Technical Exhibit
Minor Modification to KQOH
Marshfield, MO
2.995kW 143.9m HAAT
100m AGL

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Predicted Coverage Contours

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated along 8 radials using the NED 03 Sec terrain database.

All contours displayed in exhibits are plotted every degree in accordance with the propagation prediction curves of Section 73.333.

Interference Compliance

Required spacing to I.F. and/or channels 221-223 is shown in Figure 1. Contour protection, as required by C.F.R. Section 73.509 to co-channel and first, second and third adjacent channels is demonstrated herein by Figures 1 and 2. Distances are rounded.

Contour Protection

Section 73.207 requires a minimum spacing of 72 kM between Class A facilities separated by 200 kHz. Contour protection according to 47 C.F.R. 73.215 has been elected with respect to KKOZ-FM, Ava, MO. Actual separation is 66.5 kM. A minimum distance separation of 49 kM is required according to Section 73.215. Figures 2-2 to 2-3 demonstrate compliance with Section 73.215 with respect to KKOZ-FM as a maximum class A facility.

RF Electromagnetic Exposure Analysis

Using a worst case assumption of maximum downward radiation (F=1.0) the RF exposure at 2 m above ground level is 20.82897 µW/sq cm or 2.1% of the controlled standard. This is insignificant when added to the existing RF on the tower.

The tower is fenced with RF warning signs. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1
Minor Modification of KQOH

REFERENCE CH# 220A - 91.9 MHz, Pwr= 2.995 kW DA, HAAT= 143.9 M, COR= 529.5 M DISPLAY DATES
37 22 18.3 N. Average Protected F(50-50)= 28.33 km DATA 10-01-13
93 09 40.9 W. Standard Directional SEARCH 10-25-13

CH CALL / CITY	TYPE ANT / STATE	AZI <--	DIST / FILE #	LAT / LNG	PWR(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / LICENSEE	*IN* / (Overlap in km)	*OUT*
220A KQOH Marshfield	LIC NCX MO	109.2 289.3	18.46 BLED20040423AAW	37 19 01.0 92 57 51.0	1.750 76	68.9 490	21.9 Catholic Radio Network, In	-78.7*	-86.5*
219C3 KCVO-FM Camdenton	LIC _CN MO	26.1 206.4	80.38 BLED19930420KE	38 01 13.0 92 45 27.0	10.000 133	56.3 402	37.1 Lake Area Educational Broa	0.4	7.0
221A KKOZ-FM^ Ava	LIC _CN MO	137.4 317.8	66.50 BMLH19970905KA	36 55 48.0 92 39 19.0	6.000 100	38.7 455	24.0 Corum Industries, Inc.	2.6	2.3
220A KBPB Harrison	LIC ZC_ AR	182.8 2.8	111.50 BLED20010503AAM	36 22 12.0 93 13 23.0	5.500 104	48.3 476	12.8 New Life Evangelistic Cent	38.1	17.6
219A KCOZ Point Lookout	LIC _CN MO	184.7 4.7	84.88 BLED19950126KA	36 36 39.0 93 14 23.0	0.200 57	16.2 361	11.0 College Of The Ozarks	43.5	34.2
221A KCVZ« Dixon	LIC _CX MO	52.6 233.2	109.74 BLED20030715ABF	37 57 59.0 92 10 03.0	6.000 100	44.5 389	28.8 Lake Area Educational Broa	71.5R	38.2M
219C3 KNEO Neosho	LIC _CX MO	244.8 64.0	126.60 BLED20081010ARQ	36 52 49.0 94 26 59.0	14.000 114	56.8 443	36.8 Sky High Broadcasting Corp	40.3	46.0
223C0 KSYN« Joplin	LIC NCX MO	256.7 75.8	128.98 BLH20060106ABP	37 05 49.0 94 34 25.0	100.000 300	9.7 584	70.4 Zimmer Radio, Inc.	85.5R	43.5M
223A KELE-FM« Mountain Grove	RSV-A __N MO	107.8 288.3	85.02	37 08 07.0 92 14 59.0	6.000 100	2.6 506	27.2 Ozark Media, Inc.	30.5R	54.5M
223A KELE-FM« Mountain Grove	LIC _CN MO	107.8 288.3	85.02 BMLH19970626KC	37 08 07.0 92 14 59.0	3.000 91	2.1 500	22.5 Ozark Media, Inc.	30.5R	54.5M
220A KNLQ Cuba	LIC ZCX MO	64.1 245.2	172.92 BLED20040203ABJ	38 02 14.0 91 23 04.0	5.000 76	75.2 353	22.4 New Life Evangelistic Cent	69.3	65.5
221C3 KQSM-FM« Fayetteville	LIC NCN AR	208.3 27.8	156.67 BLH19960202KA	36 07 38.0 93 59 23.0	7.600 162	56.5 562	38.0 Cumulus Licensing Llc	88.5R	68.2M
221A KMOE« Butler	LIC _CN MO	314.1 133.4	141.13 BLH19900814KB	38 14 56.0 94 19 18.0	4.700 45	22.0 298	14.8 Bates County Broadcasting	71.5R	69.6M
274A KQUL« Lake Ozark	LIC _CN MO	34.8 215.1	89.94 BLH19940516KZ	38 02 06.0 92 34 31.0	6.000 100	85.6 357	29.7 Benne Broadcasting Co. Of	9.5R	80.4M
219C2 KCVX Salem	LIC DEX MO	79.2 260.2	144.82 BLED20130403AAK	37 36 16.0 91 32 46.0	30.000 64	29.6 438	20.3 Lake Area Educational Broa	87.3	81.6
220C1 KASU Jonesboro	LIC DCN AR	125.8 307.3	276.32 BLED19940314KB	35 53 27.0 90 40 26.0	100.000 210	162.8 305	64.6 Arkansas State University	84.9	130.7
220C3 KWJC Liberty	LIC DCX MO	331.5 150.8	222.30 BLED20090528AKW	39 07 23.0 94 23 24.0	7.000 190	101.8 440	39.1 William Jewell College	87.7	93.8
218C2 KCMH Mountain Home	LIC _V_ AR	151.5 332.0	138.90 BLED20000911AAQ	36 16 17.0 92 25 20.0	26.000 144	4.2 354	40.9 Christian Broadcasting Gro	109.5	94.2
220A KTRU La Harpe	LIC _CX KS	289.2 107.8	205.05 BLED20111003ABA	37 57 24.1 95 22 15.7	0.750 66	44.0 372	12.4 Grace Public Radio	129.0	104.3
217C0 KUAF Fayetteville	LIC DC_ AR	204.8 24.3	185.59 BLED20010813AAD	35 51 12.0 94 01 32.0	100.000 332	10.1 875	74.5 Board Of Trustees Of The U	148.2	106.3
273C1 KIXQ« Joplin	LIC _CX MO	256.7 75.8	128.98 BLH20060106ABQ	37 05 49.0 94 34 25.0	100.000 278	85.6 562	29.7 Zimmer Radio, Inc.	21.5R	107.5M
221C3 KHPQ« Clinton	LIC NCN AR	161.7 342.1	201.81 BLH19940712KZ	35 38 37.0 92 27 33.0	10.000 156	34.0 439	22.4 King-sullivan Radio	88.5R	113.3M
217C1 KBIA Columbia	LIC _CN MO	24.7 205.3	185.94 BLED959	38 53 16.0 92 15 48.0	100.000 186	8.0 425	63.1 The Curators Of The Univer	154.0	120.0
222A AL9782« Sedalia	RSV-A __N MO	357.9 177.9	150.98 RM9687	38 43 52.0 93 13 32.0	6.000 100	2.6 349	25.4	30.5R	120.5M
222A KSDL« Sedalia	LIC _CX MO	357.9 177.9	151.32 BLH20060201BBK	38 44 03.0 93 13 31.0	6.000 89	2.4 334	23.1 Townsquare Media Sedalia L	30.5R	120.8M

CH CITY	CALL STATE	TYPE <--	ANT AZI	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
273C2	KKDY«	LIC	_CN	123.7	135.69	36 41 22.0	50.000	85.6	29.7	14.5R	121.2M
West Plains	MO			304.4	BLH19900125KB	91 53 45.0	148	462	Central Ozark Radio Networ		

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.
^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

Figure 2
Minor Modification of KQOH

FMCommander Single Allocation Study - 10-25-2013 - NED 03 SEC
KQOH's Overlaps (In= 0.42 km, Out= 6.99 km)

KQOH CH 220 A DA
Lat= 37 22 18.3, Lng= 93 09 40.9
2.995 kW 143.9 M HAAT, 529.5 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KCVO-FM CH 219 C3 BLED19930420KE
Lat= 38 01 13.0, Lng= 92 45 27.0
10.0 kW 133 M HAAT, 402 M COR
Prot.= 60 dBu, Intef.= 54 dBu

