EXHIBIT D – CSAT REMOTE SITE FREQUENCY COORDINATIONS

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.
BRONX, NY
OPPORTUNITIES FOR A BETTER TOMORROW
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
March 2, 2010

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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. Operation of the facility will be restricted to the satellite arc and bandwidth as shown in section 4 of this report.

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
Cellco Partnership-Newark-Dallas Verizon

No other 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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 1/22/2010.

Company
ALGONQUIN GAS TRANSMISSION CO
AT&T CORP
Ascent Media Network Services, Inc.
COMMONWEALTH OF PENNSYLVANIA,RADIO PROJ.
CONNECTICUT STATE POLICE DEPARTMENT
CONSOLIDATED EDISON COMPANY OF NEW YORK
Cellco Partnership - (W-NY)
Cellco Partnership - CT, W-MA
Cellco Partnership-Newark-Dallas Verizon
County of Orange Div of Wireless Tech
Direct Broadcast Services, Inc.
FELHC, Inc.
Goosetown Network Services, LLC
LB Tower Company LLC
MCI Communication Services, Inc.
METROPOLITAN AREA NETWORKS, INC.
NBC TELEMUNDO LICENSE CO.
NEW JERSEY STATE POLICE
NEW JERSEY TRANSIT RAIL OPERATIONS,INC
NEW YORK CITY POLICE DEPARTMENT
NORTHEAST UTILITIES SERVICE COMPANY
Nassau County Police Department
New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS LLC -NE Reg
New Cingular Wireless PCS of PA LLC
New Cingular Wireless PCS, LLC - NY
New Cingular Wireless PCS, LLC - PA
New Jersey, State of -NJ Transit
New York, CIty of
OCEAN, COUNTY OF
Orange Poughkeepsie SMSA LTD Partnership
Orange and Rockland Utilities, Inc.
PSEG Services Corporation
SUFFOLK, COUNTY OF
South Canaan Cellular Communications Co.
Stevens Institute of Technology
Texas Eastern Communications, 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 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: 01/22/2010
Job Number: 100122COMSTC04

Administrative Information

Licensee Name: HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.

Site Information — BRONX, NY

Venue Name	OPPORTUNITIES FOR A BETTER TOMORROW
Latitude (NAD 83)	40° 42' 3.6" N
Longitude (NAD 83)	73° 56' 37.3" W
Climate Zone	B
Rain Zone	2
Ground Elevation (AMSL)	6.1 m / 20.0 ft

Link Information

Satellite Type	Geostationary
Mode	TR - Transmit-Receive
Modulation	Digital
Satellite Arc	55.5° W to 55.5° West Longitude
Azimuth Range	152.9° to 152.9°
Corresponding Elevation Angles	39.3° / 39.3°
Antenna Centerline (AGL)	13.41 m / 44.0 ft

Antenna Information

	Receive	Transmit	
Manufacturer	ASC Signal	ASC Signal	
Model	183	183	
Gain / Diameter	35.4 dBi / 1.8 m	39.5 dBi / 1.8 m	
3-dB / 15-dB Beamwidth	2.00° / 4.00°	1.00° / 2.00°	
		312KG7W	4M90G7W
Max Available RF Power (dBW/4 kHz)		-15.7	-15.7
(dBW/MHz)		3.22	8.3
Maximum EIRP (dBW/4 kHz)		23.8	23.8
(dBW/MHz)		42.72	47.8
(dBW)		42.72	54.68
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%

Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	312KG7W / 3694.0 - 3702.0	312KG7W - 4M90G7W / 5919.0 - 5927.0
	312KG7W / 3670.0 - 3673.0	312KG7W - 4M90G7W / 5894.0 - 5899.0
Max Great Circle Coordination Distance	439.6 km / 273.1 mi	147.8 km / 91.8 mi
Precipitation Scatter Contour Radius	483.5 km / 300.4 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**BRONX, NY**			
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.			
Latitude (NAD 83)	40° 42' 3.6" N			
Longitude (NAD 83)	73° 56' 37.3" W			
Ground Elevation (AMSL)	6.1 m / 20.0 ft			
Antenna Centerline (AGL)	13.41 m / 44.0 ft			
Antenna Model	FCC Reference 32-25LOG(THETA)			
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			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	133.58	-10.00	412.20	-10.00	139.61
5	0.00	131.00	-10.00	412.20	-10.00	139.61
10	0.00	128.15	-10.00	412.20	-10.00	139.61
15	0.00	125.07	-10.00	412.20	-10.00	139.61
20	0.00	121.82	-10.00	412.20	-10.00	139.61
25	0.00	118.41	-10.00	412.20	-10.00	139.61
30	0.00	114.88	-10.00	412.20	-10.00	139.61
35	0.00	111.25	-10.00	412.20	-10.00	139.61
40	0.00	107.55	-10.00	412.20	-10.00	139.61
45	0.00	103.78	-10.00	412.20	-10.00	139.61
50	0.00	99.97	-10.00	412.20	-10.00	139.61
55	0.00	96.12	-10.00	412.20	-10.00	139.61
60	0.00	92.26	-10.00	412.20	-10.00	139.61
65	0.38	88.38	-10.00	354.57	-10.00	121.17
70	0.31	84.50	-10.00	376.48	-10.00	127.99
75	0.28	80.63	-10.00	384.12	-10.00	130.43
80	0.24	76.81	-10.00	397.54	-10.00	134.77
85	0.00	73.08	-10.00	412.20	-10.00	139.61
90	0.00	69.36	-10.00	412.20	-10.00	139.61
95	0.31	65.60	-10.00	375.86	-10.00	127.79
100	0.37	62.01	-10.00	357.48	-10.00	122.06
105	0.38	58.55	-10.00	354.48	-10.00	121.14
110	0.35	55.26	-10.00	361.91	-10.00	123.42
115	0.35	52.13	-10.00	362.91	-10.00	123.73
120	0.34	49.22	-10.00	365.16	-10.00	124.43
125	0.00	46.83	-9.76	415.14	-9.76	140.48
130	0.37	44.20	-9.14	366.13	-9.14	124.40
135	0.40	42.19	-8.63	361.84	-8.63	122.88
140	0.34	40.69	-8.24	386.39	-8.24	130.41
145	0.26	39.68	-7.96	417.68	-7.96	140.48
150	0.00	39.35	-7.87	439.46	-7.87	147.74
155	0.00	39.31	-7.86	439.62	-7.86	147.79
160	0.22	39.58	-7.94	431.02	-7.94	144.92
165	0.21	40.59	-8.21	431.00	-8.21	145.05
170	0.00	42.26	-8.65	429.32	-8.65	144.70
175	0.21	43.98	-9.08	420.96	-9.08	142.10
180	0.20	46.27	-9.63	416.26	-9.63	140.79
185	0.20	48.86	-10.00	411.44	-10.00	139.36

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**BRONX, NY**			
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.			
Latitude (NAD 83)	40° 42' 3.6" N			
Longitude (NAD 83)	73° 56' 37.3" W			
Ground Elevation (AMSL)	6.1 m / 20.0 ft			
Antenna Centerline (AGL)	13.41 m / 44.0 ft			
Antenna Model	FCC Reference 32-25LOG(THETA)			
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			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.26	51.69	-10.00	390.71	-10.00	132.55
195	0.36	54.72	-10.00	358.65	-10.00	122.42
200	0.33	58.01	-10.00	367.51	-10.00	125.16
205	0.40	61.41	-10.00	348.52	-10.00	119.33
210	0.58	64.90	-10.00	309.08	-10.00	108.93
215	0.41	68.62	-10.00	346.32	-10.00	118.67
220	0.25	72.39	-10.00	394.13	-10.00	133.66
225	0.00	76.22	-10.00	412.20	-10.00	139.61
230	0.00	80.03	-10.00	412.20	-10.00	139.61
235	0.00	83.88	-10.00	412.20	-10.00	139.61
240	0.00	87.74	-10.00	412.20	-10.00	139.61
245	0.00	91.61	-10.00	412.20	-10.00	139.61
250	0.00	95.48	-10.00	412.20	-10.00	139.61
255	0.00	99.33	-10.00	412.20	-10.00	139.61
260	0.00	103.15	-10.00	412.20	-10.00	139.61
265	0.00	106.92	-10.00	412.20	-10.00	139.61
270	0.00	110.64	-10.00	412.20	-10.00	139.61
275	0.00	114.28	-10.00	412.20	-10.00	139.61
280	0.00	117.83	-10.00	412.20	-10.00	139.61
285	0.00	121.26	-10.00	412.20	-10.00	139.61
290	0.00	124.54	-10.00	412.20	-10.00	139.61
295	0.00	127.65	-10.00	412.20	-10.00	139.61
300	0.00	130.54	-10.00	412.20	-10.00	139.61
305	0.00	133.17	-10.00	412.20	-10.00	139.61
310	0.00	135.49	-10.00	412.20	-10.00	139.61
315	0.00	137.45	-10.00	412.20	-10.00	139.61
320	0.00	139.00	-10.00	412.20	-10.00	139.61
325	0.00	140.07	-10.00	412.20	-10.00	139.61
330	0.00	140.65	-10.00	412.20	-10.00	139.61
335	0.00	140.69	-10.00	412.20	-10.00	139.61
340	0.00	140.20	-10.00	412.20	-10.00	139.61
345	0.00	139.21	-10.00	412.20	-10.00	139.61
350	0.00	137.74	-10.00	412.20	-10.00	139.61
355	0.00	135.84	-10.00	412.20	-10.00	139.61

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.

