TECHNICAL STATEMENT
K213FH BROOMFIELD, CO
MARY MEDICUS
FCC FORM 349
JANUARY 2019

This Technical Statement is in support of a minor modification of Construction Permit, BPFT-20171130ACD, FCC form 349, being filed on behalf of Mary Medicus ("MM") in regards to its FM translator, K213FH Golden, Colorado, facility ID 147935. K213FH seeks to modify its current operation on channel 213D to its first adjacent channel 214D. It seeks to remain at its existing tower site with the same antenna heights, increase its ERP to 75 watts, and slightly modify its directional antenna system.

MM is proposing to remain at its existing site located at N. 39° 53' 31", W. 105° 14' 19", NAD 27, with an increased Effective Radiated Power of 75 Watts and replace the current one bay Nicom BKG-77 antenna with a new one bay BEXT TFC2K-D, directional antenna system. These two antennas are nearly identical in size and shape, and mounted at the same level on the tower and continuing to utilize the same transmission line. Hence no change in the operating impedance of the tower for KKCL(AM) Golden, CO is expected. The antenna will be mounted at the 45 meter level on a 46 meter overall tower, with a Center of Radiation at 1930 meters Above Mean Sea Level. A new community of license is being proposed to better reflect the new coverage.

Figure 1 shows a detailed channel interference study conducted from the proposed site for K213FH. It shows that the proposed operation of K213FH on channel 214D will not cause any prohibited outgoing interference to any licensed or proposed FM services, with the exception of KCFR-FM Denver, Colorado operating on channel 211C1, facility

ID 53777 and KLDV(FM) Morrison, Colorado on channel 216C0, facility ID 12354 . The proposed operation of K213FH on 214D is located within the protected 60 dBμ contour of 2nd adjacent station KLDV and 3rd adjacent channel KCFR-FM.

Figure 2 shows the predicted 90.3 dBμ contour of KCFR-FM at the K213FH transmitter site. Thus, the predicted interference contour towards KCFR-FM would be 130.3 dBμ.

Figure 3 shows the predicted 81.7 dBμ contour of KLDV at the K213FH transmitter site. Thus, the predicted interference contour towards KLDV would be 121.7 dBμ. Since this is the greater interference contour than that of KCFR-FM, only the 121.7 dBμ contour was studied further.

Figure 4 documents that there is no population within the proposed predicted 121.7 dBμ interference contour for K213FH on channel 214D. This contour only extends 50 meters from the antenna.

Figure 5 shows the vertical radiation pattern for the proposed BEXT TFC2K-D antenna. It documents that the 121.7 dBμ will not reach the ground at any point.

The licensee, Mary Medicus, respectfully requests a waiver of C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference. There are no homes nearby the proposed existing tower site which is a privately owned 4 acre square remote mountain area with private access. The transmitter building is uninhabited and does not have indoor plumbing.

Figure 6 shows the proposed directional antenna pattern for use by K213FH on channel 214D.

Figure 7 is a table of the maximum allowed Effective Radiated Power limits for the pertinent 12 average terrain radials for “non-fill-in” translators. It documents that the new proposed operation of K213FH will be in compliance with the maximum ERP limits allowed for a non-fill-in translator.

Figure 8 is a consent letter from KXDP-LP Denver, Colorado, facility ID 67552, TV channel 6, to allow the operation on channel 213D with up to 99 watts ERP. Thus, since channel 214 is one channel further removed from the KXDP-LP operation, it would be in greater compliance. KXDP-LP previously gave it permission to the channel 214D operation by K213FH.

K213FH is proposing to rebroadcast non-commercial FM station KRKY-FM Douglas, WY, facility ID 176144. Since KRKY-FM is not receivable at the K213FH transmitter site, K213FH is proposing to rebroadcast the off air signal of K206DB Cedar Cove, Colorado, facility ID 6511 which rebroadcasts KRKY-FM. Figure 9 is a Longley-Rice coverage map of K206DB which shows the predicted signal level at the K213FH transmitter site is approximately 51 dBμ, or an adequate signal level for satisfactory rebroadcasting on K213FH.

It was concluded that the new proposed operation of K213FH Golden, Colorado on channel 214D will not cause any harmful interference to any existing stations, and will be in full compliance with the commission’s rules.