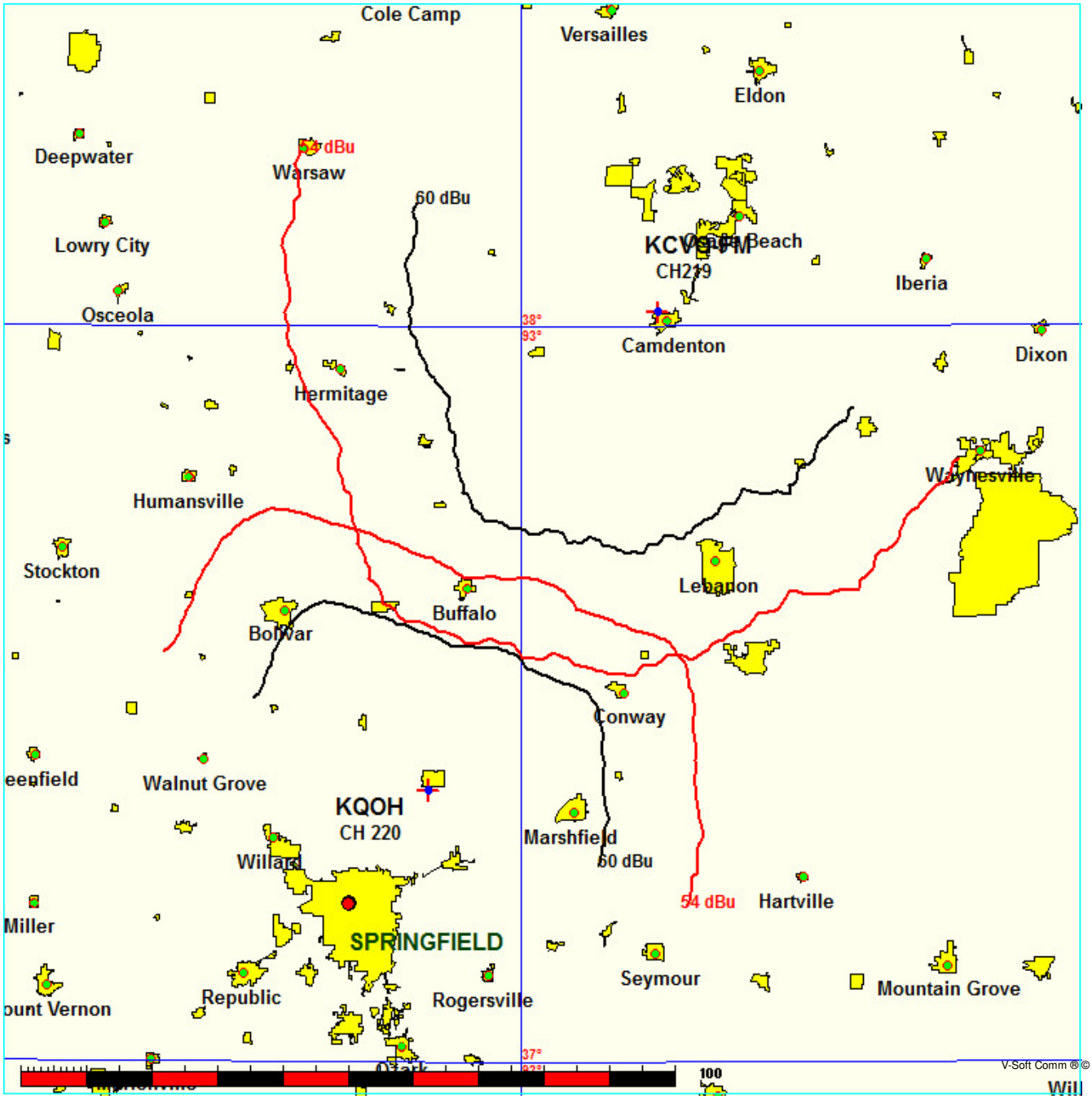

Figure 2-1

10-25-2013 Terrain Data: NED 03 SEC FMOver Analysis

KQOH

Channel = 220A
Max ERP = 2.995 kW
RCAMSL = 529.5 M
N. Lat. 37 22 18.3
W. Lng. 93 09 40.9
Protected
60 dBu

KCVO-FM BLED19930420KE

Channel = 219C3
Max ERP = 10 kW
RCAMSL = 402 M
N. Lat. 38 01 13.0
W. Lng. 92 45 27.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
326.0	002.9950	0195.9	032.9	230.3	010.0000	0162.0	070.1	50.15	
327.0	002.9950	0195.4	032.8	230.3	010.0000	0162.2	069.5	50.34	
328.0	002.9950	0194.3	032.7	230.1	010.0000	0162.2	068.9	50.52	
329.0	002.9950	0192.8	032.6	229.9	010.0000	0161.5	068.4	50.67	
330.0	002.9950	0192.9	032.6	229.9	010.0000	0160.9	067.8	50.82	
331.0	002.8735	0193.4	032.3	229.5	010.0000	0158.9	067.3	50.89	
332.0	002.7544	0191.3	031.8	229.0	010.0000	0162.9	066.9	51.23	
333.0	002.6379	0190.3	031.4	228.5	010.0000	0167.9	066.5	51.62	
334.0	002.5240	0189.2	030.9	228.1	010.0000	0171.3	066.1	51.92	
335.0	002.4125	0189.0	030.6	227.6	010.0000	0172.6	065.6	52.11	
336.0	002.3035	0186.2	030.0	227.0	010.0000	0169.4	065.3	52.07	
337.0	002.1971	0185.2	029.6	226.5	010.0000	0168.2	065.0	52.14	
338.0	002.0932	0183.4	029.2	226.0	010.0000	0169.7	064.7	52.31	
339.0	001.9918	0181.9	028.7	225.5	010.0000	0172.4	064.4	52.54	
340.0	001.8929	0179.5	028.2	224.9	010.0000	0174.1	064.1	52.70	
341.0	001.8161	0179.2	028.0	224.4	010.0000	0176.2	063.8	52.90	
342.0	001.7409	0178.2	027.6	224.0	010.0000	0179.2	063.5	53.13	
343.0	001.6672	0178.7	027.4	223.6	010.0000	0178.3	063.2	53.20	
344.0	001.5952	0178.6	027.1	223.1	010.0000	0176.5	062.9	53.21	
345.0	001.5247	0178.8	026.9	222.7	010.0000	0175.1	062.7	53.24	
346.0	001.4558	0178.8	026.6	222.3	010.0000	0175.0	062.4	53.32	
347.0	001.3886	0178.8	026.3	221.8	010.0000	0175.8	062.2	53.43	
348.0	001.3229	0177.3	025.9	221.3	010.0000	0177.6	062.1	53.56	
349.0	001.2588	0175.8	025.6	220.8	010.0000	0179.4	062.0	53.69	
350.0	001.1963	0175.3	025.2	220.3	010.0000	0179.0	061.8	53.72	
351.0	001.1703	0175.0	025.1	219.9	010.0000	0178.0	061.6	53.76	
352.0	001.1446	0174.0	024.9	219.5	010.0000	0177.1	061.4	53.79	
353.0	001.1192	0172.3	024.7	219.1	010.0000	0173.6	061.2	53.68	
354.0	001.0941	0170.3	024.4	218.6	010.0000	0170.3	061.1	53.57	
355.0	001.0692	0169.6	024.3	218.2	010.0000	0167.9	060.9	53.52	
356.0	001.0447	0167.6	024.0	217.8	010.0000	0166.4	060.8	53.48	
357.0	001.0204	0166.1	023.8	217.3	010.0000	0165.3	060.7	53.46	
358.0	000.9964	0165.2	023.6	216.9	010.0000	0165.1	060.6	53.49	
359.0	000.9727	0165.7	023.5	216.6	010.0000	0166.0	060.4	53.60	
000.0	000.9493	0165.8	023.4	216.2	010.0000	0164.2	060.3	53.56	
001.0	000.9292	0166.5	023.3	215.8	010.0000	0164.3	060.1	53.63	
002.0	000.9093	0165.0	023.1	215.4	010.0000	0165.7	060.0	53.72	
003.0	000.8896	0164.1	022.9	215.0	010.0000	0164.4	060.0	53.68	
004.0	000.8701	0163.4	022.8	214.6	010.0000	0160.8	059.9	53.53	
005.0	000.8508	0161.7	022.5	214.1	010.0000	0159.2	059.9	53.44	
006.0	000.8318	0162.4	022.5	213.8	010.0000	0158.2	059.8	53.44	
007.0	000.8130	0161.6	022.3	213.4	010.0000	0156.7	059.8	53.37	
008.0	000.7943	0160.3	022.1	213.0	010.0000	0157.2	059.8	53.39	
009.0	000.7759	0160.0	022.0	212.6	010.0000	0156.8	059.7	53.38	
010.0	000.7578	0159.3	021.8	212.2	010.0000	0156.7	059.7	53.38	
011.0	000.7759	0157.4	021.8	211.8	010.0000	0156.5	059.6	53.41	