Timothy O. Crutcher
Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: March 2, 2010

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.
BRONX, NY
KINGSBRIDGE HEIGHTS COMMUNITY CITY
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
March 2, 2010

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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.

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FELHC, Inc.
Goosetown Network Services, LLC
LB Tower Company LLC
MCI Communication Services, Inc.
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NEW JERSEY STATE POLICE
NEW JERSEY TRANSIT RAIL OPERATIONS,INC
NEW YORK CITY POLICE DEPARTMENT
NORTHEAST UTILITIES SERVICE COMPANY
Nassau County Police Department
New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS LLC -NE Reg
New Cingular Wireless PCS of PA LLC
New Cingular Wireless PCS, LLC - NY
New Cingular Wireless PCS, LLC - PA
New Jersey, State of -NJ Transit
New York, CIty of
OCEAN, COUNTY OF
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Orange and Rockland Utilities, Inc.
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SUFFOLK, COUNTY OF
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COMSEARCH

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

Date:	01/22/2010
Job Number:	100122COMSTC05

Administrative Information

Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.

Site Information — BRONX, NY

Venue Name	KINGSBRIDGE HEIGHTS COMMUNITY CITY
Latitude (NAD 83)	40° 52' 39.3" N
Longitude (NAD 83)	73° 54' 2.5" W
Climate Zone	A
Rain Zone	2
Ground Elevation (AMSL)	31.6 m / 103.7 ft

Link Information

Satellite Type	Geostationary
Mode	TR - Transmit-Receive
Modulation	Digital
Satellite Arc	55.5° W to 55.5° West Longitude
Azimuth Range	153.1° to 153.1°
Corresponding Elevation Angles	39.1° / 39.1°
Antenna Centerline (AGL)	13.11 m / 43.0 ft

Antenna Information		Receive		Transmit	
Manufacturer		ASC Signal		ASC Signal	
Model		183		183	
Gain / Diameter		35.4 dBi / 1.8 m		39.5 dBi / 1.8 m	
3-dB / 15-dB Beamwidth		2.00° / 4.00°		1.00° / 2.00°	
				312KG7W	4M90G7W
Max Available RF Power	(dBW/4 kHz)			-15.7	-15.7
	(dBW/MHz)			3.22	8.3
Maximum EIRP	(dBW/4 kHz)			23.8	23.8
	(dBW/MHz)			42.72	47.8
	(dBW)			42.72	54.68
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%

Frequency Information	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	312KG7W / 3694.0 - 3702.0 312KG7W / 3670.0 - 3673.0	312KG7W - 4M90G7W / 5919.0 - 5927.0 312KG7W - 4M90G7W / 5894.0 - 5899.0
Max Great Circle Coordination Distance	299.5 km / 186.1 mi	134.1 km / 83.3 mi
Precipitation Scatter Contour Radius	483.5 km / 300.4 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.33	134.03	-10.00	269.28	-10.00	117.74
5	0.32	131.41	-10.00	270.45	-10.00	118.52
10	0.46	128.63	-10.00	253.80	-10.00	107.09
15	0.34	125.45	-10.00	268.06	-10.00	116.91
20	0.38	122.19	-10.00	262.97	-10.00	113.45
25	0.39	118.75	-10.00	262.72	-10.00	113.28
30	0.51	115.24	-10.00	249.02	-10.00	103.81
35	0.55	111.58	-10.00	246.34	-10.00	101.89
40	0.56	107.84	-10.00	245.76	-10.00	101.47
45	0.42	104.00	-10.00	258.74	-10.00	110.54
50	0.35	100.15	-10.00	266.99	-10.00	116.19
55	0.40	96.28	-10.00	260.50	-10.00	111.76
60	0.42	92.39	-10.00	258.29	-10.00	110.23
65	0.40	88.48	-10.00	260.47	-10.00	111.74
70	0.30	84.60	-10.00	272.93	-10.00	120.18
75	0.32	80.72	-10.00	269.96	-10.00	118.19
80	0.38	76.86	-10.00	263.75	-10.00	113.98
85	0.38	73.05	-10.00	263.78	-10.00	114.01
90	0.21	69.35	-10.00	283.82	-10.00	127.35
95	0.00	65.76	-10.00	285.28	-10.00	128.30
100	0.00	62.20	-10.00	285.28	-10.00	128.30
105	0.00	58.76	-10.00	285.28	-10.00	128.30
110	0.00	55.46	-10.00	285.28	-10.00	128.30
115	0.00	52.34	-10.00	285.28	-10.00	128.30
120	0.00	49.43	-10.00	285.28	-10.00	128.30
125	0.00	46.78	-9.75	286.86	-9.75	128.96
130	0.00	44.44	-9.19	290.46	-9.19	130.45
135	0.00	42.46	-8.70	293.69	-8.70	131.77
140	0.00	40.89	-8.29	296.38	-8.29	132.87
145	0.00	39.80	-8.00	298.35	-8.00	133.66
150	0.00	39.21	-7.83	299.43	-7.83	134.10
155	0.00	39.15	-7.82	299.54	-7.82	134.14
160	0.23	39.40	-7.89	295.56	-7.89	131.72
165	0.34	40.28	-8.13	279.45	-8.13	121.63
170	0.47	41.65	-8.49	262.01	-8.49	110.45
175	0.50	43.54	-8.97	256.05	-8.97	107.08
180	0.41	45.91	-9.55	262.42	-9.55	112.39
185	0.38	48.55	-10.00	263.44	-10.00	113.77

