

**Exhibit 13.1 - Copy of Existing
Antenna Structure Registration****Registration Detail**

Reg Number	1005780	Status	Constructed
File Number	A0006802	Constructed	08/01/1972
FAA Study		EMI	No
FAA Issue Date		NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long 42-40-26.0 N 071-11-24.0 W 119 CHANDLER RD
 City, State ANDOVER , MA
 Center of
 AM Array

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
60.9	122.8
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
183.7	121.9

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 12, 21

Owner & Contact Information

FRN Licensee ID

Owner

GOWDY FAMILY LIMITED PARTNERSHIP DBA = CURT P: (508)683-7171
 GOWDY BROADCASTING WCCM AM E:
 Attention To: JOHN BASSETT
 33 FRANKLIN ST
 LAWRENCE , MA 01840

ContactP:
E:**Last Action Status**

Status	Constructed	Received	10/25/1996
Purpose	New	Entered	11/01/1996
Mode	Mail In (Manual)		

Related Applications

10/25/1996 A0006802 - New (NE)

Exhibit 13.2

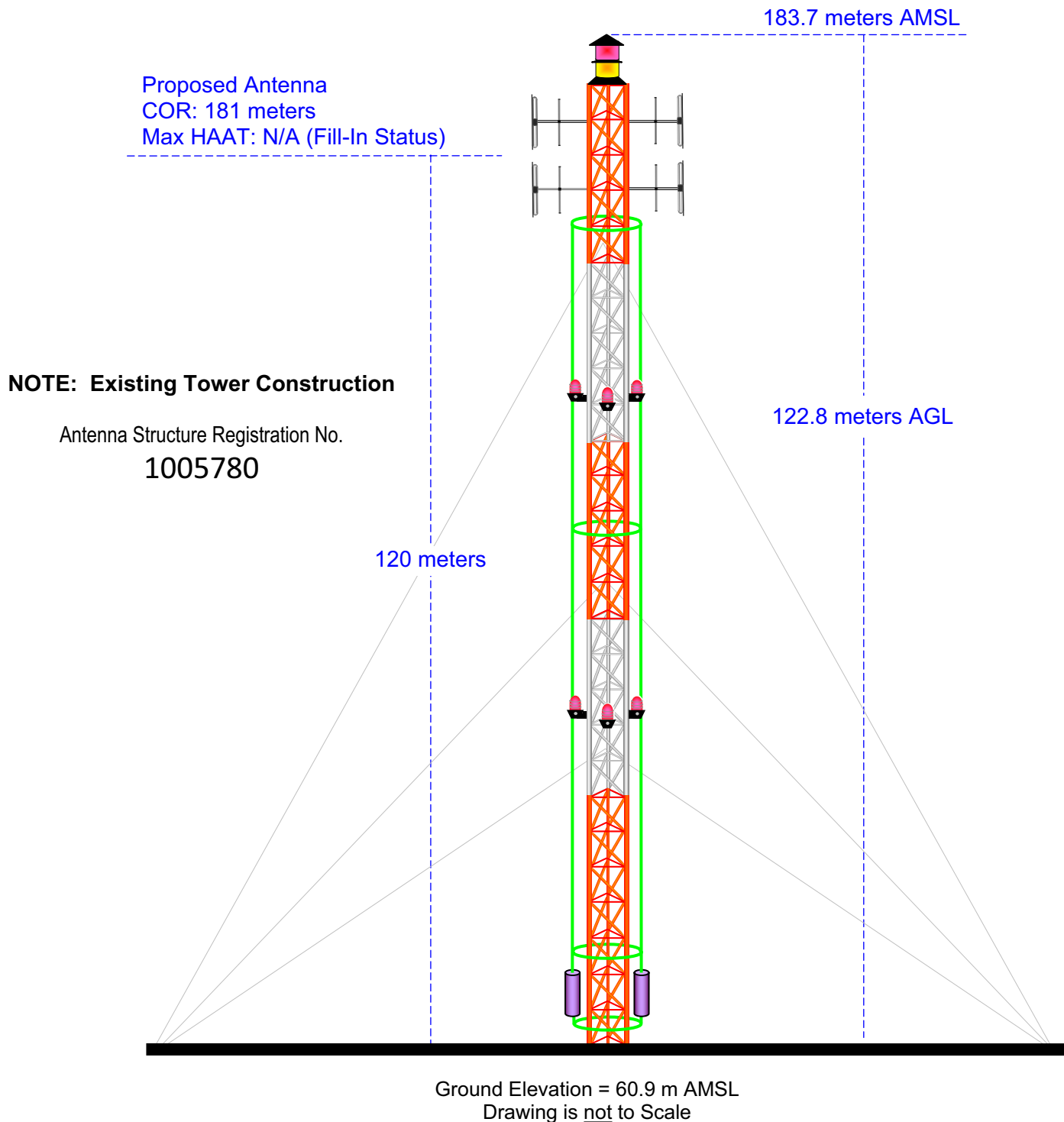
Vertical Plan of Antenna System

The site is located at 119 Chandler Road,
the city of Andover, Essex County, Massachusetts.

Site Location (NAD 27)

NL: 42° 40' 26"

WL: 71° 11' 26"



MUNN-REESE, INC.

Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.3 Present vs. Proposed Coverage Map

W275BH.P
Proposed Operation
Latitude: 42-40-26 N
Longitude: 071-11-26 W
ERP: 0.25 kW
Channel: 275
Frequency: 102.9 MHz
AMSL Height: 181.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

60 dBu Contour
Total Population: 427,194
Total Area: 534 sq. km

W275BH.L
BLFT-20110610ACT
Latitude: 42-40-26 N
Longitude: 071-11-26 W
ERP: 0.097 kW
Channel: 275
Frequency: 102.9 MHz
AMSL Height: 180.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

60 dBu Contour
Total Population: 192,450
Total Area: 241 sq. km

Terrain
-1 173 m

USGS 03 SEC Terrain Database
U.S. Census 2010 PL Database

Proposed 60 dBu F(50:50)

Licensed 60 dBu F(50:50)

Haverhill

Methuen

Lawrence

+ W275BH.P
W275BH.L

Andover

Boxford

Topsfield

Lowell

Scale 1:150,000

0 2 4 6 km

V-Soft Communications LLC ©



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Call: WNNW(AM)
BL-20060209AET
Freq: 800 kHz
LAWRENCE, MA, US
Lat: 42-40-26 N
Lng: 071-11-26 W
Power: 3.0 kW
Theoretical RMS:
286.46 mV/m @ 1km

W275BH.P
Proposed Operation
Latitude: 42-40-26 N
Longitude: 071-11-26 W
ERP: 0.25 kW
Channel: 275
Frequency: 102.9 MHz
AMSL Height: 181.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Exhibit 13.4 Proposed vs. Primary Service Contour Study

USGS 03 SEC Terrain Database
U.S. Census 2010 PL Database

25 mile Radius - WNNW(AM) Site

WNNW(AM) 2.0 mV/m Daytime AM Contour

Proposed 60 dBu F(50:50)

Lawrence

W275BH.P
WNNW(AM)

Essex

Middlesex

Suffolk

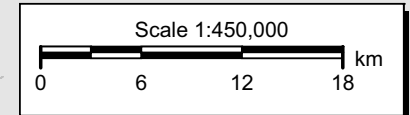


Exhibit 13.5

Tabulation of Proposed Translator Allocation

Costa-eagle Radio Ventures Limited Partnership											
REFERENCE 42 40 26.0 N. 71 11 26.0 W.		CH# 275D	- 102.9 MHz, Pwr= 0.25 kw DA, HAAT= 139.0 M, COR= 181 M Average Protected F(50-50)= 15.19 km Standard Directional						DISPLAY DATES DATA 06-26-11 SEARCH 06-27-11		
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* (Overlap in km)
275D	W275BH Lawrence	LIC DC_	MA	0.0 0.0	0.0 BLFT20110610ACT	42 40 26.0 71 11 26.0	0.097 34.4	180	10.2	-49.3*	-59.9*
275C0	WBLM Portland	LIC _CX	ME	21.9 202.4	150.1 BLH20030224ABB	43 55 29.0 70 29 29.0	100.000 435	188.1 551	84.4	-53.7*<	14.1
277B	WODS Boston	LIC _CX	MA	183.9 3.9	40.8 BLH20101105AAT	42 18 27.4 71 13 26.7	8.700 351	4.9 392	64.8	28.0	-24.6*<
273B	WKLB-FM Waltham	LIC NC_	MA	185.4 5.4	40.6 BLH20090515ABT	42 18 37.0 71 14 14.0	14.000 276	5.4 320	64.0	27.3	-24.0*<
275L1	WLLO-LP Londonderry	LIC _	NH	328.2 148.1	32.1 BLL20091228ADQ	42 55 08.0 71 23 53.0	0.100 28	18.6 119	5.6	5.6	0.1
275D	637656 Boston	APP _C_	MA	165.3 345.4	37.3 BNPFT20030317JRJ	42 20 57.0 71 04 31.0	0.010 240	29.7 257	8.9	0.3	3.6
275D	649953 Boston	APP _C_	MA	165.3 345.4	37.3 BNPFT20030317KLX	42 20 57.0 71 04 31.0	0.010 237	29.5 254	8.9	0.5	3.7
276D	W276BJ Concord	LIC DC_	NH	329.6 149.3	57.5 BLFT20081231AAZ	43 07 09.0 71 32 58.0	0.250 139	19.6 275	13.1	30.1	33.4
275B	WDRC-FM Hartford	LIC _C_	CT	228.4 47.3	184.3 BMLH20110107ACK	41 33 44.0 72 50 40.0	19.500 247	134.1 345	69.7	35.1	48.4
275A	WPXC Hyannis	LIC _CX	MA	147.3 327.9	129.7 BLH20030709ABD	41 41 20.0 70 20 49.0	3.100 141	84.5 151	29.1	37.0	73.2
272A	WWHK Concord	LIC _CX	NH	332.7 152.4	68.0 BMLH20060210ABW	43 13 00.0 71 34 34.0	3.000 87	2.3 222	24.2	57.8	43.5
221A	WFEX Peterborough	LIC NC_	NH	290.6 110.1	60.1 BLH20010828AAS	42 51 41.0 71 52 45.0	0.170 423	29.1 734	27.3	9.5R	50.6M
275D	W275AS Greenfield	LIC _C_	MA	265.7 84.8	115.8 BLFT20050307AAG	42 35 16.0 72 36 06.0	0.095 -86	18.3 98	5.6	82.2	59.7

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone= East Zone, Co to 3rd adjacent.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.
 < = Contour Overlap
 Reference station has protected zone issue: AM tower

Yellow highlighted text denotes a §74.1204(d) Waiver Request for given second adjacent channel interference toward WODS(FM) - Boston, MA CH277B and WKLB-FM - Waltham, MA CH273B as included in **Exhibit 13.6**. Full protection will be afforded both facilities as the calculated interference area will not reach the ground nor a 7 meter artificial plane representing a standard two story building when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. Or in cases where the calculated interference area will reach the ground, the ground has been shown to be void of houses, buildings or major roads as noted on recent aerial photographs.

Blue Highlighted Text denotes contour protection studies toward select stations as included in **Exhibit(s) 13.8 to 13.10**. These stations represent the closest contour protections noted in the allocation. It is believed sufficient clearance exists precluding the need for additional contour protection showings, however additional contour protection studies will be supplied upon request.

Terrain

-14

173 m

WKLB-FM - 65.05 dBu F(50:50) Contour

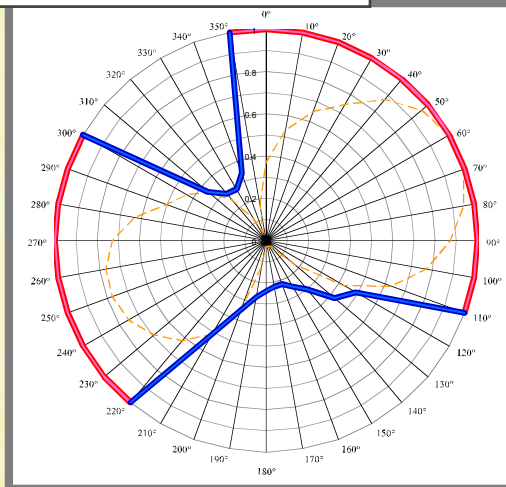
WODS(FM) - 65.05 dBu F(50:50) Contour

W275BH.P - 105.05 dBu F(50:10) Contour

W275BH.P

FCC Submitted Pattern vs. Manufacturer's Pattern TAB & PLOT

Azi	Field	dBk	kW	Exhibit #
000	1.000	-06.021	0.250	Exhibit 13.6a-b
010	1.000	-06.021	0.250	Exhibit 13.6a-b
020	1.000	-06.021	0.250	Exhibit 13.6a-b
030	1.000	-06.021	0.250	Exhibit 13.6a-b
040	1.000	-06.021	0.250	Exhibit 13.6a-b
050	1.000	-06.021	0.250	Exhibit 13.6a-b
060	1.000	-06.021	0.250	Exhibit 13.6a-b
070	1.000	-06.021	0.250	Exhibit 13.6a-b
080	1.000	-06.021	0.250	Exhibit 13.6a-b
090	1.000	-06.021	0.250	Exhibit 13.6a-b
100	1.000	-06.021	0.250	Exhibit 13.6a-b
110	1.000	-06.021	0.250	Exhibit 13.6a-b
120	0.490	-12.218	0.060	Exhibit 13.6c
130	0.424	-13.468	0.045	Exhibit 13.6c
140	0.297	-16.576	0.022	Exhibit 13.6c
150	0.250	-18.062	0.016	Exhibit 13.6c
160	0.219	-19.208	0.012	Exhibit 13.6c
170	0.220	-19.172	0.012	Exhibit 13.6c
180	0.237	-18.539	0.014	Exhibit 13.6c
190	0.268	-17.447	0.018	Exhibit 13.6c
200	0.346	-15.229	0.030	Exhibit 13.6c
210	0.511	-11.852	0.065	Exhibit 13.6c
220	1.000	-06.021	0.250	Exhibit 13.6a-b
230	1.000	-06.021	0.250	Exhibit 13.6a-b
240	1.000	-06.021	0.250	Exhibit 13.6a-b
250	1.000	-06.021	0.250	Exhibit 13.6a-b
260	1.000	-06.021	0.250	Exhibit 13.6a-b
270	1.000	-06.021	0.250	Exhibit 13.6a-b
280	1.000	-06.021	0.250	Exhibit 13.6a-b
290	1.000	-06.021	0.250	Exhibit 13.6a-b
300	1.000	-06.021	0.250	Exhibit 13.6a-b
310	0.359	-14.919	0.032	Exhibit 13.6c
320	0.290	-16.773	0.021	Exhibit 13.6c
330	0.280	-17.077	0.020	Exhibit 13.6c
340	0.340	-15.391	0.029	Exhibit 13.6c
350	1.000	-06.021	0.250	Exhibit 13.6a-b



Explanation of §74.1204(d) Waiver Request

Full protection of this §74.1204(d) waiver request has been broke down into three parts. Protection of the radial arcs representing a full field (0.250 kW) from the base of the tower to the 185 meter mark are void of buildings or major roads as noted in **Exhibit 13.6b**. Protection of the full field (0.250 kW) radial arcs the 185 meter mark to the extent of the calculated 105.05 dBu F(50:10) interference contour will not reach the ground as noted in **Exhibit 13.6a**. Protection of the radial arcs representing the directional antenna nulls will not reach the ground as noted in **Exhibit 13.6c**.

