

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

**Reuters America LLC  
HAUPPAUGE, NEW YORK**

**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, Virginia 20147  
August 1, 2008

## TABLE OF CONTENTS

1. CONCLUSIONS .....	3
2. SUMMARY OF RESULTS .....	4
3. SUPPLEMENTAL SHOWING .....	5
4. EARTH STATION COORDINATION DATA.....	6
5. CERTIFICATION.....	10

## 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.

Coordination data for this earth station was sent to the below listed carriers with an information-only letter dated August 1, 2008.

#### Company

ALGONQUIN GAS TRANSMISSION CO  
AT&T CORP  
American Cellular Corporation  
Ascent Media Network Services, Inc.  
CONNECTICUT STATE POLICE DEPARTMENT  
CONSOLIDATED EDISON COMPANY OF NEW YORK  
Cellco Partnership - (W-NY)  
Cellco Partnership - CT, W-MA  
Cellco Partnership-Newark-Dallas Verizon  
Direct Broadcast Services, Inc.  
Goosetown Network Services, LLC  
MCI Communication Services, Inc.  
METROPOLITAN AREA NETWORKS, INC.  
NASSAU, COUNTY OF  
NBC TELEMUNDO LICENSE CO.  
NEW JERSEY TRANSIT RAIL OPERATIONS, INC  
NEW YORK CITY POLICE DEPARTMENT  
NORTHEAST UTILITIES SERVICE COMPANY  
New Cingular Wireless PCS LLC -NE Reg  
New Jersey, State of -NJ Transit  
New York SMSA Limited Partnership  
New York State Office for Technology SWN  
New York, City of  
Orange Poughkeepsie SMSA LTD Partnership  
Orange and Rockland Utilities, Inc.  
PSEG Services Corporation  
SUFFOLK, COUNTY OF  
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: 08/01/2008  
Job Number: 080801COMSJC03

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### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign E950436  
Licensee Code S82280  
Licensee Name Reuters America LLC

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### Site Information

#### HAUPPAUGE, NEW YORK

Venue Name HAUPPAUGE  
Latitude (NAD 83) 40° 49' 15.4" N  
Longitude (NAD 83) 73° 15' 48.4" W  
Climate Zone A  
Rain Zone 2  
Ground Elevation (AMSL) 49.69 m / 163.0 ft

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### Link Information

Satellite Type Geostationary  
Mode TR - Transmit-Receive  
Modulation Digital  
Satellite Arc 18° W to 72° West Longitude  
Azimuth Range 114.4° to 178.1°  
Corresponding Elevation Angles 17.2° / 42.8°  
Antenna Centerline (AGL) 3.96 m / 13.0 ft

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### Antenna Information

#### Receive

#### Transmit

Manufacturer	Andrew Corporation	Andrew Corporation			
Model	AS73F-NH-1	AS73F-NH-1			
Gain / Diameter	48.5 dBi / 7.3 m	51.8 dBi / 7.3 m			
3-dB / 15-dB Beamwidth	0.60° / 1.22°	0.44° / 0.88°			
Max Available RF Power (dBW/4 kHz)		-13.0			
(dBW/MHz)		11.0			
Maximum EIRP (dBW/4 kHz)		38.8			
(dBW/MHz)		62.8			
(dBW)		78.3			
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%

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### Frequency Information

#### Receive 4.0 GHz

#### Transmit 6.1 GHz

Emission / Frequency Range (MHz)	36M0G7W / 3625.0 - 4200.0	36M0G7W / 5850.0 - 6425.0
Max Great Circle Coordination Distance	362.4 km / 225.2 mi	172.4 km / 107.1 mi
Precipitation Scatter Contour Radius	511.3 km / 317.7 mi	100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

