

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
NBC Telemundo License Co. (New York Cty)
ENGLEWOOD CL, NJ
E040464
Temporary operation for 06/07/2010 – 06/08/2010
C-Band Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
June 02, 2010

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 frequency shown in this report.

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.

Verbal and written coordination for this earth station was conducted on 06/02/2010. There are no unresolved interference cases involving this earth station.

Company

ALGONQUIN GAS TRANSMISSION CO
Allentown SMSA Limited Partnership
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, VT
Cellco Partnership-Newark-Dallas Verizon
Cellco Prtnrshp - Phil. Tri-State Rgn
County of Orange Div of Wireless Tech
Direct Broadcast Services, Inc.
EASTERN PENNSYLVANIA EMS COUNCIL
Exelon Generation Company, L.L.C
FELHC, Inc.
Federal Communications Commission
Goosetown Network Services, LLC
International Communications Group, Inc.
LB Tower Company LLC
METROPOLITAN AREA NETWORKS, INC.
MONROE COUNTY CONTROL CENTER
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
Northeast Pennsylvania SMSA LTD Prtnrsh
OCEAN, COUNTY OF
Orange Poughkeepsie SMSA LTD Partnership
Orange and Rockland Utilities, Inc.
PENNSYLVANIA TURNPIKE COMMISSION
PSEG Services Corporation
Peco Energy Company
Penn Service Microwave Co., Inc.
SBA Broadband Services
SUFFOLK, COUNTY OF
South Canaan Cellular Communications Co.
Stevens Institute of Technology
Texas Eastern Communications, Inc.

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: June 02, 2010

The following data presents the frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

Date: 06/02/2010
Job Number: 100602COMSTC01

Administrative Information

Status TEMPORARY (Operation from 06/07/2010 to 06/08/2010)
Call Sign E040464
Licensee Name NBC Telemundo License Co. (New York Cty)

Site Information**ENGLEWOOD CL, NJ**

Latitude (NAD 83) 40° 53' 40.2" N
Longitude (NAD 83) 73° 56' 33.3" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 124.97 m / 410.0 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 131°W to 131°West Longitude
Azimuth Range 247.0° to 247.0°
Corresponding Elevation Angles 15.9° / 15.9°
Antenna Centerline (AGL) 6.1 m / 20.0 ft

Antenna Information**Transmit**

Manufacturer VERTEX/RSI
Gain / Diameter 53.7 dBi / 9.0 m
3-dB / 15-dB Beamwidth 0.35° / 0.74°

Max Available RF Power (dBW/4 kHz) -13.5
(dBW/MHz) 10.5

Maximum EIRP (dBW/4 kHz) 40.2
(dBW/MHz) 64.2
(dBW) 60.7

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information**Transmit 6.1 GHz**

Emission / Frequency Range (MHz) 1M00G7W / 5965.0

Max Great Circle Coordination Distance 174.8 km / 108.6 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values**ENGLEWOOD CL, NJ**

Licensee Name NBC Telemundo License Co. (New York Cty)
Latitude (NAD 83) 40° 53' 40.2" N
Longitude (NAD 83) 73° 56' 33.3" W
Ground Elevation (AMSL) 124.97 m / 410.0 ft
Antenna Centerline (AGL) 6.1 m / 20.0 ft
Antenna Mode Transmit 6.1 GHz
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%
Max Available RF Power -13.5 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	112.06	-10.00	134.19
5	0.00	116.83	-10.00	134.19
10	0.00	121.58	-10.00	134.19
15	0.00	126.30	-10.00	134.19
20	0.00	130.98	-10.00	134.19
25	0.00	135.61	-10.00	134.19
30	0.00	140.17	-10.00	134.19
35	0.00	144.63	-10.00	134.19
40	0.00	148.96	-10.00	134.19
45	0.00	153.08	-10.00	134.19
50	0.00	156.87	-10.00	134.19
55	0.00	160.16	-10.00	134.19
60	0.00	162.65	-10.00	134.19
65	0.00	163.97	-10.00	134.19
70	0.00	163.82	-10.00	134.19
75	0.00	162.24	-10.00	134.19
80	0.00	159.57	-10.00	134.19
85	0.00	156.16	-10.00	134.19
90	0.00	152.29	-10.00	134.19
95	0.00	148.13	-10.00	134.19
100	0.00	143.77	-10.00	134.19
105	0.00	139.28	-10.00	134.19
110	0.00	134.71	-10.00	134.19
115	0.00	130.06	-10.00	134.19
120	0.00	125.37	-10.00	134.19
125	0.00	120.65	-10.00	134.19
130	0.00	115.90	-10.00	134.19
135	0.00	111.13	-10.00	134.19
140	0.00	106.34	-10.00	134.19
145	0.00	101.54	-10.00	134.19
150	0.00	96.74	-10.00	134.19
155	0.00	91.93	-10.00	134.19
160	0.00	87.12	-10.00	134.19
165	0.00	82.32	-10.00	134.19
170	0.00	77.52	-10.00	134.19
175	0.00	72.72	-10.00	134.19
180	0.00	67.94	-10.00	134.19
185	0.00	63.17	-10.00	134.19

Coordination Values	ENGLEWOOD CL, NJ
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Latitude (NAD 83)	40° 53' 40.2" N
Longitude (NAD 83)	73° 56' 33.3" W
Ground Elevation (AMSL)	124.97 m / 410.0 ft
Antenna Centerline (AGL)	6.1 m / 20.0 ft
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-13.5 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	58.42	-10.00	134.19
195	0.00	53.70	-10.00	134.19
200	0.00	49.02	-10.00	134.19
205	0.00	44.39	-9.18	135.19
210	0.00	39.83	-8.01	138.56
215	0.00	35.37	-6.71	142.45
220	0.00	31.04	-5.30	146.95
225	0.00	26.92	-3.75	152.13
230	0.00	23.13	-2.10	157.98
235	0.00	19.84	-0.44	164.22
240	0.00	17.35	1.02	171.51
245	0.00	16.03	1.88	174.84
250	0.00	16.18	1.78	174.45
255	0.00	17.76	0.77	170.53
260	0.00	20.43	-0.76	163.00
265	0.00	23.84	-2.43	156.79
270	0.00	27.71	-4.07	151.06
275	0.00	31.87	-5.59	146.02
280	0.00	36.23	-6.98	141.64
285	0.00	40.72	-8.24	137.86
290	0.00	45.29	-9.40	134.58
295	0.00	49.94	-10.00	134.19
300	0.00	54.63	-10.00	134.19
305	0.00	59.35	-10.00	134.19
310	0.00	64.10	-10.00	134.19
315	0.00	68.87	-10.00	134.19
320	0.00	73.66	-10.00	134.19
325	0.00	78.46	-10.00	134.19
330	0.00	83.26	-10.00	134.19
335	0.00	88.07	-10.00	134.19
340	0.00	92.88	-10.00	134.19
345	0.00	97.68	-10.00	134.19
350	0.00	102.48	-10.00	134.19
355	0.00	107.28	-10.00	134.19