Exhibit 13.6a - Full-Field Major Lobes (=0.250 kW) Radials 000°T-110°T & 220°T-300°T

Portions of the §74.1204(d) protection through the full-field major lobes toward WODS(FM) - Boston, MA CH277B and WKLB-FM - Waltham, MA CH273B have been demonstrated through this second adjacent channel downward radiation study. Full protection will be afforded both facilities from 185 meters to extent of the calculated 105.05 dBu F(50:10) interference contour as this area will not reach the ground nor a 7 meter artificial plane representing a standard two story building when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has been included in **Exhibit 13.7**.

Exhibit 13.6b - Full-Field Major Lobes (=0.250 kW) (Radials 000°T-110°T & 220°T-300°T)

The remaining portions of the §74.1204(d) protection through the full-field major lobes toward WODS(FM) - Boston, MA CH277B and WKLB-FM - Waltham, MA CH273B have been demonstrated through the attached aerial photograph. Full protection will be afforded both facilities from the base of the proposed tower to the 185 meter mark of the calculated 105.05 dBu F(50:10) interference contour. This area has been demonstrated to be void of all population, houses, buildings or major roads as shown in the supplied aerial photo.

Exhibit 13.6c - Directional Antenna Nulls (≤ 0.065 kW) (Radials 120°T-210°T & 310°T-350°T)

Portions of the §74.1204(d) protection through the directional nulls toward WODS(FM) - Boston, MA CH277B and WKLB-FM - Waltham, MA CH273B have been demonstrated through this second adjacent channel downward radiation study. Full protection will be afforded both facilities as the calculated 105.05 dBu F(50:10) interference contour will not reach the ground nor a 7 meter artificial plane representing a standard two story building when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has been included in **Exhibit 13.7**.

WKLB-FM +
WODS(FM)

USGS 03 SEC Terrain Database
U.S. Census 2010 PL Database

Exhibit 13.6 §74.1204(d) 2nd Adjacent Channel Given Interference Waiver Request Study Toward

WODS(FM) - CH277B - Boston, MA
WKLB-FM - CH233B - Waltham, MA

W275BH.P

Proposed Operation
Latitude: 42-40-26 N
Longitude: 071-11-26 W
ERP: 0.25 kW
Channel: 275
Frequency: 102.9 MHz
AMSL Height: 181.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WODS(FM)

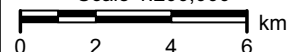
BLH20101105AAI
Latitude: 42-18-27.40 N
Longitude: 071-13-26.70 W
ERP: 8.70 kW
Channel: 277
Frequency: 103.3 MHz
AMSL Height: 391.6 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WKLB-FM

BLH20090515ABT
Latitude: 42-18-37 N
Longitude: 071-14-14 W
ERP: 14.00 kW
Channel: 273
Frequency: 102.5 MHz
AMSL Height: 320.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



Scale 1:200,000

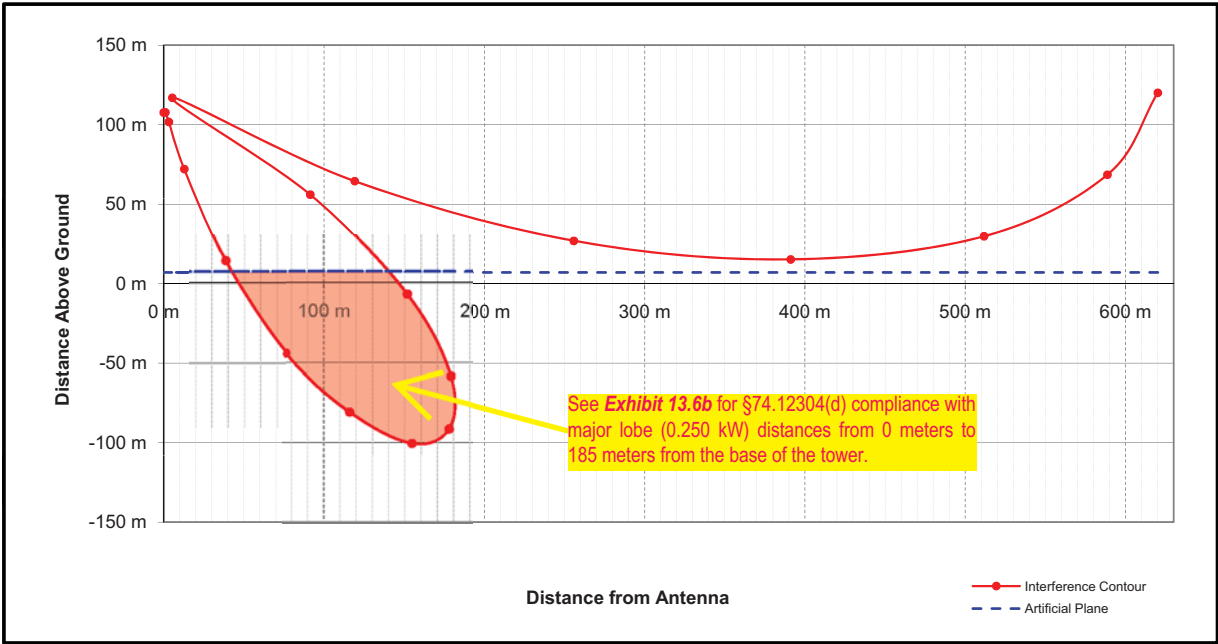


V-Soft Communications LLC ©

Exhibit 13.6a

Full-Field Major Lobes (=0.250 kW) - Radials 000°T-110°T & 220°T-300°T

Portions of the §74.1204(d) protection through the full-field major lobes toward WODS(FM) - Boston, MA CH277B and WKLB-FM - Waltham, MA CH273B have been demonstrated through this second adjacent channel downward radiation study. Full protection will be afforded both facilities from 185 meters to extent of the calculated 105.05 dBu F(50:10) interference contour as this area will not reach the ground nor a 7 meter artificial plane representing a standard two story building when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has been included in *Exhibit 13.7*.



Proposed Antenna: 2-Bay CA2-FM 1.0 Wavelength (Fully) Sapced								
Proposed Power: 0.25 kW								
Antenna Height AGL: 120 meters								
Interference Contour: 105.05 dBu f(50:10)								
Artificial Ground Plane Height: 7 meters								
Distance (Free Space) Equation: =(10^(((106.92-[desired dBu]+[ERP in dBk])/20))*1000								
Field Strength (dBu) Equation "=106.92-(20*(LOG10[DistMeters]/1000)))+[ERP in dBk]								
Depression				Distance				
Angle	Antenna			from Ant.	Distance	Field Strength	Distance	Field Strength
Below	Relative	ERP	ERP	to Interference	from Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.250	-6.02	620.11 m	infinite	---	---	---
-5°	0.953	0.227	-6.44	590.97 m	1296.53 m	98.23 dBu	1376.85 m	97.70 dBu
-10°	0.838	0.176	-7.56	519.65 m	650.74 m	103.10 dBu	691.05 m	102.57 dBu
-15°	0.653	0.107	-9.72	404.93 m	436.60 m	104.40 dBu	463.64 m	103.87 dBu
-20°	0.439	0.048	-13.17	272.23 m	330.39 m	103.37 dBu	350.86 m	102.85 dBu
-25°	0.212	0.011	-19.49	131.46 m	267.38 m	98.88 dBu	283.94 m	98.36 dBu
-30°	0.010	0.000	-46.02	6.20 m	226.00 m	73.82 dBu	240.00 m	73.30 dBu
-35°	0.180	0.008	-20.92	111.62 m	197.01 m	100.12 dBu	209.21 m	99.59 dBu
-40°	0.319	0.025	-15.94	197.82 m	175.80 m	106.07 dBu	186.69 m	105.55 dBu
-45°	0.407	0.041	-13.83	252.39 m	159.81 m	109.02 dBu	169.71 m	108.50 dBu
-50°	0.445	0.050	-13.05	275.95 m	147.51 m	110.49 dBu	156.65 m	109.97 dBu
-55°	0.434	0.047	-13.27	269.13 m	137.95 m	110.85 dBu	146.49 m	110.33 dBu
-60°	0.374	0.035	-14.56	231.92 m	130.48 m	110.05 dBu	138.56 m	109.52 dBu
-65°	0.292	0.021	-16.71	181.07 m	124.68 m	108.29 dBu	132.41 m	107.77 dBu
-70°	0.182	0.008	-20.82	112.86 m	120.25 m	104.50 dBu	127.70 m	103.98 dBu
-75°	0.080	0.002	-27.96	49.61 m	116.99 m	97.60 dBu	124.23 m	97.08 dBu
-80°	0.030	0.000	-36.48	18.60 m	114.74 m	89.25 dBu	121.85 m	88.73 dBu
-85°	0.020	0.000	-40.00	12.40 m	113.43 m	85.83 dBu	120.46 m	85.30 dBu
-90°	0.020	0.000	-40.00	12.40 m	113.00 m	85.86 dBu	120.00 m	85.34 dBu

Exhibit 13.6b

Full-Field Major Lobes (=0.250 kW) - Radials 000°T-110°T & 220°T-300°T

USGS - The National Map

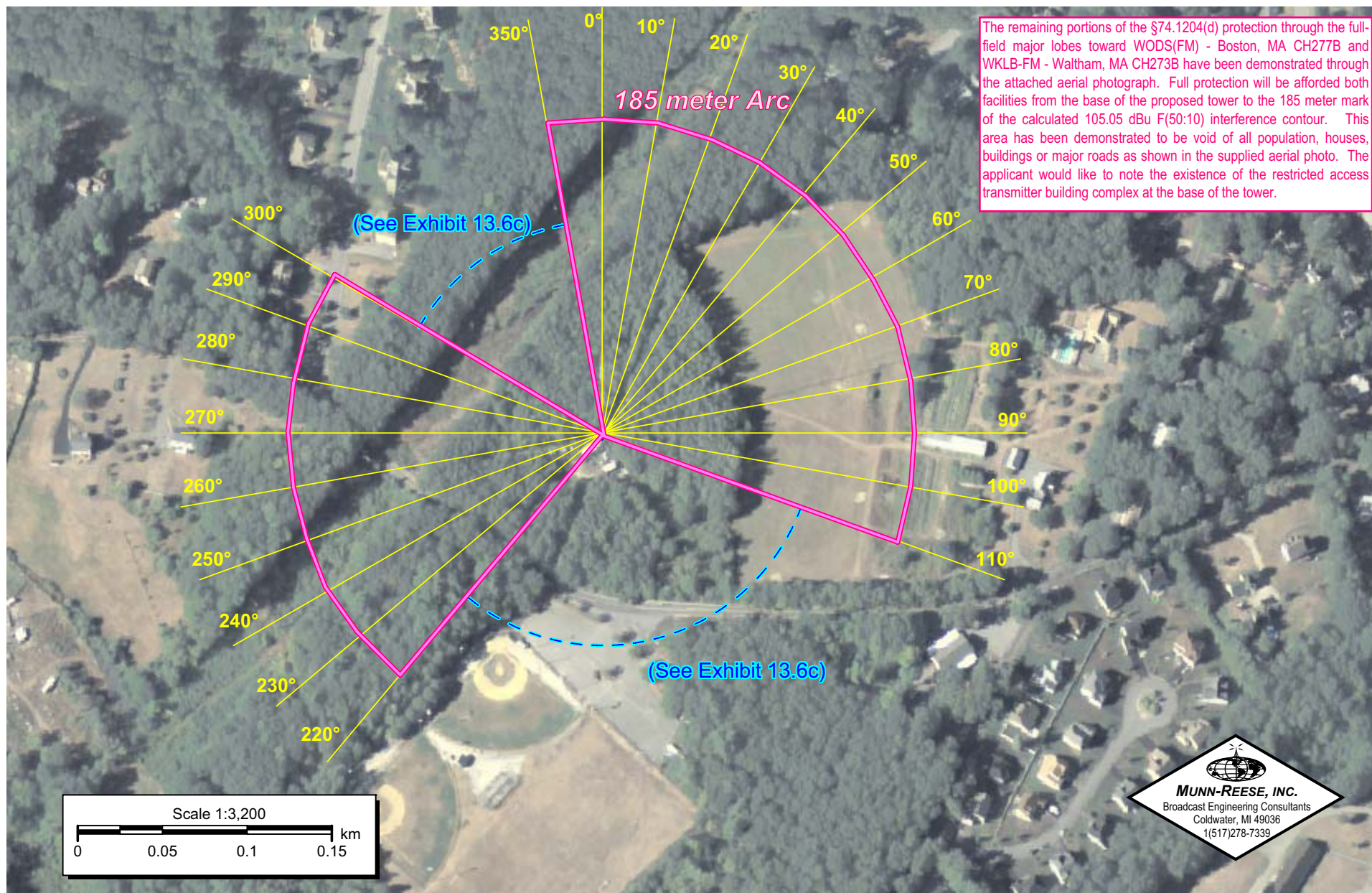
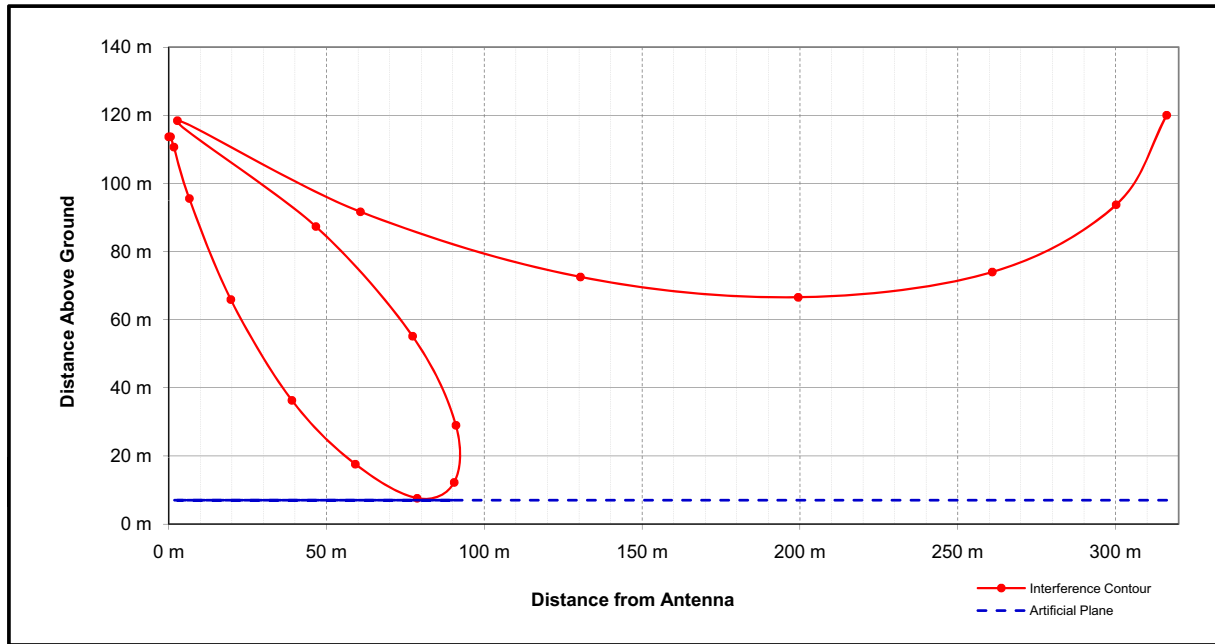