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**BRONX, NY**			
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.			
Latitude (NAD 83)	40° 52' 39.3" N			
Longitude (NAD 83)	73° 54' 2.5" W			
Ground Elevation (AMSL)	31.6 m / 103.7 ft			
Antenna Centerline (AGL)	13.11 m / 43.0 ft			
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			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.31	51.47	-10.00	271.13	-10.00	118.98
195	0.30	54.58	-10.00	273.37	-10.00	120.47
200	0.54	57.74	-10.00	247.28	-10.00	102.56
205	0.23	61.32	-10.00	281.51	-10.00	125.85
210	0.00	64.96	-10.00	285.28	-10.00	128.30
215	0.00	68.59	-10.00	285.28	-10.00	128.30
220	0.26	72.24	-10.00	277.65	-10.00	123.31
225	0.33	76.02	-10.00	269.47	-10.00	117.86
230	0.40	79.85	-10.00	260.99	-10.00	112.09
235	0.38	83.72	-10.00	263.34	-10.00	113.70
240	0.39	87.61	-10.00	261.75	-10.00	112.62
245	0.45	91.52	-10.00	254.91	-10.00	107.87
250	0.61	95.43	-10.00	242.85	-10.00	100.00
255	0.71	99.33	-10.00	236.87	-10.00	100.00
260	0.79	103.22	-10.00	232.05	-10.00	100.00
265	0.75	107.04	-10.00	234.39	-10.00	100.00
270	0.83	110.84	-10.00	229.54	-10.00	100.00
275	0.87	114.55	-10.00	227.59	-10.00	100.00
280	0.93	118.20	-10.00	223.81	-10.00	100.00
285	1.04	121.75	-10.00	219.10	-10.00	100.00
290	0.95	125.07	-10.00	222.77	-10.00	100.00
295	1.15	128.38	-10.00	215.78	-10.00	100.00
300	1.17	131.38	-10.00	215.04	-10.00	100.00
305	1.14	134.09	-10.00	215.84	-10.00	100.00
310	1.07	136.44	-10.00	218.25	-10.00	100.00
315	1.06	138.48	-10.00	218.33	-10.00	100.00
320	0.92	139.96	-10.00	224.80	-10.00	100.00
325	0.86	141.05	-10.00	227.70	-10.00	100.00
330	0.81	141.60	-10.00	230.79	-10.00	100.00
335	0.85	141.71	-10.00	228.23	-10.00	100.00
340	0.76	141.12	-10.00	233.90	-10.00	100.00
345	0.68	140.04	-10.00	238.24	-10.00	100.00
350	0.69	138.55	-10.00	237.60	-10.00	100.00
355	0.88	136.77	-10.00	226.95	-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.

Timothy O. Crutcher
Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: March 2, 2010

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.
BRONX, NY
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
January 15, 2010

TABLE OF CONTENTS

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. Operation will be restricted to the satellite and bandwidth shown in section 4 of this report.

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
Cellco Partnership-Newark-Dallas Verizon

No other 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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 12/29/2009.

