

CH 6 TV Protection

The Channel 6 TV station that is within the 193 km required study distance for FM Channel 213 is as follows:

WABW-TV CPM 06 3E Dom Int 10.500 kW 379 M HAAT T
Pelham GA 462.4 M COR AMSL
Lat= 31 08 05.0, Lng= 84 06 16.0
Georgia Public Telecommunica BMPEDT20080619AKP
Fac ID# 23917
Dist.=164.73 km, Azi=150.8°, Rev Azi=331.2°

Direct line HAAT Grade B, 47 dBu= 87.05 km & Grade A= 40.07 km

Distance from reference to Grade B = 77.69 km
Cutoff Dist from Full Service or Class CA= 193
Maximum Co-located power= 38 kW
WABW-T Signal Contour at Reference location = 22.9 dBu
CH. 213, U/D ratio = 22.5 dB, Maximum FM signal = 69.5 dBu , add 6 dB if within angle.

TV/FM D to U values

47.0	69.5		55.0	68.7		63.0	70.2		71.0	74.9		79.0	81.2		87.0	87.9
48.0	69.3		56.0	68.8		64.0	70.7		72.0	75.6		80.0	82.0		88.0	88.7
49.0	69.0		57.0	68.8		65.0	71.1		73.0	76.4		81.0	82.8		89.0	89.6
50.0	68.8		58.0	68.9		66.0	71.7		74.0	77.2		82.0	83.7		90.0	90.5
51.0	68.8		59.0	69.0		67.0	72.2		75.0	78.0		83.0	84.5		91.0	90.5
52.0	68.7		60.0	69.3		68.0	72.8		76.0	78.8		84.0	85.3		92.0	90.5
53.0	68.7		61.0	69.5		69.0	73.5		77.0	79.6		85.0	86.2		93.0	90.5
54.0	68.7		62.0	69.8		70.0	74.2		78.0	80.4		86.0	87.0		94.0	90.5

As is referenced in the detailed information on the following pages of this Exhibit, there is no overlap of the 69.5 dBu FM interference contour to the corresponding 47.0 dBu Channel 6 TV protected contour, therefore the proposed CP modification of WFRC is in compliance with all requirements of Section 73.525 with regard to Channel 6 TV protection.

CH 6 TV Protection

Tabulation of
WABW-TV CH 6 47.0 dBu protected contour & FM CH 213, WFRC (CP MOD)) 69.5 dBu interference contour

WABW-TV
 CH 6
 10.5 kW
 462.4 M COR AMSL
 31 08 05 / 84 06 16

WFRC (CP MOD)
 CH 213 C3
 25.0 kW
 174 M COR AMSL
 32 25 58 / 84 57 02

47 dBu Protected

69.5 dBu Interference

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
310.0	010.5000	0406.6	087.5	171.7	025.0000	0081.2	088.6	44.80
311.0	010.5000	0406.3	087.5	170.9	025.0000	0080.5	087.6	45.02
312.0	010.5000	0405.9	087.5	170.1	025.0000	0080.1	086.7	45.25
313.0	010.5000	0405.7	087.5	169.3	025.0000	0080.0	085.8	45.49
314.0	010.5000	0405.6	087.5	168.5	025.0000	0079.7	084.9	45.71
315.0	010.5000	0405.5	087.5	167.6	025.0000	0079.5	084.0	45.92
316.0	010.5000	0405.4	087.5	166.7	025.0000	0078.8	083.3	46.10
317.0	010.5000	0405.2	087.4	165.8	025.0000	0078.2	082.5	46.26
318.0	010.5000	0405.0	087.4	164.9	025.0000	0077.8	081.8	46.43
319.0	010.5000	0404.6	087.4	163.9	025.0000	0077.8	081.2	46.60
320.0	010.5000	0404.3	087.4	162.9	025.0000	0078.1	080.6	46.77
321.0	010.5000	0403.9	087.4	161.9	025.0000	0078.6	080.0	46.95
322.0	010.5000	0403.7	087.3	160.8	025.0000	0079.2	079.5	47.11
323.0	010.5000	0403.5	087.3	159.8	025.0000	0080.0	079.1	47.27
324.0	010.5000	0403.2	087.3	158.7	025.0000	0080.6	078.7	47.41
325.0	010.5000	0402.9	087.3	157.7	025.0000	0080.8	078.3	47.52
326.0	010.5000	0402.6	087.3	156.6	025.0000	0080.7	078.0	47.59
327.0	010.5000	0402.3	087.2	155.5	025.0000	0080.1	077.8	47.62
328.0	010.5000	0401.9	087.2	154.3	025.0000	0079.3	077.6	47.62
329.0	010.5000	0401.4	087.2	153.2	025.0000	0078.2	077.5	47.59
330.0	010.5000	0400.8	087.1	152.1	025.0000	0077.1	077.5	47.54
331.0	010.5000	0399.8	087.1	151.0	025.0000	0076.1	077.5	47.47
332.0	010.5000	0398.5	087.0	149.9	025.0000	0075.1	077.7	47.39
333.0	010.5000	0397.1	086.9	148.7	025.0000	0074.4	077.8	47.30
334.0	010.5000	0395.9	086.8	147.6	025.0000	0073.9	078.1	47.21
335.0	010.5000	0395.3	086.7	146.5	025.0000	0073.4	078.3	47.12
336.0	010.5000	0394.9	086.7	145.5	025.0000	0072.8	078.6	47.01
337.0	010.5000	0394.1	086.7	144.4	025.0000	0072.1	078.9	46.88
338.0	010.5000	0392.9	086.6	143.3	025.0000	0071.4	079.4	46.73
339.0	010.5000	0391.5	086.5	142.3	025.0000	0070.6	079.9	46.56
340.0	010.5000	0390.1	086.4	141.3	025.0000	0070.0	080.4	46.38
341.0	010.5000	0388.7	086.3	140.3	025.0000	0069.4	081.0	46.19
342.0	010.5000	0387.4	086.2	139.3	025.0000	0068.8	081.7	46.00
343.0	010.5000	0386.3	086.1	138.4	025.0000	0068.3	082.3	45.80
344.0	010.5000	0385.4	086.0	137.5	025.0000	0068.1	083.0	45.61
345.0	010.5000	0384.7	086.0	136.6	025.0000	0068.1	083.8	45.42
346.0	010.5000	0383.9	085.9	135.7	025.0000	0068.4	084.6	45.23
347.0	010.5000	0383.1	085.9	134.9	025.0000	0068.8	085.4	45.04
348.0	010.5000	0382.1	085.8	134.0	025.0000	0069.2	086.3	44.83
349.0	010.5000	0381.1	085.7	133.2	025.0000	0069.4	087.2	44.61
350.0	010.5000	0380.0	085.7	132.5	025.0000	0069.5	088.1	44.37

CH 6 TV Protection

Map of
WABW-TV CH 6 47.0 dBu protected contour & FM CH 213, WFRC (CP MOD)) 69.5 dBu interference contour

