

14th Channel Waiver

According to the new FCC rule 74.705 (d)(5)

Subpart G--Low Power TV, TV Translator, and TV Booster Stations

Sec. 74.705 TV broadcast analog station protection.

(d) A low power TV, TV translator, or TV booster station application will not be accepted if the ratio in dB of its field strength to that of the TV broadcast station at the protected contour fails to meet the following:

(5) 23 dB when the protected TV broadcast station operates on a UHF channel that is fourteen channels below the requested channel.

Please find attached a study which shows the proposed signal does not exceed a ratio of desired to undesired that exceeds the required +23 db within the TV broadcast stations protected contour, therefore, the station complies with the FCC rule and does not cause harmful interference to KPAZ, Channel 21.

Contour At A Bearing of 0 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.76	2.36	3.55	4.74	5.93	11.88	17.84
Bearing-Deg	354.96	356.23	357.50	358.13	358.50	359.25	359.50
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	495.83	495.55	495.27	495.13	495.05	494.88	494.83
Field Strength	132.51	129.79	125.86	122.87	120.35	111.18	105.15
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.99	13.68	9.21	6.93	5.56	2.78	1.86
ERP-dBk	-6.11	-6.11	-6.11	2.25	3.16	13.23	15.88
HAAT-m	487.20	486.91	486.62	486.48	486.39	486.22	486.17
Field Strength	96.80	94.09	90.35	95.72	94.27	95.56	92.94
Difference	-35.71	-35.70	-35.51	-27.15	-26.09	-15.62	-12.21

Contour At A Bearing of 30 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.59	2.14	3.26	4.37	5.48	11.05	16.62
Bearing-Deg	17.37	18.62	19.82	20.41	20.76	21.45	21.67
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	497.85	498.32	498.77	498.31	497.85	496.95	496.65
Field Strength	133.48	130.68	126.76	123.72	121.25	112.20	106.47
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.04	13.74	9.26	6.97	5.58	2.79	1.86
ERP-dBk	-6.28	-6.28	-6.28	2.00	3.04	13.02	15.70
HAAT-m	488.48	488.88	489.26	488.84	488.43	487.63	487.37
Field Strength	96.62	93.92	90.18	95.47	94.16	95.37	92.77
Difference	-36.86	-36.76	-36.57	-28.25	-27.09	-16.83	-13.69

Contour At A Bearing of 60 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.27	1.74	2.68	3.62	4.56	9.26	13.95
Bearing-Deg	47.32	48.23	49.09	49.50	49.74	50.21	50.36
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	445.34	442.50	439.80	438.53	437.77	436.32	435.87
Field Strength	135.55	132.53	128.38	125.37	122.90	113.89	108.04
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.22	12.24	8.18	6.13	4.91	2.45	1.63
ERP-dBk	-7.83	-7.83	-7.83	2.24	0.30	12.64	14.46
HAAT-m	436.47	433.72	431.11	429.88	429.14	427.67	427.18
Field Strength	95.02	92.25	88.32	95.39	91.05	94.20	90.21
Difference	-40.52	-40.29	-40.06	-29.98	-31.85	-19.69	-17.83

Contour At A Bearing of 90 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.10	1.52	2.36	3.20	4.04	8.24	12.44
Bearing-Deg	91.60	91.16	90.74	90.55	90.43	90.21	90.14
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	459.63	459.41	459.20	459.10	459.04	458.92	458.89
Field Strength	136.89	133.83	129.66	126.76	124.30	115.80	110.04
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.66	12.65	8.50	6.40	5.12	2.57	1.71
ERP-dBk	-12.13	-12.13	-12.13	-2.58	-4.05	7.96	10.06
HAAT-m	449.01	448.77	448.54	448.43	448.37	448.24	448.20
Field Strength	90.74	87.99	84.11	90.90	86.83	89.80	86.18
Difference	-46.15	-45.84	-45.55	-35.86	-37.47	-26.00	-23.86