Company
ALGONQUIN GAS TRANSMISSION CO
AT&T CORP
Ascent Media Network Services, Inc.
Atlantic City Electric Company
COMMONWEALTH OF PENNSYLVANIA,RADIO PROJ.
CONNECTICUT STATE POLICE DEPARTMENT
CONSOLIDATED EDISON COMPANY OF NEW YORK
Cellco Partnership - (W-NY)
Cellco Partnership - CT, W-MA
Cellco Partnership-Newark-Dallas Verizon
Cellco Prtnrshp - Phil. Tri-State Rgn
County of Orange Div of Wireless Tech
Direct Broadcast Services, Inc.
FELHC, Inc.
Goosetown Network Services, LLC
LB Tower Company LLC
MCI Communication Services, Inc.
METROPOLITAN AREA NETWORKS, INC.
NBC TELEMUNDO LICENSE CO.
NEW JERSEY STATE POLICE
NEW JERSEY TRANSIT RAIL OPERATIONS,INC
NEW YORK CITY POLICE DEPARTMENT
NORTHEAST UTILITIES SERVICE COMPANY
Nassau County Police Department
New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS LLC -NE Reg
New Cingular Wireless PCS of PA LLC
New Cingular Wireless PCS, LLC - NY
New Jersey, State of -NJ Transit
New York, CIty of
OCEAN, COUNTY OF
Orange Poughkeepsie SMSA LTD Partnership
Orange and Rockland Utilities, Inc.
PSEG Services Corporation
SUFFOLK, COUNTY OF
South Canaan Cellular Communications Co.
Stevens Institute of Technology
Texas Eastern Communications, 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 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:	01/15/2010
Job Number:	091229COMSTC02

Administrative Information

Status	ENGINEER PROPOSAL
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.

Site Information — BRONX, NY

Venue Name	MT HOPE HOUSING COMPANY
Latitude (NAD 83)	40° 50' 50.2" N
Longitude (NAD 83)	73° 54' 40.6" W
Climate Zone	B
Rain Zone	2
Ground Elevation (AMSL)	14.6 m / 47.9 ft

Link Information

Satellite Type	Geostationary
Mode	TR - Transmit-Receive
Modulation	Digital
Satellite Arc	55.5° W to 55.5° West Longitude
Azimuth Range	153.0° to 153.0°
Corresponding Elevation Angles	39.1° / 39.1°
Antenna Centerline (AGL)	19.2 m / 63.0 ft

Antenna Information		Receive	Transmit	
Manufacturer		ASC Signal	ASC Signal	
Model		183	183	
Gain / Diameter		35.4 dBi / 1.8 m	39.5 dBi / 1.8 m	
3-dB / 15-dB Beamwidth		2.00° / 4.00°	1.00° / 2.00°	
			312KG7W	4M90G7W
Max Available RF Power	(dBW/4 kHz)		-15.7	-15.7
	(dBW/MHz)		3.22	8.3
Maximum EIRP	(dBW/4 kHz)		23.8	23.8
	(dBW/MHz)		42.72	47.8
	(dBW)		42.72	54.68
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%

Frequency Information	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	312KG7W / 3694.0 - 3702.0	312KG7W - 4M90G7W / 5919.0 - 5927.0
	312KG7W / 3670.0 - 3673.0	312KG7W - 4M90G7W / 5894.0 - 5899.0
Max Great Circle Coordination Distance	440.1 km / 273.4 mi	147.9 km / 91.9 mi
Precipitation Scatter Contour Radius	483.5 km / 300.4 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**BRONX, NY**			
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.			
Latitude (NAD 83)	40° 50' 50.2" N			
Longitude (NAD 83)	73° 54' 40.6" W			
Ground Elevation (AMSL)	14.6 m / 47.9 ft			
Antenna Centerline (AGL)	19.2 m / 63.0 ft			
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			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.93	134.46	-10.00	261.91	-10.00	100.00
5	0.74	131.67	-10.00	286.50	-10.00	101.48
10	0.55	128.65	-10.00	313.35	-10.00	110.28
15	0.45	125.48	-10.00	336.22	-10.00	117.14
20	0.34	122.13	-10.00	364.63	-10.00	124.27
25	0.38	118.71	-10.00	354.61	-10.00	121.18
30	0.28	115.12	-10.00	385.83	-10.00	130.98
35	0.26	111.46	-10.00	390.19	-10.00	132.38
40	0.23	107.73	-10.00	400.22	-10.00	135.65
45	0.00	103.89	-10.00	412.20	-10.00	139.61
50	0.00	100.07	-10.00	412.20	-10.00	139.61
55	0.00	96.22	-10.00	412.20	-10.00	139.61
60	0.00	92.35	-10.00	412.20	-10.00	139.61
65	0.00	88.47	-10.00	412.20	-10.00	139.61
70	0.00	84.60	-10.00	412.20	-10.00	139.61
75	0.00	80.74	-10.00	412.20	-10.00	139.61
80	0.23	76.87	-10.00	402.49	-10.00	136.40
85	0.29	73.06	-10.00	380.02	-10.00	129.11
90	0.34	69.30	-10.00	367.13	-10.00	125.04
95	0.00	65.75	-10.00	412.20	-10.00	139.61
100	0.00	62.19	-10.00	412.20	-10.00	139.61
105	0.00	58.75	-10.00	412.20	-10.00	139.61
110	0.00	55.46	-10.00	412.20	-10.00	139.61
115	0.00	52.34	-10.00	412.20	-10.00	139.61
120	0.00	49.43	-10.00	412.20	-10.00	139.61
125	0.00	46.79	-9.75	415.27	-9.75	140.52
130	0.00	44.45	-9.20	422.29	-9.20	142.60
135	0.00	42.47	-8.70	428.63	-8.70	144.49
140	0.00	40.91	-8.30	433.91	-8.30	146.07
145	0.00	39.82	-8.00	437.78	-8.00	147.23
150	0.00	39.23	-7.84	439.91	-7.84	147.88
155	0.00	39.17	-7.82	440.12	-7.82	147.94
160	0.00	39.65	-7.96	438.38	-7.96	147.42
165	0.00	40.64	-8.22	434.86	-8.22	146.36
170	0.00	42.10	-8.61	429.84	-8.61	144.86
175	0.00	44.00	-9.09	423.70	-9.09	143.02
180	0.00	46.26	-9.63	416.80	-9.63	140.97
185	0.00	48.85	-10.00	412.20	-10.00	139.61

