

Channel-Six TV Interference Study

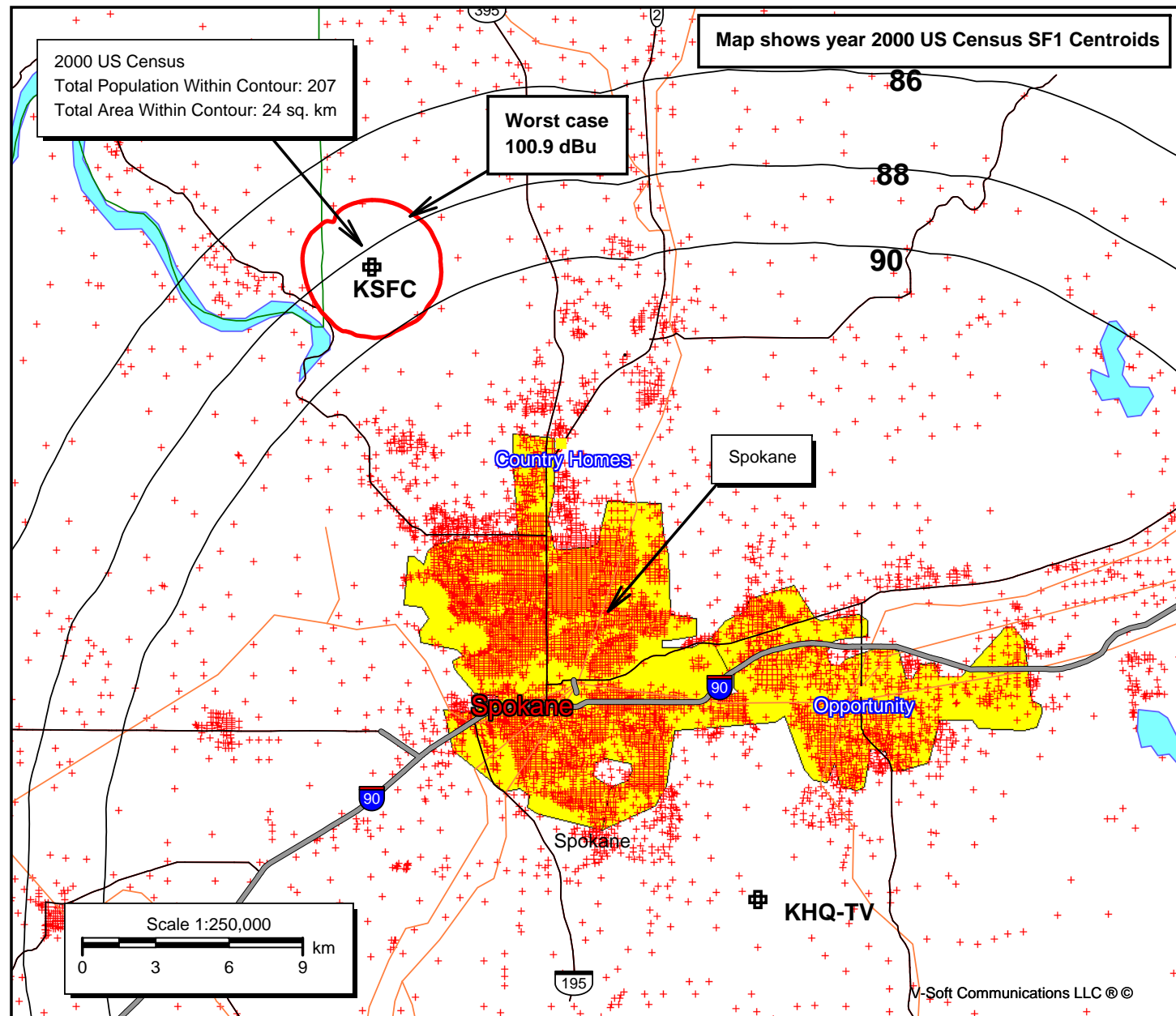
KHQ-TV

BMLCT19860805KF
Latitude: 47-34-52 N
Longitude: 117-17-47 W
Channel: 06-
Frequency: 84.5 MHz
AMSL Height: 1373.0 m
Horiz. Pattern: Omni
Prop Model: None

KSFC

BLED20030320ABD
Latitude: 47-48-48 N
Longitude: 117-30-23 W
Study ERP: 2.42 kW
 $Pwr = ERP + ERP/10$
Channel: 220
Frequency: 91.9 MHz
AMSL Height: 958.0 m
Horiz. Pattern: Omni

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Channel-Six TV Protection Study

KHQ-TV LI 06- 2C Dom 87.100 kW 653 M HAAT VHY
Spokane WA 1373.0 M COR AMSL
Lat= 47 34 52.0, Lng= 117 17 47.0
Khq, Incorporated BMLCT19860805KF
Fac ID# 34537
Dist.=30.25 km, Azi=148.6°, Rev Azi=328.8°

Direct line HAAT Grade B, 47 dBu= 132.93 km & Grade A= 75.76 km

Distance from reference to Grade B = -102.68 km

Cutoff Dist from Full Service or Class CA= 154

Maximum Co-located power= 100 kW

KHQ-TV Signal Contour at Reference location = 88.2 dBu

CH. 220, U/D ratio = 13.7 dB, Maximum FM signal = 101.9 dBu , add 6 dB if within angle.

