

MINOR CHANGE APPLICATION
MODIFICATION TO BNPH-20110623AAF
CODCOMM, INC.
WKFY (FM) RADIO STATION
CH 254A - 98.7 MHz - 3.2 kW
EAST HARWICH, MASSACHUSETTS
December 2012

EXHIBIT A

The proposed WKFY antenna location will be shortspaced to one other FM station WPLM-FM, Channel 256B, Plymouth, Massachusetts. Exhibit A1 is a printout that shows the proposed facility is shortspaced to WPLM-FM, with a distance between facilities of 67.56 kilometers. The spacing between the proposed WKFY and WPLM-FM complies with the Class A to Class B second adjacent minimum spacing requirement in §73.215(e) of 63.0 kilometers.

Exhibits A2 and A3 are maps demonstrating that WKFY will deliver no interference to WPLM-FM nor will WKFY receive interference from WPLM-FM, under the provisions of §73.215.¹ Exhibits A4 and A5 are the tabulated distances to the protected and interfering contours, along the pertinent arcs, of the proposed WKFY and WPLM-FM (FMOVER Analysis). Further, Exhibit A6 are the tabulated and protected contours of the proposed facility, in ten degree increments. Again, there is no prohibited overlap between the facilities. Based on the foregoing, this instant proposal meets the interference criteria of §73.215 and is believed to be in compliance with the Commission's rules.

1) The NED 03 Second Terrain Database is utilized throughout this study.

EXHIBIT A1

REFERENCE		DISPLAY DATES
41 41 36.6 N.	CLASS = A	DATA 12-10-12
69 58 28.9 W.	Current Spacings to 3rd Adj.	SEARCH 12-10-12

* Shortspace addressed using the provisions of §73.215

WKFY - East Harwich, MA

Modification of BNPH-20110623AAF

Latitude: 41-41-36.60 N / Longitude: 069-58-28.90 W

ERP: 3.20 kW - Ch: 254 - 98.7 MHz

AMSL Height: 51.76 m

Horiz. Pattern: Omni

\$73.215 CONTOUR CLEARANCE

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

WPLM-FM-Max - Plymouth, MA - BLH7410

Latitude: 41-58-02 N / Longitude: 070-42-04 W

ERP: 50.00 kW - Ch: 256 - 99.1 MHz

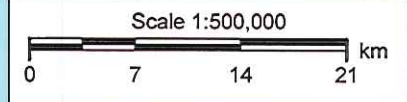
AMSL Height: 178.004 m

Horiz. Pattern: Omni

EXHIBIT A2
MINOR CHANGE APPLICATION
MODIFICATION TO BNPH-20110623AAF
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ALL CONTOURS CALCULATED USING
NED 3 Second Terrain Database

- WPLM-FM 100 dBu - FCC 50/10
- WPLM 54 dBu - FCC 50/50
- WKFY 94 dBu - FCC 50/10
- WKFY 60 dBu - FCC 50/50



V-Soft Communications LLC ©

WKFY - East Harwich, MA
Modification of BNPH-20110623AAF
Latitude: 41-41-36.60 N / Longitude: 069-58-28.90 W
ERP: 3.20 kW - Ch: 254 - 98.7 MHz
AMSL Height: 51.76 m
Horiz. Pattern: Omni



§73.215 CONTOUR CLEARANCE DETAIL


GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

WPLM-FM-Max - Plymouth, MA - BLH7410
Latitude: 41-58-02 N / Longitude: 070-42-04 W
ERP: 50.00 kW - Ch: 256 - 99.1 MHz
AMSL Height: 178.004 m
Horiz. Pattern: Omni

EXHIBIT A3
MINOR CHANGE APPLICATION
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ALL CONTOURS CALCULATED USING
NED 3 Second Terrain Database

 WPLM 54 dBu - FCC 50/50
 WKFY 94 dBu - FCC 50/10

Scale 1:50,000
 km
0 0.7 1.4 2.1

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EXHIBIT A4

WKFY - Proposed
Channel = 254A
Max ERP = 3.2 kW
RCAMSL = 51.76 M
N. Lat. 41 41 36.6
W. Lng. 69 58 28.9

