

ATTACHMENT B - Page 1 of 3
SATELLITE EARTH STATION TECHNICAL EXHIBIT

02-Sep-05

Company	CTV TELEVISION, INC.	BUFFALO, NEW YORK
Earth Station Name, State		
Latitude (DMS) (NAD 83)		42 53 16.84 N
Longitude (DMS) (NAD83)		78 50 17.06 W
Ground Elevation AMSL (Ft/m)		600ft
Antenna Centerline AGL (Ft/m)		6.00 / 1.83

Transmit Antenna Type: ANDREW CORP. ESA24SNG-LTE
14.0 Ghz Gain (dBi) / Diameter (m) 48.9 / 2.4
3 dB / 15 dB Half Beamwidth 0.1 / 0.2

Operating Mode TRANSMIT ONLY

Modulation DIGITAL

Emission / Transmit Band (Mhz) 36M0F3F / 14000.0000 - 14500.0000

Max. Available RF Power ((dBW) / 4 KHz) 0.00
((dBW) / Mhz) 24.00

Max. EIRP ((dBW) / 4 KHz) 48.90
((dBW) / Mhz) 72.90
(dBW) 75.89

Max EIRP Density Toward The Horizon (dBW / 4Khz) -4.33

Max permissible Interference Power
14.0 Ghz, 20% (dBW/4 KHz) -155.0
14.0 Ghz, 0.0025% (dBW/4 KHz) -128.0

Range of Satellite Arc (Geostationary)
Degrees Longitude 74.05 W / 74.05 W
Azimuth Range (Min/Max) 180.1 / 180.1
Corresponding Elevation Angles 40.3 / 40.3

Radio Climate A
Rain Zone 2

Max Great Circle Coordination Distance (Mi /Km) 110.2 / 177.4
14.0 GHz

Precipitation Scatter Contour Radius (Mi / Km) 96.2 / 154.8
14.0 GHz

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Ground Elevation AMSL (Ft/m)		6.00 / 1.83
Antenna Centerline AGL (Ft/m)		0.0 (dBW/4 Khz)
Objectives: Transmit -151.1 (dBW / 4 KHZ) TX Power		

Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	Antenna Gain (dBi)	Coordination Distance (Km)
0	0.22	122.43	-10.00	152.6
5	0.23	118.24	-10.00	151.0
10	0.24	113.99	-10.00	150.1
15	0.39	109.71	-10.00	136.6
20	0.30	105.34	-10.00	144.9
25	0.32	100.96	-10.00	143.0
30	0.32	96.56	-10.00	143.1
35	0.32	92.15	-10.00	142.5
40	0.36	87.73	-10.00	138.8
45	0.36	83.32	-10.00	138.8
50	0.37	78.92	-10.00	138.6
55	0.32	74.54	-10.00	142.8
60	0.31	70.19	-10.00	143.8
65	0.31	65.88	-10.00	144.0
70	0.31	61.62	-10.00	143.4
75	0.31	57.43	-10.00	143.3
80	0.32	53.32	-10.00	142.4
85	0.32	49.33	-10.00	142.9
90	0.31	45.58	-9.45	145.3
95	0.26	41.85	-8.54	153.5
100	0.23	38.45	-7.62	159.9
105	0.00	35.53	-6.76	168.1
110	0.00	32.86	-5.92	171.3
115	0.00	30.71	-5.18	174.1
120	0.00	29.19	-4.63	176.2
125	0.00	28.40	-4.33	177.3
130	0.00	28.41	-4.34	177.3
135	0.00	29.22	-4.64	176.2
140	0.00	30.76	-5.20	174.1
145	0.00	32.92	-5.94	171.2
150	0.00	35.61	-6.79	168.0
155	0.00	38.69	-7.69	164.6
160	0.00	42.10	-8.61	159.6
165	0.00	45.74	-9.51	156.3
170	0.00	49.58	-10.00	154.5
175	0.00	53.55	-10.00	154.5
180	0.00	57.64	-10.00	154.5

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Objectives: Transmit -151.1 (dBW / 4 KHZ) TX Power		

Azimuth (Deg)	Horizon Elevation Angle	Antenna Disc. Angle	Antenna Gain (dBi)	Coordination Distance (Km)
185	0.00	61.82	-10.00	154.5
190	0.00	66.07	-10.00	154.5
195	0.00	70.37	-10.00	154.5
200	0.00	74.71	-10.00	154.5
205	0.00	79.07	-10.00	154.5
210	0.00	83.46	-10.00	154.5
215	0.00	87.86	-10.00	154.5
220	0.00	92.26	-10.00	154.5
225	0.00	96.66	-10.00	154.5
230	0.00	101.04	-10.00	154.5
235	0.00	105.41	-10.00	154.5
240	0.00	109.75	-10.00	154.5
245	0.00	114.04	-10.00	154.5
250	0.00	118.29	-10.00	154.5
255	0.00	122.47	-10.00	154.5
260	0.00	126.55	-10.00	154.5
265	0.00	130.53	-10.00	154.5
270	0.00	134.36	-10.00	154.5
275	0.00	138.00	-10.00	154.5
280	0.00	141.39	-10.00	154.5
285	0.00	144.47	-10.00	154.5
290	0.00	147.14	-10.00	154.5
295	0.00	149.29	-10.00	154.5
300	0.00	150.81	-10.00	154.5
305	0.00	151.60	-10.00	154.5
310	0.00	151.59	-10.00	154.5
315	0.00	150.78	-10.00	154.5
320	0.00	149.24	-10.00	154.5
325	0.00	147.08	-10.00	154.5
330	0.00	144.39	-10.00	154.5
335	0.00	141.31	-10.00	154.5
340	0.00	137.90	-10.00	154.5
345	0.00	134.26	-10.00	154.5
350	0.00	130.42	-10.00	154.5
355	0.00	126.45	-10.00	154.5