FIGURE 1 - DETAILED CHANNEL INTEFERENCE STUDY
K213FH BROOMFIELD, CO, CH. 214

REFERENCE CH# 214D - 90.7 MHz, Pwr= 0.075 kW DA, HAAT= 0.0 M, COR= 1930 M DISPLAY DATES
39 53 31.0 N. Average Protected F(50-50)= 5.24 km DATA 01-26-19
105 14 19.0 W. Standard Directional SEARCH 01-27-19

CH CITY	CALL STATE	TYPE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
211C1	KCFR-FM *	LIC	_CX	179.2	17.67	39 43 58.0	52.000	9.9	74.6	-3.3	-57.5*
Denver	CO			359.2	BLED20180405ABS	105 14 08.0	238	2275	Public Broadcasting Of Col		
06 --	KXDP-LP	CP	D_N	297.4	5.18	39 54 48.0	3.000	1.8	54.8	56.6R	-51.4M **
Denver	CO			117.3	BDFCDVL-20141003AC	105 17 32.9	-999	2536			
06N--	KXDP-LP	LI	D_N	297.4	5.18	39 54 48.0	3.000	1.8	54.8	56.6R	-51.4M **
Denver	CO			117.3	BLTVL-20100716ABT	105 17 32.9	-999	2536			
216C0	KLDV *	LIC	_CX	175.6	32.50	39 36 00.0	100.000	11.4	79.0	7.5	-47.1*
Morrison	CO			355.7	BMLED20160830ABQ	105 12 35.0	356	2448	Educational Media Foundati		
213D	K213FH	LIC	DC_	0.0	0.00	39 53 31.0	0.015		---Reference---		
Golden	CO			0.0	BLFT20170209AAL	105 14 19.0		1930	Mary Medicus		
214A	KGUD	CP	DCX	21.9	41.69	40 14 24.0	0.900	55.2	16.3	-21.1*	1.3
Longmont	CO			202.0	BPED20180619AAN	105 03 19.0	83	1619	Longmont Community Radio		
213C0	KTLF	LIC	_VX	165.6	131.40	38 44 43.0	20.000	123.6	84.0	-4.6	27.8
Colorado Springs	CO			345.8	BLED20040225AAB	104 51 39.0	673	2923	Educational Communications		
213D	K213FH	CP	DC_	18.0	14.01	40 00 43.0	0.180		---Reference---		
Golden	CO			198.0	BPFT20171130ACD	105 11 16.0		1645	Mary Medicus		
213D	K213EG	LIC	DE_	179.2	18.04	39 43 46.0	0.003	3.0	1.7	5.3	1.4
Littleton	CO			359.2	BLFT20060602AAN	105 14 08.0	213	2241	Educational Communications		
214A	KGUD	LIC	_CN	21.9	41.69	40 14 24.0	0.100	32.2	9.5	1.8	8.1
Longmont	CO			202.0	BLED19821018AU	105 03 19.0	82	1613	Longmont Community Radio		
214A	KMPB	CP	_CX	237.2	80.75	39 29 47.0	3.750	57.8	14.0	17.7	34.2
Breckenridge	CO			56.7	BPED20171114AAM	106 01 43.0	-94	3227	Community Radio For Northe		
214A	KENC	LIC	DEX	335.4	57.29	40 21 38.0	0.200	23.8	6.8	25.0	23.4
Estes Park	CO			155.2	BMLED20130109AGF	105 31 12.0	13	2730	Community Radio For Northe		
214A	KMPB	LIC	_CX	237.2	80.82	39 29 44.0	0.600	30.1	8.9	45.5	43.0
Breckenridge	CO			56.6	BLED20130930BUD	106 01 44.0	-76	3246	Community Radio For Northe		
213C3	KCSU-FM	LIC	_CN	5.1	78.93	40 36 00.0	10.000	26.8	18.1	43.7	48.8
Fort Collins	CO			185.1	BLED19850124LR	105 09 21.0	-108	1613	Board Of Governors Of The		
215D	K215FM	LIC	DC_	2.7	72.74	40 32 47.0	0.150	5.4	2.7	59.0	49.8
Fort Collins	CO			182.7	BLFT20170705AAI	105 11 53.0		2190	Public Broadcasting Of Col		
215C0	KLWV	LIC	_CX	353.5	158.60	41 18 39.0	100.000	89.0	59.4	61.0	85.7
Chugwater	WY			173.4	BLED20040621ABR	105 27 12.0	361	2765	Educational Media Foundati		
215D	K215BZ	LIC	_VN	246.7	77.43	39 36 50.0	0.082	7.6	5.4	64.6	64.7
Dillon	CO			66.2	BLFT19970121TD	106 04 02.0	-285	2864	Educational Media Foundati		
217D	K217FS	LIC	_C_	237.2	80.75	39 29 47.0	0.023	0.3	3.9	75.2	70.6
Frisco	CO			56.7	BLFT20081208AFL	106 01 43.0	-54	3227	Educational Communications		
215A	KVNC	LIC	_CX	253.9	108.19	39 36 58.0	0.100	8.0	5.6	95.0	95.1
Minturn	CO			73.1	BLED20130927ATU	106 26 58.0	-211	2726	Community Radio For Northe		
215A	KTOL	LIC	_C_	231.6	116.78	39 14 05.0	0.450	11.7	8.3	99.7	101.1
Leadville	CO			50.9	BLED20080606AAR	106 17 59.0	-207	3083	Educational Communications		
212D	K212FY	LIC	DV_	253.9	108.17	39 36 58.0	0.250	1.0	6.7	101.9	100.7
Vail, Etc.	CO			73.1	BLFT20100312AAT	106 26 57.0	-222	2731	Educational Media Foundati		
211D	K211AW	LIC	_HN	165.8	117.71	38 51 50.0	0.086	0.7	5.4	104.4	111.7
Manitou Springs	CO			346.0	BLFT19850225TD	104 54 15.0	-694	1984	The Colorado College		
217C3	KLRY	LIC	_CX	265.1	138.19	39 46 30.0	0.110	0.7	28.1	132.3	108.3
Gypsum	CO			84.1	BLED20051109AAM	106 50 45.0	859	3361	Educational Media Foundati		
213A	KBEI	LIC	_CX	72.1	142.62	40 16 30.0	1.000	21.5	14.5	109.5	112.8
Brush	CO			253.1	BLED20120221ABO	103 38 33.0	56	1370	Educational Communications		
211C2	KHCO	LIC	_VX	296.3	143.06	40 27 04.0	1.800	2.4	31.1	135.0	111.0
Hayden	CO			115.3	BLED20091125AGK	106 45 06.0	522	3140	Educational Media Foundati		