012.0	000.7943	0156.7	021.9	211.5	010.0000	0156.9	059.4	53.51
013.0	000.8130	0156.4	022.0	211.2	010.0000	0157.1	059.2	53.59
014.0	000.8318	0155.9	022.1	210.9	010.0000	0157.5	059.0	53.69
015.0	000.8508	0156.9	022.2	210.5	010.0000	0156.7	058.7	53.75
016.0	000.8701	0157.0	022.4	210.2	010.0000	0155.5	058.5	53.76
017.0	000.8896	0156.4	022.4	209.8	010.0000	0154.8	058.3	53.79
018.0	000.9093	0157.1	022.6	209.5	010.0000	0153.5	058.1	53.81
019.0	000.9292	0154.9	022.6	209.1	010.0000	0150.7	058.1	53.68
020.0	000.9493	0154.3	022.6	208.7	010.0000	0146.1	057.9	53.48
021.0	000.9727	0154.2	022.7	208.4	010.0000	0143.1	057.8	53.38
022.0	000.9964	0154.2	022.9	208.0	010.0000	0141.2	057.6	53.34
023.0	001.0204	0155.8	023.1	207.6	010.0000	0140.6	057.3	53.41
024.0	001.0447	0157.3	023.3	207.2	010.0000	0140.6	057.1	53.50
025.0	001.0692	0157.9	023.5	206.8	010.0000	0140.9	056.9	53.59
026.0	001.0941	0158.3	023.6	206.4	010.0000	0140.6	056.7	53.63
027.0	001.1192	0158.5	023.8	206.0	010.0000	0139.9	056.6	53.64
028.0	001.1446	0158.0	023.9	205.6	010.0000	0138.4	056.5	53.58
029.0	001.1703	0156.8	023.9	205.1	010.0000	0136.1	056.5	53.46
030.0	001.1963	0156.4	024.0	204.7	010.0000	0134.5	056.5	53.40
031.0	001.1963	0157.7	024.1	204.3	010.0000	0134.0	056.4	53.39
032.0	001.1963	0159.2	024.2	203.8	010.0000	0137.0	056.4	53.57
033.0	001.1963	0160.1	024.2	203.4	010.0000	0137.9	056.4	53.62
034.0	001.1963	0160.4	024.3	203.0	010.0000	0139.4	056.5	53.67
035.0	001.1963	0160.5	024.3	202.6	010.0000	0141.6	056.5	53.76
036.0	001.1963	0158.7	024.1	202.2	010.0000	0144.6	056.8	53.84
037.0	001.1963	0157.5	024.1	201.8	010.0000	0145.3	056.9	53.81
038.0	001.1963	0155.4	023.9	201.4	010.0000	0143.6	057.2	53.62
039.0	001.1963	0154.0	023.8	201.0	010.0000	0142.5	057.4	53.48
040.0	001.1963	0151.5	023.6	200.7	010.0000	0140.5	057.7	53.26
041.0	001.2588	0150.8	023.9	200.3	010.0000	0139.6	057.7	53.24
042.0	001.3229	0150.1	024.1	199.8	010.0000	0140.2	057.6	53.28
043.0	001.3886	0148.0	024.2	199.4	010.0000	0139.5	057.7	53.22
044.0	001.4558	0147.5	024.4	198.9	010.0000	0139.1	057.6	53.21
045.0	001.5247	0147.3	024.6	198.4	010.0000	0134.5	057.6	52.97
046.0	001.5952	0145.6	024.8	198.0	010.0000	0130.7	057.7	52.73
047.0	001.6672	0144.6	024.9	197.5	010.0000	0127.2	057.8	52.51
048.0	001.7409	0144.9	025.2	197.0	010.0000	0127.8	057.8	52.55
049.0	001.8161	0142.6	025.3	196.6	010.0000	0129.4	058.0	52.56
050.0	001.8929	0142.5	025.5	196.1	010.0000	0129.5	058.0	52.55
051.0	001.9918	0143.6	025.9	195.5	010.0000	0129.5	058.0	52.57
052.0	002.0932	0142.4	026.0	195.1	010.0000	0129.3	058.1	52.51
053.0	002.1971	0142.1	026.3	194.6	010.0000	0130.5	058.2	52.55
054.0	002.3035	0144.2	026.7	193.9	010.0000	0134.0	058.1	52.76
055.0	002.4125	0146.0	027.2	193.3	010.0000	0135.2	058.1	52.83
056.0	002.5240	0147.2	027.5	192.7	010.0000	0133.2	058.1	52.70
057.0	002.6379	0147.2	027.8	192.2	010.0000	0133.0	058.3	52.64
058.0	002.7544	0148.7	028.2	191.6	010.0000	0134.2	058.4	52.68
059.0	002.8735	0147.1	028.3	191.1	010.0000	0133.7	058.6	52.55
060.0	002.9950	0145.8	028.5	190.7	010.0000	0136.7	058.9	52.61
061.0	002.9950	0146.4	028.6	190.4	010.0000	0137.1	059.3	52.51
062.0	002.9950	0145.8	028.5	190.1	010.0000	0137.3	059.7	52.36
063.0	002.9950	0147.5	028.7	189.7	010.0000	0135.6	060.0	52.16
064.0	002.9950	0149.6	028.8	189.3	010.0000	0135.0	060.3	52.02
065.0	002.9950	0148.3	028.7	189.1	010.0000	0135.2	060.8	51.86
066.0	002.9950	0147.9	028.7	188.9	010.0000	0136.2	061.2	51.76
067.0	002.9950	0146.3	028.5	188.7	010.0000	0136.5	061.7	51.60
068.0	002.9950	0144.3	028.4	188.6	010.0000	0136.7	062.2	51.43
069.0	002.9950	0143.6	028.3	188.5	010.0000	0137.2	062.7	51.30
070.0	002.9950	0143.4	028.3	188.3	010.0000	0137.5	063.1	51.17
071.0	002.9950	0143.1	028.3	188.1	010.0000	0138.0	063.6	51.04
072.0	002.9950	0141.5	028.1	188.0	010.0000	0138.1	064.1	50.88
073.0	002.9950	0141.6	028.1	187.8	010.0000	0138.1	064.5	50.73
074.0	002.9950	0140.0	028.0	187.7	010.0000	0138.1	065.0	50.57

Figure 2-1

075.0	002.9950	0137.3	027.8	187.7	010.0000	0138.1	065.6	50.39
076.0	002.9950	0135.1	027.6	187.7	010.0000	0138.1	066.1	50.22
077.0	002.9950	0134.2	027.5	187.7	010.0000	0138.1	066.6	50.07
078.0	002.9950	0133.1	027.4	187.6	010.0000	0138.0	067.0	49.90
079.0	002.9950	0132.5	027.3	187.5	010.0000	0137.7	067.5	49.74
080.0	002.9950	0132.0	027.3	187.4	010.0000	0137.6	068.0	49.58
081.0	002.9950	0132.5	027.3	187.3	010.0000	0137.7	068.4	49.44
082.0	002.9950	0132.4	027.3	187.2	010.0000	0137.5	068.9	49.29
083.0	002.9950	0130.8	027.2	187.2	010.0000	0137.5	069.4	49.13
084.0	002.9950	0128.9	027.0	187.2	010.0000	0137.6	069.9	48.98
085.0	002.9950	0129.9	027.1	187.1	010.0000	0137.1	070.3	48.82

10-25-2013 Terrain Data: NED 03 SEC FMOver Analysis

KCVO-FM BLED19930420KE

Channel = 219C3
Max ERP = 10 kW
RCAMSL = 402 M
N. Lat. 38 01 13.0
W. Lng. 92 45 27.0
Protected
60 dBu