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**BRONX, NY**			
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.			
Latitude (NAD 83)	40° 50' 50.2" N			
Longitude (NAD 83)	73° 54' 40.6" W			
Ground Elevation (AMSL)	14.6 m / 47.9 ft			
Antenna Centerline (AGL)	19.2 m / 63.0 ft			
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			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	51.70	-10.00	412.20	-10.00	139.61
195	0.00	54.78	-10.00	412.20	-10.00	139.61
200	0.00	58.04	-10.00	412.20	-10.00	139.61
205	0.00	61.45	-10.00	412.20	-10.00	139.61
210	0.00	64.99	-10.00	412.20	-10.00	139.61
215	0.00	68.62	-10.00	412.20	-10.00	139.61
220	0.00	72.34	-10.00	412.20	-10.00	139.61
225	0.00	76.11	-10.00	412.20	-10.00	139.61
230	0.00	79.93	-10.00	412.20	-10.00	139.61
235	0.31	83.75	-10.00	373.77	-10.00	127.13
240	0.62	87.63	-10.00	302.46	-10.00	106.82
245	0.68	91.54	-10.00	294.76	-10.00	104.28
250	0.57	95.45	-10.00	310.22	-10.00	109.30
255	0.81	99.36	-10.00	276.77	-10.00	100.00
260	0.75	103.23	-10.00	283.97	-10.00	100.61
265	0.78	107.06	-10.00	280.06	-10.00	100.00
270	0.83	110.85	-10.00	274.07	-10.00	100.00
275	0.94	114.59	-10.00	261.05	-10.00	100.00
280	0.80	118.15	-10.00	277.69	-10.00	100.00
285	1.04	121.76	-10.00	251.50	-10.00	100.00
290	1.08	125.14	-10.00	249.08	-10.00	100.00
295	1.15	128.38	-10.00	245.17	-10.00	100.00
300	1.21	131.40	-10.00	241.62	-10.00	100.00
305	1.32	134.22	-10.00	235.02	-10.00	100.00
310	1.03	136.40	-10.00	252.27	-10.00	100.00
315	0.87	138.30	-10.00	267.91	-10.00	100.00
320	0.87	139.90	-10.00	268.47	-10.00	100.00
325	0.88	141.04	-10.00	266.82	-10.00	100.00
330	0.82	141.59	-10.00	274.32	-10.00	100.00
335	0.87	141.70	-10.00	268.24	-10.00	100.00
340	0.77	141.11	-10.00	281.03	-10.00	100.00
345	0.83	140.15	-10.00	273.88	-10.00	100.00
350	0.87	138.68	-10.00	268.56	-10.00	100.00
355	1.01	136.85	-10.00	253.18	-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.

Timothy O. Crutcher
Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: January 15, 2010

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.
BRONX, NY
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
January 15, 2010

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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. Operation of the facility will be restricted to the satellite arc and bandwidth as shown in section 4 of this report.

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
Cellco Partnership-Newark-Dallas Verizon

No other 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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 12/16/2009.

