

KISUFM - Idaho State University

Minor Modification to CP

REFERENCE 42 51 46 N CH# 216C2 - 91.1 MHz, Pwr= 4.5 kW, HAAT=318.0 M, COR= 1841 M DISPLAY DATES
112 31 03 W Ave. F(50-10) 40 dBu= 108.8 54 dBu= 65.7 80 dBu= 15.1 100 dBu= 3.7 DATA 10-07-03
SEARCH 10-07-03

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
216C2 KISUFM Pocatello		CP VX ID	97.5 277.5	12.92 BPED20020115ACM	42 50 51 112 21 39	4.500 594	2075 103.5	59.1 Idaho State University	-166.38*<	-149.71*<
216A KISUFM Pocatello		LIC C ID	0.0 180.0	0.00 BLED19990702KA	42 51 46 112 31 03	0.410 -85	1841 130.2	8.1 Idaho State University	-80.58*<	-138.29*<
216C2 KBSS.C Sun Valley		CP DCN ID	300.3 120.3	175.54 BPED19970701MC	43 38 36 114 23 49	0.700 680	2644 128.6	44.0 Idaho State Board Of Educa	9.96	2.93
216A AP216 Jackson		APP CX WY	64.5 244.5	158.19 BNPED19991210AAG	43 27 40 110 45 09	0.400 495	2484 107.3	32.4 Broadcasting For The Chall	22.87	18.50
216A 990301 Jackson		APP CN WY	64.5 244.5	158.19 BPED19990301MA	43 27 40 110 45 09	0.250 481	2470 107.3	28.3 Abundant Life Broadcasting	30.41	22.56
216A AP216 Jackson		APP CX WY	64.5 244.5	158.19 BNPED19991214ACD	43 27 40 110 45 09	0.350 478	2467 107.3	30.7 The Moody Bible Institue	26.03	20.22
214C KCIR Twin Falls		LIC CY ID	237.0 57.0	106.75 BMLED19920811KA	42 20 07 113 36 17	20.000 872	2547 4.0	84.2 Faith Communications Corp	49.60	18.53
217A 981215 Ririe		APP CX ID	40.4 220.4	112.53 BPED19990527MF	43 37 46 111 36 43	0.090 428	2088 75.5	20.8 Faith Communications Corp.	30.72	16.24
218C KUSUFM Logan		LIC CN UT	161.2 341.2	114.51 BLED19880111KA	41 53 11 112 04 17	90.000 101	1841 1.6	50.1 Utah State Univ. Of Agri.	94.19	62.84
217A KUWA Afton		LIC CN WY	90.1 270.1	125.72 BLED19980710KB	42 51 02 110 58 46	0.400 -99	1996 60.7	8.0 University Of Wyoming	73.46	57.04
214A 990907 Idaho Falls		APP CN ID	33.9 213.9	91.44 BPED19990907MD	43 32 37 111 53 07	0.043 258	1702 4.1	13.4 Educational Media Foundati	39.41	73.92
214A 990901 Ririe		APP VN ID	27.8 207.8	108.80 BPED19990901MB	43 43 37 111 53 12	6.000 74	1540 4.1	24.6 Broadcasting For The Chall	54.02	80.06
215C KRCL Salt Lake City		LIC CN UT	173.8 353.8	246.10 BLED19791109AC	40 39 35 112 12 05	16.500 1375	2803 21.8	91.3 Listeners Community Radio	98.41	133.04
215C KRCL.C Salt Lake City		CP CX UT	173.8 353.8	246.13 BPED20011025ACD	40 39 34 112 12 05	25.000 1373	2803 21.8	95.9 Listeners Community Radio	91.51	128.49
213A 971205 Logan		APP DCN UT	161.3 341.3	113.39 BPED19971205MA	41 53 43 112 04 43	0.300 87	1869 1.6	12.6 Listners Community Radio O	97.57	99.21
06-2C KPVI Pocatello		LI HN ID	65.2 245.2	15.46 BLCT2335	42 55 15 112 20 44	100.000 590	2078 334.0	127.4 Oregon Trail Broadcasting	To Grd B=	-111.97

***Affixed to 'IN' or 'Out' values = site inside protected contour.
ERP and HAAT are on direct line to and from reference station. "<" = Contour Overlap

HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "*** IN ***" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "*** OUT ***" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