WPLM-FM - BLH-7410
Channel = 256B
Max ERP = 50 kW
RCAMSL = 178 M
N. Lat. 41 58 02.0
W. Lng. 70 42 04.0

Protected
60 dBu

Interfering
100 dBu

NED 03 Second Terrain Database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
277.0	003.2000	0037.4	014.9	122.0	050.0000	0149.2	053.7	62.23
278.0	003.2000	0036.6	014.7	121.7	050.0000	0149.9	053.8	62.25
279.0	003.2000	0035.9	014.6	121.4	050.0000	0150.7	053.8	62.28
280.0	003.2000	0036.9	014.7	121.2	050.0000	0150.9	053.5	62.39
281.0	003.2000	0037.1	014.8	121.0	050.0000	0151.4	053.4	62.47
282.0	003.2000	0036.9	014.8	120.7	050.0000	0152.2	053.3	62.54
283.0	003.2000	0036.1	014.6	120.4	050.0000	0152.3	053.4	62.51
284.0	003.2000	0034.7	014.3	120.0	050.0000	0152.2	053.6	62.44
285.0	003.2000	0034.2	014.2	119.7	050.0000	0151.6	053.6	62.39
286.0	003.2000	0034.1	014.2	119.5	050.0000	0151.2	053.6	62.39
287.0	003.2000	0035.2	014.4	119.3	050.0000	0151.2	053.3	62.50
288.0	003.2000	0036.4	014.7	119.1	050.0000	0151.4	053.0	62.61
289.0	003.2000	0036.6	014.7	118.8	050.0000	0151.6	052.9	62.66
290.0	003.2000	0036.1	014.6	118.5	050.0000	0151.4	053.0	62.63
291.0	003.2000	0036.0	014.6	118.2	050.0000	0151.6	053.0	62.64
292.0	003.2000	0035.3	014.4	117.9	050.0000	0152.0	053.1	62.63
293.0	003.2000	0034.9	014.4	117.7	050.0000	0152.3	053.1	62.62
294.0	003.2000	0036.2	014.6	117.4	050.0000	0152.6	052.9	62.74
295.0	003.2000	0036.8	014.7	117.1	050.0000	0152.6	052.7	62.79
296.0	003.2000	0036.5	014.7	116.9	050.0000	0152.4	052.8	62.76
297.0	003.2000	0036.0	014.6	116.6	050.0000	0152.2	052.9	62.71
298.0	003.2000	0038.0	015.0	116.3	050.0000	0152.0	052.5	62.86
299.0	003.2000	0038.1	015.0	116.0	050.0000	0152.1	052.5	62.86
300.0	003.2000	0037.7	014.9	115.7	050.0000	0152.2	052.6	62.83
301.0	003.2000	0037.5	014.9	115.4	050.0000	0152.5	052.6	62.82
302.0	003.2000	0036.4	014.7	115.2	050.0000	0152.9	052.9	62.75
303.0	003.2000	0036.4	014.7	114.9	050.0000	0153.5	052.9	62.77
304.0	003.2000	0036.1	014.6	114.7	050.0000	0154.2	053.0	62.77
305.0	003.2000	0035.6	014.5	114.4	050.0000	0154.9	053.1	62.76
306.0	003.2000	0035.4	014.4	114.1	050.0000	0155.6	053.2	62.75
307.0	003.2000	0034.8	014.3	113.9	050.0000	0156.2	053.4	62.73
308.0	003.2000	0034.7	014.3	113.6	050.0000	0156.7	053.5	62.72
309.0	003.2000	0035.1	014.4	113.4	050.0000	0157.1	053.4	62.75
310.0	003.2000	0035.4	014.5	113.1	050.0000	0157.4	053.4	62.76
311.0	003.2000	0035.0	014.4	112.9	050.0000	0157.8	053.6	62.72
312.0	003.2000	0035.1	014.4	112.6	050.0000	0158.4	053.7	62.73
313.0	003.2000	0035.4	014.5	112.3	050.0000	0159.2	053.7	62.76
314.0	003.2000	0035.9	014.5	112.0	050.0000	0159.9	053.7	62.79