Company
ALGONQUIN GAS TRANSMISSION CO
AT&T CORP
Ascent Media Network Services, Inc.
COMMONWEALTH OF PENNSYLVANIA,RADIO PROJ.
CONNECTICUT STATE POLICE DEPARTMENT
CONSOLIDATED EDISON COMPANY OF NEW YORK
Cellco Partnership - (W-NY)
Cellco Partnership - CT, W-MA
Cellco Partnership-Newark-Dallas Verizon
County of Orange Div of Wireless Tech
Direct Broadcast Services, Inc.
FELHC, Inc.
Goosetown Network Services, LLC
LB Tower Company LLC
MCI Communication Services, Inc.
METROPOLITAN AREA NETWORKS, INC.
NBC TELEMUNDO LICENSE CO.
NEW JERSEY STATE POLICE
NEW JERSEY TRANSIT RAIL OPERATIONS,INC
NEW YORK CITY POLICE DEPARTMENT
NORTHEAST UTILITIES SERVICE COMPANY
Nassau County Police Department
New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS LLC -NE Reg
New Cingular Wireless PCS of PA LLC
New Cingular Wireless PCS, LLC - NY
New Cingular Wireless PCS, LLC - PA
New Jersey, State of -NJ Transit
New York, CIty of
OCEAN, COUNTY OF
Orange Poughkeepsie SMSA LTD Partnership
Orange and Rockland Utilities, Inc.
PSEG Services Corporation
SUFFOLK, COUNTY OF
South Canaan Cellular Communications Co.
Stevens Institute of Technology
Texas Eastern Communications, 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 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: 01/15/2010
Job Number: 091216COMSTC05

Administrative Information

Licensee Name: HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.

Site Information — BRONX, NY

Venue Name	CUNY OF THE CONCOURSE
Latitude (NAD 83)	40° 51' 46.0" N
Longitude (NAD 83)	73° 53' 50.6" W
Climate Zone	A
Rain Zone	2
Ground Elevation (AMSL)	38.4 m / 126.0 ft

Link Information

Satellite Type	Geostationary
Mode	TR - Transmit-Receive
Modulation	Digital
Satellite Arc	55.5° W to 55.5° West Longitude
Azimuth Range	153.1° to 153.1°
Corresponding Elevation Angles	39.1° / 39.1°
Antenna Centerline (AGL)	21.64 m / 71.0 ft

Antenna Information

	Receive	Transmit	
Manufacturer	ASC Signal	ASC Signal	
Model	183	183	
Gain / Diameter	35.4 dBi / 1.8 m	39.5 dBi / 1.8 m	
3-dB / 15-dB Beamwidth	2.00° / 4.00°	1.00° / 2.00°	
		312KG7W	4M90G7W
Max Available RF Power (dBW/4 kHz)		-15.7	-15.7
(dBW/MHz)		3.22	8.3
Maximum EIRP (dBW/4 kHz)		23.8	23.8
(dBW/MHz)		42.72	47.8
(dBW)		42.72	54.68
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%

Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	312KG7W / 3694.0 - 3702.0	312KG7W - 4M90G7W / 5919.0 - 5927.0
	312KG7W / 3670.0 - 3673.0	312KG7W - 4M90G7W / 5894.0 - 5899.0
Max Great Circle Coordination Distance	299.5 km / 186.1 mi	134.1 km / 83.3 mi
Precipitation Scatter Contour Radius	483.5 km / 300.4 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**BRONX, NY**			
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.			
Latitude (NAD 83)	40° 51' 46.0" N			
Longitude (NAD 83)	73° 53' 50.6" W			
Ground Elevation (AMSL)	38.4 m / 126.0 ft			
Antenna Centerline (AGL)	21.64 m / 71.0 ft			
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			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	133.76	-10.00	285.28	-10.00	128.30
5	0.22	131.33	-10.00	282.47	-10.00	126.47
10	0.00	128.32	-10.00	285.28	-10.00	128.30
15	0.00	125.24	-10.00	285.28	-10.00	128.30
20	0.26	122.11	-10.00	278.02	-10.00	123.56
25	0.28	118.69	-10.00	275.38	-10.00	121.81
30	0.00	115.03	-10.00	285.28	-10.00	128.30
35	0.00	111.40	-10.00	285.28	-10.00	128.30
40	0.00	107.69	-10.00	285.28	-10.00	128.30
45	0.00	103.91	-10.00	285.28	-10.00	128.30
50	0.00	100.09	-10.00	285.28	-10.00	128.30
55	0.00	96.24	-10.00	285.28	-10.00	128.30
60	0.00	92.37	-10.00	285.28	-10.00	128.30
65	0.00	88.49	-10.00	285.28	-10.00	128.30
70	0.00	84.62	-10.00	285.28	-10.00	128.30
75	0.00	80.76	-10.00	285.28	-10.00	128.30
80	0.00	76.93	-10.00	285.28	-10.00	128.30
85	0.00	73.15	-10.00	285.28	-10.00	128.30
90	0.00	69.42	-10.00	285.28	-10.00	128.30
95	0.00	65.76	-10.00	285.28	-10.00	128.30
100	0.00	62.21	-10.00	285.28	-10.00	128.30
105	0.00	58.76	-10.00	285.28	-10.00	128.30
110	0.00	55.47	-10.00	285.28	-10.00	128.30
115	0.00	52.35	-10.00	285.28	-10.00	128.30
120	0.00	49.44	-10.00	285.28	-10.00	128.30
125	0.00	46.79	-9.75	286.85	-9.75	128.95
130	0.00	44.45	-9.20	290.44	-9.20	130.44
135	0.00	42.47	-8.70	293.67	-8.70	131.76
140	0.00	40.91	-8.30	296.35	-8.30	132.86
145	0.00	39.81	-8.00	298.32	-8.00	133.65
150	0.00	39.22	-7.84	299.40	-7.84	134.09
155	0.00	39.16	-7.82	299.51	-7.82	134.13
160	0.00	39.64	-7.95	298.64	-7.95	133.78
165	0.00	40.62	-8.22	296.86	-8.22	133.06
170	0.00	42.09	-8.60	294.32	-8.60	132.03
175	0.00	43.98	-9.08	291.19	-9.08	130.75
180	0.00	46.24	-9.63	287.67	-9.63	129.29
185	0.00	48.83	-10.00	285.28	-10.00	128.30

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**BRONX, NY**			
Licensee Name	HISPANIC INFORMATION AND TELECOMMUNICATIONS NETWORK, INC.			
Latitude (NAD 83)	40° 51' 46.0" N			
Longitude (NAD 83)	73° 53' 50.6" W			
Ground Elevation (AMSL)	38.4 m / 126.0 ft			
Antenna Centerline (AGL)	21.64 m / 71.0 ft			
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			-15.7 (dBW/4 kHz)	

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	51.68	-10.00	285.28	-10.00	128.30
195	0.00	54.76	-10.00	285.28	-10.00	128.30
200	0.00	58.02	-10.00	285.28	-10.00	128.30
205	0.00	61.43	-10.00	285.28	-10.00	128.30
210	0.00	64.97	-10.00	285.28	-10.00	128.30
215	0.00	68.60	-10.00	285.28	-10.00	128.30
220	0.00	72.31	-10.00	285.28	-10.00	128.30
225	0.00	76.09	-10.00	285.28	-10.00	128.30
230	0.00	79.91	-10.00	285.28	-10.00	128.30
235	0.00	83.76	-10.00	285.28	-10.00	128.30
240	0.00	87.63	-10.00	285.28	-10.00	128.30
245	0.00	91.51	-10.00	285.28	-10.00	128.30
250	0.00	95.38	-10.00	285.28	-10.00	128.30
255	0.27	99.28	-10.00	276.38	-10.00	122.47
260	0.32	103.13	-10.00	270.77	-10.00	118.73
265	0.37	106.95	-10.00	264.02	-10.00	114.17
270	0.48	110.73	-10.00	252.17	-10.00	105.95
275	0.53	114.43	-10.00	247.62	-10.00	102.81
280	0.55	118.03	-10.00	246.41	-10.00	101.94
285	0.54	121.50	-10.00	247.08	-10.00	102.42
290	0.55	124.84	-10.00	246.62	-10.00	102.09
295	0.54	127.99	-10.00	247.26	-10.00	102.55
300	0.60	130.98	-10.00	243.24	-10.00	100.00
305	0.64	133.69	-10.00	241.15	-10.00	100.00
310	0.67	136.10	-10.00	239.13	-10.00	100.00
315	0.73	138.18	-10.00	235.36	-10.00	100.00
320	0.64	139.69	-10.00	240.79	-10.00	100.00
325	0.60	140.77	-10.00	243.59	-10.00	100.00
330	0.55	141.33	-10.00	246.54	-10.00	102.03
335	0.48	141.32	-10.00	251.95	-10.00	105.79
340	0.51	140.86	-10.00	249.22	-10.00	103.95
345	0.00	139.38	-10.00	285.28	-10.00	128.30
350	0.00	137.91	-10.00	285.28	-10.00	128.30
355	0.00	136.02	-10.00	285.28	-10.00	128.30

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.

Timothy O. Crutcher
Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: January 15, 2010