Exhibit 13.6c

Directional Antenna Nulls (< 0.065 kW) - Radials 120°T-210°T & 310°T-350°T

Portions of the §74.1204(d) protection through the directional nulls toward WODS(FM) - Boston, MA CH277B and WKLB-FM - Waltham, MA CH273B have been demonstrated through this second adjacent channel downward radiation study. Full protection will be afforded both facilities as the calculated 105.05 dBu F(50:10) interference contour will not reach the ground nor a 7 meter artificial plane representing a standard two story building when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has been included in [Exhibit 13.7](#).



Proposed Antenna: 2-Bay CA2-FM 1.0 Wavelength (Fully) Sapped								
Proposed Power: 0.065 kW								
Antenna Height AGL: 120 meters								
Interference Contour: 105.05 dBu f(50:10)								
Artificial Ground Plane Height: 7 meters								
Distance (Free Space) Equation: $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBK}]) / 20)) * 1000$								
Field Strength (dBu) Equation: $= 106.92 - (20 * (\text{LOG}_{10}[\text{DistMeters}] / 1000)) + [\text{ERP in dBK}]$								
Depression				Distance				
Angle	Antenna			from Ant.	Distance	Field Strength	Distance	Field Strength
Below	Relative	ERP	ERP	to Interference	from Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBK	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.065	-11.87	316.20 m	infinite	---	---	---
-5°	0.953	0.059	-12.29	301.34 m	1296.53 m	92.38 dBu	1376.85 m	91.85 dBu
-10°	0.838	0.046	-13.41	264.97 m	650.74 m	97.25 dBu	691.05 m	96.72 dBu
-15°	0.653	0.028	-15.57	206.48 m	436.60 m	98.55 dBu	463.64 m	98.02 dBu
-20°	0.439	0.013	-19.02	138.81 m	330.39 m	97.52 dBu	350.86 m	97.00 dBu
-25°	0.212	0.003	-25.34	67.03 m	267.38 m	93.03 dBu	283.94 m	92.51 dBu
-30°	0.010	0.000	-51.87	3.16 m	226.00 m	67.97 dBu	240.00 m	67.44 dBu
-35°	0.180	0.002	-26.77	56.92 m	197.01 m	94.26 dBu	209.21 m	93.74 dBu
-40°	0.319	0.007	-21.80	100.87 m	175.80 m	100.22 dBu	186.69 m	99.70 dBu
-45°	0.407	0.011	-19.68	128.69 m	159.81 m	103.17 dBu	169.71 m	102.65 dBu
-50°	0.445	0.013	-18.90	140.71 m	147.51 m	104.64 dBu	156.65 m	104.12 dBu
-55°	0.434	0.012	-19.12	137.23 m	137.95 m	105.00 dBu	146.49 m	104.48 dBu
-60°	0.374	0.009	-20.41	118.26 m	130.48 m	104.20 dBu	138.56 m	103.67 dBu
-65°	0.292	0.006	-22.56	92.33 m	124.68 m	102.44 dBu	132.41 m	101.92 dBu
-70°	0.182	0.002	-26.67	57.55 m	120.25 m	98.65 dBu	127.70 m	98.13 dBu
-75°	0.080	0.000	-33.81	25.30 m	116.99 m	91.75 dBu	124.23 m	91.23 dBu
-80°	0.030	0.000	-42.33	9.49 m	114.74 m	83.40 dBu	121.85 m	82.87 dBu
-85°	0.020	0.000	-45.85	6.32 m	113.43 m	79.98 dBu	120.46 m	79.45 dBu
-90°	0.020	0.000	-45.85	6.32 m	113.00 m	80.01 dBu	120.00 m	79.49 dBu

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

Directional Antenna Note:
Manufacturer's Directional Antenna Pattern fits
wholly within the Form 349 specified FCC Pattern.

Exhibit 13.7 - Manufacturer's Directional Antenna Data



Antenna: CA2-FM array

Freq: 102.9 MHz

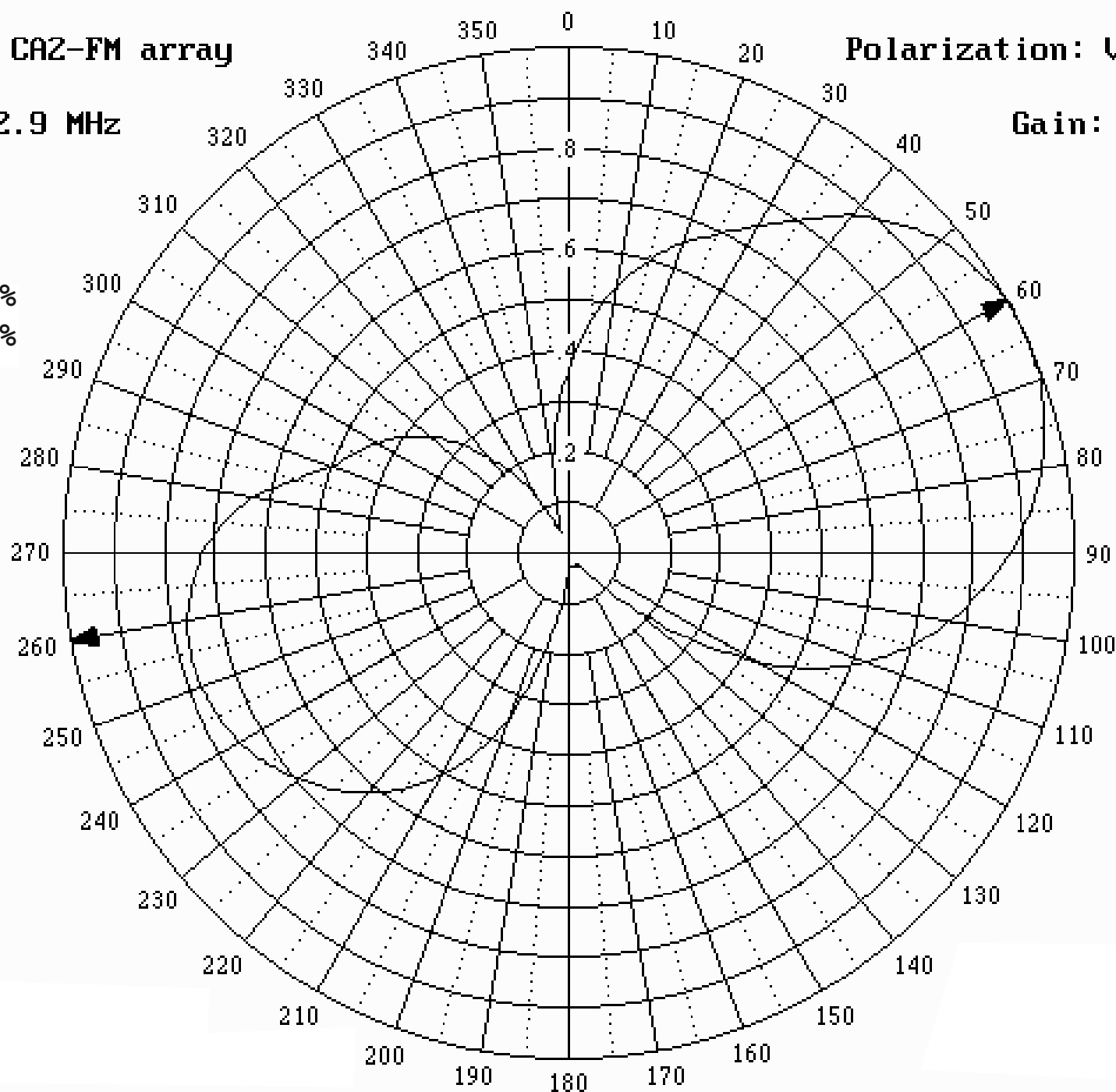
Polarization: Vertical

Gain: 3.2 dBd

Markers

060°@ 70%

260°@ 30%



Directional Antenna Note:
 Manufacturer's Directional Antenna Pattern fits
 wholly within the Form 349 specified FCC Pattern.

Exhibit 13.7 - Manufacturer's Directional Antenna Data



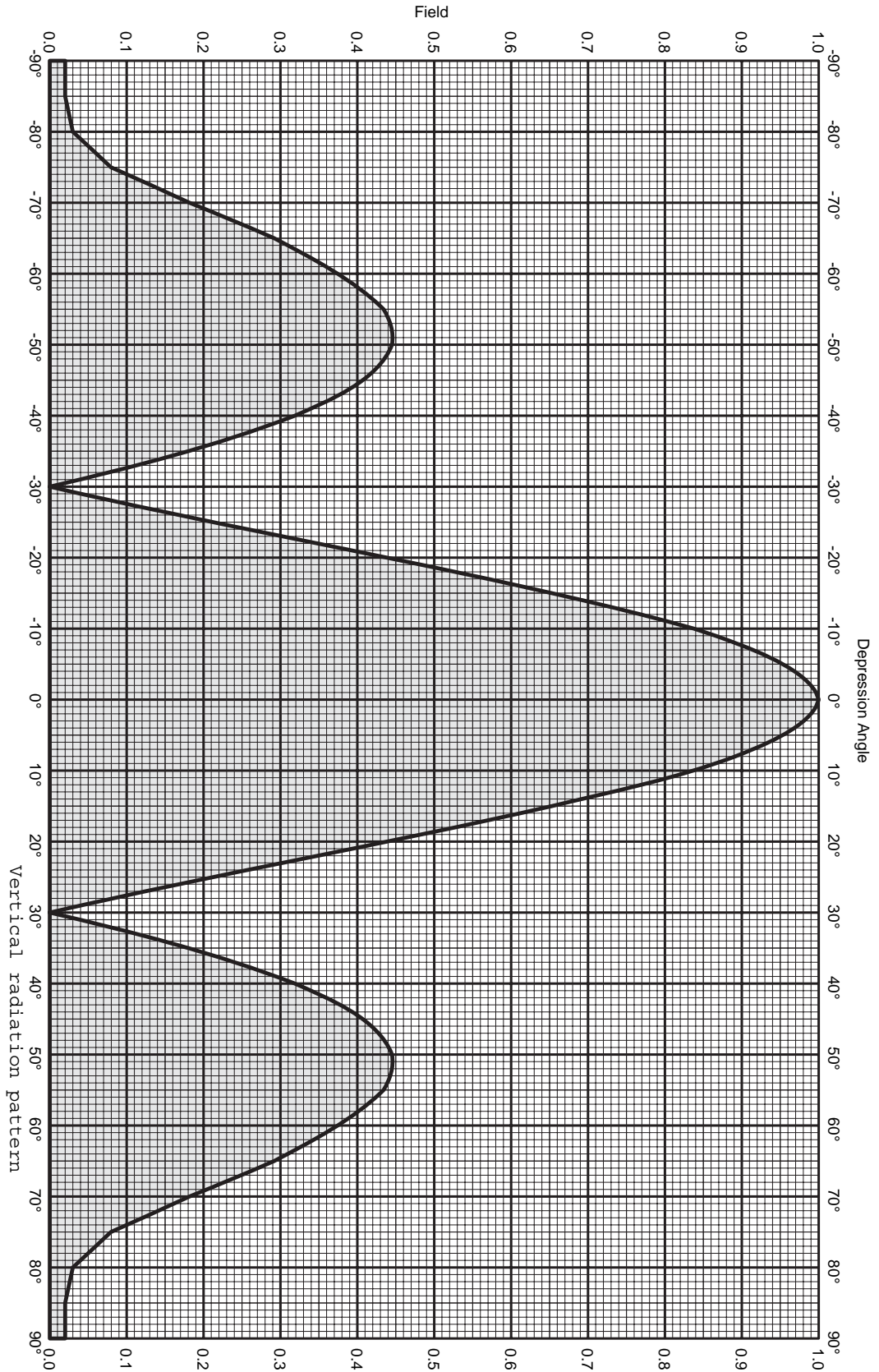
Antenna: CA2-FM array

Frequency: 102.9 MHz

Polarization: Vertical

Azimuth	Field	Rel.dB	dBd	Pwr Gain
0	0.368	-8.7	-5.6	0.275
10	0.533	-5.5	-2.3	0.589
20	0.650	-3.7	-0.6	0.871
30	0.744	-2.6	0.6	1.148
40	0.873	-1.2	1.9	1.549
50	0.963	-0.3	2.8	1.905
60	1.000	-0.0	3.1	2.042
70	0.994	-0.1	3.1	2.042
80	0.950	-0.4	2.7	1.862
90	0.872	-1.2	1.9	1.549
100	0.770	-2.3	0.8	1.202
110	0.632	-4.0	-0.9	0.813
120	0.427	-7.4	-4.3	0.372
130	0.175	-15.1	-12.0	0.063
140	0.037	-28.5	-25.4	0.003
150	0.029	-30.8	-27.7	0.002
160	0.029	-30.8	-27.7	0.002
170	0.029	-30.8	-27.7	0.002
180	0.034	-29.3	-26.1	0.002
190	0.127	-17.9	-14.8	0.033
200	0.342	-9.3	-6.2	0.240
210	0.511	-5.8	-2.7	0.537
220	0.618	-4.2	-1.1	0.776
230	0.695	-3.2	0.0	1.000
240	0.751	-2.5	0.6	1.148
250	0.775	-2.2	0.9	1.230
260	0.769	-2.3	0.8	1.202
270	0.727	-2.8	0.4	1.096
280	0.634	-4.0	-0.8	0.832
290	0.500	-6.0	-2.9	0.513
300	0.436	-7.2	-4.1	0.389
310	0.359	-8.9	-5.8	0.263
320	0.251	-12.0	-8.9	0.129
330	0.123	-18.2	-15.1	0.031
340	0.043	-27.3	-24.2	0.004
350	0.172	-15.3	-12.2	0.060