Contour At A Bearing of 120 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.32	1.78	2.72	3.66	4.60	9.30	14.00
Bearing-Deg	134.65	133.25	131.89	131.23	130.84	130.07	129.81
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	477.70	477.16	476.65	476.40	476.25	475.96	475.80
Field Strength	135.24	132.37	128.37	125.44	123.05	114.32	108.64
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.35	13.17	8.86	6.66	5.34	2.67	1.78
ERP-dBk	-20.09	-20.09	-20.09	-11.10	-11.41	-0.36	2.00
HAAT-m	468.55	467.99	467.44	467.18	467.03	466.72	466.55
Field Strength	82.80	80.07	76.23	82.25	79.60	81.73	78.44
Difference	-52.45	-52.30	-52.15	-43.19	-43.45	-32.59	-30.20

Contour At A Bearing of 150 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.65	2.20	3.31	4.43	5.54	11.11	16.68
Bearing-Deg	163.27	161.89	160.54	159.86	159.46	158.65	158.37
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	486.33	486.25	486.18	486.16	486.20	486.29	486.31
Field Strength	133.13	130.40	126.52	123.51	121.05	111.99	106.23
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.65	13.42	9.04	6.80	5.45	2.73	1.82
ERP-dBk	-22.03	-22.03	-22.03	-13.36	-13.03	-2.51	0.01
HAAT-m	477.21	477.19	477.17	477.18	477.25	477.38	477.43
Field Strength	80.87	78.15	74.40	80.05	78.01	79.71	76.93
Difference	-52.26	-52.24	-52.12	-43.46	-43.04	-32.28	-29.31

Contour At A Bearing of 180 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.82	2.42	3.61	4.80	5.99	11.94	17.90
Bearing-Deg	184.87	183.67	182.46	181.85	181.48	180.74	180.50
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	491.22	491.22	491.21	491.21	491.21	491.21	491.21
Field Strength	132.18	129.53	125.67	122.71	120.21	111.06	105.03
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.82	13.55	9.13	6.87	5.51	2.76	1.84
ERP-dBk	-20.53	-20.53	-20.53	-12.02	-11.40	-1.11	1.48
HAAT-m	482.08	482.02	481.96	481.94	481.92	481.88	481.87
Field Strength	82.37	79.66	75.91	81.42	79.68	81.17	78.47
Difference	-49.81	-49.88	-49.76	-41.29	-40.53	-29.89	-26.56

Contour At A Bearing of 210 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.76	2.32	3.43	4.54	5.66	11.23	16.79
Bearing-Deg	206.42	205.41	204.35	203.81	203.48	202.83	202.61
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	485.00	485.30	485.62	485.78	485.87	486.07	486.13
Field Strength	132.49	129.92	126.16	123.24	120.81	111.84	106.11
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.63	13.41	9.04	6.81	5.46	2.74	1.83
ERP-dBk	-22.03	-22.03	-22.03	-13.37	-13.02	-2.52	0.01
HAAT-m	476.60	476.95	477.31	477.49	477.60	477.82	477.90
Field Strength	80.87	78.15	74.40	80.04	78.03	79.71	76.93
Difference	-51.62	-51.76	-51.76	-43.19	-42.78	-32.14	-29.17

Contour At A Bearing of 240 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.55	2.02	2.96	3.90	4.84	9.54	14.24
Bearing-Deg	233.42	232.78	232.12	231.77	231.56	231.13	230.99
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	469.58	471.46	473.43	474.47	475.09	476.37	476.79
Field Strength	133.68	131.18	127.57	124.77	122.51	113.97	108.43
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.98	12.94	8.74	6.59	5.29	2.66	1.77
ERP-dBk	-20.09	-20.09	-20.09	-10.95	-11.54	-0.30	2.02
HAAT-m	457.88	459.54	461.27	462.19	462.73	463.85	464.23
Field Strength	82.79	80.05	76.20	82.38	79.40	81.75	78.41
Difference	-50.89	-51.13	-51.37	-42.39	-43.11	-32.22	-30.01

Contour At A Bearing of 270 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.41	1.83	2.67	3.51	4.35	8.55	12.75
Bearing-Deg	268.75	269.04	269.34	269.50	269.60	269.80	269.87
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	441.61	441.45	441.28	441.19	441.13	441.02	440.98
Field Strength	134.53	132.04	128.41	125.70	123.42	115.08	109.41
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.18	12.27	8.25	6.20	4.97	2.49	1.66
ERP-dBk	-12.13	-12.13	-12.13	-2.19	-4.28	8.21	10.13
HAAT-m	435.26	435.06	434.85	434.73	434.67	434.52	434.48
Field Strength	90.73	87.95	84.04	90.99	86.51	89.87	86.01
Difference	-43.80	-44.08	-44.37	-34.71	-36.90	-25.20	-23.40