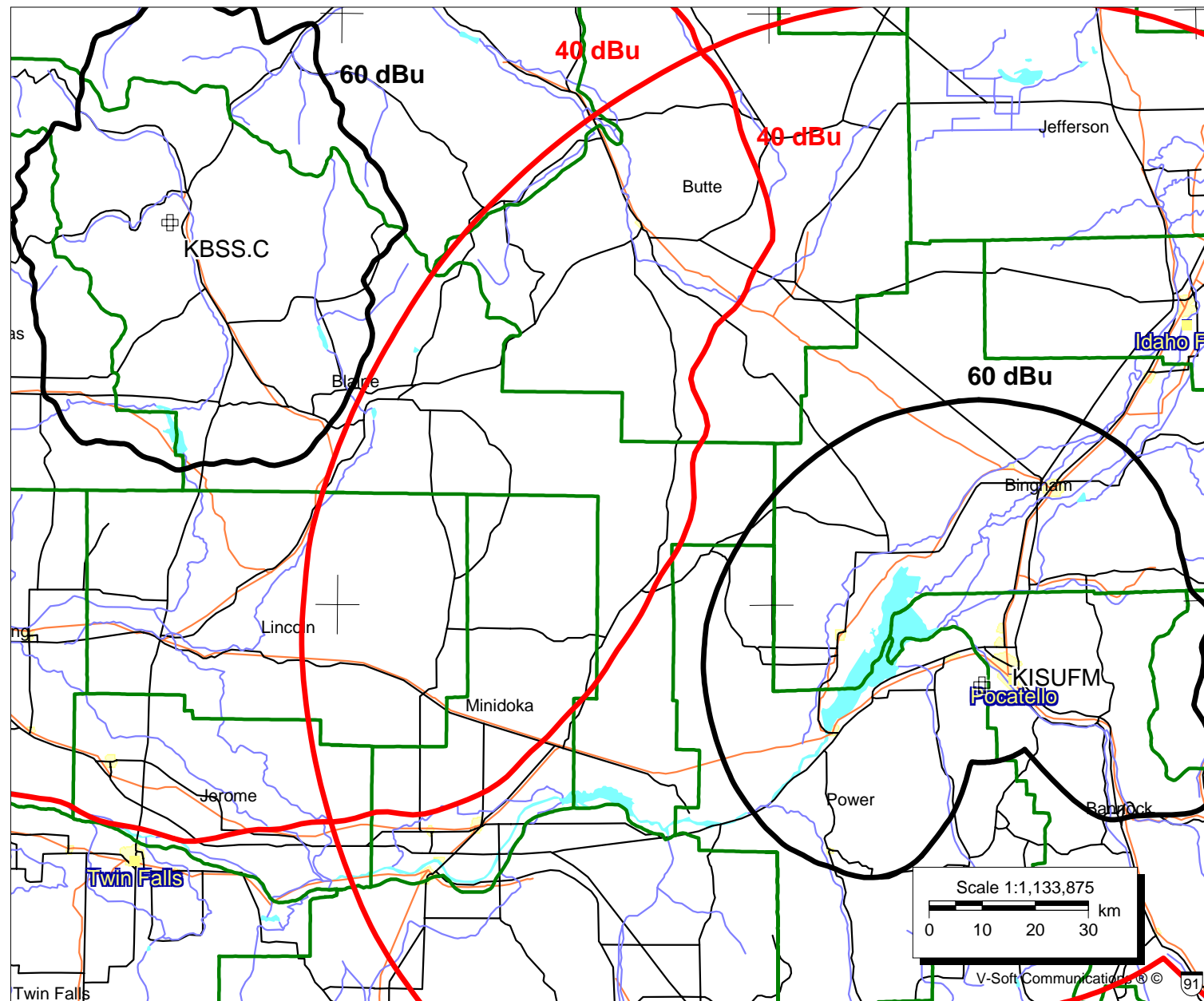
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates omni. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N".

KISUFM v KBSS.C

KISUFM Minor Mod
 BPED20020115ACM
 Latitude: 42-51-46 N
 Longitude: 112-31-03 W
 ERP: 4.50 kW
 Channel: 216
 Frequency: 91.1 MHz
 AMSL Height: 1841.0 m
 Elevation: 1697.75 m
 Horiz. Pattern: Omni

KBSS.C
 BPED19970701MC
 Latitude: 43-38-36 N
 Longitude: 114-23-49 W
 ERP: 0.70 kW
 Channel: 216
 Frequency: 91.1 MHz
 AMSL Height: 2644.0 m
 Elevation: 2633.0 m
 Horiz. Pattern: Directional

October 7, 2003



KISUFM
Channel = 216A
Max ERP = 4.5 kW
RCAMSL = 1841 M
N. Lat = 425146
W. Lng = 1123103

KBSS.C BPED19970701MC
Channel = 216C2
Max ERP = 0.7 kW
RCAMSL = 2644 M
N. Lat = 43 38 36
W. Lng = 114 23 49

