

Exhibit 13.2 - W284BQ.P §74.1204(d) Waiver Request vs WOMC & WMGC-FM

W284BQ.P

Detroit, MI
Latitude: 42-29-43 N
Longitude: 083-02-53 W
ERP: 0.25 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 250.3 m
Elevation: 190.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

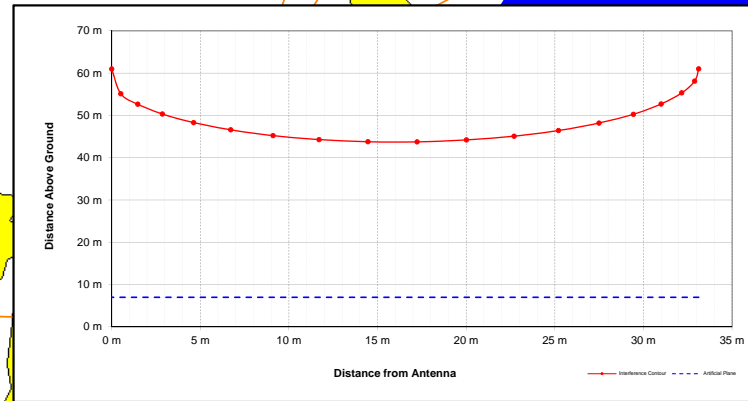
WOMC

Detroit, MI
BLH19970512KI
Latitude: 42-28-10 N
Longitude: 083-06-54 W
ERP: 190.00 kW
Channel: 282
Frequency: 104.3 MHz
AMSL Height: 306.0 m
Elevation: 194.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WMGC-FM

Detroit, MI
BMLH20061004AIW
Latitude: 42-27-13 N
Longitude: 083-09-50 W
ERP: 50.00 kW
Channel: 286
Frequency: 105.1 MHz
AMSL Height: 349.0 m
Elevation: 203.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

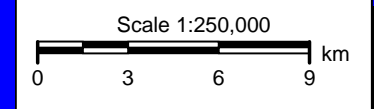
The Protected Contours of WOMC and WMGC-FM have been plotted as they fall over the W284BQ.P site. The "worst case" contour protection results from that of WMGC-FM where the corresponding Interference contour of W284BQ.P would be no less that the 130.5 dBu F(50:10) versus the worst case WMGC-FM 90.5 dBu F(50:50) Protected Contour. This represents the proposed interference contour which falls wholly within the 40:1 dBu ratio. As seen on the map and associated vertical protection study, full protection will be afforded WMGC-FM as the calculated interference area will not reach the ground nor a 7 meter artificial plane representing a 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's vertical radiation pattern has been included in Exhibit 13.3.



Proposed Antenna: 1 Bay SWR FM1 (FMEC-1) - Fully Spaced								
Proposed Power: 0.25 kW								
Antenna Height AGL: 61 meters								
Interference Contour: 130.5 dBu F(50:10)								
Artificial Ground Plane Height: 7 meters								
Distance (Free Space) Equation: $= (10 \times (106.92 - (\text{desired dBu}) + (\text{ERP in dBk}) / 20)) \times 1000$								
Field Strength (dBu) Equation: $= 106.92 - (20 \times (\text{LOG10}(\text{DistMeters}) / 1000)) + (\text{ERP in dBk})$								
Depression	Angle	Antenna	ERP	Distance	Distance	Field Strength	Distance	Field Strength
Below	Relative	Field	in kW	to Ant.	from Ant. to	in dBu @	from Ant. to	in dBu @
Horizon	Field			Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.250	-6.02	33.11 m	infinite	105.03 dBu	699.90 m	103.97 dBu
-5°	0.997	0.249	-6.05	33.01 m	619.53 m	105.03 dBu	699.90 m	103.97 dBu
-10°	0.986	0.243	-6.14	32.65 m	310.97 m	110.92 dBu	351.28 m	109.86 dBu
-15°	0.969	0.235	-6.29	32.08 m	208.64 m	114.24 dBu	235.69 m	113.18 dBu
-20°	0.946	0.224	-6.50	31.32 m	157.89 m	116.45 dBu	178.35 m	115.39 dBu
-25°	0.916	0.210	-6.78	30.33 m	127.77 m	118.01 dBu	144.34 m	116.95 dBu
-30°	0.879	0.193	-7.14	29.10 m	108.00 m	119.11 dBu	122.00 m	118.05 dBu
-35°	0.837	0.175	-7.57	27.71 m	94.15 m	119.88 dBu	106.35 m	118.82 dBu
-40°	0.789	0.156	-8.08	26.12 m	84.01 m	120.35 dBu	94.90 m	119.30 dBu
-45°	0.736	0.135	-8.68	24.37 m	76.37 m	120.58 dBu	86.27 m	119.52 dBu
-50°	0.679	0.115	-9.38	22.48 m	70.49 m	120.57 dBu	79.63 m	119.52 dBu
-55°	0.616	0.095	-10.23	20.40 m	65.92 m	120.31 dBu	74.47 m	119.25 dBu
-60°	0.550	0.076	-11.21	18.21 m	62.35 m	119.81 dBu	70.44 m	118.75 dBu
-65°	0.480	0.058	-12.40	15.89 m	59.58 m	119.02 dBu	67.31 m	117.96 dBu
-70°	0.408	0.042	-13.81	13.51 m	57.47 m	117.92 dBu	64.91 m	116.87 dBu
-75°	0.333	0.028	-15.57	11.03 m	55.90 m	116.40 dBu	63.15 m	115.34 dBu
-80°	0.256	0.016	-17.86	8.48 m	54.83 m	114.28 dBu	61.94 m	113.22 dBu
-85°	0.178	0.008	-21.01	5.89 m	54.21 m	111.23 dBu	61.23 m	110.17 dBu
-90°	0.001	0.000	-66.02	0.03 m	54.00 m	66.25 dBu	61.00 m	65.19 dBu

WOMC 103 dBu F(50:50)

WMGC-FM 90.5 dBu F(50:50)



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