KQOH

Channel = 220A
Max ERP = 2.995 kW
RCAMSL = 529.5 M
N. Lat. 37 22 18.3
W. Lng. 93 09 40.9
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
146.0	010.0000	0105.2	032.7	050.0	001.8900	0142.5	070.2	41.88	
147.0	010.0000	0103.9	032.5	049.7	001.8733	0142.3	069.7	42.01	
148.0	010.0000	0102.3	032.2	049.5	001.8527	0142.2	069.1	42.12	
149.0	010.0000	0101.4	032.1	049.3	001.8377	0142.2	068.6	42.26	
150.0	010.0000	0099.4	031.8	048.9	001.8118	0142.8	068.1	42.39	
151.0	010.0000	0096.8	031.3	048.5	001.7780	0144.0	067.7	42.51	
152.0	010.0000	0094.7	031.0	048.1	001.7491	0144.7	067.2	42.63	
153.0	010.0000	0091.6	030.5	047.6	001.7095	0144.9	066.8	42.67	
154.0	010.0000	0087.9	029.9	047.0	001.6639	0144.6	066.5	42.65	
155.0	010.0000	0087.5	029.8	046.8	001.6496	0144.8	066.0	42.77	
156.0	010.0000	0089.7	030.2	046.9	001.6611	0144.6	065.4	43.00	
157.0	010.0000	0092.1	030.6	047.1	001.6744	0144.7	064.8	43.24	
158.0	010.0000	0093.9	030.9	047.2	001.6800	0144.7	064.2	43.45	
159.0	010.0000	0095.2	031.1	047.2	001.6805	0144.7	063.6	43.65	
160.0	010.0000	0094.2	030.9	046.9	001.6572	0144.7	063.1	43.74	
161.0	010.0000	0093.5	030.8	046.6	001.6359	0144.9	062.7	43.85	
162.0	010.0000	0093.1	030.7	046.3	001.6165	0145.2	062.2	43.97	
163.0	010.0000	0096.1	031.2	046.5	001.6305	0145.0	061.5	44.24	
164.0	010.0000	0098.6	031.6	046.6	001.6381	0144.9	060.9	44.49	
165.0	010.0000	0100.3	031.9	046.6	001.6369	0144.9	060.2	44.71	
166.0	010.0000	0102.6	032.3	046.6	001.6413	0144.9	059.6	44.96	
167.0	010.0000	0101.6	032.1	046.2	001.6120	0145.2	059.2	45.05	
168.0	010.0000	0102.2	032.2	046.0	001.5977	0145.6	058.6	45.23	
169.0	010.0000	0104.9	032.6	046.1	001.6013	0145.5	057.9	45.49	
170.0	010.0000	0105.1	032.7	045.8	001.5814	0146.0	057.4	45.65	
171.0	010.0000	0107.6	033.0	045.8	001.5802	0146.0	056.8	45.90	
172.0	010.0000	0111.1	033.5	045.9	001.5856	0145.9	056.0	46.20	
173.0	010.0000	0113.3	033.8	045.8	001.5777	0146.1	055.3	46.44	
174.0	010.0000	0117.4	034.4	045.8	001.5824	0146.0	054.5	46.75	
175.0	010.0000	0119.0	034.6	045.6	001.5659	0146.4	053.9	46.95	
176.0	010.0000	0115.2	034.1	044.8	001.5103	0147.3	053.8	46.90	
177.0	010.0000	0114.3	034.0	044.3	001.4746	0147.5	053.4	46.95	

178.0	010.0000	0114.4	034.0	043.8	001.4449	0147.6	053.0	47.03
179.0	010.0000	0114.4	034.0	043.4	001.4147	0147.5	052.6	47.10
180.0	010.0000	0119.4	034.6	043.4	001.4155	0147.5	051.7	47.44
181.0	010.0000	0125.1	035.3	043.4	001.4164	0147.5	050.8	47.79
182.0	010.0000	0125.1	035.3	042.9	001.3820	0148.1	050.4	47.88
183.0	010.0000	0125.6	035.3	042.4	001.3493	0149.1	049.9	48.00
184.0	010.0000	0135.4	036.5	042.7	001.3683	0148.4	048.6	48.52
185.0	010.0000	0137.3	036.7	042.3	001.3400	0149.4	048.1	48.71
186.0	010.0000	0134.3	036.4	041.4	001.2842	0150.8	048.0	48.63
187.0	010.0000	0136.8	036.7	041.0	001.2574	0150.8	047.4	48.78
188.0	010.0000	0138.1	036.8	040.4	001.2230	0151.1	046.9	48.87
189.0	010.0000	0135.5	036.5	039.6	001.1963	0152.5	046.8	48.87
190.0	010.0000	0137.0	036.7	039.0	001.1963	0154.1	046.3	49.14
191.0	010.0000	0134.4	036.4	038.1	001.1963	0155.3	046.3	49.22
192.0	010.0000	0133.7	036.3	037.4	001.1963	0156.6	046.1	49.37
193.0	010.0000	0134.6	036.4	036.7	001.1963	0157.8	045.7	49.58
194.0	010.0000	0133.7	036.3	035.9	001.1963	0158.8	045.6	49.69
195.0	010.0000	0129.4	035.8	035.0	001.1963	0160.6	045.8	49.68
196.0	010.0000	0129.4	035.8	034.2	001.1963	0160.4	045.6	49.75
197.0	010.0000	0127.8	035.6	033.4	001.1963	0160.4	045.6	49.76
198.0	010.0000	0131.1	036.0	032.8	001.1963	0159.8	045.1	49.96
199.0	010.0000	0139.1	036.9	032.3	001.1963	0159.5	044.0	50.40
200.0	010.0000	0140.0	037.1	031.5	001.1963	0158.6	043.7	50.47
201.0	010.0000	0142.3	037.3	030.7	001.1963	0156.9	043.4	50.54
202.0	010.0000	0145.2	037.7	029.9	001.1945	0156.3	042.9	50.71
203.0	010.0000	0139.2	037.0	029.0	001.1692	0156.8	043.5	50.36
204.0	010.0000	0135.9	036.6	028.1	001.1464	0157.9	043.9	50.19
205.0	010.0000	0135.8	036.6	027.2	001.1252	0158.7	043.8	50.16
206.0	010.0000	0140.0	037.0	026.4	001.1044	0158.2	043.3	50.28
207.0	010.0000	0140.4	037.1	025.6	001.0830	0157.9	043.3	50.20
208.0	010.0000	0141.2	037.2	024.7	001.0617	0157.9	043.2	50.14
209.0	010.0000	0149.5	038.2	023.7	001.0378	0157.0	042.3	50.42
210.0	010.0000	0155.1	038.9	022.7	001.0135	0155.1	041.7	50.48
211.0	010.0000	0157.4	039.1	021.7	000.9900	0153.9	041.5	50.39
212.0	010.0000	0156.4	039.0	020.8	000.9688	0154.3	041.7	50.21
213.0	010.0000	0157.1	039.1	019.9	000.9472	0154.3	041.8	50.09
214.0	010.0000	0158.8	039.3	018.9	000.9277	0155.1	041.8	50.05
215.0	010.0000	0164.5	039.9	017.8	000.9046	0157.3	041.4	50.25
216.0	010.0000	0164.0	039.9	016.9	000.8871	0156.2	041.6	49.99
217.0	010.0000	0164.9	040.0	015.9	000.8687	0157.1	041.8	49.87
218.0	010.0000	0167.5	040.2	014.9	000.8488	0156.9	041.8	49.77
219.0	010.0000	0172.9	040.8	013.7	000.8261	0155.9	041.5	49.69
220.0	010.0000	0178.2	041.3	012.5	000.8037	0156.7	041.4	49.68
221.0	010.0000	0178.7	041.3	011.6	000.7869	0156.8	041.7	49.45
222.0	010.0000	0175.1	041.0	011.0	000.7755	0157.5	042.4	49.13
223.0	010.0000	0176.1	041.1	010.1	000.7593	0159.2	042.7	49.00
224.0	010.0000	0179.1	041.4	009.1	000.7745	0160.0	042.8	49.05
225.0	010.0000	0173.7	040.9	008.7	000.7817	0160.2	043.7	48.74
226.0	010.0000	0169.6	040.5	008.3	000.7894	0160.3	044.4	48.46
227.0	010.0000	0169.4	040.4	007.6	000.8022	0160.3	044.9	48.33
228.0	010.0000	0171.6	040.7	006.7	000.8185	0162.4	045.1	48.41
229.0	010.0000	0162.9	039.7	006.8	000.8165	0162.1	046.3	47.91
230.0	010.0000	0161.8	039.6	006.3	000.8263	0162.6	046.9	47.75
231.0	010.0000	0159.4	039.3	005.9	000.8333	0162.4	047.5	47.51
232.0	010.0000	0156.6	039.0	005.6	000.8391	0162.0	048.2	47.25
233.0	010.0000	0156.7	039.0	005.1	000.8497	0161.7	048.7	47.09
234.0	010.0000	0149.3	038.2	005.3	000.8453	0161.8	049.8	46.66
235.0	010.0000	0148.5	038.1	004.9	000.8534	0161.7	050.4	46.48
236.0	010.0000	0147.3	037.9	004.5	000.8600	0162.2	051.0	46.30
237.0	010.0000	0143.9	037.5	004.4	000.8619	0162.5	051.8	46.03
238.0	010.0000	0139.4	037.0	004.5	000.8610	0162.4	052.6	45.69
239.0	010.0000	0135.7	036.5	004.4	000.8615	0162.4	053.4	45.40
240.0	010.0000	0134.4	036.4	004.2	000.8666	0163.1	054.0	45.23