Contour At A Bearing of 300 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.51	1.98	2.92	3.86	4.80	9.50	14.19
Bearing-Deg	304.71	305.80	306.93	307.52	307.87	308.60	308.84
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	514.42	514.88	515.35	515.60	515.75	516.06	516.16
Field Strength	133.95	131.44	127.84	125.09	122.86	114.49	109.05
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.64	14.21	9.59	7.23	5.79	2.91	1.94
ERP-dBk	-7.83	-7.83	-7.83	-0.92	2.02	11.05	14.04
HAAT-m	505.85	506.36	506.88	507.15	507.32	507.65	507.77
Field Strength	95.09	92.41	88.63	92.65	93.30	93.64	91.11
Difference	-38.86	-39.03	-39.21	-32.43	-29.56	-20.86	-17.94

Contour At A Bearing of 330 Degrees From Proposed Station

KPAZ-TV Distance-Km	1.71	2.26	3.37	4.49	5.60	11.17	16.73
Bearing-Deg	332.66	333.93	335.23	335.88	336.28	337.07	337.35
ERP-dBk	31.11	31.11	31.11	31.11	31.11	31.11	31.11
HAAT-m	504.15	503.22	502.27	501.78	501.50	500.91	500.71
Field Strength	132.82	130.19	126.41	123.47	121.04	112.11	106.40
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.30	13.90	9.35	7.03	5.63	2.82	1.88
ERP-dBk	-6.28	-6.28	-6.28	1.74	3.18	12.92	15.67
HAAT-m	496.03	495.04	494.02	493.51	493.20	492.58	492.36
Field Strength	96.63	93.93	90.20	95.24	94.33	95.33	92.83
Difference	-36.19	-36.26	-36.21	-28.23	-26.71	-16.78	-13.58

DTV Adjacent Channel

According to the new FCC rule 74.706 (d)(2)

Subpart G--Low Power TV, TV Translator, and TV Booster Stations

Sec. 74.706 Digital TV (DTV) station protection.

(d) A low power TV, TV translator or TV booster station application will not be accepted if the ratio in dB of its field strength to that of the DTV station (L/D ratio) fails to meet the following:

(2) + 48 dB for adjacent channel operations at:

(i) The DTV noise-limited perimeter if a low power TV, TV translator or TV booster station is located outside that perimeter.

(ii) At all points within the DTV noise-limited area if a low power TV or TV translator is located within the DTV noise-limited perimeter, as demonstrated by the applicant.

Please find attached a study which shows the proposed signal does not exceed a ratio of desired to undesired that exceeds the required +48 db within the DTV noise-limited perimeter, therefore, the proposed station complies with the FCC rule and does not cause harmful interference to KTVW, Channel 34, and KPNX, Channel 36, both in Phoenix, AZ and co-located.

Contour At A Bearing of 0 Degrees From Proposed Station

KTVW-DT Distance-Km	1.82	2.41	3.60	4.80	5.99	11.94	17.90
Bearing-Deg	358.37	358.77	359.18	359.38	359.50	359.75	359.83
ERP-dBk	22.71	22.72	22.72	22.73	22.73	22.73	22.73
HAAT-m	530.13	530.04	529.95	529.91	529.88	529.83	529.81
Field Strength	123.88	121.27	117.47	114.58	112.12	103.24	97.15
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.97	13.67	9.21	6.93	5.55	2.78	1.86
ERP-dBk	-6.11	-6.11	-6.11	2.26	3.15	13.23	15.88
HAAT-m	486.43	486.33	486.24	486.20	486.17	486.11	486.09
Field Strength	96.80	94.09	90.35	95.72	94.26	95.56	92.94
Difference	-27.08	-27.18	-27.12	-18.85	-17.86	-7.68	-4.22

