

EXHIBIT A

**FREQUENCY COORDINATION AND INTERFERENCE
ANALYSIS REPORT**

Prepared for

**Intelsat North America LLC
Nuevo, California**

Satellite Earth Station

Prepared By:
COMSEARCH

19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
October 22, 2009

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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

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the proposed transmit-receive earth station.

Company

None

No carriers reported potential interference cases.

3. SUPPLEMENTAL SHOWING

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.

Expedited coordination data for this earth station was emailed and sent to the below listed carriers with a letter dated October 13, 2009.

Company

ANAHEIM CITY, COMMUNICATIONS DIVISION
AT&T California
AirSites2000, LLC
BNSF Railway Company
CARITAS TELECOMMUNICATIONS
CNG Communications, Inc.
COAST COMMUNITY COLLEGE DISTRICT
California, State of
Celco Partnership - California
Coachella Valley Water District
Cox Communications - San Diego Mkt
KTLA INC
LB Tower Company LLC
LOS ANGELES CITY WATER & POWER
Los Angeles County FCC Licensing Section
Los Angeles SMSA Ltd. Partnership
METROPOLITAN AREA NETWORKS, INC.
METROPOLITAN WATER DIST OF SO CALIFORNIA
MONTEBELLO CITY CALIFORNIA
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC -San Diego
ORANGE, COUNTY OF, CA
QUALCOMM INC.
RIVERSIDE COUNTY OF
SAN DIEGO COUNTY
SAN DIEGO, CITY OF
San Bernardino County of California
San Diego Gas & Electric Company
Southern California Edison Company
Southern California Gas Company
T-Mobile License LLC
TV MICROWAVES CO
Turn Wireless, LLC
University of California,HPWREN
Verizon California Inc.
Verizon Wireless (VAW) LLC (CA)
Western Technical Services

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 10/22/2009
Job Number: 091013COMSJC01

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code INTNOA
Licensee Name Intelsat North America LLC

Site Information NUEVO, CALIFORNIA

Venue Name
Latitude (NAD 83) 33° 47' 46.1" N
Longitude (NAD 83) 117° 5' 15.1" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 548.6 m / 1799.9 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 60° W to 180° West Longitude
Azimuth Range 109.8° to 254.1°
Corresponding Elevation Angles 18.6° / 13.8°
Antenna Centerline (AGL) 2.44 m / 8.0 ft

Antenna Information

Manufacturer Prodelin Corp.
Model 1244
Gain / Diameter 38.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth 2.16° / 4.00°

Receive

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

Prodelin Corp.
1244
38.0 dBi / 2.4 m
2.16° / 4.00°

Transmit

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

Prodelin Corp.
1244
42.0 dBi / 2.4 m
1.36° / 2.54°

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

-12.0
9.0
30.0
51.0
51.0
-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 4.0 GHz

500KG7D / 3700.0 - 4200.0

Transmit 6.1 GHz

500KG7D / 5925.0 - 6425.0

Max Great Circle Coordination Distance 285.3 km / 177.2 mi 137.1 km / 85.2 mi
Precipitation Scatter Contour Radius 379.6 km / 235.8 mi 100.0 km / 62.1 mi

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Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