Figure 2-1

241.0	010.0000	0136.8	036.7	003.6	000.8785	0164.0	054.4	45.19
242.0	010.0000	0135.1	036.5	003.4	000.8820	0164.1	055.0	44.96
243.0	010.0000	0133.8	036.3	003.2	000.8860	0164.1	055.6	44.75
244.0	010.0000	0133.1	036.2	002.9	000.8908	0164.1	056.2	44.55
245.0	010.0000	0130.4	035.9	002.9	000.8914	0164.2	056.9	44.29
246.0	010.0000	0126.7	035.5	003.0	000.8893	0164.1	057.7	44.00
247.0	010.0000	0121.2	034.8	003.3	000.8838	0164.1	058.5	43.66
248.0	010.0000	0120.8	034.8	003.1	000.8880	0164.1	059.1	43.47
249.0	010.0000	0122.0	034.9	002.7	000.8953	0164.3	059.6	43.34
250.0	010.0000	0124.6	035.2	002.2	000.9049	0164.7	060.0	43.24
251.0	010.0000	0125.1	035.3	001.9	000.9104	0165.1	060.6	43.09
252.0	010.0000	0128.4	035.7	001.4	000.9211	0166.2	061.0	43.03
253.0	010.0000	0130.6	035.9	001.0	000.9295	0166.5	061.5	42.91
254.0	010.0000	0131.4	036.0	000.7	000.9348	0166.4	062.1	42.73
255.0	010.0000	0135.1	036.5	000.2	000.9458	0165.9	062.6	42.59
256.0	010.0000	0137.6	036.8	359.8	000.9549	0166.0	063.1	42.45
257.0	010.0000	0136.3	036.6	359.8	000.9548	0166.0	063.8	42.22
258.0	010.0000	0137.4	036.7	359.5	000.9604	0166.1	064.4	42.05
259.0	010.0000	0139.3	037.0	359.2	000.9676	0165.9	065.0	41.88
260.0	010.0000	0141.4	037.2	358.9	000.9750	0165.6	065.6	41.70
261.0	010.0000	0141.7	037.3	358.8	000.9778	0165.5	066.2	41.49
262.0	010.0000	0143.5	037.5	358.5	000.9838	0165.2	066.8	41.30
263.0	010.0000	0143.6	037.5	358.5	000.9856	0165.1	067.5	41.09
264.0	010.0000	0145.1	037.7	358.3	000.9902	0165.0	068.1	40.89
265.0	010.0000	0149.4	038.2	357.8	001.0015	0165.4	068.7	40.75

Figure 2-2
Minor Modification of KQOH

FMCommander Single Allocation Study - 10-25-2013 - NED 03 SEC
KQOH's Overlaps (In= 2.56 km, Out= 2.33 km)

KQOH CH 220 A DA
Lat= 37 22 18.3, Lng= 93 09 40.9
2.995 kW 143.9 M HAAT, 529.5 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KKOZ-FM^ CH 221 A BMLH19970905KA
Lat= 36 55 48.0, Lng= 92 39 19.0
Max Cls: 6.0 kW 100 M HAAT, 455 M COR
Prot.= 60 dBu, Intef.= 54 dBu

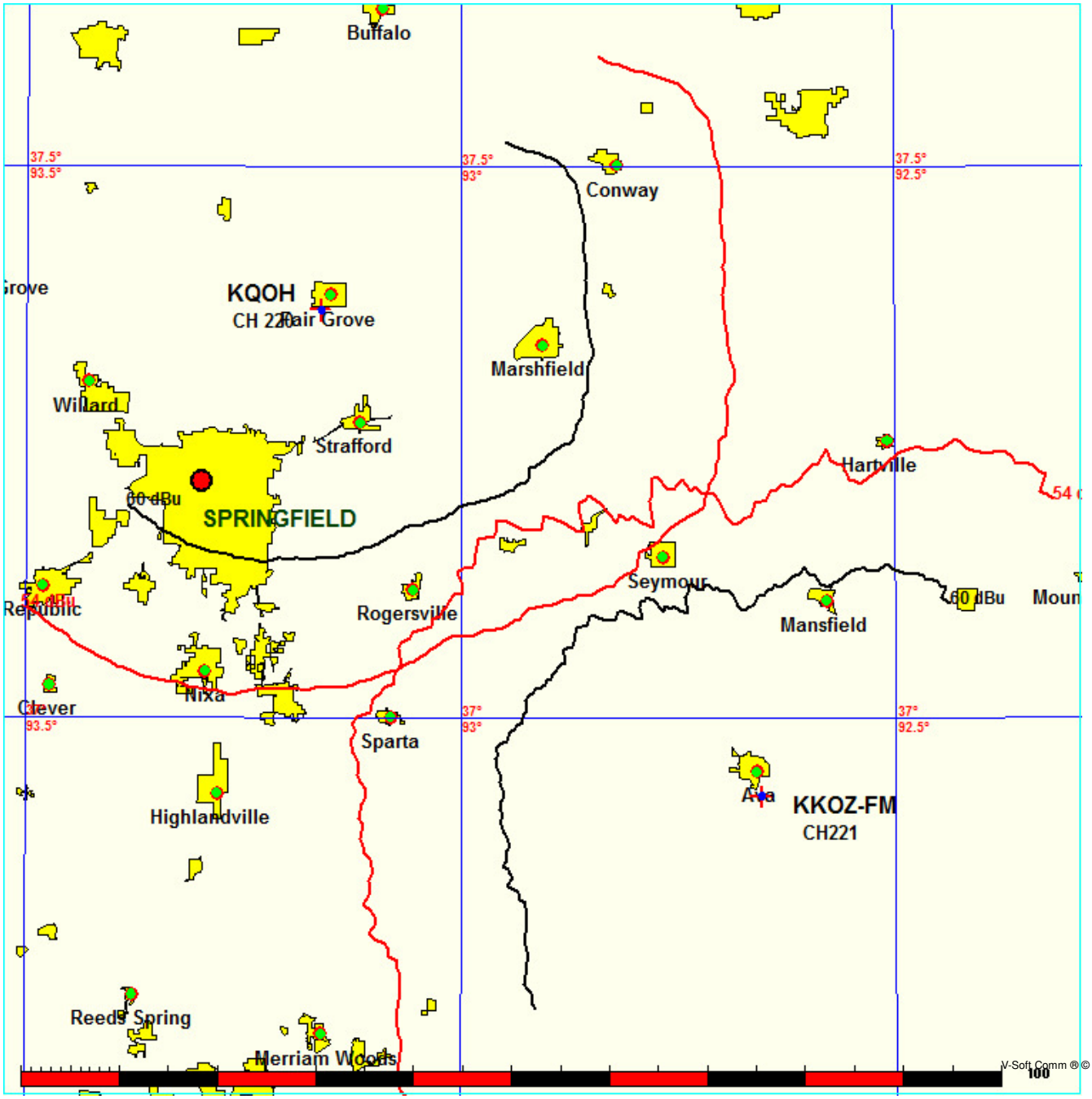

Figure 2-3

10-25-2013 Terrain Data: NED 03 SEC FMOver Analysis

KQOH

Channel = 220A
Max ERP = 2.995 kW
RCAMSL = 529.5 M
N. Lat. 37 22 18.3
W. Lng. 93 09 40.9
Protected
60 dBu