Contour At A Bearing of 30 Degrees From Proposed Station

KTVW-DT Distance-Km	1.68	2.24	3.35	4.46	5.58	11.15	16.71
Bearing-Deg	20.10	20.61	21.12	21.37	21.53	21.83	21.92
ERP-dBk	22.97	22.97	22.97	22.97	22.97	22.97	22.98
HAAT-m	533.06	532.42	531.79	531.48	531.29	530.92	530.80
Field Strength	124.87	122.23	118.46	115.56	113.16	104.42	98.78
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.06	13.73	9.24	6.95	5.57	2.79	1.86
ERP-dBk	-6.28	-6.28	-6.28	2.03	3.01	13.03	15.70
HAAT-m	489.20	488.60	488.01	487.72	487.54	487.20	487.08
Field Strength	96.63	93.92	90.18	95.51	94.13	95.37	92.77
Difference	-28.25	-28.31	-28.28	-20.05	-19.03	-9.05	-6.01

Contour At A Bearing of 60 Degrees From Proposed Station

KTVW-DT Distance-Km	1.39	1.86	2.80	3.74	4.68	9.38	14.07
Bearing-Deg	48.33	48.92	49.51	49.80	49.98	50.32	50.43
ERP-dBk	22.90	22.89	22.88	22.88	22.88	22.87	22.87
HAAT-m	474.98	473.07	471.17	470.24	469.68	468.61	468.27
Field Strength	126.51	123.75	119.87	116.97	114.60	105.87	100.17
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.12	12.18	8.15	6.12	4.90	2.45	1.63
ERP-dBk	-7.83	-7.83	-7.83	2.27	0.33	12.64	14.46
HAAT-m	433.42	431.62	429.82	428.96	428.42	427.30	426.94
Field Strength	95.02	92.24	88.32	95.41	91.09	94.20	90.21
Difference	-31.49	-31.51	-31.55	-21.56	-23.52	-11.67	-9.96

Contour At A Bearing of 90 Degrees From Proposed Station

KTVW-DT Distance-Km	1.21	1.63	2.47	3.31	4.15	8.34	12.54
Bearing-Deg	88.54	88.92	89.29	89.47	89.58	89.79	89.86
ERP-dBk	22.12	22.11	22.10	22.10	22.10	22.09	22.09
HAAT-m	490.50	491.03	491.55	491.80	491.95	492.25	492.35
Field Strength	127.07	124.26	120.34	117.57	115.22	106.98	101.39
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.56	12.59	8.48	6.38	5.11	2.56	1.71
ERP-dBk	-12.13	-12.13	-12.13	-2.55	-4.08	7.97	10.06
HAAT-m	445.97	446.53	447.08	447.35	447.51	447.82	447.93
Field Strength	90.74	87.98	84.10	90.70	86.80	89.80	86.18
Difference	-36.33	-36.28	-36.25	-26.87	-28.42	-17.18	-15.21

Contour At A Bearing of 120 Degrees From Proposed Station

KTVW-DT Distance-Km	1.35	1.82	2.76	3.70	4.64	9.34	14.04
Bearing-Deg	129.71	129.61	129.50	129.46	129.43	129.37	129.35
ERP-dBk	19.49	19.50	19.51	19.52	19.52	19.53	19.53
HAAT-m	511.20	511.12	511.04	511.01	510.99	510.94	510.93
Field Strength	123.40	120.63	116.77	113.91	111.60	103.10	97.58
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.28	13.13	8.84	6.65	5.33	2.67	1.78
ERP-dBk	-20.09	-20.09	-20.09	-11.08	-11.43	-0.35	2.01
HAAT-m	466.48	466.40	466.33	466.30	466.28	466.23	466.22
Field Strength	82.80	80.07	76.22	82.28	79.57	81.73	78.44
Difference	-40.61	-40.56	-40.54	-31.64	-32.02	-21.37	-19.15