Exhibit 13.7 - Manufacturer's Directional Antenna Data



KATHREIN
SCALA DIVISION
 Post Office Box 4580
 Medford, OR 97501 (USA)
 Phone: (541) 779-6500
 Fax: (541) 779-3991
<http://www.kathrein-scala.com>

Two CA2-FM dipole/reflector antennas
 Oriented at horizon
 Vertical stack @ 1.0 wavelength

Exhibit 13.7 - Manufacturer's Directional Antenna Data



Vertical radiation pattern

Two CA2-FM dipole/reflector antennas

Oriented at horizon

Vertical stack @ 1.0 wavelength

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.020	-33.98	-33.98	0.00	-45	0.407	-7.80	-7.80	0.17
-89	0.020	-33.98	-33.98	0.00	-44	0.393	-8.11	-8.11	0.15
-88	0.020	-33.98	-33.98	0.00	-43	0.377	-8.46	-8.46	0.14
-87	0.020	-33.98	-33.98	0.00	-42	0.360	-8.88	-8.88	0.13
-86	0.020	-33.98	-33.98	0.00	-41	0.340	-9.37	-9.37	0.12
-85	0.020	-33.98	-33.98	0.00	-40	0.319	-9.93	-9.93	0.10
-84	0.022	-33.15	-33.15	0.00	-39	0.294	-10.62	-10.62	0.09
-83	0.024	-32.40	-32.40	0.00	-38	0.268	-11.43	-11.43	0.07
-82	0.026	-31.70	-31.70	0.00	-37	0.241	-12.38	-12.38	0.06
-81	0.028	-31.06	-31.06	0.00	-36	0.211	-13.51	-13.51	0.04
-80	0.030	-30.47	-30.47	0.00	-35	0.180	-14.90	-14.90	0.03
-79	0.040	-27.97	-27.97	0.00	-34	0.147	-16.65	-16.65	0.02
-78	0.050	-26.04	-26.04	0.00	-33	0.113	-18.96	-18.96	0.01
-77	0.060	-24.47	-24.47	0.00	-32	0.077	-22.30	-22.30	0.01
-76	0.070	-23.14	-23.14	0.00	-31	0.039	-28.15	-28.15	0.00
-75	0.080	-21.99	-21.99	0.01	-30	0.010	-40.00	-40.00	0.00
-74	0.100	-19.98	-19.98	0.01	-29	0.041	-27.85	-27.85	0.00
-73	0.121	-18.36	-18.36	0.01	-28	0.082	-21.71	-21.71	0.01
-72	0.141	-17.00	-17.00	0.02	-27	0.125	-18.08	-18.08	0.02
-71	0.162	-15.83	-15.83	0.03	-26	0.168	-15.48	-15.48	0.03
-70	0.182	-14.81	-14.81	0.03	-25	0.212	-13.45	-13.45	0.05
-69	0.204	-13.79	-13.79	0.04	-24	0.257	-11.79	-11.79	0.07
-68	0.227	-12.88	-12.88	0.05	-23	0.302	-10.39	-10.39	0.09
-67	0.249	-12.08	-12.08	0.06	-22	0.348	-9.17	-9.17	0.12
-66	0.271	-11.35	-11.35	0.07	-21	0.394	-8.10	-8.10	0.15
-65	0.292	-10.70	-10.70	0.09	-20	0.439	-7.14	-7.14	0.19
-64	0.310	-10.18	-10.18	0.10	-19	0.483	-6.31	-6.31	0.23
-63	0.327	-9.71	-9.71	0.11	-18	0.527	-5.56	-5.56	0.28
-62	0.343	-9.28	-9.28	0.12	-17	0.570	-4.88	-4.88	0.32
-61	0.359	-8.89	-8.89	0.13	-16	0.612	-4.27	-4.27	0.37
-60	0.374	-8.54	-8.54	0.14	-15	0.653	-3.70	-3.70	0.43
-59	0.388	-8.22	-8.22	0.15	-14	0.693	-3.19	-3.19	0.48
-58	0.401	-7.93	-7.93	0.16	-13	0.732	-2.71	-2.71	0.54
-57	0.414	-7.67	-7.67	0.17	-12	0.769	-2.28	-2.28	0.59
-56	0.424	-7.44	-7.44	0.18	-11	0.804	-1.89	-1.89	0.65
-55	0.434	-7.25	-7.25	0.19	-10	0.838	-1.54	-1.54	0.70
-54	0.439	-7.15	-7.15	0.19	-9	0.866	-1.25	-1.25	0.75
-53	0.443	-7.08	-7.08	0.20	-8	0.891	-1.00	-1.00	0.79
-52	0.445	-7.03	-7.03	0.20	-7	0.915	-0.78	-0.78	0.84
-51	0.446	-7.02	-7.02	0.20	-6	0.935	-0.58	-0.58	0.87
-50	0.445	-7.03	-7.03	0.20	-5	0.953	-0.42	-0.42	0.91
-49	0.441	-7.11	-7.11	0.19	-4	0.968	-0.28	-0.28	0.94
-48	0.435	-7.23	-7.23	0.19	-3	0.981	-0.17	-0.17	0.96
-47	0.428	-7.38	-7.38	0.18	-2	0.990	-0.09	-0.09	0.98
-46	0.418	-7.57	-7.57	0.18	-1	0.996	-0.03	-0.03	0.99
					0	1.000	0.00	0.00	1.00

Exhibit 13.7 - Manufacturer's Directional Antenna Data



Vertical radiation pattern

Two CA2-FM dipole/reflector antennas

Oriented at horizon

Vertical stack @ 1.0 wavelength

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	0.00	1.00	45	0.407	-7.80	-7.80	0.17
1	0.997	-0.03	-0.03	0.99	46	0.418	-7.57	-7.57	0.18
2	0.990	-0.09	-0.09	0.98	47	0.428	-7.38	-7.38	0.18
3	0.981	-0.17	-0.17	0.96	48	0.435	-7.23	-7.23	0.19
4	0.968	-0.28	-0.28	0.94	49	0.441	-7.11	-7.11	0.19
5	0.953	-0.42	-0.42	0.91	50	0.445	-7.03	-7.03	0.20
6	0.935	-0.58	-0.58	0.87	51	0.446	-7.02	-7.02	0.20
7	0.915	-0.78	-0.78	0.84	52	0.445	-7.03	-7.03	0.20
8	0.891	-1.00	-1.00	0.79	53	0.443	-7.08	-7.08	0.20
9	0.866	-1.25	-1.25	0.75	54	0.439	-7.15	-7.15	0.19
10	0.838	-1.54	-1.54	0.70	55	0.434	-7.25	-7.25	0.19
11	0.804	-1.89	-1.89	0.65	56	0.424	-7.44	-7.44	0.18
12	0.769	-2.28	-2.28	0.59	57	0.414	-7.67	-7.67	0.17
13	0.732	-2.71	-2.71	0.54	58	0.401	-7.93	-7.93	0.16
14	0.693	-3.19	-3.19	0.48	59	0.388	-8.22	-8.22	0.15
15	0.653	-3.70	-3.70	0.43	60	0.374	-8.54	-8.54	0.14
16	0.612	-4.27	-4.27	0.37	61	0.359	-8.89	-8.89	0.13
17	0.570	-4.88	-4.88	0.32	62	0.343	-9.28	-9.28	0.12
18	0.527	-5.56	-5.56	0.28	63	0.327	-9.71	-9.71	0.11
19	0.483	-6.31	-6.31	0.23	64	0.310	-10.18	-10.18	0.10
20	0.439	-7.14	-7.14	0.19	65	0.292	-10.70	-10.70	0.09
21	0.394	-8.10	-8.10	0.15	66	0.271	-11.35	-11.35	0.07
22	0.348	-9.17	-9.17	0.12	67	0.249	-12.08	-12.08	0.06
23	0.302	-10.39	-10.39	0.09	68	0.227	-12.88	-12.88	0.05
24	0.257	-11.79	-11.79	0.07	69	0.204	-13.79	-13.79	0.04
25	0.212	-13.45	-13.45	0.05	70	0.182	-14.81	-14.81	0.03
26	0.168	-15.48	-15.48	0.03	71	0.162	-15.83	-15.83	0.03
27	0.125	-18.08	-18.08	0.02	72	0.141	-17.00	-17.00	0.02
28	0.082	-21.71	-21.71	0.01	73	0.121	-18.36	-18.36	0.01
29	0.041	-27.85	-27.85	0.00	74	0.100	-19.98	-19.98	0.01
30	0.010	-40.00	-40.00	0.00	75	0.080	-21.99	-21.99	0.01
31	0.039	-28.15	-28.15	0.00	76	0.070	-23.14	-23.14	0.00
32	0.077	-22.30	-22.30	0.01	77	0.060	-24.47	-24.47	0.00
33	0.113	-18.96	-18.96	0.01	78	0.050	-26.04	-26.04	0.00
34	0.147	-16.65	-16.65	0.02	79	0.040	-27.97	-27.97	0.00
35	0.180	-14.90	-14.90	0.03	80	0.030	-30.47	-30.47	0.00
36	0.211	-13.51	-13.51	0.04	81	0.028	-31.06	-31.06	0.00
37	0.240	-12.38	-12.38	0.06	82	0.026	-31.70	-31.70	0.00
38	0.268	-11.43	-11.43	0.07	83	0.024	-32.40	-32.40	0.00
39	0.294	-10.62	-10.62	0.09	84	0.022	-33.15	-33.15	0.00
40	0.319	-9.93	-9.93	0.10	85	0.020	-33.98	-33.98	0.00
41	0.340	-9.37	-9.37	0.12	86	0.020	-33.98	-33.98	0.00
42	0.360	-8.88	-8.88	0.13	87	0.020	-33.98	-33.98	0.00
43	0.377	-8.46	-8.46	0.14	88	0.020	-33.98	-33.98	0.00
44	0.393	-8.11	-8.11	0.15	89	0.020	-33.98	-33.98	0.00
					90	0.020	-33.98	-33.98	0.00

Exhibit 13.8

Contour Protection Studies Toward WLLO-LP - Londonderry, NH

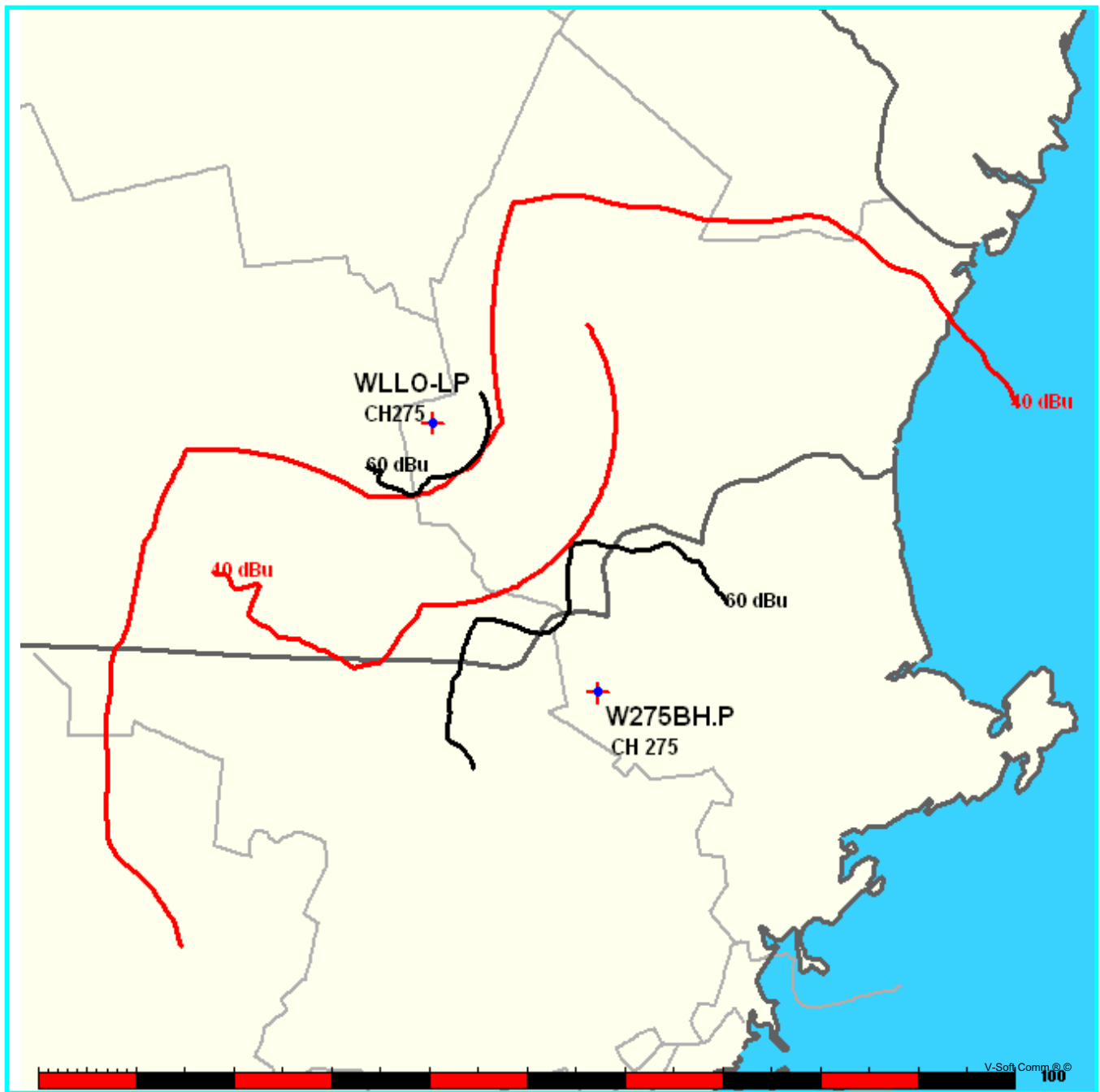
Costa-eagle Radio Ventures Limited Partnership