TV/FM D to U values

47.0	86.0	55.0	84.1	63.0	83.9	71.0	87.2	79.0	93.9	87.0	100.9
48.0	85.7	56.0	83.9	64.0	83.9	72.0	88.0	80.0	94.7	88.0	101.8
49.0	85.3	57.0	83.8	65.0	84.0	73.0	88.9	81.0	95.6	89.0	102.6
50.0	85.0	58.0	83.8	66.0	84.4	74.0	89.7	82.0	96.5	90.0	103.5
51.0	84.8	59.0	83.7	67.0	84.8	75.0	90.5	83.0	97.4	91.0	103.5
52.0	84.7	60.0	83.7	68.0	85.3	76.0	91.4	84.0	98.3	92.0	103.5
53.0	84.5	61.0	83.8	69.0	85.9	77.0	92.2	85.0	99.2	93.0	103.5
54.0	84.3	62.0	83.8	70.0	86.6	78.0	93.0	86.0	100.1	94.0	103.5

N. Lat. = 473452 W. Lng. = 1171747
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

KHQ-TV Previous Channel -six x Operation - Protected Contours

Azi.	AV EL	HAAT	ERP kW	dBk	Field	86-F5	88-F5	90-F5
260	676.6	696.4	87.1000	19.40	1.000	33.92	30.04	26.86
265	672.9	700.1	87.1000	19.40	1.000	34.02	30.13	26.93
270	675.6	697.4	87.1000	19.40	1.000	33.94	30.06	26.88
275	677.7	695.3	87.1000	19.40	1.000	33.89	30.01	26.84
280	677.7	695.3	87.1000	19.40	1.000	33.89	30.01	26.84
285	675.1	697.9	87.1000	19.40	1.000	33.96	30.07	26.89
290	669.3	703.7	87.1000	19.40	1.000	34.13	30.21	27.00
295	671.8	701.2	87.1000	19.40	1.000	34.06	30.15	26.95
300	668.0	705.0	87.1000	19.40	1.000	34.16	30.24	27.02
305	660.6	712.4	87.1000	19.40	1.000	34.38	30.41	27.16
310	659.2	713.8	87.1000	19.40	1.000	34.42	30.45	27.19
315	658.4	714.6	87.1000	19.40	1.000	34.44	30.46	27.20
320	657.8	715.2	87.1000	19.40	1.000	34.45	30.48	27.21
325	652.4	720.6	87.1000	19.40	1.000	34.61	30.61	27.32
330	648.6	724.4	87.1000	19.40	1.000	34.72	30.70	27.39
335	650.2	722.8	87.1000	19.40	1.000	34.67	30.66	27.36
340	657.4	715.6	87.1000	19.40	1.000	34.47	30.49	27.22
345	670.8	702.2	87.1000	19.40	1.000	34.08	30.17	26.97
350	689.8	683.2	87.1000	19.40	1.000	33.54	29.73	26.60
355	691.0	682.0	87.1000	19.40	1.000	33.50	29.70	26.58
000	684.5	688.5	87.1000	19.40	1.000	33.69	29.85	26.71

AMSL= 1373 M

N. Lat. = 474848.0 W. Lng. = 1173023.0
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC
 Channel -Six Study Power Used
 KSFC. C, Spokane Public Radio, Inc. , BPED20090121AI 0

Azi .	AV EL	HAAT	ERP kW	dBk	Field	100.9-F1
000	645.3	313.1	2.4200	3.84	1.000	2.69
010	639.9	318.5	2.4200	3.84	1.000	2.70
020	636.9	321.5	2.4200	3.84	1.000	2.70
030	637.2	321.2	2.4200	3.84	1.000	2.70
040	642.6	315.8	2.4200	3.84	1.000	2.69
050	613.6	344.8	2.4200	3.84	1.000	2.74
060	608.3	350.1	2.4200	3.84	1.000	2.75
070	601.7	356.7	2.4200	3.84	1.000	2.76
080	602.4	356.0	2.4200	3.84	1.000	2.76
090	608.0	350.4	2.4200	3.84	1.000	2.75
100	585.2	373.2	2.4200	3.84	1.000	2.79
110	589.7	368.7	2.4200	3.84	1.000	2.78
120	612.7	345.7	2.4200	3.84	1.000	2.74
130	599.3	359.1	2.4200	3.84	1.000	2.77
140	593.1	365.3	2.4200	3.84	1.000	2.78
150	618.0	340.4	2.4200	3.84	1.000	2.73
160	611.9	346.5	2.4200	3.84	1.000	2.74
170	559.2	399.2	2.4200	3.84	1.000	2.82
180	581.0	377.4	2.4200	3.84	1.000	2.80
190	598.0	360.4	2.4200	3.84	1.000	2.77
200	603.4	355.0	2.4200	3.84	1.000	2.76
210	595.6	362.8	2.4200	3.84	1.000	2.77
220	633.5	324.9	2.4200	3.84	1.000	2.71
230	649.6	308.8	2.4200	3.84	1.000	2.68
240	658.1	300.3	2.4200	3.84	1.000	2.67
250	648.7	309.7	2.4200	3.84	1.000	2.68
260	630.3	328.1	2.4200	3.84	1.000	2.71
270	611.6	346.8	2.4200	3.84	1.000	2.75
280	574.6	383.8	2.4200	3.84	1.000	2.80
290	562.0	396.4	2.4200	3.84	1.000	2.82
300	595.0	363.4	2.4200	3.84	1.000	2.77
310	668.4	290.0	2.4200	3.84	1.000	2.66
320	776.8	181.6	2.4200	3.84	1.000	2.42
330	719.1	239.3	2.4200	3.84	1.000	2.61
340	675.8	282.6	2.4200	3.84	1.000	2.65
350	658.3	300.1	2.4200	3.84	1.000	2.67

Ave EI = 623.47 M HAAT= 334.93 M AMSL= 958.4 M