Contour At A Bearing of 150 Degrees From Proposed Station

KTVW-DT Distance-Km	1.62	2.18	3.29	4.41	5.52	11.09	16.66
Bearing-Deg	159.15	158.81	158.49	158.33	158.23	158.03	157.97
ERP-dBk	14.59	14.66	14.72	14.75	14.77	14.81	14.82
HAAT-m	521.44	521.47	521.49	521.50	521.50	521.52	521.52
Field Strength	116.81	114.14	110.35	107.41	105.01	96.20	90.53
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.65	13.42	9.04	6.81	5.45	2.73	1.82
ERP-dBk	-22.03	-22.03	-22.03	-13.37	-13.03	-2.51	0.01
HAAT-m	477.30	477.36	477.41	477.43	477.45	477.48	477.49
Field Strength	80.87	78.15	74.40	80.05	78.02	79.71	76.93
Difference	-35.94	-35.98	-35.95	-27.37	-26.99	-16.49	-13.60

Contour At A Bearing of 180 Degrees From Proposed Station

KTVW-DT Distance-Km	1.76	2.35	3.54	4.73	5.93	11.88	17.84
Bearing-Deg	181.69	181.26	180.84	180.63	180.50	180.25	180.17
ERP-dBk	14.77	14.72	14.67	14.64	14.62	14.59	14.58
HAAT-m	526.51	526.51	526.50	526.50	526.50	526.50	526.50
Field Strength	116.26	113.50	109.57	106.60	104.10	95.13	89.01
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.81	13.55	9.13	6.87	5.51	2.76	1.84
ERP-dBk	-20.53	-20.53	-20.53	-12.02	-11.40	-1.11	1.48
HAAT-m	481.93	481.91	481.89	481.88	481.87	481.86	481.86
Field Strength	82.37	79.66	75.91	81.42	79.68	81.17	78.47
Difference	-33.89	-33.84	-33.66	-25.18	-24.43	-13.96	-10.55

Contour At A Bearing of 210 Degrees From Proposed Station

KTVW-DT Distance-Km	1.66	2.22	3.33	4.45	5.56	11.13	16.70
Bearing-Deg	204.19	203.69	203.17	202.92	202.76	202.46	202.36
ERP-dBk	16.56	16.55	16.54	16.53	16.53	16.52	16.52
HAAT-m	521.19	521.39	521.59	521.69	521.75	521.87	521.91
Field Strength	118.54	115.86	112.04	109.10	106.68	97.87	92.18
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.65	13.43	9.05	6.81	5.46	2.74	1.83
ERP-dBk	-22.03	-22.03	-22.03	-13.38	-13.01	-2.52	0.01
HAAT-m	477.36	477.53	477.71	477.79	477.84	477.95	477.98
Field Strength	80.87	78.15	74.40	80.04	78.04	79.71	76.93
Difference	-37.67	-37.70	-37.64	-29.06	-28.65	-18.16	-15.25

Contour At A Bearing of 240 Degrees From Proposed Station

KTVW-DT Distance-Km	1.43	1.90	2.84	3.78	4.72	9.42	14.12
Bearing-Deg	232.94	232.39	231.83	231.54	231.37	231.03	230.92
ERP-dBk	14.91	14.98	15.04	15.07	15.09	15.13	15.14
HAAT-m	506.99	508.48	509.97	510.74	511.19	512.09	512.39
Field Strength	118.28	115.70	112.02	109.25	106.99	98.60	93.14
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.02	12.97	8.76	6.60	5.29	2.66	1.77
ERP-dBk	-20.09	-20.09	-20.09	-10.97	-11.52	-0.31	2.01
HAAT-m	459.12	460.57	462.04	462.79	463.23	464.12	464.41
Field Strength	82.79	80.05	76.21	82.36	79.45	81.75	78.42
Difference	-35.49	-35.64	-35.82	-26.88	-27.54	-16.85	-14.73

Contour At A Bearing of 270 Degrees From Proposed Station

KTVW-DT Distance-Km	1.31	1.73	2.57	3.41	4.25	8.45	12.64
Bearing-Deg	271.34	271.02	270.68	270.51	270.41	270.21	270.14
ERP-dBk	16.37	16.30	16.22	16.18	16.16	16.11	16.09
HAAT-m	481.95	481.21	480.46	480.08	479.85	479.39	479.23
Field Strength	120.54	117.85	114.04	111.28	108.95	100.69	95.06
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.27	12.32	8.27	6.22	4.98	2.49	1.66
ERP-dBk	-12.13	-12.13	-12.13	-2.21	-4.32	8.21	10.13
HAAT-m	437.66	436.86	436.05	435.63	435.38	434.88	434.71
Field Strength	90.73	87.96	84.05	90.97	86.48	89.87	86.01
Difference	-29.81	-29.89	-29.99	-20.31	-22.47	-10.81	-9.05

