

Television Channel 6 Protection

The affected Channel 6 TV stations that are located within the required study distance of 265 km for FM CH 201 are as follows:

KFDM TV LI 06- 3C Dom 100.000 kW 293 M HAAT V H
 Beaumont TX 298M COR AMSL
 Lat= 30 08 24, Lng= 93 58 44
 Freedom Broadcasting Of Te BLCT2049
 Fac ID# 22589
 Dist.=255.7095 km, Azi=53.9°, Rev Azi=234.9°

Direct line HAAT Grade B, 47 dBu= 103.25 km & Grade A= 54.1 km

Distance from reference to Grade B = 152.46 km
 Cutoff Dist from Full Service= 265
 Maximum Co-located power= 1.1 kW
 KFDM TV Signal Contour at Reference location = 16.0 dBu
 CH. 201, U/D ratio = 1.0 dB, Maximum FM signal = 48.0 dBu , add 6 dB if within angle.

KRISTV LI 06Z 3C Dom 100.000 kW 291 M HAAT VDH
 Corpus Christi TX 307M COR AMSL
 Lat= 27 44 28, Lng= 97 36 08
 Kvoa Communications, Inc. BLCT19880331KT
 Fac ID# 25559, Cutoff Date= 8
 Dist.=186.5028 km, Azi=231.2°, Rev Azi=50.5°

Direct line HAAT Grade B, 47 dBu= 103.39 km & Grade A= 54.21 km

Distance from reference to Grade B = 83.12 km
 Cutoff Dist from Full Service= 265
 Maximum Co-located power= 1.1 kW
 KRISTV Signal Contour at Reference location = 26.7 dBu
 CH. 201, U/D ratio = 1.0 dB, Maximum FM signal = 48.0 dBu , add 6 dB if within angle.

TV/FM D to U values

47.0	48.0	55.0	53.7	63.0	59.4	71.0	66.1	79.0	73.4	87.0	80.7
48.0	48.7	56.0	54.4	64.0	60.1	72.0	67.0	80.0	74.3	88.0	81.7
49.0	49.3	57.0	55.1	65.0	60.9	73.0	67.9	81.0	75.2	89.0	82.6
50.0	50.0	58.0	55.7	66.0	61.7	74.0	68.7	82.0	76.1	90.0	83.5
51.0	50.7	59.0	56.4	67.0	62.6	75.0	69.7	83.0	77.0	91.0	83.5
52.0	51.5	60.0	57.1	68.0	63.4	76.0	70.6	84.0	77.9	92.0	83.5
53.0	52.2	61.0	57.9	69.0	64.3	77.0	71.5	85.0	78.9	93.0	83.5
54.0	52.9	62.0	58.6	70.0	65.2	78.0	72.4	86.0	79.8	94.0	83.5

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This amendment to the pending minor modification proposes operation on CH 201 with a maximum ERP of 3.57 kW (Horizontal & Vertical), Directional, at a COR AMSL of 441 meters.

The FM interference contour for FM CH 201 corresponding to the CH 6 47 dBu protected contour is the 48.0 dBu. The 48.0 dBu FM interference contour does not overlap the 47.0 dBu protected contour of either KFDMTV or KRISTV, therefore KEDR is in full compliance with Section 73.525.

Tabulation of KFDMTV CH 6 Protected 47.0 dBu Contour & KEDR AMENDED 48.0 FM Interference Contour

