



State Borders Lat/Lon Grid

Project: KVRX

SOURCE COORDINATES: 30-16-00 North 97-40-27 West

Antenna Center Above Sea Level: 193.0 METERS

Educational Channel 219 within KCEN-TV Channel 6 Contour

6 dB adjustment is NOT used at appropriate azimuths

Directional Antenna used with FM station

AZM Deg	HAAT Mtrs	ERP (kW)	dBu (km)	FM (dBu)	TV (dBu)	Ratio (dBu)
0	-1	50.00	7.4	82.3	51.4	31.0
5	5	50.00	7.4	82.3	51.5	30.9
10	9	50.00	7.4	82.3	51.6	30.8
15	14	50.00	7.4	82.3	51.6	30.8
20	18	50.00	7.4	82.3	51.6	30.8
25	19	50.00	7.4	82.3	51.6	30.8
30	15	50.00	7.4	82.3	51.6	30.8
35	14	50.00	7.4	82.3	51.6	30.8
40	14	50.00	7.4	82.3	51.5	30.9
45	17	50.00	7.4	82.3	51.4	31.0
50	19	50.00	7.4	82.3	51.3	31.1
55	22	50.00	7.4	82.3	51.2	31.2
60	25	50.00	7.4	82.3	51.0	31.4
65	24	50.00	7.4	82.3	50.9	31.5
70	23	50.00	7.4	82.3	50.7	31.7
75	24	50.00	7.4	82.3	50.6	31.8
80	27	50.00	7.4	82.3	50.4	32.0
85	34	50.00	7.8	82.4	50.2	32.2
90	40	50.00	8.5	82.4	50.1	32.3
95	49	50.00	9.5	82.4	49.9	32.5
100	55	50.00	10.0	82.5	49.6	32.8
105	62	50.00	10.6	82.5	49.4	33.1
110	65	50.00	10.8	82.6	49.1	33.5
115	66	50.00	10.9	82.6	48.8	33.9
120	67	50.00	10.9	82.7	48.4	34.3
125	67	50.00	10.8	82.8	48.1	34.6
130	65	50.00	10.7	82.8	47.8	35.0
135	62	50.00	10.4	82.9	47.6	35.3
140	60	50.00	10.2	82.9	47.4	35.5
145	58	50.00	10.0	83.0	47.2	35.8
150	57	50.00	9.9	83.0	47.0	36.0
155	53	50.00	9.6	82.9	46.9	36.0
160	51	50.00	8.4	73.6	47.0	0.0
165	49	50.00	7.8	73.3	47.0	0.0
170	47	50.00	7.4	72.9	47.0	0.0
175	44	50.00	7.1	72.2	47.0	0.0

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Directional Antenna used with FM station

AZM Deg	HAAT Mtrs	ERP (kW)	dBu (km)	FM (dBu)	TV (dBu)	Ratio (dBu)
180	39	39.69	6.9	70.1	47.0	0.0
185	38	31.52	7.2	82.7	46.8	36.0
190	34	24.99	6.4	82.8	47.0	36.0
195	23	19.84	5.7	82.8	47.2	35.7
200	20	15.79	5.4	82.7	47.3	35.6
205	24	12.55	5.1	82.7	47.4	35.5
210	30	9.9458	4.8	82.7	47.5	35.4
215	29	8.8620	4.6	82.9	47.6	35.3
220	24	7.9202	4.5	82.8	47.7	35.2
225	21	6.2658	4.3	82.5	47.8	35.1
230	20	4.9928	4.0	82.8	47.9	34.9
235	15	4.0898	3.8	82.8	48.0	34.8
240	13	3.6180	3.7	82.7	48.1	34.7
245	14	3.3800	3.7	82.4	48.2	34.6
250	17	3.2512	3.6	82.7	48.3	34.5
255	20	3.2768	3.7	82.3	48.3	34.4
260	21	3.1752	3.6	82.6	48.4	34.3
265	22	3.2004	3.6	82.7	48.5	34.2
270	23	3.2512	3.6	82.7	48.6	34.1
275	10	3.3800	3.7	82.4	48.7	34.0
280	3	3.9480	3.8	82.6	48.8	33.8
285	0	4.4402	4.0	82.2	48.9	33.7
290	5	4.9928	4.1	82.3	49.0	33.6
295	7	6.2658	4.3	82.5	49.1	33.4
300	11	7.9202	4.6	82.4	49.2	33.3
305	18	9.9458	4.9	82.3	49.4	33.1
310	4	12.55	5.2	82.3	49.6	32.9
315	-4	15.79	5.5	82.4	49.7	32.7
320	-20	19.84	5.9	82.2	50.0	32.5
325	-19	24.99	6.2	82.3	50.2	32.2
330	-23	31.52	6.6	82.2	50.4	32.0
335	-26	39.69	7.0	82.2	50.6	31.8
340	-23	50.00	7.4	82.3	50.9	31.5
345	-16	50.00	7.4	82.3	51.0	31.4
350	-13	50.00	7.4	82.3	51.2	31.2
355	-9	50.00	7.4	82.3	51.3	31.1

Area within the Interference Contour: 112.2 Sq.Km.

