

Exhibit C

Ka-Band Earth Station – Lino Lakes, MN

Frequency Coordination Report

28 GHz



Prepared on Behalf of
Inmarsat PLC

April 17, 2012



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1. Summary of Results

On behalf of Inmarsat's proposed earth station transmitting at 28 GHz¹, Comsearch performed a frequency search considering all existing and proposed terrestrial licenses within the coordination contours of the Ka-Band station in Lino Lakes, Minnesota. The search results identified licensees in the local multipoint distribution service (LMDS), common carrier fixed microwave service and local television transmission service (LTTS). Prior notification letters were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on April 17, 2012.

No objections were received from any of the incumbent 28 GHz licensees. Our notification to the LMDS incumbents was performed under the assumption that the earth station would be operating on a secondary basis to LMDS Block A operations and a contact at Inmarsat has been provided in case any concerns may arise in the future. A summary of the responses from the LMDS licensees in the primary geographic market, Minneapolis-St. Paul, is provided below.

- Nextlink sent a response stating that they have no objection to the deployment of the Lino Lakes earth station at this time.

2. 28 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, a Ka-Band earth station in Lino Lakes, MN was prior coordinated by Comsearch. The notification letters and datasheet for this earth station were sent to the following 28 GHz common carrier fixed microwave licensees on March 20, 2012. These licensees are authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a statewide or nationwide basis.

Licensee	Authorized Geographic Area
GTE Southwest Inc. dba Verizon Southwest	Continental US
Wisconsin Bell Inc.	Statewide: Wisconsin

A notification letter and datasheet for the Ka-Band earth station in Lino Lakes, MN was also sent to the following 28 GHz local television transmission licensee on March 20, 2012. This licensee is authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis.

¹ The proposed earth station will operate in the 27,500 – 29,500 MHz portion of the Ka-Band.

Licensee	Authorized Geographic Area
Information Super Station, LLC	Continental US

No objections were received from the common carrier or local television transmission service incumbents.

3. 28 GHz LMDS Coordination

Notification letters were sent to the following 28 GHz LMDS licensees and lessees on March 20, 2012. The proposed earth station will operate on frequencies that overlap Block A of the LMDS service. The band plan for LMDS is as follows:

Block A: 27.500-28.350 GHz
29.100-29.250 GHz
31.075-31.225 GHz

Licensee	Market	Market Name
None	BTA123	Eau Claire, WI
None	BTA234	La Crosse, WI-Winona, MN
None	BTA277	Mankato-Fairmont, MN
Nextlink Wireless, LLC	BTA298	Minneapolis-St. Paul, MN
None	BTA378	Rochester-Austin-Albert Lea, MN
None	BTA391	St. Cloud, MN

No objections were received from the LMDS incumbents.

4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-Band earth station in Lino Lakes, MN. This data was circulated to all incumbent licensees in the 28 GHz shared frequency ranges.

COMSEARCH**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Date: 03/20/2012

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code IMMSAT
Licensee Name Inmarsat PLC

Site Information LINO LAKES, MINNESOTA

Venue Name
Latitude (NAD 83) 45° 7' 56.0" N
Longitude (NAD 83) 93° 5' 44.0" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 273.47 m / 897.2 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 55° W to 63° West Longitude
Azimuth Range 132.1° to 140.7°
Corresponding Elevation Angles 25.9° / 30.1°
Antenna Centerline (AGL) 9.14 m / 30.0 ft

Antenna Information

Manufacturer GD SATCOM Technologies
Model 13.2 Meter
Gain / Diameter 65.6 dBi / 13.2 m
3-dB / 15-dB Beamwidth 0.09° / 0.17°

Receive**Transmit**

GD SATCOM Technologies
13.2 Meter
68.9 dBi / 13.2 m
0.06° / 0.13°

Max Available RF Power (dBW/4 kHz) -30.9
(dBW/MHz) -6.9

Maximum EIRP (dBW/4 kHz) 38.0
(dBW/MHz) 62.0
(dBW) 77.0

Interference Objectives: Long Term -156.7 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term -146.7 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz) 32M0G7W / 17700.0 - 19700.0

Receive 18.0 GHz**Transmit 28.0 GHz**

32M0G7W / 27500.0 - 29500.0

Max Great Circle Coordination Distance 158.9 km / 98.7 mi 100.0 km / 62.1 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi 100.0 km / 62.1 mi