KKOZ-FM BMLH19970905KA
(^ Max Class Parameters)
Channel = 221A
Max ERP = 6 kW
RCAMSL = 455 M
N. Lat. 36 55 48.0
W. Lng. 92 39 19.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
077.0	002.9950	0134.2	027.5	342.1	006.0000	0059.8	058.1	45.48	
078.0	002.9950	0133.1	027.4	341.9	006.0000	0060.3	057.6	45.67	
079.0	002.9950	0132.5	027.3	341.8	006.0000	0060.4	057.2	45.82	
080.0	002.9950	0132.0	027.3	341.7	006.0000	0060.5	056.7	45.97	
081.0	002.9950	0132.5	027.3	341.7	006.0000	0060.5	056.2	46.12	
082.0	002.9950	0132.4	027.3	341.6	006.0000	0060.5	055.8	46.27	
083.0	002.9950	0130.8	027.2	341.3	006.0000	0060.7	055.3	46.42	
084.0	002.9950	0128.9	027.0	341.1	006.0000	0060.6	054.9	46.54	
085.0	002.9950	0129.9	027.1	341.0	006.0000	0060.5	054.4	46.69	
086.0	002.9950	0129.5	027.1	340.9	006.0000	0059.5	054.0	46.74	
087.0	002.9950	0127.8	026.9	340.6	006.0000	0057.9	053.5	46.71	
088.0	002.9950	0127.2	026.9	340.4	006.0000	0057.1	053.1	46.76	
089.0	002.9950	0127.8	026.9	340.3	006.0000	0056.7	052.7	46.85	
090.0	002.9950	0128.2	027.0	340.1	006.0000	0056.3	052.2	46.95	
091.0	002.9950	0128.7	027.0	340.0	006.0000	0056.0	051.7	47.07	
092.0	002.9950	0129.4	027.1	339.9	006.0000	0055.9	051.3	47.20	
093.0	002.9950	0131.0	027.2	339.8	006.0000	0055.9	050.8	47.35	
094.0	002.9950	0132.1	027.3	339.7	006.0000	0056.1	050.3	47.51	
095.0	002.9950	0133.0	027.4	339.5	006.0000	0055.8	049.9	47.62	
096.0	002.9950	0134.6	027.5	339.4	006.0000	0055.5	049.4	47.73	
097.0	002.9950	0136.3	027.7	339.3	006.0000	0055.2	048.9	47.86	
098.0	002.9950	0139.2	027.9	339.3	006.0000	0055.2	048.3	48.02	
099.0	002.9950	0141.4	028.1	339.2	006.0000	0055.0	047.8	48.15	
100.0	002.9950	0141.2	028.1	338.9	006.0000	0053.5	047.4	48.08	
101.0	002.9950	0139.1	027.9	338.4	006.0000	0049.5	047.1	47.63	
102.0	002.9950	0137.3	027.8	337.9	006.0000	0046.1	046.8	47.22	
103.0	002.9950	0139.1	027.9	337.7	006.0000	0046.1	046.3	47.37	
104.0	002.9950	0141.2	028.1	337.5	006.0000	0046.3	045.8	47.55	
105.0	002.9950	0142.7	028.2	337.3	006.0000	0046.8	045.3	47.76	
106.0	002.9950	0144.0	028.3	337.0	006.0000	0048.0	044.8	48.09	
107.0	002.9950	0145.2	028.4	336.7	006.0000	0048.6	044.4	48.32	
108.0	002.9950	0141.1	028.1	335.9	006.0000	0049.8	044.3	48.55	
109.0	002.9950	0142.9	028.2	335.6	006.0000	0050.3	043.8	48.78	
110.0	002.9950	0145.7	028.5	335.4	006.0000	0051.4	043.3	49.11	
111.0	002.9950	0145.9	028.5	335.0	006.0000	0052.1	042.9	49.34	
112.0	002.9950	0148.1	028.7	334.7	006.0000	0051.8	042.4	49.47	
113.0	002.9950	0147.4	028.6	334.1	006.0000	0051.6	042.1	49.53	
114.0	002.9950	0147.0	028.6	333.5	006.0000	0052.4	041.8	49.76	
115.0	002.9950	0148.2	028.7	333.1	006.0000	0054.2	041.4	50.16	
116.0	002.9950	0148.6	028.8	332.6	006.0000	0053.3	041.1	50.15	
117.0	002.9950	0150.4	028.9	332.1	006.0000	0052.1	040.7	50.12	
118.0	002.9950	0148.5	028.7	331.4	006.0000	0056.7	040.6	50.83	
119.0	002.9950	0143.8	028.3	330.5	006.0000	0062.5	040.6	51.51	
120.0	002.9950	0140.6	028.0	329.7	006.0000	0064.2	040.6	51.70	
121.0	002.9950	0137.3	027.8	328.9	006.0000	0063.6	040.7	51.62	
122.0	002.9950	0135.2	027.6	328.2	006.0000	0063.7	040.6	51.66	

Figure 2-3

123.0	002.9950	0132.8	027.4	327.4	006.0000	0063.6	040.6	51.65
124.0	002.9950	0132.6	027.3	326.8	006.0000	0060.0	040.4	51.30
125.0	002.9950	0131.0	027.2	326.1	006.0000	0056.4	040.4	50.85
126.0	002.9950	0128.6	027.0	325.4	006.0000	0053.1	040.4	50.37
127.0	002.9950	0125.2	026.7	324.6	006.0000	0058.8	040.5	51.11
128.0	002.9950	0128.7	027.0	324.1	006.0000	0060.9	040.1	51.53
129.0	002.9950	0131.4	027.2	323.5	006.0000	0062.1	039.8	51.79
130.0	002.9950	0130.1	027.1	322.8	006.0000	0065.1	039.8	52.14
131.0	002.9950	0127.0	026.9	322.1	006.0000	0067.1	039.9	52.29
132.0	002.9950	0125.7	026.8	321.4	006.0000	0067.6	040.0	52.34
133.0	002.9950	0126.6	026.8	320.7	006.0000	0064.7	039.8	52.07
134.0	002.9950	0122.9	026.5	320.0	006.0000	0064.0	040.1	51.89
135.0	002.9950	0121.1	026.4	319.4	006.0000	0065.3	040.2	52.00
136.0	002.9950	0119.6	026.2	318.7	006.0000	0066.8	040.3	52.13
137.0	002.9950	0116.9	026.0	318.0	006.0000	0068.2	040.5	52.19
138.0	002.9950	0113.6	025.7	317.4	006.0000	0072.3	040.8	52.52
139.0	002.9950	0113.6	025.7	316.8	006.0000	0076.2	040.9	52.92
140.0	002.9950	0109.8	025.3	316.2	006.0000	0078.2	041.3	52.97
141.0	002.9950	0108.4	025.1	315.6	006.0000	0077.5	041.4	52.83
142.0	002.9950	0107.6	025.1	315.0	006.0000	0075.6	041.6	52.57
143.0	002.9950	0104.8	024.8	314.5	006.0000	0074.5	041.9	52.32
144.0	002.9950	0103.5	024.6	313.9	006.0000	0074.4	042.1	52.23
145.0	002.9950	0101.5	024.4	313.4	006.0000	0075.9	042.5	52.26
146.0	002.9950	0102.5	024.5	312.8	006.0000	0077.2	042.4	52.40
147.0	002.9950	0103.3	024.6	312.2	006.0000	0077.7	042.5	52.45
148.0	002.9950	0102.8	024.5	311.7	006.0000	0078.4	042.6	52.46
149.0	002.9950	0102.9	024.5	311.1	006.0000	0077.2	042.7	52.30
150.0	002.9950	0102.5	024.5	310.6	006.0000	0076.2	042.9	52.12
151.0	002.9950	0101.5	024.4	310.2	006.0000	0075.2	043.2	51.92
152.0	002.9950	0100.9	024.3	309.7	006.0000	0075.1	043.4	51.83
153.0	002.9950	0098.9	024.1	309.3	006.0000	0074.4	043.8	51.61
154.0	002.9950	0099.2	024.1	308.8	006.0000	0073.0	043.9	51.42
155.0	002.9950	0099.4	024.1	308.3	006.0000	0072.5	044.1	51.31
156.0	002.9950	0097.6	023.9	307.9	006.0000	0073.5	044.5	51.26
157.0	002.9950	0096.3	023.8	307.5	006.0000	0074.6	044.8	51.25
158.0	002.9950	0095.6	023.7	307.1	006.0000	0075.7	045.1	51.26
159.0	002.9950	0095.3	023.7	306.7	006.0000	0075.8	045.3	51.19
160.0	002.9950	0096.4	023.8	306.2	006.0000	0076.2	045.5	51.18
161.0	002.9950	0097.1	023.9	305.7	006.0000	0076.0	045.6	51.10
162.0	002.9950	0098.0	024.0	305.2	006.0000	0073.2	045.8	50.76
163.0	002.9950	0098.9	024.1	304.7	006.0000	0071.2	046.0	50.50
164.0	002.9950	0099.5	024.2	304.2	006.0000	0070.5	046.2	50.35
165.0	002.9950	0100.9	024.3	303.7	006.0000	0071.6	046.3	50.41
166.0	002.9950	0101.2	024.4	303.3	006.0000	0072.4	046.6	50.40
167.0	002.9950	0102.2	024.5	302.8	006.0000	0072.7	046.8	50.36
168.0	002.9950	0103.4	024.6	302.3	006.0000	0073.2	047.0	50.33
169.0	002.9950	0103.2	024.6	302.0	006.0000	0073.0	047.3	50.20
170.0	002.9950	0103.3	024.6	301.6	006.0000	0072.5	047.7	50.05
171.0	002.9950	0104.9	024.8	301.1	006.0000	0072.6	047.9	49.99
172.0	002.9950	0106.0	024.9	300.7	006.0000	0072.8	048.1	49.92
173.0	002.9950	0106.6	024.9	300.3	006.0000	0072.6	048.4	49.80
174.0	002.9950	0106.5	024.9	300.0	006.0000	0073.2	048.8	49.73
175.0	002.9950	0107.9	025.1	299.6	006.0000	0073.7	049.1	49.69
176.0	002.9950	0108.3	025.1	299.3	006.0000	0073.5	049.4	49.56
177.0	002.9950	0109.4	025.2	298.9	006.0000	0073.5	049.7	49.45
178.0	002.9950	0109.3	025.2	298.6	006.0000	0073.8	050.1	49.35
179.0	002.9950	0108.0	025.1	298.5	006.0000	0074.1	050.5	49.22
180.0	002.9950	0108.9	025.2	298.2	006.0000	0074.9	050.9	49.18
181.0	002.9950	0109.2	025.2	297.9	006.0000	0075.3	051.3	49.09
182.0	002.9950	0110.3	025.3	297.6	006.0000	0075.6	051.6	48.99
183.0	002.9950	0110.2	025.3	297.4	006.0000	0075.5	052.0	48.84
184.0	002.9950	0110.5	025.4	297.2	006.0000	0074.9	052.4	48.66
185.0	002.9950	0110.4	025.3	297.0	006.0000	0074.7	052.8	48.49