EXHIBIT 19 CHANNEL 6 TV STUDY

08-20-2007

Project: KVRX

SOURCE COORDINATES: 30-16-00 North 97-40-27 West

Antenna Center Above Sea Level: 193.0 METERS

Educational Channel 219 within KFLZCA Channel 6 Contour

6 dB adjustment is NOT used at appropriate azimuths

Directional Antenna used with FM station

AZM Deg	HAAT Mtrs	ERP (kW)	dBu (km)	FM (dBu)	TV (dBu)	Ratio (dBu)
0	-1	50.00	7.1	83.0	0.0	0.0
5	5	50.00	7.1	83.0	0.0	0.0
10	9	50.00	7.1	83.0	0.0	0.0
15	14	50.00	7.1	83.0	0.0	0.0
20	18	50.00	7.1	83.0	0.0	0.0
25	19	50.00	7.1	83.0	0.0	0.0
30	15	50.00	7.1	83.0	0.0	0.0
35	14	50.00	7.1	83.0	0.0	0.0
40	14	50.00	7.1	83.0	0.0	0.0
45	17	50.00	7.1	83.0	0.0	0.0
50	19	50.00	7.1	83.0	0.0	0.0
55	22	50.00	7.1	83.0	0.0	0.0
60	25	50.00	7.1	83.0	0.0	0.0
65	24	50.00	7.1	83.0	0.0	0.0
70	23	50.00	7.1	83.0	0.0	0.0
75	24	50.00	7.1	83.0	0.0	0.0
80	27	50.00	7.1	83.0	0.0	0.0
85	34	50.00	7.5	83.0	0.0	0.0
90	40	50.00	8.2	83.0	0.0	0.0
95	49	50.00	9.2	83.0	0.0	0.0
100	55	50.00	9.7	83.0	0.0	0.0
105	62	50.00	10.3	83.0	0.0	0.0
110	65	50.00	10.6	83.0	0.0	0.0
115	66	50.00	10.6	83.0	0.0	0.0
120	67	50.00	10.7	83.0	0.0	0.0
125	67	50.00	10.7	83.0	0.0	0.0
130	65	50.00	10.6	83.0	0.0	0.0
135	62	50.00	10.3	83.0	0.0	0.0
140	60	50.00	10.2	83.0	0.0	0.0
145	58	50.00	10.0	83.0	0.0	0.0
150	57	50.00	9.9	83.0	0.0	0.0
155	53	50.00	9.5	83.0	0.0	0.0
160	51	50.00	9.4	83.0	0.0	0.0
165	49	50.00	9.2	83.0	0.0	0.0
170	47	50.00	8.9	83.0	0.0	0.0
175	44	50.00	8.6	83.0	0.0	0.0

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08-20-2007

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185	38	31.52	7.1	83.0	0.0	0.0
190	34	24.99	6.3	83.0	0.0	0.0
195	23	19.84	5.6	83.0	0.0	0.0
200	20	15.79	5.3	83.0	0.0	0.0
205	24	12.55	5.0	83.0	0.0	0.0
210	30	9.9458	4.7	83.0	0.0	0.0
215	29	8.8620	4.6	83.0	0.0	0.0
220	24	7.9202	4.4	83.0	0.0	0.0
225	21	6.2658	4.2	83.0	0.0	0.0
230	20	4.9928	3.9	83.0	0.0	0.0
235	15	4.0898	3.8	83.0	0.0	0.0
240	13	3.6180	3.6	83.0	0.0	0.0
245	14	3.3800	3.6	83.0	0.0	0.0
250	17	3.2512	3.5	83.0	0.0	0.0
255	20	3.2768	3.6	83.0	0.0	0.0
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265	22	3.2004	3.5	83.0	0.0	0.0
270	23	3.2512	3.5	83.0	0.0	0.0
275	10	3.3800	3.6	83.0	0.0	0.0
280	3	3.9480	3.7	83.0	0.0	0.0
285	0	4.4402	3.8	83.0	0.0	0.0
290	5	4.9928	3.9	83.0	0.0	0.0
295	7	6.2658	4.2	83.0	0.0	0.0
300	11	7.9202	4.4	83.0	0.0	0.0
305	18	9.9458	4.7	83.0	0.0	0.0
310	4	12.55	5.0	83.0	0.0	0.0
315	-4	15.79	5.3	83.0	0.0	0.0
320	-20	19.84	5.6	83.0	0.0	0.0
325	-19	24.99	6.0	83.0	0.0	0.0
330	-23	31.52	6.3	83.0	0.0	0.0
335	-26	39.69	6.7	83.0	0.0	0.0
340	-23	50.00	7.1	83.0	0.0	0.0
345	-16	50.00	7.1	83.0	0.0	0.0
350	-13	50.00	7.1	83.0	0.0	0.0
355	-9	50.00	7.1	83.0	0.0	0.0

The FM contour does NOT cross the TV 47 dBu



KCEN-TV/DT



**WHERE
CENTRAL TEXAS
COMES FIRST**

Waco 88
Temple 84
Killeen 86

Monday, August 20, 2007

KCEN-TV/DT

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