COMSEARCH**Earth Station Data Sheet**

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Coordination Values		LINO LAKES, MN			
Licensee Name		Inmarsat PLC			
Latitude (NAD 83)		45° 7' 56.0" N			
Longitude (NAD 83)		93° 5' 44.0" W			
Ground Elevation (AMSL)		273.47 m / 897.2 ft			
Antenna Centerline (AGL)		9.14 m / 30.0 ft			
Antenna Model		GD SATCOM Technologies 13.2 Meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives: Long Term		-156.7 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term		-146.7 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-30.9 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	127.10	-10.00	138.12	-10.00	100.00
5	0.00	122.87	-10.00	138.12	-10.00	100.00
10	0.00	118.57	-10.00	138.12	-10.00	100.00
15	0.00	114.21	-10.00	138.12	-10.00	100.00
20	0.00	109.80	-10.00	138.12	-10.00	100.00
25	0.00	105.35	-10.00	138.12	-10.00	100.00
30	0.00	100.88	-10.00	138.12	-10.00	100.00
35	0.00	96.40	-10.00	138.12	-10.00	100.00
40	0.00	91.90	-10.00	138.12	-10.00	100.00
45	0.00	87.41	-10.00	138.12	-10.00	100.00
50	0.00	82.91	-10.00	138.12	-10.00	100.00
55	0.00	78.43	-10.00	138.12	-10.00	100.00
60	0.00	73.97	-10.00	138.12	-10.00	100.00
65	0.00	69.53	-10.00	138.12	-10.00	100.00
70	0.00	65.12	-10.00	138.12	-10.00	100.00
75	0.00	60.77	-10.00	138.12	-10.00	100.00
80	0.00	56.47	-10.00	138.12	-10.00	100.00
85	0.00	52.26	-10.00	138.12	-10.00	100.00
90	0.00	48.15	-10.00	138.12	-10.00	100.00
95	0.00	44.17	-9.13	140.58	-9.13	100.00
100	0.00	40.37	-8.15	143.41	-8.15	100.00
105	0.00	36.81	-7.15	146.40	-7.15	100.00
110	0.00	33.56	-6.15	149.47	-6.15	100.00
115	0.00	30.72	-5.19	152.48	-5.19	100.00
120	0.00	28.42	-4.34	155.19	-4.34	100.00
125	0.00	26.80	-3.70	157.28	-3.70	100.00
130	0.00	25.99	-3.37	158.88	-3.37	100.00
135	0.00	26.05	-3.40	158.79	-3.40	100.00
140	0.00	27.00	-3.78	157.01	-3.78	100.00
145	0.22	28.54	-4.39	153.19	-4.39	100.00
150	0.00	30.98	-5.28	152.20	-5.28	100.00
155	0.26	32.79	-5.89	145.29	-5.89	100.00
160	0.20	35.08	-6.63	147.65	-6.63	100.00
165	0.34	37.68	-7.40	133.77	-7.40	100.00
170	0.21	40.86	-8.28	142.23	-8.28	100.00
175	0.00	44.36	-9.18	140.45	-9.18	100.00
180	0.00	47.95	-10.00	138.12	-10.00	100.00
185	0.00	51.72	-10.00	138.12	-10.00	100.00

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Antenna Model		GD SATCOM Technologies 13.2 Meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives: Long Term		-156.7 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term		-146.7 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-30.9 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	55.63	-10.00	138.12	-10.00	100.00
195	0.00	59.66	-10.00	138.12	-10.00	100.00
200	0.00	63.76	-10.00	138.12	-10.00	100.00
205	0.00	67.94	-10.00	138.12	-10.00	100.00
210	0.00	72.17	-10.00	138.12	-10.00	100.00
215	0.00	76.44	-10.00	138.12	-10.00	100.00
220	0.00	80.73	-10.00	138.12	-10.00	100.00
225	0.00	85.05	-10.00	138.12	-10.00	100.00
230	0.00	89.37	-10.00	138.12	-10.00	100.00
235	0.28	93.71	-10.00	131.76	-10.00	100.00
240	0.00	98.01	-10.00	138.12	-10.00	100.00
245	0.00	102.32	-10.00	138.12	-10.00	100.00
250	0.00	106.59	-10.00	138.12	-10.00	100.00
255	0.00	110.83	-10.00	138.12	-10.00	100.00
260	0.00	115.03	-10.00	138.12	-10.00	100.00
265	0.00	119.16	-10.00	138.12	-10.00	100.00
270	0.00	123.21	-10.00	138.12	-10.00	100.00
275	0.00	127.15	-10.00	138.12	-10.00	100.00
280	0.00	130.97	-10.00	138.12	-10.00	100.00
285	0.00	134.62	-10.00	138.12	-10.00	100.00
290	0.00	138.05	-10.00	138.12	-10.00	100.00
295	0.00	141.21	-10.00	138.12	-10.00	100.00
300	0.00	144.01	-10.00	138.12	-10.00	100.00
305	0.00	146.38	-10.00	138.12	-10.00	100.00
310	0.00	148.22	-10.00	138.12	-10.00	100.00
315	0.00	149.41	-10.00	138.12	-10.00	100.00
320	0.00	149.89	-10.00	138.12	-10.00	100.00
325	0.00	149.63	-10.00	138.12	-10.00	100.00
330	0.00	148.63	-10.00	138.12	-10.00	100.00
335	0.00	145.97	-10.00	138.12	-10.00	100.00
340	0.00	142.66	-10.00	138.12	-10.00	100.00
345	0.00	139.06	-10.00	138.12	-10.00	100.00
350	0.00	135.23	-10.00	138.12	-10.00	100.00
355	0.00	131.23	-10.00	138.12	-10.00	100.00

5. Contact Information

For questions or information regarding the 28 GHz Frequency Coordination Report, please contact:

Contact person:	Joanna Lynch
Title:	Manager, Spectrum & Data Solutions
Company:	Comsearch
Address:	19700 Janelia Farm Blvd., Ashburn, VA 20147
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