FMCommander Single Allocation Study - 06-28-2011 - USGS 03 SEC

W275BH.P's Overlaps (In= 5.64 km, Out= 0.08 km)

W275BH.P CH 275 D DA
Lat= 42 40 26.0, Lng= 71 11 26.0
0.25 kW 139 M HAAT, 181 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WLLO-LP CH 275 L1 BLL20091228ADQ
Lat= 42 55 08.0, Lng= 71 23 53.0
0.1 kW 28.25948 M HAAT, 119 M COR
Prot.= 60 dBu, Intef.= 40 dBu



Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.8

Contour Protection Studies Toward WLLO-LP - Londonderry, NH

06-28-2011

Terrain Data: USGS 03 SEC

FMOver Analysis

W275BH.P

WLLO-LP BLL20091228ADQ

Channel = 275D

Max ERP = 0.25 kW

RCAMSL = 181 M

N. Lat. 42 40 26.0

W. Lng. 71 11 26.0

Protected

60 dBu

Channel = 275L1

Max ERP = 0.1 kW

RCAMSL = 119 M

N. Lat. 42 55 08.0

W. Lng. 71 23 53.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
285.0	000.2500	0126.7	014.4	172.7	000.1000	0023.1	023.7	36.07	
286.0	000.2500	0127.1	014.5	172.5	000.1000	0023.1	023.4	36.24	
287.0	000.2500	0128.0	014.5	172.4	000.1000	0023.1	023.2	36.42	
288.0	000.2500	0128.5	014.6	172.2	000.1000	0022.9	023.0	36.60	
289.0	000.2500	0126.6	014.4	171.6	000.1000	0022.7	022.8	36.73	
290.0	000.2500	0125.1	014.4	171.2	000.1000	0022.5	022.6	36.86	
291.0	000.2500	0126.6	014.4	171.0	000.1000	0022.6	022.3	37.05	
292.0	000.2500	0127.3	014.5	170.8	000.1000	0022.9	022.1	37.23	
293.0	000.2500	0126.8	014.5	170.4	000.1000	0023.6	021.9	37.38	
294.0	000.2500	0128.0	014.5	170.2	000.1000	0024.2	021.6	37.57	
295.0	000.2500	0127.6	014.5	169.7	000.1000	0025.8	021.4	37.72	
296.0	000.2500	0127.1	014.5	169.3	000.1000	0027.4	021.3	37.87	
297.0	000.2500	0126.7	014.5	168.8	000.1000	0028.8	021.1	38.01	
298.0	000.2500	0125.8	014.4	168.3	000.1000	0029.5	020.9	38.14	
299.0	000.2500	0127.3	014.5	168.0	000.1000	0029.6	020.7	38.33	
300.0	000.2500	0128.0	014.5	167.6	000.1000	0029.8	020.4	38.50	
301.0	000.2190	0128.9	014.1	166.3	000.1000	0030.3	020.6	38.49	
302.0	000.1900	0130.6	013.7	165.0	000.1000	0030.2	020.7	38.36	
303.0	000.1631	0133.5	013.3	163.8	000.1000	0028.1	020.8	38.22	
304.0	000.1382	0135.5	012.9	162.6	000.1000	0026.7	021.0	38.07	
305.0	000.1154	0137.6	012.4	161.4	000.1000	0026.0	021.2	37.90	
306.0	000.0947	0139.1	011.9	160.1	000.1000	0027.0	021.5	37.67	
307.0	000.0760	0139.3	011.3	158.8	000.1000	0026.6	021.9	37.37	
308.0	000.0593	0139.7	010.7	157.5	000.1000	0025.2	022.4	37.04	
309.0	000.0448	0140.9	010.0	156.3	000.1000	0025.7	022.9	36.67	
310.0	000.0322	0139.7	009.2	155.1	000.1000	0027.3	023.5	36.19	
311.0	000.0310	0137.3	009.0	154.5	000.1000	0028.4	023.6	36.13	
312.0	000.0298	0134.1	008.8	154.0	000.1000	0029.2	023.7	36.04	
313.0	000.0286	0131.6	008.6	153.5	000.1000	0030.1	023.8	36.00	
314.0	000.0275	0129.1	008.5	153.0	000.1000	0030.8	023.9	36.08	
315.0	000.0263	0126.8	008.3	152.6	000.1000	0030.6	024.1	35.95	
316.0	000.0252	0126.3	008.2	152.2	000.1000	0030.1	024.1	35.80	
317.0	000.0241	0126.7	008.1	151.8	000.1000	0029.6	024.2	35.74	
318.0	000.0231	0126.5	008.0	151.4	000.1000	0028.7	024.2	35.69	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.8**Contour Protection Studies Toward WLLO-LP - Londonderry, NH**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
319.0	000.0220	0125.8	007.9	151.0	000.1000	0027.5	024.3	35.64
320.0	000.0210	0126.9	007.8	150.7	000.1000	0026.6	024.3	35.62
321.0	000.0209	0128.5	007.9	150.4	000.1000	0025.9	024.3	35.66
322.0	000.0207	0127.5	007.8	150.0	000.1000	0024.8	024.3	35.65
323.0	000.0206	0126.6	007.8	149.7	000.1000	0023.7	024.3	35.63
324.0	000.0204	0126.9	007.8	149.4	000.1000	0022.7	024.3	35.64
325.0	000.0203	0128.2	007.8	149.1	000.1000	0021.9	024.3	35.66
326.0	000.0202	0129.6	007.8	148.8	000.1000	0021.2	024.2	35.69
327.0	000.0200	0130.6	007.9	148.4	000.1000	0020.6	024.2	35.70
328.0	000.0199	0130.9	007.9	148.1	000.1000	0019.9	024.2	35.70
329.0	000.0197	0130.8	007.8	147.8	000.1000	0019.6	024.2	35.69
330.0	000.0196	0129.5	007.8	147.5	000.1000	0019.3	024.3	35.65
331.0	000.0204	0128.3	007.8	147.2	000.1000	0019.3	024.2	35.68
332.0	000.0213	0127.5	007.9	146.8	000.1000	0019.2	024.2	35.71
333.0	000.0222	0127.9	008.0	146.5	000.1000	0018.9	024.1	35.76
334.0	000.0231	0128.9	008.1	146.1	000.1000	0018.7	024.0	35.83
335.0	000.0240	0128.1	008.2	145.7	000.1000	0018.6	024.0	35.86
336.0	000.0250	0128.3	008.2	145.4	000.1000	0018.3	023.9	35.90
337.0	000.0259	0130.2	008.4	145.0	000.1000	0018.1	023.8	35.98
338.0	000.0269	0131.1	008.5	144.6	000.1000	0017.9	023.7	36.03
339.0	000.0279	0131.0	008.6	144.2	000.1000	0017.6	023.7	36.06
340.0	000.0289	0131.6	008.7	143.8	000.1000	0017.1	023.7	36.09
341.0	000.0412	0131.8	009.5	142.8	000.1000	0015.6	022.9	36.62
342.0	000.0557	0132.9	010.2	141.7	000.1000	0013.7	022.3	37.11
343.0	000.0724	0134.8	011.0	140.6	000.1000	0011.4	021.6	37.59
344.0	000.0912	0135.8	011.7	139.4	000.1000	0010.4	021.1	38.00
345.0	000.1122	0136.2	012.3	138.1	000.1000	0010.2	020.6	38.36
346.0	000.1354	0136.5	012.9	136.8	000.1000	0012.2	020.2	38.69
347.0	000.1608	0137.6	013.5	135.4	000.1000	0018.7	019.8	39.02
348.0	000.1884	0137.9	014.0	133.9	000.1000	0022.4	019.4	39.30
349.0	000.2181	0138.4	014.6	132.3	000.1000	0020.7	019.1	39.56
350.0	000.2500	0138.5	015.2	130.7	000.1000	0021.0	018.8	39.78
351.0	000.2500	0137.6	015.1	130.2	000.1000	0020.5	019.1	39.60
352.0	000.2500	0137.9	015.1	129.5	000.1000	0018.9	019.2	39.48
353.0	000.2500	0138.4	015.2	128.9	000.1000	0016.6	019.4	39.35
354.0	000.2500	0138.8	015.2	128.3	000.1000	0015.0	019.5	39.21
355.0	000.2500	0138.8	015.2	127.8	000.1000	0013.9	019.7	39.06
356.0	000.2500	0138.4	015.2	127.3	000.1000	0013.3	020.0	38.89
357.0	000.2500	0138.7	015.2	126.8	000.1000	0012.6	020.1	38.74
358.0	000.2500	0138.5	015.2	126.3	000.1000	0011.9	020.4	38.57
359.0	000.2500	0136.7	015.1	126.1	000.1000	0011.7	020.6	38.36
000.0	000.2500	0134.8	014.9	126.0	000.1000	0011.6	020.9	38.14
001.0	000.2500	0132.7	014.8	125.8	000.1000	0011.5	021.2	37.92
002.0	000.2500	0131.8	014.8	125.5	000.1000	0011.2	021.4	37.73
003.0	000.2500	0131.0	014.7	125.3	000.1000	0011.1	021.7	37.55
004.0	000.2500	0130.2	014.7	125.0	000.1000	0011.2	021.9	37.36
005.0	000.2500	0130.4	014.7	124.7	000.1000	0011.2	022.1	37.20

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.8

Contour Protection Studies Toward WLLQ-LP - Londonderry, NH

06-28-2011

Terrain Data: USGS 03 SEC

FMOver Analysis

WLLQ-LP BLL20091228ADQ

W275BH.P

Channel = 275L1

Max ERP = 0.1 kW

RCAMSL = 119 M

N. Lat. 42 55 08.0

W. Lng. 71 23 53.0

Protected

60 dBu

Channel = 275D

Max ERP = 0.25 kW

RCAMSL = 181 M

N. Lat. 42 40 26.0

W. Lng. 71 11 26.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
105.0	000.1000	0010.3	005.6	336.0	000.0250	0128.3	028.2	39.61	
106.0	000.1000	0008.5	005.6	335.9	000.0248	0128.2	028.2	39.63	
107.0	000.1000	0006.9	005.6	335.7	000.0247	0128.1	028.1	39.65	
108.0	000.1000	0007.2	005.6	335.6	000.0246	0128.1	028.0	39.67	
109.0	000.1000	0009.0	005.6	335.5	000.0245	0128.0	027.9	39.69	
110.0	000.1000	0012.0	005.6	335.3	000.0243	0128.0	027.9	39.71	
111.0	000.1000	0014.0	005.6	335.2	000.0242	0128.0	027.8	39.73	
112.0	000.1000	0014.0	005.6	335.0	000.0241	0128.1	027.7	39.75	
113.0	000.1000	0014.8	005.6	334.9	000.0239	0128.2	027.7	39.78	
114.0	000.1000	0015.4	005.6	334.7	000.0238	0128.3	027.6	39.80	
115.0	000.1000	0016.9	005.6	334.6	000.0236	0128.5	027.5	39.83	
116.0	000.1000	0017.7	005.6	334.4	000.0235	0128.7	027.5	39.85	
117.0	000.1000	0018.9	005.6	334.3	000.0233	0128.9	027.4	39.88	
118.0	000.1000	0017.6	005.6	334.1	000.0232	0128.9	027.3	39.89	
119.0	000.1000	0016.6	005.6	333.9	000.0230	0128.8	027.3	39.89	
120.0	000.1000	0015.7	005.6	333.8	000.0229	0128.6	027.2	39.89	
121.0	000.1000	0014.2	005.6	333.6	000.0227	0128.5	027.2	39.88	
122.0	000.1000	0012.6	005.6	333.4	000.0226	0128.3	027.1	39.87	
123.0	000.1000	0011.7	005.6	333.2	000.0224	0128.1	027.1	39.86	
124.0	000.1000	0012.3	005.6	333.0	000.0222	0127.9	027.0	39.85	
125.0	000.1000	0011.2	005.6	332.9	000.0221	0127.8	027.0	39.84	
126.0	000.1000	0011.6	005.6	332.7	000.0219	0127.7	026.9	39.83	
127.0	000.1000	0012.9	005.6	332.5	000.0217	0127.6	026.9	39.82	
128.0	000.1000	0014.3	005.6	332.3	000.0216	0127.6	026.9	39.81	
129.0	000.1000	0016.9	005.6	332.1	000.0214	0127.5	026.8	39.80	
130.0	000.1000	0020.2	005.6	331.9	000.0212	0127.5	026.8	39.79	
131.0	000.1000	0021.1	005.6	331.7	000.0211	0127.6	026.7	39.78	
132.0	000.1000	0020.6	005.6	331.5	000.0209	0127.7	026.7	39.78	
133.0	000.1000	0021.8	005.6	331.3	000.0207	0127.9	026.7	39.78	
134.0	000.1000	0022.4	005.6	331.1	000.0206	0128.1	026.6	39.77	
135.0	000.1000	0020.3	005.6	330.9	000.0204	0128.4	026.6	39.77	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.8