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
283.0	004.5000	0477.1	053.0	126.2	000.7000	0700.5	125.6	36.7
284.0	004.5000	0477.3	053.0	125.8	000.7000	0700.5	125.2	36.8
285.0	004.5000	0476.9	052.9	125.4	000.7000	0694.7	124.9	36.8
286.0	004.5000	0476.4	052.9	125.0	000.7000	0694.7	124.6	36.9
287.0	004.5000	0476.1	052.9	124.6	000.7000	0694.7	124.3	37.0
288.0	004.5000	0475.8	052.9	124.2	000.7000	0692.9	124.0	37.0
289.0	004.5000	0475.7	052.9	123.8	000.7000	0692.9	123.8	37.1
290.0	004.5000	0475.3	052.9	123.4	000.7000	0693.6	123.6	37.2
291.0	004.5000	0475.0	052.8	123.0	000.7000	0693.6	123.4	37.2
292.0	004.5000	0474.7	052.8	122.6	000.7000	0693.6	123.2	37.3
293.0	004.5000	0474.5	052.8	122.1	000.7000	0692.0	123.0	37.3
294.0	004.5000	0474.4	052.8	121.7	000.7000	0692.0	122.9	37.4
295.0	004.5000	0474.1	052.8	121.3	000.7000	0687.4	122.8	37.3
296.0	004.5000	0473.7	052.8	120.9	000.7000	0687.4	122.7	37.3
297.0	004.5000	0473.3	052.7	120.4	000.7000	0679.8	122.7	37.3
298.0	004.5000	0472.9	052.7	120.0	000.7000	0679.8	122.6	37.3
299.0	004.5000	0472.6	052.7	119.6	000.7000	0679.8	122.6	37.3
300.0	004.5000	0472.4	052.7	119.1	000.7000	0672.3	122.6	37.2
301.0	004.5000	0472.3	052.7	118.7	000.7000	0672.3	122.6	37.2
302.0	004.5000	0472.4	052.7	118.3	000.7000	0661.0	122.6	37.0
303.0	004.5000	0472.7	052.7	117.8	000.7000	0661.0	122.7	37.0
304.0	004.5000	0473.2	052.7	117.4	000.7000	0643.8	122.7	36.8
305.0	004.5000	0473.7	052.8	117.0	000.7000	0643.8	122.8	36.7
306.0	004.5000	0474.2	052.8	116.6	000.7000	0643.8	122.9	36.7
307.0	004.5000	0474.8	052.8	116.1	000.7000	0622.4	123.0	36.4
308.0	004.5000	0475.3	052.9	115.7	000.7000	0622.4	123.2	36.4
309.0	004.5000	0475.6	052.9	115.3	000.7000	0601.3	123.3	36.0
310.0	004.5000	0475.7	052.9	114.9	000.7000	0601.3	123.6	36.0
311.0	004.5000	0475.8	052.9	114.5	000.7000	0586.1	123.8	35.7
312.0	004.5000	0476.0	052.9	114.0	000.7000	0586.1	124.0	35.6
313.0	004.5000	0476.4	052.9	113.6	000.7000	0586.1	124.3	35.6
314.0	004.5000	0476.6	052.9	113.2	000.7000	0580.8	124.6	35.4
315.0	004.5000	0476.7	052.9	112.8	000.7000	0580.8	124.9	35.3
316.0	004.5000	0476.8	052.9	112.4	000.7000	0584.0	125.3	35.3
317.0	004.5000	0476.9	052.9	112.0	000.7000	0584.0	125.6	35.2

KBSS.C BPED19970701MC
Channel = 216C2
Max ERP = 0.7 kW
RCAMSL = 2644 M
N. Lat = 43 38 36
W. Lng = 114 23 49

KISUFM
Channel = 216A
Max ERP = 4.5 kW
RCAMSL = 1841 M
N. Lat = 425146
W. Lng = 1123103