Figure 2-3

186.0	002.9950	0110.9	025.4	296.8	006.0000	0074.4	053.2	48.33
187.0	002.9950	0111.6	025.5	296.6	006.0000	0074.8	053.6	48.23
188.0	002.9950	0112.2	025.5	296.3	006.0000	0075.3	054.0	48.13
189.0	002.9950	0112.7	025.6	296.1	006.0000	0076.0	054.4	48.05
190.0	002.9950	0113.5	025.7	295.9	006.0000	0076.9	054.8	47.98
191.0	002.9950	0114.9	025.8	295.7	006.0000	0078.0	055.2	47.94
192.0	002.9950	0117.6	026.1	295.3	006.0000	0079.0	055.6	47.89
193.0	002.9950	0120.4	026.3	295.0	006.0000	0079.8	056.0	47.81
194.0	002.9950	0120.2	026.3	294.9	006.0000	0079.9	056.5	47.67
195.0	002.9950	0119.6	026.2	294.9	006.0000	0079.9	056.9	47.51
196.0	002.9950	0120.7	026.3	294.7	006.0000	0080.1	057.4	47.37

10-25-2013 Terrain Data: NED 03 SEC FMOver Analysis

KKOZ-FM BMLH19970905KA
(^ Max Class Parameters)
Channel = 221A
Max ERP = 6 kW
RCAMSL = 455 M
N. Lat. 36 55 48.0
W. Lng. 92 39 19.0
Protected
60 dBu

KQOH

Channel = 220A
Max ERP = 2.995 kW
RCAMSL = 529.5 M
N. Lat. 37 22 18.3
W. Lng. 93 09 40.9
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
258.0	006.0000	0087.4	026.6	160.8	002.9950	0097.1	057.9	45.41	
259.0	006.0000	0084.7	026.2	160.4	002.9950	0096.7	057.5	45.53	
260.0	006.0000	0084.7	026.2	160.3	002.9950	0096.7	057.0	45.69	
261.0	006.0000	0085.1	026.2	160.3	002.9950	0096.6	056.6	45.86	
262.0	006.0000	0086.8	026.5	160.4	002.9950	0096.8	056.1	46.06	
263.0	006.0000	0087.1	026.5	160.4	002.9950	0096.8	055.6	46.23	
264.0	006.0000	0088.5	026.7	160.5	002.9950	0096.9	055.1	46.42	
265.0	006.0000	0087.5	026.6	160.2	002.9950	0096.5	054.7	46.55	
266.0	006.0000	0086.5	026.4	159.9	002.9950	0096.3	054.3	46.69	
267.0	006.0000	0088.3	026.7	160.0	002.9950	0096.4	053.8	46.89	
268.0	006.0000	0087.1	026.5	159.7	002.9950	0096.1	053.4	47.02	
269.0	006.0000	0086.8	026.5	159.5	002.9950	0096.0	052.9	47.17	
270.0	006.0000	0084.9	026.2	159.1	002.9950	0095.4	052.6	47.25	
271.0	006.0000	0084.9	026.2	158.9	002.9950	0095.3	052.2	47.40	
272.0	006.0000	0087.2	026.5	159.0	002.9950	0095.4	051.6	47.62	
273.0	006.0000	0088.9	026.8	159.1	002.9950	0095.4	051.1	47.82	
274.0	006.0000	0088.0	026.6	158.7	002.9950	0095.2	050.7	47.94	
275.0	006.0000	0088.8	026.8	158.6	002.9950	0095.2	050.3	48.12	
276.0	006.0000	0091.1	027.1	158.7	002.9950	0095.2	049.7	48.33	
277.0	006.0000	0092.0	027.2	158.6	002.9950	0095.2	049.2	48.51	
278.0	006.0000	0092.8	027.3	158.4	002.9950	0095.2	048.7	48.68	
279.0	006.0000	0091.5	027.1	158.0	002.9950	0095.6	048.4	48.83	
280.0	006.0000	0093.9	027.5	158.0	002.9950	0095.6	047.8	49.04	
281.0	006.0000	0091.4	027.1	157.4	002.9950	0096.1	047.6	49.17	
282.0	006.0000	0086.8	026.5	156.4	002.9950	0097.0	047.6	49.24	
283.0	006.0000	0086.8	026.5	156.1	002.9950	0097.5	047.2	49.43	
284.0	006.0000	0086.9	026.5	155.7	002.9950	0098.1	046.9	49.61	
285.0	006.0000	0084.5	026.1	155.1	002.9950	0099.4	046.7	49.77	
286.0	006.0000	0083.2	025.9	154.5	002.9950	0099.1	046.5	49.83	
287.0	006.0000	0079.6	025.4	153.7	002.9950	0098.7	046.5	49.79	
288.0	006.0000	0080.4	025.5	153.4	002.9950	0098.7	046.1	49.95	
289.0	006.0000	0080.3	025.5	153.0	002.9950	0098.9	045.8	50.08	

290.0	006.0000	0079.2	025.4	152.4	002.9950	0100.1	045.6	50.25
291.0	006.0000	0080.9	025.6	152.2	002.9950	0100.5	045.1	50.47
292.0	006.0000	0082.8	025.9	152.0	002.9950	0100.9	044.6	50.69
293.0	006.0000	0082.6	025.9	151.6	002.9950	0101.4	044.4	50.85
294.0	006.0000	0080.2	025.5	150.8	002.9950	0101.3	044.4	50.84
295.0	006.0000	0079.7	025.4	150.3	002.9950	0102.1	044.2	50.98
296.0	006.0000	0076.7	025.0	149.5	002.9950	0103.5	044.3	51.04
297.0	006.0000	0074.7	024.7	148.8	002.9950	0102.6	044.3	50.96
298.0	006.0000	0075.2	024.8	148.4	002.9950	0102.5	044.0	51.07
299.0	006.0000	0073.4	024.5	147.8	002.9950	0103.2	044.0	51.12
300.0	006.0000	0073.2	024.5	147.2	002.9950	0103.4	043.8	51.21
301.0	006.0000	0072.7	024.4	146.7	002.9950	0102.7	043.7	51.20
302.0	006.0000	0073.0	024.4	146.2	002.9950	0102.5	043.5	51.27
303.0	006.0000	0072.6	024.4	145.7	002.9950	0102.3	043.4	51.31
304.0	006.0000	0070.8	024.1	145.0	002.9950	0101.5	043.5	51.21
305.0	006.0000	0072.3	024.3	144.6	002.9950	0101.8	043.1	51.38
306.0	006.0000	0076.4	024.9	144.3	002.9950	0102.7	042.4	51.74
307.0	006.0000	0075.9	024.9	143.7	002.9950	0104.0	042.3	51.87
308.0	006.0000	0073.1	024.4	143.0	002.9950	0104.8	042.6	51.82
309.0	006.0000	0073.5	024.5	142.5	002.9950	0105.1	042.5	51.91
310.0	006.0000	0075.2	024.8	142.0	002.9950	0107.6	042.1	52.24
311.0	006.0000	0077.0	025.0	141.5	002.9950	0109.1	041.8	52.49
312.0	006.0000	0078.5	025.2	140.9	002.9950	0108.4	041.5	52.57
313.0	006.0000	0076.6	025.0	140.3	002.9950	0108.7	041.7	52.50
314.0	006.0000	0074.3	024.6	139.6	002.9950	0111.8	042.0	52.60
315.0	006.0000	0075.6	024.8	139.1	002.9950	0113.6	041.7	52.82
316.0	006.0000	0078.2	025.2	138.5	002.9950	0113.4	041.3	52.99
317.0	006.0000	0075.0	024.7	137.9	002.9950	0113.8	041.8	52.82
318.0	006.0000	0068.3	023.7	137.3	002.9950	0115.4	042.8	52.50
319.0	006.0000	0066.3	023.4	136.8	002.9950	0117.7	043.1	52.51
320.0	006.0000	0064.0	023.1	136.3	002.9950	0118.8	043.5	52.43
321.0	006.0000	0066.0	023.4	135.7	002.9950	0119.8	043.2	52.60
322.0	006.0000	0067.3	023.6	135.1	002.9950	0120.9	043.0	52.73
323.0	006.0000	0064.4	023.1	134.7	002.9950	0121.4	043.5	52.55
324.0	006.0000	0061.2	022.6	134.2	002.9950	0122.5	044.1	52.38
325.0	006.0000	0056.0	021.8	133.9	002.9950	0123.0	045.0	52.03
326.0	006.0000	0055.5	021.7	133.5	002.9950	0124.7	045.2	52.06
327.0	006.0000	0060.8	022.6	132.8	002.9950	0126.4	044.4	52.48
328.0	006.0000	0063.9	023.1	132.1	002.9950	0125.8	044.0	52.59
329.0	006.0000	0063.6	023.0	131.6	002.9950	0126.1	044.2	52.54
330.0	006.0000	0064.6	023.2	131.1	002.9950	0126.9	044.2	52.59
331.0	006.0000	0060.2	022.5	130.9	002.9950	0127.4	044.9	52.30
332.0	006.0000	0052.4	021.1	131.0	002.9950	0126.9	046.4	51.68
333.0	006.0000	0054.3	021.4	130.4	002.9950	0129.0	046.2	51.88
334.0	006.0000	0051.7	020.9	130.3	002.9950	0129.3	046.8	51.64
335.0	006.0000	0052.2	021.0	129.8	002.9950	0130.9	046.8	51.71
336.0	006.0000	0049.7	020.5	129.7	002.9950	0131.4	047.5	51.49
337.0	006.0000	0048.0	020.1	129.5	002.9950	0131.6	047.9	51.31
338.0	006.0000	0046.6	019.8	129.3	002.9950	0131.6	048.4	51.14
339.0	006.0000	0054.0	021.4	128.0	002.9950	0128.7	047.2	51.45
340.0	006.0000	0056.0	021.8	127.4	002.9950	0125.8	047.1	51.34
341.0	006.0000	0060.3	022.5	126.5	002.9950	0126.3	046.7	51.52
342.0	006.0000	0060.1	022.5	126.1	002.9950	0128.0	046.9	51.52
343.0	006.0000	0055.7	021.7	126.3	002.9950	0127.3	047.8	51.15
344.0	006.0000	0055.1	021.6	126.0	002.9950	0128.7	048.1	51.10
345.0	006.0000	0056.5	021.9	125.4	002.9950	0130.2	048.1	51.16
346.0	006.0000	0057.3	022.0	125.0	002.9950	0131.0	048.3	51.15
347.0	006.0000	0053.2	021.2	125.2	002.9950	0130.6	049.1	50.81
348.0	006.0000	0054.2	021.4	124.8	002.9950	0131.5	049.2	50.82
349.0	006.0000	0051.9	021.0	124.8	002.9950	0131.3	049.8	50.59
350.0	006.0000	0051.4	020.9	124.6	002.9950	0131.9	050.1	50.48
351.0	006.0000	0051.1	020.8	124.4	002.9950	0132.6	050.4	50.41
352.0	006.0000	0049.0	020.4	124.5	002.9950	0132.4	051.0	50.17

