

Exhibit A

Frequency Coordination

FREQUENCY COORDINATION AND INTERFERENCE
ANALYSIS REPORT

PREPARED FOR
GENERAL COMMUNICATIONS INCORPORATED
CHALKYITSIK, ALASKA
SATELLITE EARTH STATION

PREPARED BY
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July 11, 2002

TABLE OF CONTENTS

1. CONCLUSIONS
2. SUMMARY OF RESULTS
3. SUPPLEMENTAL SHOWING, RE: PART 25.203(C)
4. EARTH STATION COORDINATION DATA
5. CERTIFICATION

1. CONCLUSIONS

AN INTERFERENCE STUDY CONSIDERING ALL EXISTING, PROPOSED AND PRIOR COORDINATED MICROWAVE FACILITIES WITHIN THE COORDINATION CONTOURS OF THE PROPOSED EARTH STATION DEMONSTRATES THAT THIS SITE WILL OPERATE SATISFACTORILY WITH THE COMMON CARRIER MICROWAVE ENVIRONMENT. FURTHER, THERE WILL BE NO RESTRICTIONS OF ITS OPERATION DUE TO INTERFERENCE CONSIDERATIONS.

2. SUMMARY OF RESULTS

NO GREAT CIRCLE INTERFERENCE CASES WERE IDENTIFIED DURING THE INTERFERENCE STUDY OF THE PROPOSED EARTH STATION.

NO CARRIERS REPORTED POTENTIAL INTERFERENCE CASES.

3. SUPPLEMENTAL SHOWING
RE: PART 25.203(C)

PURSUANT TO PART 25.203(C) OF THE FCC RULES AND REGULATIONS, THE SATELLITE EARTH STATION PROPOSED IN THIS APPLICATION WAS COORDINATED BY COMSEARCH USING COMPUTER TECHNIQUES AND IN ACCORDANCE WITH PART 25 OF THE FCC RULES AND REGULATIONS.

COORDINATION FOR THIS EARTH STATION WAS CONDUCTED WITH THE BELOW LISTED CARRIERS.

ALASCOM, INC.

4. EARTH STATION COORDINATION DATA

THIS SECTION PRESENTS THE DATA PERTINENT TO FREQUENCY COORDINATION OF THE PROPOSED EARTH STATION THAT WAS CIRCULATED TO ALL COMMON CARRIERS WITHIN ITS COORDINATION CONTOURS.

SATELLITE EARTH STATION
FREQUENCY COORDINATION DATA
07/05/2002

Company	GENERAL COMMUNICATIONS INCORPORATED			
Earth Station Name, State	CHALKYITSIK, AK			
Latitude (DMS) (NAD83)	66 39 15.7 N			
Longitude (DMS) (NAD83)	143 43 26.2 W			
Ground Elevation AMSL (Ft/m)	528.01 / 160.93			
Antenna Centerline AGL (Ft/m)	6.99 / 2.13			
Receive Antenna Type:	S40362	SCIENTIFIC-ATLANTA		
		8136		
4.0 GHz Gain (dBi) / Diameter (m)		41.8 /	3.6	
3 dB / 15 dB Half Beamwidth		0.70 /	1.50	
Transmit Antenna Type:	S60362	SCIENTIFIC-ATLANTA		
		8136		
6.0 GHz Gain (dBi) / Diameter (m)		45.6 /	3.6	
3 dB / 15 dB Half Beamwidth		0.45 /	0.85	
Operating Mode	TRANSMIT AND RECEIVE			
Modulation	DIGITAL			
Emission / Receive Band (MHz)	45K0G7W - 36M0G7W / 3700.00 - 4200.00			
	60K0D7W - 36M0D7W / 3700.00 - 4200.00			
Emission / Transmit Band (MHz)	45K0G7W - 36M0G7W / 5925.00 - 6425.00			
	60K0D7W - 36M0D7W / 5925.00 - 6425.00			
	<u>45K0G7W - 36M0G7W</u>	<u>60K0D7W - 36M0D7W</u>		
Max. Available RF Power (dBW)/4 kHz)	-2.7	-22.6	-2.7	-22.6
(dBW)/MHz)	21.3	1.4	21.3	1.4
Max. EIRP (dBW)/4 kHz)	42.9	23.0	42.9	23.0
(dBW)/MHz)	66.9	47.0	66.9	47.0
(dBW)	53.4	62.6	54.7	62.6
Max permissible Interference Power				
4.0 GHz, 20% (dBW/1 MHz)	-156.0			
4.0 GHz, 0.0100% (dBW/1 MHz)	-146.0			
6.0 GHz, 20% (dBW/4 kHz)	-154.0			
6.0 GHz, 0.0025% (dBW/4 kHz)	-131.0			
Range of Satellite Arc (Geostationary)				
Degrees Longitude	91.0 W / 194.0 W			
Azimuth Range (Min/Max)	124.9 / 232.7			
Corresponding Elevation Angles	5.2 / 6.0			
Radio Climate	A			
Rain Zone	2			
Max Great Circle Coordination Distance (Mi/Km)				
4.0 GHz	346.4 / 557.6			
6.0 GHz	199.8 / 321.5			
Precipitation Scatter Contour Radius (Mi/Km)				
4.0 GHz	382.1 / 615.1			
6.0 GHz	63.1 / 101.5			

Table of Earth Station Coordination Values
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 Ground Elevation (Ft/m) 528.01 / 160.93 AMSL
 Antenna Centerline (Ft/m) 6.99 / 2.13 AGL
 Antenna Model SCIENTIFIC-ATLANTA 8136
 Objectives: Receive -156.0 (dBW /1 MHz)
 Transmit -154.0 (dBW /4 kHz) TX Power -2.7 (dBW/4 kHz)

Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	4.0 GHz		6.0 GHz	
			Antenna Gain (dBi)	Coordination Distance (Km)	Antenna Gain (dBi)	Coordination Distance (Km)
0	0.00	124.78	-10.20	284.0	-10.40	169.1
5	0.00	119.81	-10.20	284.0	-10.40	169.1
10	0.00	114.84	-10.20	284.0	-10.40	169.1
15	0.00	109.86	-10.20	284.0	-10.40	169.1
20	0.00	104.89	-10.20	284.0	-10.40	169.1
25	0.00	99.91	-10.20	284.0	-10.40	169.1
30	0.00	94.93	-10.20	284.0	-10.40	169.1
35	0.00	89.95	-10.20	284.0	-10.40	169.1
40	0.00	84.97	-10.20	284.0	-10.40	169.1
45	0.00	79.99	-10.20	284.0	-10.40	169.1
50	0.00	75.01	-10.20	284.0	-10.40	169.1
55	0.00	70.04	-10.20	284.0	-10.40	169.1
60	0.00	65.06	-10.20	284.0	-10.40	169.1
65	0.00	60.09	-10.20	284.0	-10.40	169.1
70	0.00	55.12	-10.20	284.0	-10.40	169.1
75	0.00	50.15	-10.20	284.0	-10.40	169.1
80	0.00	45.19	-9.24	290.1	-9.44	172.8
85	0.00	40.23	-8.25	296.6	-8.45	176.6
90	0.00	35.29	-6.32	309.8	-6.52	184.1
95	0.00	30.36	-5.27	317.7	-5.47	188.1
100	0.00	25.46	-3.38	331.3	-3.58	195.4
105	0.00	20.60	-0.56	352.3	-0.76	204.5
110	0.00	15.82	2.31	374.5	2.11	215.9
115	0.00	11.23	5.57	400.4	5.37	230.1
120	0.00	7.19	7.80	419.4	7.60	240.5
125	0.00	5.22	11.35	557.6	11.15	321.5
130	0.00	6.55	8.71	501.6	8.51	282.7
135	0.00	8.03	7.80	459.6	7.60	257.0
140	0.00	9.40	7.40	433.5	7.20	243.7
145	0.00	10.65	6.15	412.0	5.95	234.2
150	0.00	11.75	5.05	396.0	4.85	227.7
155	0.00	12.71	4.09	388.2	4.60	226.6
160	0.00	13.50	3.30	382.4	4.10	224.4
165	0.00	14.13	2.80	378.4	3.47	221.7
170	0.00	14.59	2.80	378.4	3.01	219.7
175	0.00	14.86	2.80	378.4	2.74	218.6
180	0.00	14.95	2.80	378.4	2.65	218.2

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			Antenna Gain (dBi)	Coordination Distance (Km)	Antenna Gain (dBi)	Coordination Distance (Km)
185	0.00	14.85	2.80	378.4	2.75	218.6
190	0.00	14.58	2.80	378.4	3.02	219.8
195	0.00	14.12	2.80	378.4	3.48	221.7
200	0.00	13.49	3.31	382.5	4.11	224.4
205	0.00	12.70	4.10	388.3	4.60	226.6
210	0.00	11.74	5.06	396.6	4.86	227.8
215	0.00	10.64	6.16	411.2	5.96	233.9
220	0.00	9.40	7.40	431.9	7.20	243.1
225	0.00	8.04	7.80	457.0	7.60	255.6
230	0.00	6.55	8.69	497.3	8.49	279.9
235	0.00	6.46	8.88	528.7	8.68	301.2
240	0.00	9.48	7.32	415.2	7.12	238.2
245	0.00	13.71	3.09	380.7	3.89	223.5
250	0.00	18.33	0.80	362.8	0.60	209.8
255	0.00	23.10	-2.06	341.0	-2.26	200.4
260	0.00	27.95	-4.38	324.1	-4.58	191.6
265	0.00	32.84	-5.77	314.2	-5.97	186.2
270	0.00	37.75	-7.30	303.0	-7.50	180.3
275	0.00	42.69	-8.74	293.4	-8.94	174.7
280	0.00	47.63	-9.73	287.0	-9.93	170.9
285	0.00	52.59	-10.20	284.0	-10.40	169.1
290	0.00	57.54	-10.20	284.0	-10.40	169.1
295	0.00	62.51	-10.20	284.0	-10.40	169.1
300	0.00	67.47	-10.20	284.0	-10.40	169.1
305	0.00	72.44	-10.20	284.0	-10.40	169.1
310	0.00	77.41	-10.20	284.0	-10.40	169.1
315	0.00	82.39	-10.20	284.0	-10.40	169.1
320	0.00	87.36	-10.20	284.0	-10.40	169.1
325	0.00	92.33	-10.20	284.0	-10.40	169.1
330	0.00	97.30	-10.20	284.0	-10.40	169.1
335	0.00	102.27	-10.20	284.0	-10.40	169.1
340	0.00	107.24	-10.20	284.0	-10.40	169.1
345	0.00	112.21	-10.20	284.0	-10.40	169.1
350	0.00	117.18	-10.20	284.0	-10.40	169.1
355	0.00	122.14	-10.20	284.0	-10.40	169.1

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION. I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS. I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

TIMOTHY O. CRUTCHER
SENIOR FREQUENCY COORDINATOR
COMSEARCH
19700 Janelia Farm Boulevard
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DATED: July 11, 2002