



October 21, 2005

Mr. James Dorsa
Service Electric Cablevision, Inc.
1259 South cedar Crest Blvd.
Allentown, PA. 18103

REF: Final Report
Service Electric Cablevision, Inc.
Hazleton, PA & Birdsboro, PA.
C-band Receive-Only Earth Station

Dear James:

Enclosed please find the final report for the receive-only earth station referenced above.

Please attach this report with your FCC application for license registration. You will need to file your application with the FCC by 04/13/06 or an extension notice will need to be issued to keep the coordination current.

If you have any questions, please call me at (703) 726-5662.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary K. Edwards".

Gary K. Edwards
Senior Manager
Microwave and Satellite Services

Enclosure

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Service Electric Cablevision, Inc.
HAZLETON, PA
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
October 13, 2005

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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.

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 a letter dated 09/08/2005.

Company

AT&T CORP

MCI Worldcom Network Services, Inc.

NATIONAL RADIO ASTRONOMY OBSERVATORY

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: 10/13/2005
Job Number: 050908COMSTF09

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code SERCAB
Licensee Name Service Electric Cablevision, Inc.

Site Information HAZLETON, PA

Venue Name
Latitude (NAD 83) 40° 56' 11.0" N
Longitude (NAD 83) 76° 2' 35.0" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 580.64 m / 1905.0 ft

Link Information

Satellite Type Geostationary
Mode RO - Receive-Only
Modulation Analog and Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 156.3° to 254.4°
Corresponding Elevation Angles 39.9° / 8.6°
Antenna Centerline (AGL) 1.0 m / 3.3 ft

Antenna Information Receive

Manufacturer DH
Model 5.0 Meter
Gain / Diameter 44.0 dBi / 5.0 m
3-dB / 15-dB Beamwidth 0.80° / 1.60°

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

Frequency Information Receive 4.0 GHz

Emission / Frequency Range (MHz) 36M0F8W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 470.9 km / 292.6 mi

Precipitation Scatter Contour Radius 556.9 km / 346.0 mi

COMSEARCH

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Coordination Values

HAZLETON, PA

Licensee Name Service Electric Cablevision, Inc.
Latitude (NAD 83) 40° 56' 11.0" N
Longitude (NAD 83) 76° 2' 35.0" W
Ground Elevation (AMSL) 580.64 m / 1905.0 ft
Antenna Centerline (AGL) 1.0 m / 3.3 ft
Antenna Model DH
Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	105.40	-10.00	285.28
5	0.00	110.33	-10.00	285.28
10	0.00	115.27	-10.00	285.28
15	0.00	120.20	-10.00	285.28
20	0.00	123.70	-10.00	285.28
25	0.00	120.43	-10.00	285.28
30	0.00	117.02	-10.00	285.28
35	0.00	113.50	-10.00	285.28
40	0.00	109.88	-10.00	285.28
45	0.00	106.19	-10.00	285.28
50	0.00	102.44	-10.00	285.28
55	0.00	98.65	-10.00	285.28
60	0.00	94.84	-10.00	285.28
65	0.00	91.00	-10.00	285.28
70	0.00	87.17	-10.00	285.28
75	0.00	83.34	-10.00	285.28
80	0.00	79.54	-10.00	285.28
85	0.00	75.76	-10.00	285.28
90	0.00	72.04	-10.00	285.28
95	0.00	68.38	-10.00	285.28
100	0.00	64.81	-10.00	285.28
105	0.00	61.34	-10.00	285.28
110	0.00	57.99	-10.00	285.28
115	0.00	54.81	-10.00	285.28
120	0.00	51.81	-10.00	285.28
125	0.00	49.04	-10.00	285.28
130	0.00	46.54	-9.70	287.22
135	0.00	44.37	-9.18	290.56
140	0.00	42.57	-8.73	293.49
145	0.00	41.20	-8.37	295.84
150	0.00	40.30	-8.13	297.43
155	0.00	39.91	-8.03	298.14
160	0.00	40.03	-8.06	297.92
165	0.00	40.67	-8.23	296.77
170	0.00	41.71	-8.51	294.96
175	0.00	42.44	-8.69	293.72
180	0.00	42.68	-8.76	293.32
185	0.00	42.44	-8.69	293.72

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Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	41.71	-8.51	294.96
195	0.00	40.53	-8.20	297.02
200	0.00	38.93	-7.76	299.94
205	0.00	36.96	-7.19	303.76
210	0.00	34.65	-6.49	308.56
215	0.00	32.07	-5.65	315.06
220	0.00	29.25	-4.65	322.16
225	0.00	26.22	-3.47	330.71
230	0.00	23.03	-2.06	341.07
235	0.00	19.70	-0.36	353.83
240	0.00	16.26	1.72	369.97
245	0.00	12.73	4.38	390.57
250	0.00	9.66	7.37	415.73
255	0.00	8.62	8.61	470.94
260	0.00	10.24	6.75	410.34
265	0.50	13.29	3.91	349.04
270	0.44	17.54	0.90	332.34
275	0.46	22.06	-1.59	309.53
280	0.38	26.78	-3.69	304.43
285	0.00	31.65	-5.51	316.08
290	0.00	36.47	-7.05	304.76
295	0.00	41.32	-8.40	295.63
300	0.00	46.20	-9.62	287.73
305	0.00	51.10	-10.00	285.28
310	0.00	56.02	-10.00	285.28
315	0.00	60.94	-10.00	285.28
320	0.00	65.87	-10.00	285.28
325	0.00	70.80	-10.00	285.28
330	0.00	75.74	-10.00	285.28
335	0.00	80.68	-10.00	285.28
340	0.00	85.63	-10.00	285.28
345	0.00	90.57	-10.00	285.28
350	0.00	95.51	-10.00	285.28
355	0.00	100.46	-10.00	285.28

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.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: October 13, 2005