

MINOR CHANGE APPLICATION
MODIFY BP-20080227ACB
CUMULUS LICENSING LLC
WTOD AM RADIO STATION
has: 1560 kHz - 5.0 kW - DAD
req: 1560 kHz - 0.003/0.92/1.5 kW - ND
TOLEDO, OHIO
October 2009

EXHIBIT #4A

Present Critical Hours Radiation Report / WOEW

Interpolation factors for 1560 kHz:

K(500) = 0.000

K(1000) = 0.067

K(1600) = 0.933

Critical Hours Radiation Report - Current License

Call: WTOD Freq: 1560 kHz TOLEDO, OH, US Lat: 41-36-59 N Lng: 083-37-22 W
Power: 5.0 kW Theo RMS: 631.51 mV/m @ 1km @ 5.0 kW
of Augmentations: 1

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	115.5	0	0	0.0	0.0	0.0	0.0
2	0.580	20.0	180.0	90.0	115.5	0	0	0.0	0.0	0.0	0.0

Call: WOEW Freq: 1560 kHz NEW YORK, NY, US Lat: 40-43-00 N Lng: 073-55-04 W
Power: 50.0 kW Theo RMS: 2655.42 mV/m @ 1km @ 50.0 kW
of Augmentations: 1

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	171.0	0	0	0.0	0.0	0.0	0.0
2	0.522	62.6	125.0	180.0	171.0	0	0	0.0	0.0	0.0	0.0

Permissible radiation calculated using FCC 73.190 curves.

Class A Azimuth (deg)	Reference Azimuth (deg)	Distance to 0.1 mV (km) / (mi)	Max Vert Angle (deg)	Max Rad Below Ang (mV/m@1km)	Permiss Radiation (mV/m@1km)	Margin (mV/m@1km)
351.63	81.70	782.5 /	486.2	15.2	321.18	231.4 -89.8
343.39	82.00	758.0 /	471.0	15.8	321.73	227.0 -94.8
333.33	83.00	730.7 /	454.1	16.5	323.42	221.9 -101.5
327.73	84.00	719.0 /	446.8	16.8	324.92	219.7 -105.2
321.03	85.00	704.3 /	437.6	17.1	326.20	216.9 -109.3
315.07	86.00	692.4 /	430.2	17.5	327.26	214.5 -112.7
309.81	87.00	683.4 /	424.6	17.7	328.10	212.7 -115.3
305.00	88.00	676.6 /	420.4	17.9	328.69	211.4 -117.3
300.51	89.00	671.7 /	417.4	18.1	329.06	210.3 -118.8
296.19	90.00	668.4 /	415.3	18.2	329.18	209.5 -119.6
291.98	91.00	666.6 /	414.2	18.2	329.05	209.4 -119.7
287.71	92.00	664.8 /	413.1	18.3	328.67	209.2 -119.5
283.42	93.00	661.8 /	411.2	18.4	328.04	208.8 -119.3
279.28	94.00	658.0 /	408.9	18.5	327.17	208.2 -118.9
275.36	95.00	654.8 /	406.9	18.6	326.06	207.8 -118.3
271.59	96.00	653.2 /	405.9	18.6	324.71	207.7 -117.0
267.77	97.00	654.2 /	406.5	18.6	323.14	208.0 -115.1
263.68	98.00	658.5 /	409.2	18.5	321.36	209.0 -112.4
258.98	99.00	666.7 /	414.3	18.2	319.37	210.6 -108.8
253.53	100.00	678.0 /	421.3	17.9	317.20	212.8 -104.4
246.07	101.00	696.6 /	432.8	17.4	314.86	216.4 -98.5
227.40	102.00	746.8 /	464.0	16.1	312.36	225.7 -86.6
192.23	103.00	826.0 /	513.2	14.3	309.74	240.7 -69.1

Clipped at 0.09 mV/m

MINOR CHANGE APPLICATION
MODIFY BP-20080227ACB
CUMULUS LICENSING LLC
WTOD AM RADIO STATION
has: 1560 kHz - 5.0 kW - DAD
req: 1560 kHz - 0.003/0.92/1.5 kW - ND
TOLEDO, OHIO
October 2009

EXHIBIT #4B

Proposed Critical Hours Radiation Report / WQEW

Interpolation factors for 1560 kHz:

K(500) = 0.000 K(1000) = 0.067 K(1600) = 0.933

Critical Hours Radiation Report - Proposed Operation

Call: WTOD Freq: 1560 kHz TOLEDO, OH, US Lat: 41-37-00 N Lng: 083-37-17 W
Power: 0.92 kW Theo RMS: 322.00 mV/m @ 1km @ 1kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	115.3	0	0	0.0	0.0	0.0	0.0

Call: WQEW Freq: 1560 kHz NEW YORK, NY, US Lat: 40-43-00 N Lng: 073-55-04 W
Power: 50.0 kW Theo RMS: 2655.42 mV/m @ 1km @ 50.0 kW
of Augmentations: 1

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	171.0	0	0	0.0	0.0	0.0	0.0
2	0.522	62.6	125.0	180.0	171.0	0	0	0.0	0.0	0.0	0.0

Permissible radiation calculated using FCC 73.190 curves.

Class	Azimuth (deg)	Reference Azimuth (deg)	Distance to 0.1 mV (km) / (mi)	Max Vert Angle (deg)	Max Rad Below Ang (mV/m@1km)	Permiss Radiation (mV/m@1km)	Margin (mV/m@1km)
*	351.71	81.70	782.6 / 486.3	15.2	308.85	231.4	-77.4
*	343.43	82.00	758.0 / 471.0	15.8	308.85	227.0	-81.9
*	333.34	83.00	730.6 / 454.0	16.5	308.85	221.9	-87.0
*	327.74	84.00	718.9 / 446.7	16.8	308.85	219.7	-89.2
*	321.05	85.00	704.2 / 437.6	17.2	308.85	216.8	-92.0
*	315.09	86.00	692.3 / 430.2	17.5	308.85	214.5	-94.3
*	309.83	87.00	683.3 / 424.6	17.7	308.85	212.7	-96.1
*	305.02	88.00	676.5 / 420.4	17.9	308.85	211.3	-97.5
*	300.52	89.00	671.6 / 417.3	18.1	308.85	210.3	-98.6
*	296.21	90.00	668.3 / 415.3	18.2	308.85	209.5	-99.3
*	292.00	91.00	666.5 / 414.2	18.2	308.85	209.3	-99.5
*	287.73	92.00	664.7 / 413.0	18.3	308.85	209.1	-99.7
*	283.43	93.00	661.7 / 411.1	18.4	308.85	208.7	-100.1
*	279.29	94.00	657.9 / 408.8	18.5	308.85	208.2	-100.6
*	275.38	95.00	654.7 / 406.8	18.6	308.85	207.8	-101.1
*	271.60	96.00	653.1 / 405.8	18.6	308.85	207.7	-101.2
*	267.79	97.00	654.1 / 406.5	18.6	308.85	208.0	-100.8
*	263.70	98.00	658.3 / 409.1	18.5	308.85	208.9	-99.9
*	253.56	99.00	842.7 / 523.6	13.9	308.85	242.6	-66.3
*	246.12	100.00	677.8 / 421.1	17.9	308.85	212.7	-96.1
*	246.12	101.00	696.3 / 432.7	17.4	308.85	216.3	-92.5
*	227.49	102.00	746.5 / 463.8	16.1	308.85	225.7	-83.2
*	192.24	103.00	825.8 / 513.1	14.3	308.85	240.6	-68.2

-----00+~~~

* - Reduced from current level - See Exhibit 4A