NUEVO, CA

Licensee Name	Intelsat North America LLC				
Latitude (NAD 83)	33° 47' 46.1" N				
Longitude (NAD 83)	117° 5' 15.1" W				
Ground Elevation (AMSL)	548.6 m / 1799.9 ft				
Antenna Centerline (AGL)	2.44 m / 8.0 ft				
Antenna Model	Prodelin Corp. 1244				
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				-12.0 (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	2.58	105.57	-10.00	181.25	-10.00	100.00
5	2.97	104.24	-10.00	172.04	-10.00	100.00
10	3.65	99.47	-10.00	155.04	-10.00	100.00
15	3.65	94.64	-10.00	155.15	-10.00	100.00
20	3.65	89.81	-10.00	155.03	-10.00	100.00
25	3.50	84.98	-10.00	158.20	-10.00	100.00
30	3.84	80.14	-10.00	151.21	-10.00	100.00
35	3.93	75.31	-10.00	149.33	-10.00	100.00
40	3.86	70.49	-10.00	150.64	-10.00	100.00
45	3.85	65.69	-10.00	150.99	-10.00	100.00
50	3.46	60.95	-10.00	159.24	-10.00	100.00
55	3.49	56.19	-10.00	158.45	-10.00	100.00
60	3.21	51.52	-10.00	164.81	-10.00	100.00
65	3.92	46.66	-9.72	150.85	-9.72	100.00
70	3.70	42.06	-8.60	160.84	-8.60	100.00
75	3.97	37.39	-7.32	161.47	-7.32	100.00
80	4.22	32.80	-5.90	164.48	-5.90	100.00
85	4.13	28.48	-4.36	176.23	-4.36	100.00
90	4.09	24.37	-2.67	185.87	-2.67	100.00
95	3.27	21.19	-1.15	207.75	-1.15	100.00
100	3.31	18.10	0.56	216.29	0.56	100.00
105	3.60	15.73	2.08	218.64	2.08	100.00
110	4.29	14.31	3.11	211.38	3.11	100.00
115	4.50	15.01	2.59	205.29	2.59	100.00
120	4.48	17.36	1.01	199.42	1.01	100.00
125	4.65	20.52	-0.80	186.79	-0.80	100.00
130	4.26	24.47	-2.71	182.80	-2.71	100.00
135	4.87	27.64	-4.04	163.50	-4.04	100.00
140	4.30	31.42	-5.43	165.61	-5.43	100.00
145	4.67	34.35	-6.40	154.41	-6.40	100.00
150	4.35	37.50	-7.35	154.83	-7.35	100.00
155	4.09	40.31	-8.14	155.25	-8.14	100.00
160	4.31	42.35	-8.67	149.18	-8.67	100.00
165	4.85	43.61	-8.99	139.70	-8.99	100.00
170	5.82	43.93	-9.07	130.62	-9.07	100.00
175	6.25	44.22	-9.14	125.81	-9.14	100.00
180	7.07	43.64	-9.00	117.60	-9.00	100.00
185	6.80	43.68	-9.01	120.43	-9.01	100.00

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19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Coordination Values

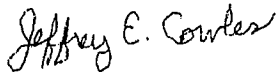
NUEVO, CA

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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			-12.0 (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	7.08	42.72	-8.76	118.41	-8.76	100.00
195	7.32	41.33	-8.41	117.25	-8.41	100.00
200	7.72	39.36	-7.88	115.21	-7.88	100.00
205	7.82	37.23	-7.27	116.62	-7.27	100.00
210	6.76	35.63	-6.80	129.75	-6.80	100.00
215	7.86	31.97	-5.62	122.96	-5.62	100.00
220	7.85	28.91	-4.53	127.66	-4.53	100.00
225	7.85	25.60	-3.21	133.28	-3.21	100.00
230	7.18	22.55	-1.83	145.73	-1.83	100.00
235	7.01	19.00	0.03	157.83	0.03	100.00
240	7.01	15.22	2.44	173.97	2.44	100.00
245	6.48	11.66	5.33	198.27	5.33	100.00
250	6.47	8.39	8.90	217.60	8.90	100.00
255	6.48	7.37	10.32	226.47	10.32	100.00
260	5.83	9.88	7.13	214.49	7.13	100.00
265	5.84	13.45	3.78	197.34	3.78	100.00
270	4.92	18.13	0.54	189.91	0.54	100.00
275	4.97	22.59	-1.85	175.67	-1.85	100.00
280	4.79	27.30	-3.90	165.54	-3.90	100.00
285	3.91	32.28	-5.72	173.20	-5.72	100.00
290	3.90	37.04	-7.22	163.50	-7.22	100.00
295	3.35	41.97	-8.57	170.77	-8.57	100.00
300	4.84	46.56	-9.70	136.98	-9.70	100.00
305	4.84	51.45	-10.00	135.66	-10.00	100.00
310	4.64	56.38	-10.00	138.47	-10.00	100.00
315	5.45	61.22	-10.00	130.50	-10.00	100.00
320	5.44	66.15	-10.00	130.59	-10.00	100.00
325	5.46	71.09	-10.00	130.40	-10.00	100.00
330	2.09	76.18	-10.00	192.39	-10.00	100.00
335	2.10	81.07	-10.00	192.31	-10.00	100.00
340	0.00	86.00	-10.00	285.28	-10.00	137.12
345	0.00	90.86	-10.00	285.28	-10.00	137.12
350	0.72	95.73	-10.00	236.22	-10.00	104.09
355	1.54	100.63	-10.00	204.55	-10.00	100.00

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, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT 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.



Jeffrey E. Cowles
Principal Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Va. 20147

DATED: October 22, 2009