Contour At A Bearing of 300 Degrees From Proposed Station

KTVW-DT Distance-Km	1.47	1.94	2.88	3.82	4.76	9.46	14.15
Bearing-Deg	308.98	309.06	309.15	309.19	309.22	309.28	309.30
ERP-dBk	21.13	21.14	21.14	21.15	21.15	21.15	21.15
HAAT-m	551.31	551.35	551.39	551.42	551.43	551.46	551.47
Field Strength	124.30	121.74	118.10	115.36	113.15	104.91	99.56
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.70	14.25	9.61	7.24	5.80	2.91	1.94
ERP-dBk	-7.83	-7.83	-7.83	-0.99	2.04	11.04	14.04
HAAT-m	507.83	507.87	507.91	507.93	507.94	507.97	507.98
Field Strength	95.10	92.41	88.63	92.59	93.32	93.64	91.12
Difference	-29.21	-29.33	-29.47	-22.77	-19.82	-11.28	-8.44

Contour At A Bearing of 330 Degrees From Proposed Station

KTVW-DT Distance-Km	1.72	2.28	3.39	4.50	5.62	11.18	16.75
Bearing-Deg	336.66	336.94	337.25	337.40	337.49	337.68	337.75
ERP-dBk	22.26	22.27	22.28	22.28	22.29	22.29	22.29
HAAT-m	536.64	536.42	536.19	536.07	536.00	535.85	535.80
Field Strength	123.96	121.38	117.67	114.80	112.42	103.74	98.11
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.19	13.84	9.32	7.02	5.62	2.82	1.88
ERP-dBk	-6.28	-6.28	-6.28	1.83	3.15	12.93	15.67
HAAT-m	492.90	492.68	492.44	492.32	492.25	492.10	492.05
Field Strength	96.63	93.93	90.19	95.32	94.30	95.33	92.82
Difference	-27.34	-27.45	-27.47	-19.48	-18.12	-8.40	-5.28

Contour At A Bearing of 0 Degrees From Proposed Station

KPNX-DT Distance-Km	1.82	2.41	3.60	4.80	5.99	11.94	17.90
Bearing-Deg	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	542.16	542.16	542.16	542.16	542.16	542.16	542.16
Field Strength	131.19	128.58	124.78	121.90	119.45	110.61	104.54
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.95	13.66	9.20	6.93	5.55	2.78	1.86
ERP-dBk	-6.11	-6.11	-6.11	2.27	3.15	13.23	15.88
HAAT-m	486.06	486.06	486.06	486.06	486.06	486.06	486.06
Field Strength	96.80	94.09	90.35	95.73	94.25	95.56	92.94
Difference	-34.40	-34.48	-34.43	-26.17	-25.19	-15.05	-11.61

Contour At A Bearing of 30 Degrees From Proposed Station

KPNX-DT Distance-Km	1.70	2.26	3.37	4.48	5.60	11.16	16.73
Bearing-Deg	21.74	21.85	21.94	21.99	22.02	22.07	22.09
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	543.30	543.18	543.07	543.02	542.98	542.92	542.90
Field Strength	131.82	129.20	125.46	122.58	120.19	111.51	105.88
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.00	13.69	9.22	6.94	5.56	2.79	1.86
ERP-dBk	-6.28	-6.28	-6.28	2.06	3.00	13.04	15.70
HAAT-m	487.30	487.17	487.06	487.01	486.97	486.91	486.89
Field Strength	96.62	93.92	90.18	95.53	94.11	95.38	92.77
Difference	-35.19	-35.28	-35.28	-27.05	-26.08	-16.13	-13.11