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EXHIBIT A5

WPLM-FM - BLH-7410
Channel = 256B
Max ERP = 50 kW
RCAMSL = 178 M
N. Lat. 41 58 02.0
W. Lng. 70 42 04.0

WKFY - Proposed
Channel = 254A
Max ERP = 3.2 kW
RCAMSL = 51.76 M
N. Lat. 41 41 36.6
W. Lng. 69 58 28.9

Protected
54 dBu

Interfering
94 dBu

NED 03 Second Terrain Database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
097.0	050.0000	0177.9	068.4	018.6	003.2000	0050.2	023.3	55.82
098.0	050.0000	0177.9	068.4	019.2	003.2000	0050.4	022.1	56.74
099.0	050.0000	0177.9	068.4	019.8	003.2000	0050.5	021.0	57.69
100.0	050.0000	0177.9	068.4	020.4	003.2000	0050.7	019.8	58.68
101.0	050.0000	0177.9	068.4	021.0	003.2000	0050.8	018.6	59.69
102.0	050.0000	0177.9	068.4	021.7	003.2000	0050.9	017.4	60.72
103.0	050.0000	0176.6	068.2	021.9	003.2000	0050.9	016.2	61.75
104.0	050.0000	0174.7	068.0	021.8	003.2000	0050.9	015.0	62.82
105.0	050.0000	0173.1	067.9	021.7	003.2000	0050.9	013.8	64.05
106.0	050.0000	0171.4	067.7	021.4	003.2000	0051.0	012.6	65.71
107.0	050.0000	0169.4	067.5	020.8	003.2000	0050.7	011.4	67.50
108.0	050.0000	0167.1	067.2	019.7	003.2000	0050.5	010.3	69.42
109.0	050.0000	0164.7	066.9	018.1	003.2000	0050.3	009.1	71.48
110.0	050.0000	0162.8	066.7	016.2	003.2000	0050.2	007.9	73.61
111.0	050.0000	0161.0	066.5	013.7	003.2000	0048.9	006.8	75.99
112.0	050.0000	0159.9	066.3	010.8	003.2000	0047.4	005.7	78.97
113.0	050.0000	0157.5	066.0	004.2	003.2000	0045.8	004.6	82.19
114.0	050.0000	0156.0	065.8	355.2	003.2000	0045.3	003.6	86.23
115.0	050.0000	0153.3	065.5	338.1	003.2000	0042.7	002.9	89.38
116.0	050.0000	0152.1	065.3	315.5	003.2000	0036.7	002.5	91.28
117.0	050.0000	0152.5	065.4	288.0	003.2000	0036.4	002.3	92.54
118.0	050.0000	0152.0	065.3	264.5	003.2000	0041.9	002.8	90.13
119.0	050.0000	0151.4	065.2	250.1	003.2000	0047.6	003.6	86.81
120.0	050.0000	0152.2	065.3	239.6	003.2000	0050.7	004.5	83.63
121.0	050.0000	0151.3	065.2	235.0	003.2000	0051.5	005.6	80.04
122.0	050.0000	0149.2	065.0	233.3	003.2000	0051.6	006.7	76.62
123.0	050.0000	0147.9	064.8	231.6	003.2000	0051.6	007.9	74.01
124.0	050.0000	0147.1	064.7	230.0	003.2000	0051.7	009.0	71.92
125.0	050.0000	0147.1	064.7	228.3	003.2000	0051.7	010.1	69.97
126.0	050.0000	0147.0	064.7	227.1	003.2000	0051.7	011.2	68.11
127.0	050.0000	0146.5	064.6	226.5	003.2000	0051.7	012.3	66.35
128.0	050.0000	0145.9	064.5	226.1	003.2000	0051.7	013.4	64.74
129.0	050.0000	0146.0	064.5	225.5	003.2000	0051.8	014.5	63.31
130.0	050.0000	0147.0	064.6	224.5	003.2000	0051.7	015.6	62.42
131.0	050.0000	0147.0	064.7	224.2	003.2000	0051.7	016.8	61.43
132.0	050.0000	0145.4	064.4	224.8	003.2000	0051.7	017.9	60.46