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
089.0	000.7000	0680.7	044.0	309.4	004.5000	0475.6	139.4	37.3
090.0	000.7000	0687.8	044.3	309.2	004.5000	0475.6	138.8	37.5
091.0	000.7000	0687.7	044.3	309.0	004.5000	0475.6	138.3	37.6
092.0	000.7000	0665.5	043.5	308.5	004.5000	0475.6	138.5	37.6
093.0	000.7000	0643.6	042.8	308.1	004.5000	0475.3	138.6	37.5
094.0	000.7000	0621.7	042.0	307.7	004.5000	0475.3	138.8	37.4
095.0	000.7000	0608.2	041.6	307.3	004.5000	0474.8	138.8	37.4
096.0	000.7000	0602.2	041.4	307.0	004.5000	0474.8	138.7	37.5
097.0	000.7000	0589.9	041.0	306.7	004.5000	0474.8	138.7	37.5
098.0	000.7000	0574.7	040.4	306.3	004.5000	0474.2	138.8	37.4
099.0	000.7000	0555.4	039.7	305.9	004.5000	0474.2	139.2	37.3
100.0	000.7000	0540.4	039.0	305.6	004.5000	0474.2	139.4	37.3
101.0	000.7000	0535.2	038.8	305.3	004.5000	0473.7	139.4	37.3
102.0	000.7000	0532.3	038.7	305.0	004.5000	0473.7	139.2	37.3
103.0	000.7000	0527.3	038.5	304.7	004.5000	0473.7	139.2	37.3
104.0	000.7000	0521.3	038.2	304.4	004.5000	0473.2	139.2	37.3
105.0	000.7000	0515.0	037.9	304.1	004.5000	0473.2	139.3	37.3
106.0	000.7000	0515.8	037.9	303.8	004.5000	0473.2	139.0	37.3
107.0	000.7000	0527.4	038.5	303.6	004.5000	0473.2	138.4	37.5
108.0	000.7000	0547.1	039.3	303.5	004.5000	0472.7	137.4	37.8
109.0	000.7000	0569.6	040.2	303.3	004.5000	0472.7	136.3	38.0
110.0	000.7000	0585.1	040.8	303.0	004.5000	0472.7	135.6	38.2
111.0	000.7000	0588.8	040.9	302.7	004.5000	0472.7	135.4	38.3
112.0	000.7000	0584.0	040.7	302.4	004.5000	0472.4	135.4	38.2
113.0	000.7000	0580.8	040.6	302.1	004.5000	0472.4	135.4	38.2
114.0	000.7000	0586.1	040.8	301.8	004.5000	0472.4	135.1	38.3
115.0	000.7000	0601.3	041.3	301.6	004.5000	0472.4	134.5	38.5
116.0	000.7000	0622.4	042.1	301.3	004.5000	0472.3	133.8	38.7
117.0	000.7000	0643.8	042.8	301.0	004.5000	0472.3	133.0	38.9
118.0	000.7000	0661.0	043.4	300.7	004.5000	0472.3	132.4	39.0
119.0	000.7000	0672.3	043.8	300.3	004.5000	0472.4	132.0	39.1
120.0	000.7000	0679.8	044.0	300.0	004.5000	0472.4	131.7	39.2
121.0	000.7000	0687.4	044.3	299.6	004.5000	0472.4	131.5	39.3
122.0	000.7000	0692.0	044.4	299.3	004.5000	0472.6	131.4	39.3
123.0	000.7000	0693.6	044.5	299.0	004.5000	0472.6	131.4	39.3
124.0	000.7000	0692.9	044.4	298.6	004.5000	0472.6	131.5	39.3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
125.0	000.7000	0694.7	044.5	298.3	004.5000	0472.9	131.5	39.3
126.0	000.7000	0700.5	044.7	297.9	004.5000	0472.9	131.5	39.3
127.0	000.7000	0709.7	045.0	297.6	004.5000	0472.9	131.3	39.3
128.0	000.7000	0719.9	045.3	297.2	004.5000	0473.3	131.1	39.4
129.0	000.7000	0729.5	045.6	296.8	004.5000	0473.3	131.0	39.4
130.0	000.7000	0737.2	045.9	296.5	004.5000	0473.7	131.0	39.4
131.0	000.7000	0743.4	046.1	296.1	004.5000	0473.7	131.0	39.4
132.0	000.7000	0749.4	046.3	295.8	004.5000	0473.7	131.0	39.4
133.0	000.7000	0756.7	046.5	295.4	004.5000	0474.1	131.1	39.4
134.0	000.7000	0766.9	046.8	295.0	004.5000	0474.1	131.1	39.4
135.0	000.7000	0779.2	047.2	294.6	004.5000	0474.1	131.0	39.4
136.0	000.7000	0789.8	047.5	294.2	004.5000	0474.4	131.0	39.4
137.0	000.7000	0797.8	047.7	293.9	004.5000	0474.4	131.2	39.4
138.0	000.7000	0804.9	047.9	293.5	004.5000	0474.5	131.3	39.4
139.0	000.7000	0810.8	048.1	293.1	004.5000	0474.5	131.6	39.3
140.0	000.7000	0816.0	048.2	292.8	004.5000	0474.5	131.8	39.2
141.0	000.7000	0823.4	048.4	292.4	004.5000	0474.7	132.0	39.2
142.0	000.7000	0833.8	048.7	292.0	004.5000	0474.7	132.2	39.1
143.0	000.7000	0843.6	048.9	291.7	004.5000	0474.7	132.5	39.1
144.0	000.7000	0849.9	049.1	291.3	004.5000	0475.0	132.8	39.0
145.0	000.7000	0856.2	049.3	291.0	004.5000	0475.0	133.2	38.9
146.0	000.7000	0868.0	049.6	290.6	004.5000	0475.0	133.4	38.8
147.0	000.7000	0884.4	049.9	290.2	004.5000	0475.3	133.6	38.8
148.0	000.7000	0899.1	050.3	289.8	004.5000	0475.3	133.9	38.7
149.0	000.7000	0908.0	050.5	289.5	004.5000	0475.7	134.3	38.6