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### Coordination Values

### HAUPPAUGE, NY

Licensee Name Reuters America LLC  
Latitude (NAD 83) 40° 49' 15.4" N  
Longitude (NAD 83) 73° 15' 48.4" W  
Ground Elevation (AMSL) 49.69 m / 163.0 ft  
Antenna Centerline (AGL) 3.96 m / 13.0 ft  
Antenna Model Andrew Corporation ES73F-NH-1  
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 -13.0 (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	0.00	113.22	-10.00	285.28	-10.00	134.30
5	0.00	108.48	-10.00	285.28	-10.00	134.30
10	0.00	103.73	-10.00	285.28	-10.00	134.30
15	0.00	98.96	-10.00	285.28	-10.00	134.30
20	0.00	94.19	-10.00	285.28	-10.00	134.30
25	0.00	89.41	-10.00	285.28	-10.00	134.30
30	0.00	84.64	-10.00	285.28	-10.00	134.30
35	0.00	79.87	-10.00	285.28	-10.00	134.30
40	0.00	75.10	-10.00	285.28	-10.00	134.30
45	0.00	70.35	-10.00	285.28	-10.00	134.30
50	0.00	65.61	-10.00	285.28	-10.00	134.30
55	0.00	60.90	-10.00	285.28	-10.00	134.30
60	0.00	56.21	-10.00	285.28	-10.00	134.30
65	0.00	51.56	-10.00	285.28	-10.00	134.30
70	0.00	46.96	-9.79	286.60	-9.79	134.88
75	0.00	42.42	-8.69	293.75	-8.69	138.02
80	0.00	37.98	-7.49	301.75	-7.49	141.60
85	0.00	33.67	-6.18	310.72	-6.18	145.70
90	0.00	29.56	-4.77	321.35	-4.77	150.38
95	0.00	25.72	-3.26	332.24	-3.26	155.63
100	0.00	22.31	-1.71	343.64	-1.71	161.27
105	0.00	19.56	-0.28	354.43	-0.28	168.38
110	0.00	17.77	0.76	362.43	0.76	172.43
115	0.54	16.71	1.42	326.08	1.42	141.16
120	1.26	16.91	1.30	281.06	1.30	113.76
125	1.21	19.15	-0.05	273.44	-0.05	111.20
130	1.65	21.89	-1.51	247.22	-1.51	100.00
135	2.10	24.72	-2.83	225.41	-2.83	100.00
140	1.98	27.80	-4.10	221.39	-4.10	100.00
145	1.96	30.60	-5.14	216.41	-5.14	100.00
150	1.88	33.20	-6.03	214.14	-6.03	100.00
155	2.08	35.27	-6.68	205.82	-6.68	100.00
160	3.06	36.28	-6.99	185.39	-6.99	100.00
165	2.81	38.01	-7.50	188.33	-7.50	100.00
170	2.45	39.46	-7.90	194.41	-7.90	100.00
175	2.18	40.40	-8.16	199.03	-8.16	100.00
180	1.98	40.85	-8.28	203.02	-8.28	100.00
185	2.08	41.19	-8.37	200.27	-8.37	100.00



# COMSEARCH

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### Coordination Values

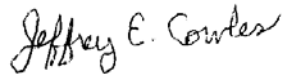
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Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz 20%
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power			-13.0 (dBW/4 kHz)

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	2.58	41.66	-8.49	188.63	-8.49	100.00
195	2.58	43.07	-8.85	186.84	-8.85	100.00
200	2.25	45.18	-9.37	191.90	-9.37	100.00
205	1.98	47.57	-9.93	195.49	-9.93	100.00
210	2.10	49.95	-10.00	192.20	-10.00	100.00
215	2.14	52.67	-10.00	191.37	-10.00	100.00
220	1.96	55.75	-10.00	195.73	-10.00	100.00
225	1.95	58.89	-10.00	195.79	-10.00	100.00
230	1.60	62.35	-10.00	205.32	-10.00	100.00
235	1.80	65.68	-10.00	199.85	-10.00	100.00
240	1.27	69.37	-10.00	212.10	-10.00	100.00
245	1.39	72.91	-10.00	208.65	-10.00	100.00
250	1.69	76.48	-10.00	202.85	-10.00	100.00
255	1.56	80.21	-10.00	206.36	-10.00	100.00
260	1.12	83.98	-10.00	216.67	-10.00	100.00
265	1.17	87.71	-10.00	215.13	-10.00	100.00
270	0.80	91.43	-10.00	231.25	-10.00	100.00
275	0.47	95.12	-10.00	253.24	-10.00	113.80
280	0.22	98.76	-10.00	283.32	-10.00	133.01
285	0.23	102.39	-10.00	280.91	-10.00	132.68
290	0.83	106.12	-10.00	229.68	-10.00	100.00
295	0.41	109.54	-10.00	259.87	-10.00	118.45
300	0.00	112.84	-10.00	285.28	-10.00	134.30
305	0.39	116.34	-10.00	261.77	-10.00	119.77
310	0.00	119.36	-10.00	285.28	-10.00	134.30
315	0.00	122.42	-10.00	285.28	-10.00	134.30
320	0.00	125.29	-10.00	285.28	-10.00	134.30
325	0.00	127.95	-10.00	285.28	-10.00	134.30
330	0.00	130.35	-10.00	285.28	-10.00	134.30
335	0.00	132.46	-10.00	285.28	-10.00	134.30
340	0.00	131.92	-10.00	285.28	-10.00	134.30
345	0.00	127.30	-10.00	285.28	-10.00	134.30
350	0.00	122.64	-10.00	285.28	-10.00	134.30
355	0.00	117.95	-10.00	285.28	-10.00	134.30

## 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.



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

DATED: August 1, 2008