

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

W284BQ.P

BLFT20161028ABN
Latitude: 42-36-16.60 N
Longitude: 082-54-42.10 W
ERP: 0.25 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 236.9 m
Elevation: 180.4 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

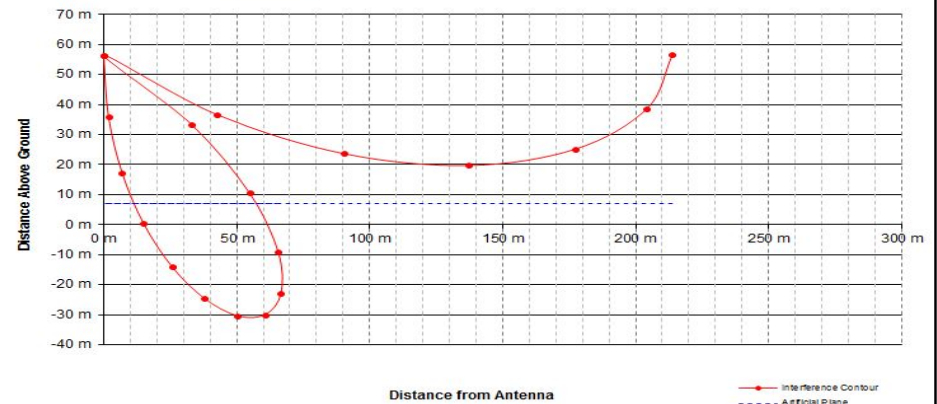
WMGC-FM

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

WOMC

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

The Protected Contours of WOMC and WMGC-MF 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 than the 114.3 dBu F(50:10) versus the worst case of WMGC-FM 74.3 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, aerial image and associated vertical protection study, full protection will be afforded WMGC-FM as the calculated interference area, outside of the vacant land within 70 meters of the antenna, 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: 2-Bay Shively 6810 - 2 Two Bay 1.0 λ (wavelength) spaced
Proposed Power: 0.25 kW
Antenna Height AGL: 56.5 meters
Interference Contour: 114.3 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: $= 106.92 - (20 * (\text{LOG10}(\text{DistMeters}/1000))) + [\text{ERP in dBk}]$

Depression Angle Below Horizon	Antenna Relative Field	ERP in kW	ERP in dBk	Distance from Ant. to Interference Contour	Distance from Ant. to Artificial Plane	Field Strength in dBu @ Artificial Plane	Distance from Ant. to Ground Level	Field Strength in dBu @ Ground Level
0°	1.000	0.250	-6.02	213.78 m	infinite	---	---	---
-5°	0.959	0.230	-6.38	205.02 m	567.95 m	105.45 dBu	648.26 m	104.30 dBu
-10°	0.843	0.178	-7.50	180.22 m	285.06 m	110.32 dBu	325.37 m	109.17 dBu
-15°	0.665	0.111	-9.56	142.16 m	191.25 m	111.72 dBu	218.30 m	110.57 dBu
-20°	0.449	0.050	-12.98	95.99 m	144.73 m	110.73 dBu	165.19 m	109.58 dBu
-25°	0.220	0.012	-19.17	47.03 m	117.13 m	106.37 dBu	133.69 m	105.23 dBu
-30°	0.001	0.000	-66.02	0.21 m	99.00 m	60.99 dBu	113.00 m	59.84 dBu
-35°	0.188	0.009	-20.54	40.19 m	86.30 m	107.66 dBu	98.50 m	106.51 dBu
-40°	0.335	0.028	-15.52	71.62 m	77.01 m	113.57 dBu	87.90 m	112.52 dBu
-45°	0.434	0.047	-13.27	92.78 m	70.00 m	116.75 dBu	79.90 m	115.60 dBu
-50°	0.485	0.059	-12.31	103.68 m	64.62 m	118.41 dBu	73.76 m	117.26 dBu
-55°	0.494	0.061	-12.15	105.61 m	60.43 m	119.15 dBu	68.97 m	118.00 dBu
-60°	0.469	0.055	-12.60	100.26 m	57.16 m	119.18 dBu	65.24 m	118.03 dBu
-65°	0.418	0.044	-13.60	89.36 m	54.62 m	118.58 dBu	62.34 m	117.43 dBu
-70°	0.351	0.031	-15.11	75.04 m	52.68 m	117.37 dBu	60.13 m	116.22 dBu
-75°	0.272	0.018	-17.33	58.15 m	51.25 m	115.40 dBu	58.49 m	114.25 dBu
-80°	0.186	0.009	-20.63	39.76 m	50.26 m	112.26 dBu	57.37 m	111.12 dBu
-85°	0.096	0.002	-26.38	20.52 m	49.69 m	106.62 dBu	56.72 m	105.47 dBu
-90°	0.001	0.000	-66.02	0.21 m	49.50 m	67.01 dBu	56.50 m	65.86 dBu

Scale 1:585,428



VSOFT 03 SEC Terrain Database

V-Soft Communications LLC ©

EXHIBIT 13.2

Aerial Photo showing proposed antenna site with 70 meter radius of vacant land surrounding the site