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EXHIBIT A6

North Latitude: 41° 41' 36.6" - Tabulated Protected and Interfering Contour Data
West Longitude: 69° 58' 28.9" - WKFY FM Radio Station, East Harwich, Massachusetts

HAAT and Distance to Contour - NED 03 Second Terrain Database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	100-F1	94-F1	60-F5	54-F1	40-F1
000	7.2	44.5	3.2000	5.05	1.000	1.68	2.36	16.37	24.28	62.64
010	4.3	47.5	3.2000	5.05	1.000	1.74	2.44	17.01	25.11	63.90
020	1.2	50.5	3.2000	5.05	1.000	1.80	2.51	17.63	25.93	65.10
030	0.3	51.4	3.2000	5.05	1.000	1.82	2.53	17.81	26.17	65.44
040	0.1	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.24	65.54
050	0.0	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.25	65.55
060	0.0	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.25	65.55
070	0.0	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.25	65.55
080	0.0	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.24	65.54
090	0.1	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.24	65.54
100	0.1	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.24	65.54
110	0.0	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.24	65.54
120	0.0	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.25	65.55
130	0.0	51.7	3.2000	5.05	1.000	1.83	2.54	17.87	26.25	65.55
140	0.1	51.7	3.2000	5.05	1.000	1.83	2.54	17.86	26.23	65.53
150	0.1	51.6	3.2000	5.05	1.000	1.83	2.54	17.85	26.22	65.51
160	0.1	51.6	3.2000	5.05	1.000	1.83	2.54	17.85	26.21	65.50
170	0.3	51.4	3.2000	5.05	1.000	1.82	2.53	17.81	26.16	65.43
180	0.1	51.6	3.2000	5.05	1.000	1.83	2.54	17.85	26.22	65.52
190	0.3	51.5	3.2000	5.05	1.000	1.82	2.53	17.82	26.18	65.46
200	0.1	51.7	3.2000	5.05	1.000	1.83	2.54	17.86	26.23	65.53
210	0.1	51.6	3.2000	5.05	1.000	1.83	2.54	17.85	26.21	65.50
220	0.2	51.6	3.2000	5.05	1.000	1.82	2.54	17.84	26.21	65.49
230	0.1	51.7	3.2000	5.05	1.000	1.83	2.54	17.86	26.22	65.52
240	1.2	50.5	3.2000	5.05	1.000	1.81	2.51	17.64	25.93	65.11
250	4.1	47.6	3.2000	5.05	1.000	1.75	2.44	17.05	25.15	63.97
260	6.8	44.9	3.2000	5.05	1.000	1.69	2.37	16.47	24.40	62.83
270	13.1	38.7	3.2000	5.05	1.000	1.53	2.20	15.11	22.56	59.84
280	14.9	36.9	3.2000	5.05	1.000	1.61	2.15	14.74	22.01	58.87
290	15.6	36.1	3.2000	5.05	1.000	1.61	2.12	14.60	21.79	58.46
300	14.1	37.7	3.2000	5.05	1.000	1.61	2.17	14.91	22.26	59.32
310	16.3	35.4	3.2000	5.05	1.000	1.61	2.10	14.46	21.57	58.07
320	15.1	36.6	3.2000	5.05	1.000	1.61	2.14	14.70	21.94	58.74
330	9.8	42.0	3.2000	5.05	1.000	1.61	2.30	15.81	23.55	61.48
340	8.8	43.0	3.2000	5.05	1.000	1.64	2.32	16.03	23.84	61.95
350	8.2	43.5	3.2000	5.05	1.000	1.65	2.34	16.15	23.99	62.20

AMSL= 51.76 M