Contour At A Bearing of 60 Degrees From Proposed Station

KPNX-DT Distance-Km	1.43	1.90	2.84	3.78	4.72	9.42	14.11
Bearing-Deg	49.71	49.95	50.19	50.31	50.38	50.52	50.57
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	484.38	483.64	482.85	482.47	482.22	481.75	481.61
Field Strength	133.36	130.68	126.89	124.04	121.72	113.10	107.49
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	15.97	12.09	8.11	6.10	4.88	2.44	1.63
ERP-dBk	-7.83	-7.83	-7.83	2.31	0.40	12.65	14.47
HAAT-m	429.23	428.50	427.72	427.34	427.10	426.64	426.50
Field Strength	95.02	92.23	88.31	95.44	91.14	94.20	90.20
Difference	-38.34	-38.45	-38.59	-28.59	-30.58	-18.90	-17.29

Contour At A Bearing of 90 Degrees From Proposed Station

KPNX-DT Distance-Km	1.26	1.68	2.52	3.36	4.20	8.39	12.59
Bearing-Deg	88.60	88.95	89.30	89.48	89.58	89.79	89.86
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	502.72	503.20	503.69	503.93	504.08	504.37	504.47
Field Strength	134.55	131.87	128.08	125.36	123.06	114.94	109.43
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.56	12.59	8.48	6.38	5.11	2.56	1.71
ERP-dBk	-12.13	-12.13	-12.13	-2.55	-4.08	7.97	10.06
HAAT-m	446.06	446.58	447.10	447.36	447.51	447.82	447.93
Field Strength	90.74	87.98	84.10	90.70	86.80	89.80	86.18
Difference	-43.82	-43.89	-43.98	-34.66	-36.26	-25.14	-23.25

Contour At A Bearing of 120 Degrees From Proposed Station

KPNX-DT Distance-Km	1.39	1.86	2.80	3.74	4.68	9.38	14.08
Bearing-Deg	128.34	128.59	128.83	128.96	129.03	129.17	129.21
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	522.43	522.61	522.80	522.89	522.94	523.05	523.09
Field Strength	133.65	130.95	127.16	124.34	122.06	113.65	108.21
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.24	13.11	8.83	6.64	5.32	2.67	1.78
ERP-dBk	-20.09	-20.09	-20.09	-11.07	-11.44	-0.35	2.01
HAAT-m	465.49	465.67	465.84	465.93	465.98	466.09	466.12
Field Strength	82.80	80.07	76.22	82.28	79.56	81.73	78.44
Difference	-50.85	-50.88	-50.94	-42.05	-42.50	-31.92	-29.77

Contour At A Bearing of 150 Degrees From Proposed Station

KPNX-DT Distance-Km	1.64	2.20	3.31	4.43	5.54	11.11	16.68
Bearing-Deg	157.46	157.55	157.65	157.70	157.73	157.79	157.80
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	533.81	533.80	533.79	533.78	533.78	533.77	533.77
Field Strength	132.12	129.42	125.61	122.68	120.28	111.52	105.89
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.66	13.43	9.04	6.81	5.46	2.73	1.82
ERP-dBk	-22.03	-22.03	-22.03	-13.37	-13.02	-2.51	0.01
HAAT-m	477.58	477.56	477.54	477.54	477.53	477.52	477.52
Field Strength	80.87	78.15	74.40	80.04	78.03	79.71	76.93
Difference	-51.25	-51.27	-51.21	-42.64	-42.25	-31.81	-28.96

Contour At A Bearing of 180 Degrees From Proposed Station

KPNX-DT Distance-Km	1.76	2.35	3.54	4.73	5.92	11.88	17.84
Bearing-Deg	180.00	180.00	180.00	180.00	180.00	180.00	180.00
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	538.58	538.58	538.58	538.58	538.58	538.58	538.58
Field Strength	131.51	128.81	124.94	122.02	119.55	110.66	104.59
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.81	13.55	9.12	6.87	5.50	2.76	1.84
ERP-dBk	-20.53	-20.53	-20.53	-12.02	-11.40	-1.11	1.48
HAAT-m	481.85	481.85	481.85	481.85	481.85	481.85	481.85
Field Strength	82.37	79.66	75.91	81.42	79.68	81.17	78.47
Difference	-49.14	-49.15	-49.04	-40.60	-39.87	-29.49	-26.12