Figure 2-3

353.0	006.0000	0044.0	019.2	125.1	002.9950	0130.7	052.0	49.68
354.0	006.0000	0041.9	018.7	125.3	002.9950	0130.5	052.6	49.45
355.0	006.0000	0041.6	018.7	125.1	002.9950	0130.8	052.9	49.35
356.0	006.0000	0042.8	019.0	124.6	002.9950	0131.8	052.9	49.38
357.0	006.0000	0043.5	019.1	124.3	002.9950	0132.7	053.1	49.36
358.0	006.0000	0043.5	019.1	124.1	002.9950	0132.7	053.4	49.26
359.0	006.0000	0047.6	020.1	123.0	002.9950	0132.8	053.1	49.37
000.0	006.0000	0048.0	020.1	122.7	002.9950	0133.2	053.3	49.30
001.0	006.0000	0048.0	020.1	122.5	002.9950	0133.8	053.6	49.21
002.0	006.0000	0050.9	020.8	121.8	002.9950	0135.4	053.6	49.30
003.0	006.0000	0051.4	020.9	121.5	002.9950	0135.9	053.9	49.23
004.0	006.0000	0053.4	021.3	120.9	002.9950	0137.5	054.0	49.26
005.0	006.0000	0052.6	021.1	120.9	002.9950	0137.6	054.4	49.11
006.0	006.0000	0053.2	021.2	120.6	002.9950	0138.7	054.7	49.06
007.0	006.0000	0054.8	021.6	120.2	002.9950	0140.2	054.9	49.07
008.0	006.0000	0057.5	022.0	119.5	002.9950	0141.8	055.1	49.09
009.0	006.0000	0060.0	022.5	119.0	002.9950	0143.9	055.3	49.12
010.0	006.0000	0060.9	022.6	118.7	002.9950	0145.0	055.6	49.05
011.0	006.0000	0066.2	023.4	117.8	002.9950	0149.4	055.7	49.24
012.0	006.0000	0062.7	022.9	118.2	002.9950	0147.5	056.3	48.94
013.0	006.0000	0062.2	022.8	118.2	002.9950	0147.7	056.7	48.79
014.0	006.0000	0062.2	022.8	118.0	002.9950	0148.3	057.1	48.68
015.0	006.0000	0060.0	022.5	118.3	002.9950	0147.1	057.5	48.44
016.0	006.0000	0057.8	022.1	118.6	002.9950	0145.9	058.0	48.20
017.0	006.0000	0058.2	022.2	118.4	002.9950	0146.6	058.4	48.11

KQOH 10-25-2013 RMS(V)= .933

Azi	Field	dBk	kW
000	0.563	-00.226	0.949
010	0.503	-01.205	0.758
020	0.563	-00.226	0.949
030	0.632	00.778	1.196
040	0.632	00.778	1.196
050	0.795	02.771	1.893
060	1.000	04.764	2.995
070	1.000	04.764	2.995
080	1.000	04.764	2.995
090	1.000	04.764	2.995
100	1.000	04.764	2.995
110	1.000	04.764	2.995
120	1.000	04.764	2.995
130	1.000	04.764	2.995
140	1.000	04.764	2.995
150	1.000	04.764	2.995
160	1.000	04.764	2.995
170	1.000	04.764	2.995
180	1.000	04.764	2.995
190	1.000	04.764	2.995
200	1.000	04.764	2.995
210	1.000	04.764	2.995
220	1.000	04.764	2.995
230	1.000	04.764	2.995
240	1.000	04.764	2.995
250	1.000	04.764	2.995
260	1.000	04.764	2.995
270	1.000	04.764	2.995
280	1.000	04.764	2.995
290	1.000	04.764	2.995
300	1.000	04.764	2.995
310	1.000	04.764	2.995
320	1.000	04.764	2.995
330	1.000	04.764	2.995
340	0.795	02.771	1.893
350	0.632	00.778	1.196

Graph is Relative Field

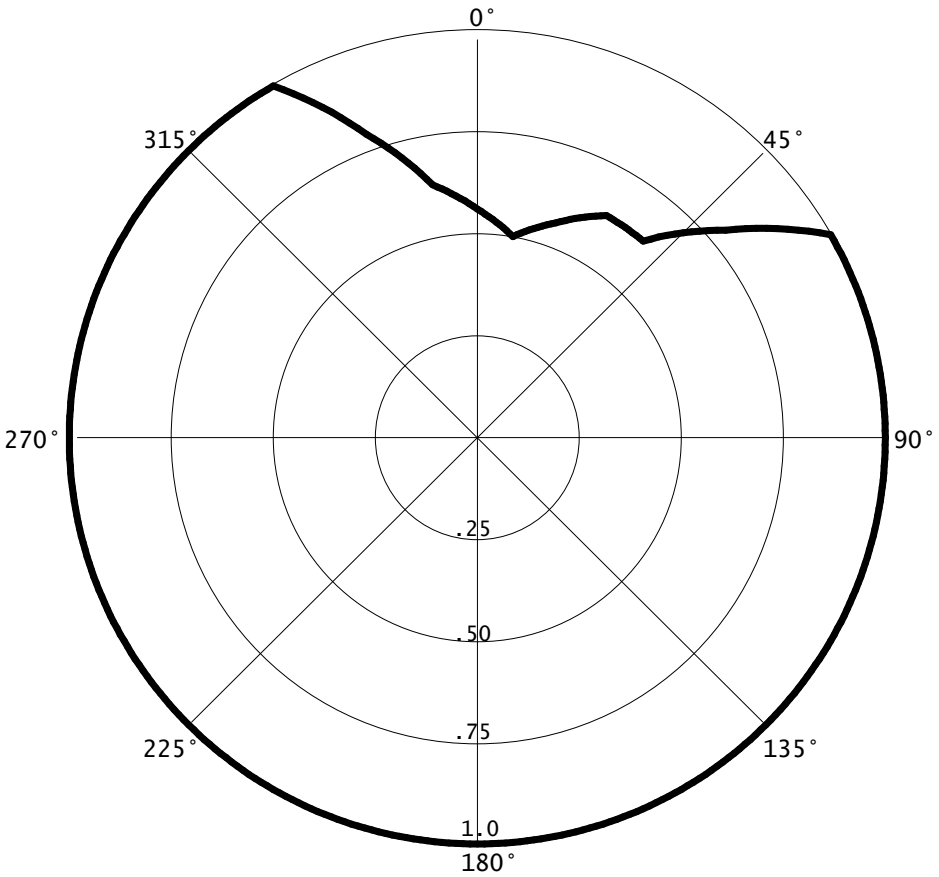

Figure 4
Minor Modification of KQOH

Coverage Study - NED 03 SEC
10-25-2013

KQOH CH220 A , 2.995 kW, 143.9M HAAT, 529.5M COR AMSL
Service Contour = 60 dBu. Population = 197,796