Contour Protection Studies Toward WLLO-LP - Londonderry, NH

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
136.0	000.1000	0015.8	005.6	330.7	000.0202	0128.5	026.6	39.76
137.0	000.1000	0011.8	005.6	330.5	000.0200	0128.7	026.6	39.75
138.0	000.1000	0010.4	005.6	330.3	000.0199	0129.0	026.5	39.75
139.0	000.1000	0010.1	005.6	330.1	000.0197	0129.3	026.5	39.74
140.0	000.1000	0010.5	005.6	329.9	000.0196	0129.7	026.5	39.77
141.0	000.1000	0012.3	005.6	329.7	000.0196	0130.0	026.5	39.80
142.0	000.1000	0014.1	005.6	329.5	000.0197	0130.4	026.5	39.84
143.0	000.1000	0016.0	005.6	329.3	000.0197	0130.6	026.5	39.87
144.0	000.1000	0017.4	005.6	329.0	000.0197	0130.8	026.5	39.90
145.0	000.1000	0018.1	005.6	328.8	000.0198	0130.9	026.4	39.92
146.0	000.1000	0018.7	005.6	328.6	000.0198	0131.0	026.4	39.93
147.0	000.1000	0019.3	005.6	328.4	000.0198	0130.9	026.4	39.94
148.0	000.1000	0019.8	005.6	328.2	000.0199	0130.9	026.4	39.94
149.0	000.1000	0021.7	005.6	328.0	000.0199	0130.9	026.4	39.95
150.0	000.1000	0024.6	005.6	327.8	000.0199	0130.9	026.4	39.95
151.0	000.1000	0027.4	005.6	327.6	000.0199	0130.8	026.4	39.95
152.0	000.1000	0030.0	005.6	327.3	000.0200	0130.7	026.5	39.95
153.0	000.1000	0030.8	005.7	327.1	000.0200	0130.6	026.4	39.99
154.0	000.1000	0029.2	005.6	326.9	000.0200	0130.5	026.5	39.93
155.0	000.1000	0027.4	005.6	326.7	000.0201	0130.3	026.5	39.92
156.0	000.1000	0026.2	005.6	326.5	000.0201	0130.1	026.5	39.90
157.0	000.1000	0024.9	005.6	326.3	000.0201	0129.9	026.5	39.88
158.0	000.1000	0025.6	005.6	326.1	000.0202	0129.7	026.5	39.86
159.0	000.1000	0026.8	005.6	325.9	000.0202	0129.4	026.6	39.83
160.0	000.1000	0027.1	005.6	325.7	000.0202	0129.1	026.6	39.81
161.0	000.1000	0026.1	005.6	325.5	000.0202	0128.8	026.6	39.78
162.0	000.1000	0026.2	005.6	325.3	000.0203	0128.6	026.6	39.75
163.0	000.1000	0026.9	005.6	325.1	000.0203	0128.3	026.7	39.71
164.0	000.1000	0028.3	005.6	324.9	000.0203	0127.9	026.7	39.68
165.0	000.1000	0030.2	005.7	324.7	000.0204	0127.4	026.7	39.64
166.0	000.1000	0030.2	005.7	324.5	000.0204	0127.3	026.7	39.62
167.0	000.1000	0030.1	005.6	324.3	000.0204	0127.1	026.8	39.58
168.0	000.1000	0029.6	005.6	324.1	000.0204	0127.0	026.8	39.54
169.0	000.1000	0028.3	005.6	323.9	000.0205	0126.9	026.9	39.51
170.0	000.1000	0024.8	005.6	323.7	000.0205	0126.8	026.9	39.49
171.0	000.1000	0022.6	005.6	323.5	000.0205	0126.8	027.0	39.46
172.0	000.1000	0022.8	005.6	323.3	000.0205	0126.7	027.0	39.43
173.0	000.1000	0023.2	005.6	323.2	000.0206	0126.6	027.1	39.40
174.0	000.1000	0024.1	005.6	323.0	000.0206	0126.6	027.1	39.37
175.0	000.1000	0024.8	005.6	322.8	000.0206	0126.7	027.2	39.35
176.0	000.1000	0023.5	005.6	322.6	000.0206	0126.7	027.2	39.32
177.0	000.1000	0022.8	005.6	322.5	000.0207	0126.8	027.3	39.30
178.0	000.1000	0020.4	005.6	322.3	000.0207	0127.0	027.3	39.28
179.0	000.1000	0019.8	005.6	322.1	000.0207	0127.3	027.4	39.27
180.0	000.1000	0021.1	005.6	322.0	000.0207	0127.6	027.4	39.26

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.9

Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317JRJ)

Costa-eagle Radio Ventures Limited Partnership

FMCommander Single Allocation Study - 06-28-2011 - USGS 03 SEC

W275BH.P's Overlaps (In= 0.27 km, Out= 3.65 km)

W275BH.P CH 275 D DA

Lat= 42 40 26.0, Lng= 71 11 26.0

0.25 kW 139 M HAAT, 181 M COR

Prot.= 60 dBu, Intef.= 40 dBu

637656 CH 275 D BNPFT20030317JRJ

Lat= 42 20 57.0, Lng= 71 04 31.0

0.01 kW 239.8 M HAAT, 257 M COR

Prot.= 60 dBu, Intef.= 40 dBu



Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.9**Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317JRJ)**

06-28-2011

Terrain Data: USGS 03 SEC

FMOver Analysis

W275BH.P

637656 BNPFT20030317JRJ

Channel = 275D

Max ERP = 0.25 kW

RCAMSL = 181 M

N. Lat. 42 40 26.0

W. Lng. 71 11 26.0

Protected

60 dBu

Channel = 275D

Max ERP = 0.01 kW

RCAMSL = 257 M

N. Lat. 42 20 57.0

W. Lng. 71 04 31.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
120.0	000.0600	0131.9	010.4	359.1	000.0100	0240.0	030.9	39.55	
121.0	000.0584	0131.8	010.3	358.8	000.0100	0239.3	030.8	39.59	
122.0	000.0568	0131.2	010.2	358.5	000.0100	0238.8	030.7	39.62	
123.0	000.0553	0131.9	010.2	358.3	000.0100	0238.4	030.6	39.68	
124.0	000.0537	0131.9	010.1	358.0	000.0100	0237.9	030.5	39.72	
125.0	000.0522	0132.2	010.1	357.7	000.0100	0237.2	030.4	39.76	
126.0	000.0507	0132.4	010.0	357.4	000.0100	0236.2	030.3	39.78	
127.0	000.0492	0132.1	009.9	357.0	000.0100	0235.0	030.2	39.78	
128.0	000.0478	0131.9	009.8	356.7	000.0100	0233.8	030.1	39.78	
129.0	000.0464	0131.3	009.7	356.4	000.0100	0232.6	030.0	39.78	
130.0	000.0449	0132.1	009.7	356.1	000.0100	0231.9	029.9	39.81	
131.0	000.0423	0134.1	009.6	355.8	000.0100	0231.3	029.9	39.82	
132.0	000.0397	0136.0	009.5	355.4	000.0100	0230.7	029.8	39.84	
133.0	000.0372	0138.2	009.5	355.1	000.0100	0230.2	029.7	39.86	
134.0	000.0348	0140.0	009.4	354.7	000.0100	0230.1	029.7	39.87	
135.0	000.0325	0141.6	009.3	354.4	000.0100	0229.5	029.7	39.87	
136.0	000.0302	0143.5	009.2	354.0	000.0100	0229.0	029.7	39.86	
137.0	000.0281	0144.9	009.1	353.6	000.0100	0228.5	029.7	39.84	
138.0	000.0260	0146.5	008.9	353.3	000.0100	0228.1	029.7	39.83	
139.0	000.0240	0146.9	008.8	352.8	000.0100	0228.1	029.7	39.80	
140.0	000.0221	0147.1	008.6	352.4	000.0100	0228.2	029.8	39.76	
141.0	000.0214	0147.3	008.5	352.1	000.0100	0228.1	029.8	39.77	
142.0	000.0207	0147.6	008.5	351.8	000.0100	0227.9	029.7	39.78	
143.0	000.0200	0147.3	008.4	351.5	000.0100	0227.9	029.7	39.77	
144.0	000.0193	0147.9	008.3	351.2	000.0100	0227.8	029.7	39.78	
145.0	000.0187	0148.8	008.3	350.9	000.0100	0227.7	029.7	39.80	
146.0	000.0181	0149.4	008.2	350.6	000.0100	0227.6	029.7	39.80	
147.0	000.0174	0150.4	008.2	350.3	000.0100	0227.4	029.7	39.80	
148.0	000.0168	0151.4	008.1	350.0	000.0100	0227.1	029.7	39.79	
149.0	000.0162	0151.7	008.1	349.7	000.0100	0226.7	029.7	39.77	
150.0	000.0156	0151.4	008.0	349.4	000.0100	0226.4	029.7	39.74	
151.0	000.0152	0150.6	007.9	349.1	000.0100	0226.3	029.7	39.72	
152.0	000.0149	0150.0	007.8	348.8	000.0100	0226.1	029.7	39.70	
153.0	000.0145	0149.5	007.8	348.5	000.0100	0226.0	029.8	39.68	
154.0	000.0141	0148.5	007.7	348.2	000.0100	0226.0	029.8	39.66	
155.0	000.0137	0147.1	007.6	347.9	000.0100	0226.4	029.9	39.64	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.9**Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317JRJ)**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
156.0	000.0134	0146.1	007.5	347.7	000.0100	0227.4	029.9	39.65
157.0	000.0130	0145.5	007.5	347.4	000.0100	0228.6	030.0	39.67
158.0	000.0127	0145.0	007.4	347.1	000.0100	0229.8	030.0	39.69
159.0	000.0123	0144.8	007.3	346.9	000.0100	0231.1	030.0	39.72
160.0	000.0120	0144.8	007.3	346.6	000.0100	0232.1	030.1	39.74
161.0	000.0120	0145.1	007.3	346.4	000.0100	0232.8	030.0	39.78
162.0	000.0120	0145.4	007.3	346.2	000.0100	0233.1	030.0	39.80
163.0	000.0120	0145.7	007.3	345.9	000.0100	0233.3	030.0	39.82
164.0	000.0120	0146.1	007.3	345.7	000.0100	0233.4	030.0	39.83
165.0	000.0120	0146.8	007.3	345.4	000.0100	0233.4	030.0	39.84
166.0	000.0121	0147.5	007.4	345.2	000.0100	0233.3	029.9	39.85
167.0	000.0121	0147.8	007.4	344.9	000.0100	0233.2	029.9	39.85
168.0	000.0121	0148.0	007.4	344.7	000.0100	0233.1	029.9	39.85
169.0	000.0121	0148.3	007.4	344.4	000.0100	0233.0	029.9	39.84
170.0	000.0121	0148.5	007.4	344.2	000.0100	0233.0	029.9	39.84
171.0	000.0123	0148.8	007.4	343.9	000.0100	0233.1	029.9	39.86
172.0	000.0125	0149.0	007.5	343.7	000.0100	0233.2	029.9	39.87
173.0	000.0127	0149.1	007.5	343.4	000.0100	0233.3	029.9	39.88
174.0	000.0129	0149.0	007.5	343.2	000.0100	0233.5	029.9	39.89
175.0	000.0131	0149.0	007.5	342.9	000.0100	0233.6	029.9	39.89
176.0	000.0132	0148.9	007.6	342.7	000.0100	0233.6	029.9	39.89
177.0	000.0134	0148.5	007.6	342.4	000.0100	0233.3	029.9	39.87
178.0	000.0136	0148.1	007.6	342.2	000.0100	0232.8	029.9	39.84
179.0	000.0138	0147.7	007.6	341.9	000.0100	0232.3	030.0	39.81
180.0	000.0140	0147.2	007.6	341.7	000.0100	0231.8	030.0	39.78
181.0	000.0144	0146.5	007.7	341.4	000.0100	0231.5	030.0	39.76
182.0	000.0148	0146.3	007.7	341.1	000.0100	0231.3	030.0	39.75
183.0	000.0152	0146.8	007.8	340.8	000.0100	0231.3	030.0	39.75
184.0	000.0156	0147.4	007.9	340.6	000.0100	0230.8	030.0	39.74
185.0	000.0159	0148.3	007.9	340.3	000.0100	0230.4	030.0	39.73
186.0	000.0163	0148.9	008.0	340.0	000.0100	0230.3	030.0	39.73
187.0	000.0167	0149.3	008.1	339.7	000.0100	0230.2	030.0	39.72
188.0	000.0171	0148.5	008.1	339.4	000.0100	0230.3	030.0	39.70
189.0	000.0175	0148.6	008.1	339.1	000.0100	0230.6	030.0	39.70
190.0	000.0180	0149.8	008.2	338.8	000.0100	0231.0	030.0	39.71
191.0	000.0190	0150.2	008.4	338.4	000.0100	0231.4	030.0	39.75
192.0	000.0201	0149.3	008.5	338.1	000.0100	0232.1	030.0	39.78
193.0	000.0212	0147.9	008.5	337.8	000.0100	0232.9	030.0	39.79
194.0	000.0224	0146.6	008.6	337.5	000.0100	0233.5	030.0	39.80
195.0	000.0236	0145.7	008.7	337.2	000.0100	0234.3	030.1	39.81
196.0	000.0248	0145.0	008.8	336.8	000.0100	0234.9	030.1	39.82
197.0	000.0260	0143.4	008.8	336.5	000.0100	0235.5	030.2	39.81
198.0	000.0273	0141.8	008.9	336.3	000.0100	0236.1	030.2	39.80
199.0	000.0286	0140.8	009.0	335.9	000.0100	0236.6	030.3	39.79
200.0	000.0299	0139.9	009.0	335.6	000.0100	0237.1	030.3	39.77
201.0	000.0329	0138.8	009.2	335.2	000.0100	0238.0	030.3	39.81
202.0	000.0359	0137.3	009.4	334.8	000.0100	0238.6	030.3	39.82
203.0	000.0391	0135.6	009.5	334.4	000.0100	0239.3	030.4	39.83
204.0	000.0424	0133.0	009.6	334.0	000.0100	0239.7	030.4	39.81
205.0	000.0459	0133.1	009.8	333.6	000.0100	0239.7	030.4	39.80

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.9

Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317JRJ)