Contour At A Bearing of 210 Degrees From Proposed Station

KPNX-DT Distance-Km	1.64	2.20	3.31	4.43	5.54	11.11	16.68
Bearing-Deg	202.54	202.45	202.35	202.30	202.27	202.21	202.20
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	534.13	534.17	534.21	534.23	534.24	534.26	534.27
Field Strength	132.12	129.42	125.61	122.68	120.28	111.53	105.89
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.67	13.44	9.05	6.81	5.46	2.74	1.83
ERP-dBk	-22.03	-22.03	-22.03	-13.39	-13.01	-2.52	0.01
HAAT-m	477.92	477.95	477.99	478.00	478.01	478.03	478.04
Field Strength	80.87	78.16	74.40	80.03	78.04	79.71	76.93
Difference	-51.25	-51.27	-51.21	-42.65	-42.23	-31.82	-28.96

Contour At A Bearing of 240 Degrees From Proposed Station

KPNX-DT Distance-Km	1.39	1.86	2.80	3.74	4.68	9.38	14.08
Bearing-Deg	231.66	231.41	231.17	231.04	230.97	230.83	230.79
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	520.95	521.57	522.19	522.52	522.70	523.06	523.18
Field Strength	133.65	130.95	127.15	124.34	122.06	113.65	108.21
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	17.14	13.04	8.79	6.62	5.31	2.66	1.77
ERP-dBk	-20.09	-20.09	-20.09	-11.01	-11.49	-0.32	2.01
HAAT-m	462.48	463.12	463.75	464.08	464.27	464.64	464.75
Field Strength	82.79	80.06	76.21	82.33	79.49	81.74	78.42
Difference	-50.85	-50.89	-50.94	-42.01	-42.56	-31.91	-29.79

Contour At A Bearing of 270 Degrees From Proposed Station

KPNX-DT Distance-Km	1.26	1.68	2.52	3.36	4.20	8.39	12.59
Bearing-Deg	271.40	271.05	270.70	270.52	270.42	270.21	270.14
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	493.32	492.46	491.59	491.16	490.90	490.38	490.21
Field Strength	134.55	131.85	128.05	125.30	122.99	114.79	109.21
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	16.27	12.32	8.27	6.22	4.98	2.49	1.66
ERP-dBk	-12.13	-12.13	-12.13	-2.21	-4.32	8.21	10.13
HAAT-m	437.79	436.94	436.08	435.65	435.40	434.88	434.71
Field Strength	90.73	87.96	84.05	90.97	86.48	89.87	86.01
Difference	-43.82	-43.90	-44.00	-34.34	-36.51	-24.92	-23.20

Contour At A Bearing of 300 Degrees From Proposed Station

KPNX-DT Distance-Km	1.43	1.90	2.84	3.78	4.72	9.42	14.11
Bearing-Deg	310.29	310.05	309.81	309.69	309.62	309.48	309.43
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	564.29	564.37	564.29	564.24	564.20	564.13	564.11
Field Strength	133.44	130.82	127.10	124.34	122.12	113.89	108.51
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.72	14.26	9.62	7.24	5.80	2.91	1.94
ERP-dBk	-7.83	-7.83	-7.83	-1.01	2.04	11.04	14.04
HAAT-m	508.20	508.29	508.21	508.16	508.13	508.06	508.04
Field Strength	95.10	92.41	88.63	92.57	93.33	93.63	91.12
Difference	-38.35	-38.40	-38.47	-31.77	-28.79	-20.25	-17.39

Contour At A Bearing of 330 Degrees From Proposed Station

KPNX-DT Distance-Km	1.70	2.26	3.37	4.48	5.60	11.16	16.73
Bearing-Deg	338.26	338.15	338.06	338.01	337.98	337.93	337.92
ERP-dBk	30.00	30.00	30.00	30.00	30.00	30.00	30.00
HAAT-m	547.80	547.89	547.96	548.00	548.02	548.07	548.08
Field Strength	131.82	129.21	125.46	122.59	120.21	111.54	105.91
KDTP-LP Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	18.15	13.81	9.31	7.01	5.62	2.82	1.88
ERP-dBk	-6.28	-6.28	-6.28	1.87	3.14	12.93	15.67
HAAT-m	491.65	491.73	491.80	491.84	491.87	491.91	491.92
Field Strength	96.63	93.93	90.19	95.36	94.28	95.33	92.82
Difference	-35.20	-35.28	-35.27	-27.23	-25.93	-16.20	-13.09