	86.01	-10.00	242.22	-10.00	133.60
260	0.62	90.86	-10.00	242.26	-10.00	133.62
265	0.62	95.71	-10.00	242.23	-10.00	133.60
270	0.62	100.56	-10.00	242.24	-10.00	133.61
275	0.62	105.41	-10.00	242.26	-10.00	133.63
280	0.62	110.24	-10.00	242.21	-10.00	133.59
285	0.62	115.07	-10.00	242.25	-10.00	133.62
290	0.62	119.88	-10.00	242.22	-10.00	133.60
295	0.62	124.67	-10.00	242.20	-10.00	133.59
300	0.62	129.43	-10.00	242.20	-10.00	133.58
305	0.62	134.16	-10.00	242.25	-10.00	133.62
310	0.62	138.84	-10.00	242.28	-10.00	133.64
315	0.62	143.46	-10.00	242.28	-10.00	133.64
320	0.62	147.97	-10.00	242.25	-10.00	133.62
325	0.62	152.34	-10.00	242.24	-10.00	133.61
330	0.62	154.28	-10.00	242.22	-10.00	133.60
335	0.62	149.35	-10.00	242.27	-10.00	133.64
340	0.62	144.40	-10.00	242.17	-10.00	133.56
345	0.94	139.47	-10.00	223.38	-10.00	120.18
350	0.94	134.50	-10.00	223.39	-10.00	120.19
355	0.62	129.51	-10.00	242.20	-10.00	133.58