06-28-2011 Terrain Data: USGS 03 SEC FMOver Analysis

637656 BNPFT20030317JRJ

W275BH.P

Channel = 275D

Max ERP = 0.01 kW

RCAMSL = 257 M

N. Lat. 42 20 57.0

W. Lng. 71 04 31.0

Protected

60 dBu

Channel = 275D

Max ERP = 0.25 kW

RCAMSL = 181 M

N. Lat. 42 40 26.0

W. Lng. 71 11 26.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
300.0	000.0100	0218.6	008.6	176.4	000.0133	0148.8	031.9	36.11	
301.0	000.0100	0218.5	008.6	176.2	000.0133	0148.9	031.7	36.17	
302.0	000.0100	0218.4	008.6	176.1	000.0133	0148.9	031.6	36.22	
303.0	000.0100	0218.4	008.6	175.9	000.0132	0148.9	031.5	36.28	
304.0	000.0100	0217.7	008.6	175.7	000.0132	0148.9	031.4	36.33	
305.0	000.0100	0216.9	008.6	175.5	000.0132	0148.9	031.3	36.37	
306.0	000.0100	0215.7	008.6	175.3	000.0131	0148.9	031.2	36.41	
307.0	000.0100	0215.2	008.6	175.1	000.0131	0149.0	031.1	36.46	
308.0	000.0100	0214.5	008.5	174.9	000.0130	0149.0	031.0	36.51	
309.0	000.0100	0214.6	008.5	174.7	000.0130	0149.1	030.9	36.56	
310.0	000.0100	0215.6	008.6	174.6	000.0130	0149.1	030.7	36.61	
311.0	000.0100	0217.5	008.6	174.4	000.0129	0149.1	030.6	36.68	
312.0	000.0100	0219.4	008.6	174.3	000.0129	0149.0	030.5	36.74	
313.0	000.0100	0221.7	008.7	174.1	000.0129	0149.0	030.3	36.81	
314.0	000.0100	0223.8	008.7	173.9	000.0128	0149.0	030.2	36.87	
315.0	000.0100	0225.2	008.8	173.8	000.0128	0149.0	030.1	36.93	
316.0	000.0100	0226.0	008.8	173.5	000.0128	0149.1	030.0	36.98	
317.0	000.0100	0224.7	008.8	173.3	000.0127	0149.1	029.9	37.01	
318.0	000.0100	0221.0	008.7	173.0	000.0127	0149.1	029.9	37.00	
319.0	000.0100	0218.0	008.6	172.7	000.0126	0149.1	029.8	37.00	
320.0	000.0100	0218.1	008.6	172.4	000.0126	0149.1	029.8	37.03	
321.0	000.0100	0220.3	008.7	172.2	000.0125	0149.0	029.6	37.09	
322.0	000.0100	0223.8	008.7	172.0	000.0125	0149.0	029.5	37.16	
323.0	000.0100	0225.6	008.8	171.8	000.0124	0148.9	029.4	37.20	
324.0	000.0100	0226.8	008.8	171.6	000.0124	0148.8	029.3	37.24	
325.0	000.0100	0228.2	008.8	171.3	000.0123	0148.8	029.2	37.28	
326.0	000.0100	0230.6	008.9	171.1	000.0123	0148.8	029.1	37.33	
327.0	000.0100	0234.7	008.9	170.9	000.0123	0148.8	029.0	37.39	
328.0	000.0100	0237.0	009.0	170.6	000.0122	0148.7	028.9	37.44	
329.0	000.0100	0238.2	009.0	170.4	000.0122	0148.6	028.8	37.46	
330.0	000.0100	0239.1	009.0	170.1	000.0121	0148.5	028.7	37.48	
331.0	000.0100	0239.1	009.0	169.8	000.0121	0148.5	028.6	37.51	
332.0	000.0100	0240.2	009.1	169.5	000.0121	0148.4	028.6	37.54	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.9**Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317JRJ)**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
333.0	000.0100	0239.6	009.0	169.2	000.0121	0148.3	028.5	37.56
334.0	000.0100	0239.7	009.0	168.9	000.0121	0148.2	028.5	37.58
335.0	000.0100	0238.2	009.0	168.6	000.0121	0148.1	028.5	37.58
336.0	000.0100	0236.5	009.0	168.2	000.0121	0148.0	028.5	37.57
337.0	000.0100	0234.6	008.9	167.9	000.0121	0148.0	028.5	37.57
338.0	000.0100	0232.4	008.9	167.6	000.0121	0148.0	028.5	37.56
339.0	000.0100	0230.7	008.9	167.3	000.0121	0147.9	028.5	37.54
340.0	000.0100	0230.3	008.9	167.0	000.0121	0147.8	028.5	37.54
341.0	000.0100	0231.3	008.9	166.7	000.0121	0147.7	028.5	37.56
342.0	000.0100	0232.5	008.9	166.3	000.0121	0147.6	028.4	37.58
343.0	000.0100	0233.5	008.9	166.0	000.0121	0147.6	028.4	37.59
344.0	000.0100	0233.1	008.9	165.7	000.0121	0147.4	028.4	37.58
345.0	000.0100	0233.2	008.9	165.4	000.0120	0147.1	028.4	37.56
346.0	000.0100	0233.2	008.9	165.1	000.0120	0146.9	028.4	37.55
347.0	000.0100	0230.5	008.9	164.8	000.0120	0146.6	028.4	37.49
348.0	000.0100	0226.3	008.8	164.5	000.0120	0146.4	028.5	37.42
349.0	000.0100	0226.2	008.8	164.2	000.0120	0146.1	028.6	37.40
350.0	000.0100	0227.0	008.8	163.9	000.0120	0146.0	028.6	37.39
351.0	000.0100	0227.8	008.8	163.6	000.0120	0145.8	028.6	37.37
352.0	000.0100	0228.1	008.8	163.2	000.0120	0145.8	028.6	37.36
353.0	000.0100	0228.1	008.8	162.9	000.0120	0145.7	028.6	37.34
354.0	000.0100	0229.0	008.8	162.6	000.0120	0145.6	028.6	37.33
355.0	000.0100	0230.1	008.9	162.3	000.0120	0145.5	028.6	37.31
356.0	000.0100	0231.7	008.9	162.0	000.0120	0145.4	028.6	37.30
357.0	000.0100	0234.9	009.0	161.7	000.0120	0145.3	028.6	37.30
358.0	000.0100	0237.9	009.0	161.3	000.0120	0145.2	028.6	37.30
359.0	000.0100	0239.7	009.0	161.0	000.0120	0145.1	028.6	37.29
000.0	000.0100	0242.1	009.1	160.7	000.0120	0145.0	028.6	37.27
001.0	000.0100	0243.0	009.1	160.4	000.0120	0144.8	028.6	37.24
002.0	000.0100	0241.1	009.1	160.1	000.0120	0144.8	028.7	37.18
003.0	000.0100	0238.7	009.0	159.9	000.0120	0144.8	028.8	37.14
004.0	000.0100	0237.2	009.0	159.6	000.0121	0144.8	028.9	37.11
005.0	000.0100	0238.1	009.0	159.3	000.0122	0144.8	029.0	37.12
006.0	000.0100	0237.2	009.0	159.0	000.0123	0144.8	029.1	37.10
007.0	000.0100	0234.7	008.9	158.8	000.0124	0144.8	029.2	37.06
008.0	000.0100	0232.7	008.9	158.6	000.0125	0144.8	029.3	37.02
009.0	000.0100	0231.0	008.9	158.3	000.0126	0144.9	029.4	36.99
010.0	000.0100	0231.7	008.9	158.1	000.0127	0145.0	029.5	36.99
011.0	000.0100	0233.8	008.9	157.8	000.0128	0145.1	029.5	37.00
012.0	000.0100	0233.6	008.9	157.5	000.0128	0145.2	029.6	36.99
013.0	000.0100	0233.5	008.9	157.3	000.0129	0145.4	029.7	36.97
014.0	000.0100	0235.8	009.0	157.0	000.0130	0145.5	029.7	36.98
015.0	000.0100	0237.8	009.0	156.7	000.0131	0145.7	029.8	36.99
016.0	000.0100	0238.2	009.0	156.5	000.0132	0145.8	029.9	36.97
017.0	000.0100	0239.2	009.0	156.2	000.0133	0146.0	030.0	36.96
018.0	000.0100	0240.3	009.1	156.0	000.0134	0146.2	030.1	36.95
019.0	000.0100	0242.1	009.1	155.7	000.0135	0146.4	030.2	36.95
020.0	000.0100	0243.0	009.1	155.5	000.0136	0146.6	030.3	36.93

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.10

Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317KLX)

Costa-eagle Radio Ventures Limited Partnership

FMCommander Single Allocation Study - 06-28-2011 - USGS 03 SEC
W275BH.P's Overlaps (In= 0.45 km, Out= 3.71 km)

W275BH.P CH 275 D DA
Lat= 42 40 26.0, Lng= 71 11 26.0
0.25 kW 139 M HAAT, 181 M COR
Prot.= 60 dBu, Intef.= 40 dBu

649953 CH 275 D BNPFT20030317KLX
Lat= 42 20 57.0, Lng= 71 04 31.0
0.01 kW 236.8 M HAAT, 254 M COR
Prot.= 60 dBu, Intef.= 40 dBu