KFDMTV (LIC)
 CH 6 TV
 100 kW ERP
 298 M COR AMSL
 30 08 24 / 93 58 44

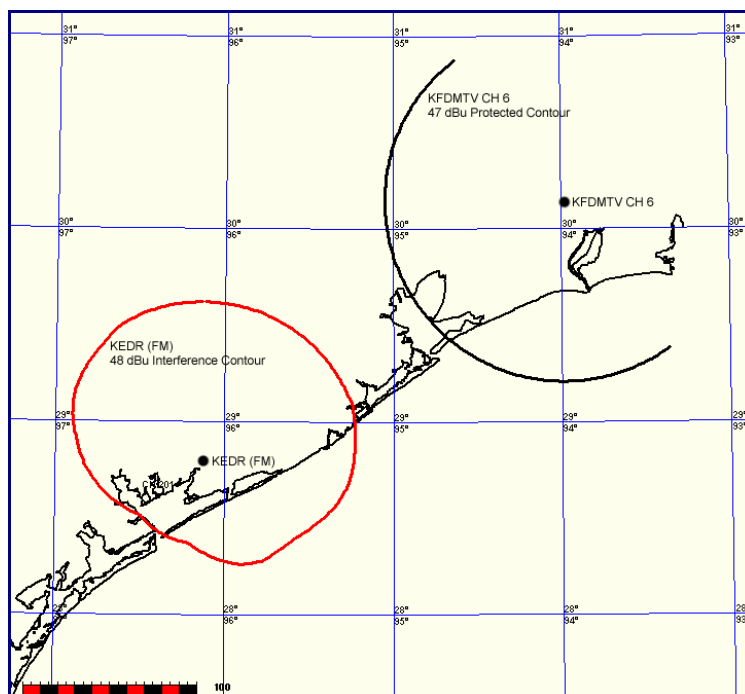
KEDR (CP) MOD
 FM CH 201
 3.57 kW ERP
 441 M COR AMSL
 28 48 03 / 96 07 32

47.0 dbu Protected

48.0 dBu Interference

Azimuth	ERP (kW)	HAAT (M)	Distance (km)	Azimuth	ERP (kW)	HAAT (M)	Distance (km)	Actual dBu
210	100.0	296.7	103.3	69.4	3.570	434.9	167.9	29.1
220	100.0	296.9	103.3	64.1	3.570	434.9	158.5	31.1
230	100.0	296.4	103.3	57.7	3.570	434.9	153.5	32.1
240	100.0	296.5	103.3	51.0	3.570	434.9	153.6	32.1
250	100.0	296.5	103.3	44.6	3.570	434.9	158.9	31.0
260	100.0	296.6	103.3	39.3	3.570	434.9	168.6	29.0
270	100.0	296.9	103.3	35.3	3.570	434.9	181.8	26.2

Map of KFDMTV CH 6 Protected 47.0 dBu Contour & KEDR AMENDED 48.0 FM Interference Contour



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Tabulation of KRISTV CH 6 Protected 47.0 dBu Contour & KEDR AMENDED 48.0 FM Interference Contour

KRISTV (LIC)
 CH 6 TV
 100 kW ERP
 307 M COR AMSL
 27 44 28 / 97 36 08

KEDR (CP) MOD
 FM CH 201
 3.57 kW ERP
 441 M COR AMSL
 28 48 03 / 96 07 32

47.0 dBu Protected

48.0 dBu Interference

Azimuth	ERP (kW)	HAAT (M)	Distance (km)	Azimuth	ERP (kW)	HAAT (M)	Distance (km)	Actual dBu
0	100.0	292.3	102.9	264.2	.514	435.0	145.0	25.5
10	100.0	295.0	103.1	262.8	.482	435.2	127.3	29.6
20	100.0	295.4	103.2	259.3	.408	436.5	110.9	33.1
30	100.0	296.3	103.2	253.2	.314	437.0	96.8	35.9
40	100.0	298.1	103.4	243.9	.207	437.8	86.8	37.2
50	100.0	298.3	103.4	232.0	.124	440.4	82.8	36.4
60	100.0	295.4	103.2	220.0	.113	441.0	85.9	35.0
70	100.0	294.8	103.1	210.1	.113	441.0	95.0	32.1
80	100.0	296.5	103.3	203.4	.113	441.0	108.4	28.3

Map of KRISTV CH 6 Protected 47.0 dBu Contour & KEDR AMENDED 48.0 FM Interference Contour