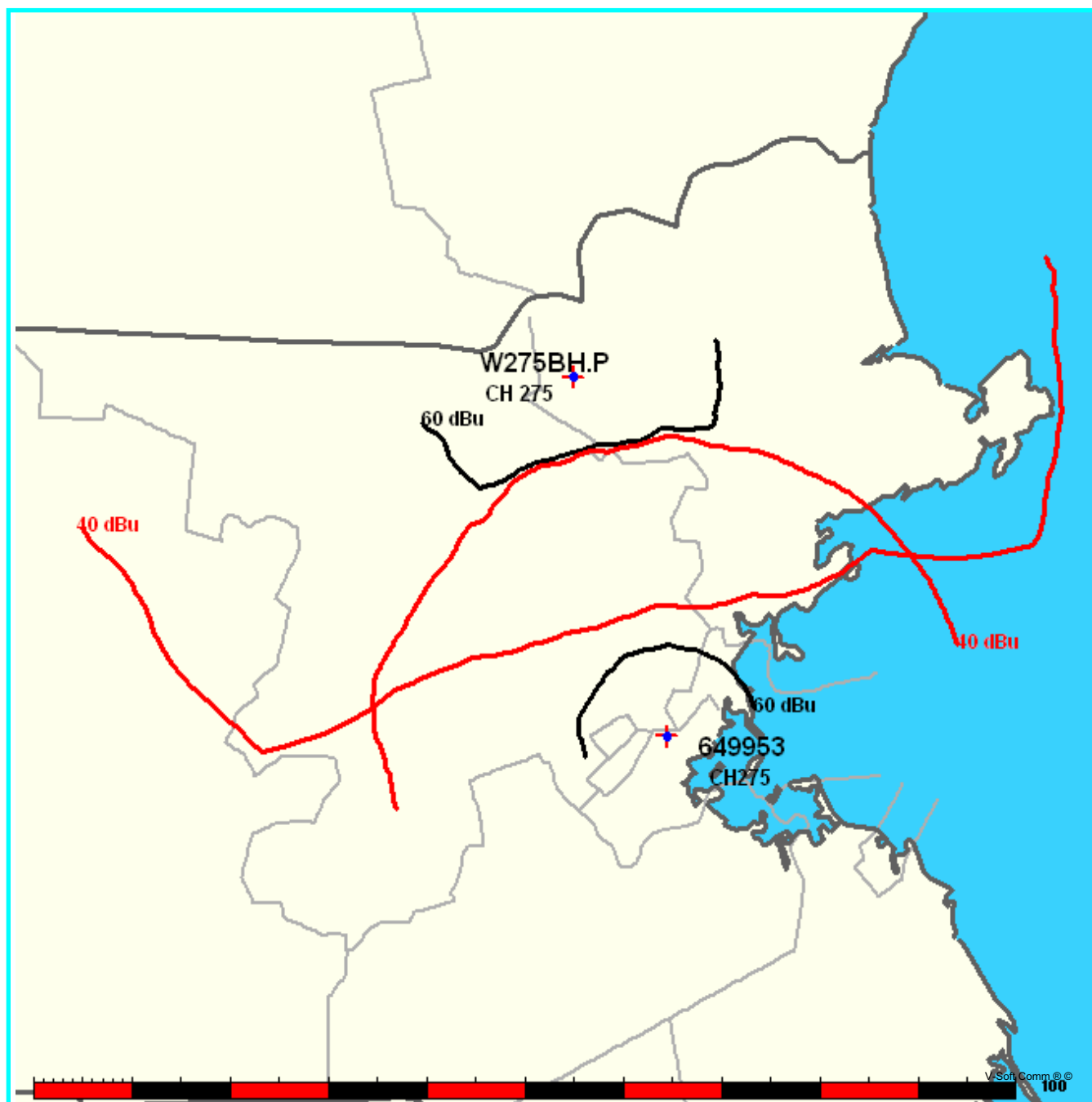


Exhibit 13.10**Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317KLX)**

06-28-2011

Terrain Data: USGS 03 SEC

FMOver Analysis

W275BH.P

649953 BNPFT20030317KLX

Channel = 275D

Max ERP = 0.25 kW

RCAMSL = 181 M

N. Lat. 42 40 26.0

W. Lng. 71 11 26.0

Protected

60 dBu

Channel = 275D

Max ERP = 0.01 kW

RCAMSL = 254 M

N. Lat. 42 20 57.0

W. Lng. 71 04 31.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
120.0	000.0600	0131.9	010.4	359.1	000.0100	0237.0	030.9	39.44	
121.0	000.0584	0131.8	010.3	358.8	000.0100	0236.3	030.8	39.48	
122.0	000.0568	0131.2	010.2	358.5	000.0100	0235.8	030.7	39.52	
123.0	000.0553	0131.9	010.2	358.3	000.0100	0235.4	030.6	39.57	
124.0	000.0537	0131.9	010.1	358.0	000.0100	0234.9	030.5	39.61	
125.0	000.0522	0132.2	010.1	357.7	000.0100	0234.2	030.4	39.65	
126.0	000.0507	0132.4	010.0	357.4	000.0100	0233.2	030.3	39.67	
127.0	000.0492	0132.1	009.9	357.0	000.0100	0232.0	030.2	39.68	
128.0	000.0478	0131.9	009.8	356.7	000.0100	0230.8	030.1	39.68	
129.0	000.0464	0131.3	009.7	356.4	000.0100	0229.6	030.0	39.67	
130.0	000.0449	0132.1	009.7	356.1	000.0100	0228.9	029.9	39.70	
131.0	000.0423	0134.1	009.6	355.8	000.0100	0228.3	029.9	39.71	
132.0	000.0397	0136.0	009.5	355.4	000.0100	0227.7	029.8	39.72	
133.0	000.0372	0138.2	009.5	355.1	000.0100	0227.2	029.7	39.74	
134.0	000.0348	0140.0	009.4	354.7	000.0100	0227.1	029.7	39.76	
135.0	000.0325	0141.6	009.3	354.4	000.0100	0226.5	029.7	39.76	
136.0	000.0302	0143.5	009.2	354.0	000.0100	0226.0	029.7	39.75	
137.0	000.0281	0144.9	009.1	353.6	000.0100	0225.5	029.7	39.73	
138.0	000.0260	0146.5	008.9	353.3	000.0100	0225.1	029.7	39.71	
139.0	000.0240	0146.9	008.8	352.8	000.0100	0225.1	029.7	39.68	
140.0	000.0221	0147.1	008.6	352.4	000.0100	0225.2	029.8	39.64	
141.0	000.0214	0147.3	008.5	352.1	000.0100	0225.1	029.8	39.66	
142.0	000.0207	0147.6	008.5	351.8	000.0100	0224.9	029.7	39.66	
143.0	000.0200	0147.3	008.4	351.5	000.0100	0224.9	029.7	39.66	
144.0	000.0193	0147.9	008.3	351.2	000.0100	0224.8	029.7	39.67	
145.0	000.0187	0148.8	008.3	350.9	000.0100	0224.7	029.7	39.68	
146.0	000.0181	0149.4	008.2	350.6	000.0100	0224.6	029.7	39.68	
147.0	000.0174	0150.4	008.2	350.3	000.0100	0224.4	029.7	39.69	
148.0	000.0168	0151.4	008.1	350.0	000.0100	0224.1	029.7	39.68	
149.0	000.0162	0151.7	008.1	349.7	000.0100	0223.7	029.7	39.66	
150.0	000.0156	0151.4	008.0	349.4	000.0100	0223.4	029.7	39.62	
151.0	000.0152	0150.6	007.9	349.1	000.0100	0223.3	029.7	39.61	
152.0	000.0149	0150.0	007.8	348.8	000.0100	0223.1	029.7	39.59	
153.0	000.0145	0149.5	007.8	348.5	000.0100	0223.0	029.8	39.57	
154.0	000.0141	0148.5	007.7	348.2	000.0100	0223.0	029.8	39.54	
155.0	000.0137	0147.1	007.6	347.9	000.0100	0223.4	029.9	39.53	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.10**Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317KLX)**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
156.0	000.0134	0146.1	007.5	347.7	000.0100	0224.4	029.9	39.53
157.0	000.0130	0145.5	007.5	347.4	000.0100	0225.6	030.0	39.56
158.0	000.0127	0145.0	007.4	347.1	000.0100	0226.8	030.0	39.58
159.0	000.0123	0144.8	007.3	346.9	000.0100	0228.1	030.0	39.61
160.0	000.0120	0144.8	007.3	346.6	000.0100	0229.1	030.1	39.63
161.0	000.0120	0145.1	007.3	346.4	000.0100	0229.8	030.0	39.67
162.0	000.0120	0145.4	007.3	346.2	000.0100	0230.1	030.0	39.69
163.0	000.0120	0145.7	007.3	345.9	000.0100	0230.3	030.0	39.71
164.0	000.0120	0146.1	007.3	345.7	000.0100	0230.4	030.0	39.72
165.0	000.0120	0146.8	007.3	345.4	000.0100	0230.4	030.0	39.73
166.0	000.0121	0147.5	007.4	345.2	000.0100	0230.3	029.9	39.74
167.0	000.0121	0147.8	007.4	344.9	000.0100	0230.2	029.9	39.74
168.0	000.0121	0148.0	007.4	344.7	000.0100	0230.1	029.9	39.74
169.0	000.0121	0148.3	007.4	344.4	000.0100	0230.0	029.9	39.73
170.0	000.0121	0148.5	007.4	344.2	000.0100	0230.0	029.9	39.73
171.0	000.0123	0148.8	007.4	343.9	000.0100	0230.1	029.9	39.75
172.0	000.0125	0149.0	007.5	343.7	000.0100	0230.2	029.9	39.76
173.0	000.0127	0149.1	007.5	343.4	000.0100	0230.3	029.9	39.77
174.0	000.0129	0149.0	007.5	343.2	000.0100	0230.5	029.9	39.78
175.0	000.0131	0149.0	007.5	342.9	000.0100	0230.6	029.9	39.78
176.0	000.0132	0148.9	007.6	342.7	000.0100	0230.6	029.9	39.78
177.0	000.0134	0148.5	007.6	342.4	000.0100	0230.3	029.9	39.76
178.0	000.0136	0148.1	007.6	342.2	000.0100	0229.8	029.9	39.73
179.0	000.0138	0147.7	007.6	341.9	000.0100	0229.3	030.0	39.70
180.0	000.0140	0147.2	007.6	341.7	000.0100	0228.8	030.0	39.67
181.0	000.0144	0146.5	007.7	341.4	000.0100	0228.5	030.0	39.65
182.0	000.0148	0146.3	007.7	341.1	000.0100	0228.3	030.0	39.64
183.0	000.0152	0146.8	007.8	340.8	000.0100	0228.3	030.0	39.64
184.0	000.0156	0147.4	007.9	340.6	000.0100	0227.8	030.0	39.63
185.0	000.0159	0148.3	007.9	340.3	000.0100	0227.4	030.0	39.62
186.0	000.0163	0148.9	008.0	340.0	000.0100	0227.3	030.0	39.62
187.0	000.0167	0149.3	008.1	339.7	000.0100	0227.2	030.0	39.61
188.0	000.0171	0148.5	008.1	339.4	000.0100	0227.3	030.0	39.59
189.0	000.0175	0148.6	008.1	339.1	000.0100	0227.6	030.0	39.59
190.0	000.0180	0149.8	008.2	338.8	000.0100	0228.0	030.0	39.60
191.0	000.0190	0150.2	008.4	338.4	000.0100	0228.4	030.0	39.64
192.0	000.0201	0149.3	008.5	338.1	000.0100	0229.1	030.0	39.67
193.0	000.0212	0147.9	008.5	337.8	000.0100	0229.9	030.0	39.68
194.0	000.0224	0146.6	008.6	337.5	000.0100	0230.5	030.0	39.69
195.0	000.0236	0145.7	008.7	337.2	000.0100	0231.3	030.1	39.70
196.0	000.0248	0145.0	008.8	336.8	000.0100	0231.9	030.1	39.71
197.0	000.0260	0143.4	008.8	336.5	000.0100	0232.5	030.2	39.71
198.0	000.0273	0141.8	008.9	336.3	000.0100	0233.1	030.2	39.69
199.0	000.0286	0140.8	009.0	335.9	000.0100	0233.6	030.3	39.68
200.0	000.0299	0139.9	009.0	335.6	000.0100	0234.1	030.3	39.66
201.0	000.0329	0138.8	009.2	335.2	000.0100	0235.0	030.3	39.70
202.0	000.0359	0137.3	009.4	334.8	000.0100	0235.6	030.3	39.72
203.0	000.0391	0135.6	009.5	334.4	000.0100	0236.3	030.4	39.72
204.0	000.0424	0133.0	009.6	334.0	000.0100	0236.7	030.4	39.70
205.0	000.0459	0133.1	009.8	333.6	000.0100	0236.7	030.4	39.70

Munn-Reese, Inc.Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.10**Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317KLX)**

06-28-2011

Terrain Data: USGS 03 SEC

FMOver Analysis

649953 BNPFT20030317KLX

W275BH.P

Channel = 275D

Max ERP = 0.01 kW

RCAMSL = 254 M

N. Lat. 42 20 57.0

W. Lng. 71 04 31.0

Protected

60 dBu

Channel = 275D

Max ERP = 0.25 kW

RCAMSL = 181 M

N. Lat. 42 40 26.0

W. Lng. 71 11 26.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
300.0	000.0100	0215.6	008.6	176.3	000.0133	0148.8	031.9	36.09	
301.0	000.0100	0215.5	008.6	176.1	000.0133	0148.9	031.8	36.14	
302.0	000.0100	0215.4	008.6	176.0	000.0132	0148.9	031.6	36.20	
303.0	000.0100	0215.4	008.6	175.8	000.0132	0148.9	031.5	36.25	
304.0	000.0100	0214.7	008.5	175.6	000.0132	0148.9	031.4	36.30	
305.0	000.0100	0213.9	008.5	175.4	000.0131	0148.9	031.3	36.35	
306.0	000.0100	0212.7	008.5	175.2	000.0131	0148.9	031.2	36.38	
307.0	000.0100	0212.2	008.5	175.0	000.0131	0149.0	031.1	36.43	
308.0	000.0100	0211.5	008.5	174.8	000.0130	0149.0	031.0	36.48	
309.0	000.0100	0211.6	008.5	174.6	000.0130	0149.1	030.9	36.53	
310.0	000.0100	0212.6	008.5	174.5	000.0130	0149.1	030.8	36.58	
311.0	000.0100	0214.5	008.5	174.3	000.0129	0149.0	030.6	36.65	
312.0	000.0100	0216.4	008.6	174.2	000.0129	0149.0	030.5	36.71	
313.0	000.0100	0218.7	008.6	174.0	000.0129	0149.0	030.4	36.78	
314.0	000.0100	0220.8	008.7	173.9	000.0128	0149.0	030.2	36.84	
315.0	000.0100	0222.2	008.7	173.7	000.0128	0149.0	030.1	36.90	
316.0	000.0100	0223.0	008.7	173.5	000.0128	0149.1	030.0	36.95	
317.0	000.0100	0221.7	008.7	173.2	000.0127	0149.1	030.0	36.98	
318.0	000.0100	0218.0	008.6	172.9	000.0126	0149.1	029.9	36.97	
319.0	000.0100	0215.0	008.5	172.6	000.0126	0149.1	029.9	36.97	
320.0	000.0100	0215.1	008.5	172.3	000.0125	0149.1	029.8	37.00	
321.0	000.0100	0217.3	008.6	172.1	000.0125	0149.0	029.7	37.05	
322.0	000.0100	0220.8	008.7	172.0	000.0125	0149.0	029.6	37.12	
323.0	000.0100	0222.6	008.7	171.7	000.0124	0148.9	029.4	37.16	
324.0	000.0100	0223.8	008.7	171.5	000.0124	0148.8	029.4	37.20	
325.0	000.0100	0225.2	008.8	171.3	000.0123	0148.8	029.3	37.24	
326.0	000.0100	0227.6	008.8	171.0	000.0123	0148.8	029.1	37.29	
327.0	000.0100	0231.7	008.9	170.8	000.0123	0148.7	029.0	37.36	
328.0	000.0100	0234.0	008.9	170.6	000.0122	0148.7	028.9	37.40	
329.0	000.0100	0235.2	009.0	170.3	000.0122	0148.6	028.8	37.43	
330.0	000.0100	0236.1	009.0	170.0	000.0121	0148.5	028.8	37.45	
331.0	000.0100	0236.1	009.0	169.7	000.0121	0148.4	028.7	37.47	
332.0	000.0100	0237.2	009.0	169.5	000.0121	0148.4	028.6	37.51	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.10**Contour Protection Studies Toward APP275D - Boston, MA (BNPFT-20030317KLX)**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
333.0	000.0100	0236.6	009.0	169.1	000.0121	0148.3	028.6	37.52
334.0	000.0100	0236.7	009.0	168.8	000.0121	0148.2	028.6	37.55
335.0	000.0100	0235.2	009.0	168.5	000.0121	0148.1	028.5	37.54
336.0	000.0100	0233.5	008.9	168.2	000.0121	0148.0	028.5	37.54
337.0	000.0100	0231.6	008.9	167.9	000.0121	0148.0	028.5	37.53
338.0	000.0100	0229.4	008.8	167.6	000.0121	0148.0	028.6	37.52
339.0	000.0100	0227.7	008.8	167.3	000.0121	0147.9	028.6	37.51
340.0	000.0100	0227.3	008.8	166.9	000.0121	0147.8	028.6	37.51
341.0	000.0100	0228.3	008.8	166.6	000.0121	0147.7	028.5	37.52
342.0	000.0100	0229.5	008.8	166.3	000.0121	0147.6	028.5	37.54
343.0	000.0100	0230.5	008.9	166.0	000.0121	0147.5	028.5	37.55
344.0	000.0100	0230.1	008.9	165.7	000.0121	0147.4	028.5	37.54
345.0	000.0100	0230.2	008.9	165.4	000.0120	0147.1	028.5	37.53
346.0	000.0100	0230.2	008.9	165.1	000.0120	0146.9	028.5	37.51
347.0	000.0100	0227.5	008.8	164.8	000.0120	0146.6	028.5	37.46
348.0	000.0100	0223.3	008.7	164.5	000.0120	0146.4	028.6	37.38
349.0	000.0100	0223.2	008.7	164.2	000.0120	0146.2	028.6	37.36
350.0	000.0100	0224.0	008.7	163.9	000.0120	0146.0	028.6	37.35
351.0	000.0100	0224.8	008.8	163.6	000.0120	0145.8	028.6	37.34
352.0	000.0100	0225.1	008.8	163.3	000.0120	0145.8	028.6	37.32
353.0	000.0100	0225.1	008.8	163.0	000.0120	0145.7	028.7	37.30
354.0	000.0100	0226.0	008.8	162.7	000.0120	0145.6	028.7	37.29
355.0	000.0100	0227.1	008.8	162.4	000.0120	0145.5	028.7	37.28
356.0	000.0100	0228.7	008.8	162.0	000.0120	0145.4	028.7	37.26
357.0	000.0100	0231.9	008.9	161.7	000.0120	0145.3	028.7	37.27
358.0	000.0100	0234.9	009.0	161.4	000.0120	0145.2	028.6	37.27
359.0	000.0100	0236.7	009.0	161.1	000.0120	0145.1	028.7	37.25
000.0	000.0100	0239.1	009.0	160.7	000.0120	0145.0	028.7	37.24
001.0	000.0100	0240.0	009.1	160.4	000.0120	0144.9	028.7	37.21
002.0	000.0100	0238.1	009.0	160.2	000.0120	0144.8	028.8	37.15
003.0	000.0100	0235.7	009.0	159.9	000.0120	0144.8	028.9	37.10
004.0	000.0100	0234.2	008.9	159.6	000.0121	0144.8	029.0	37.08
005.0	000.0100	0235.1	009.0	159.3	000.0122	0144.8	029.0	37.08
006.0	000.0100	0234.2	008.9	159.1	000.0123	0144.8	029.1	37.06
007.0	000.0100	0231.7	008.9	158.9	000.0124	0144.8	029.2	37.02
008.0	000.0100	0229.7	008.9	158.6	000.0125	0144.8	029.3	36.98
009.0	000.0100	0228.0	008.8	158.4	000.0125	0144.9	029.4	36.95
010.0	000.0100	0228.7	008.8	158.1	000.0126	0145.0	029.5	36.95
011.0	000.0100	0230.8	008.9	157.8	000.0127	0145.1	029.6	36.96
012.0	000.0100	0230.6	008.9	157.6	000.0128	0145.2	029.6	36.95
013.0	000.0100	0230.5	008.9	157.4	000.0129	0145.3	029.7	36.93
014.0	000.0100	0232.8	008.9	157.1	000.0130	0145.5	029.8	36.94
015.0	000.0100	0234.8	009.0	156.8	000.0131	0145.6	029.9	36.95
016.0	000.0100	0235.2	009.0	156.5	000.0132	0145.8	030.0	36.93
017.0	000.0100	0236.2	009.0	156.3	000.0133	0145.9	030.0	36.92
018.0	000.0100	0237.3	009.0	156.0	000.0134	0146.1	030.1	36.91
019.0	000.0100	0239.1	009.0	155.8	000.0135	0146.3	030.2	36.91
020.0	000.0100	0240.0	009.1	155.5	000.0136	0146.5	030.3	36.89

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