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*
213C2 KVOV Carbondale	LIC DCX CO	254.6 73.2	190.26 BLED20040913AAA	39 25 08.0 107 22 10.0	0.450 775	73.0 3227	49.2 Public Broadcasting Of Col	112.0	133.3
06N-- K06BI« Manitou Springs	LI DHN CO	165.8 346.0	117.71 BLTTV-1446	38 51 49.9 104 54 15.0	0.001 -999	3.7 2012	0.2	3.9R	113.9M
214A KDRE Sterling	LIC _VX CO	66.0 247.4	204.05 BLED20051006AAI	40 36 56.0 103 02 02.0	1.600 154	78.5 1447	27.0 Educational Media Foundati	114.5	142.0
212C2 KWYC Cheyenne	LIC _CX WY	24.1 204.6	161.65 BLED20100511ABH	41 13 01.0 104 26 53.0	20.500 130	4.1 1848	39.7 Calvary Chapel Of Twin Fal	149.3	121.8
217C2 KTPF Salida	LIC _C_ CO	202.7 22.2	173.74 BLED20070817ACM	38 26 48.0 106 00 36.0	0.390 900	1.4 3567	49.4 Educational Communications	163.5	123.6
215C3 KRWA Rye	LIC _CX CO	174.5 354.6	217.19 BLED20110307ABR	37 56 40.0 104 59 56.0	10.000 35	78.3 2577	51.9 Way Media, Inc.	127.1	148.0
217C3 KLZV Brush	LIC _CX CO	79.6 260.9	169.25 BLED20070927AIN	40 08 56.0 103 17 04.0	6.000 129	3.1 1526	33.1 Educational Media Foundati	154.1	135.3
211A KUWL Laramie	LIC _CX WY	353.5 173.3	158.52 BLED20080303AIZ	41 18 36.0 105 27 17.0	0.110 295	0.7 2699	10.1 University Of Wyoming	149.1	143.4
212A KBUT Crested Butte	LIC _CX CO	234.1 53.0	185.44 BLED20140917ACR	38 54 07.0 106 58 21.0	1.000 -208	1.6 2969	10.2 Crested Butte Mountain Edu	178.6	174.7
214C3 KUWV Lingle	LIC _CX WY	18.0 198.7	285.79 BLED20110316AAQ	42 20 02.8 104 09 56.2	14.000 96	100.6 1510	33.9 University Of Wyoming	177.3	224.1
215A KRJX Rifle	LIC _CX CO	260.6 78.9	235.19 BLED20180409AAE	39 30 58.0 107 56 15.0	0.600 -112	46.8 2047	30.8 Educational Communications	183.1	196.4
215A KVNF Paonia	LIC _CX CO	242.3 60.7	237.32 BLED20050826AAJ	38 52 28.0 107 39 40.0	2.600 -22	42.9 2120	24.0 North Fork Valley Public R	190.5	196.0
216A KWSB-FM Gunnison	LIC _CN CO	223.9 42.8	209.50 BLED19850430LR	38 31 22.0 106 54 28.0	0.135 91	0.8 2627	6.1 Western State College Of C	202.1	195.9
216C KTNE-FM Alliance	LIC _CY NE	39.6 221.0	284.05 BLED19900515KB	41 50 24.0 103 03 18.0	100.000 404	12.3 1669	84.8 Nebraska Educational Telec	262.2	199.0
214A KCSE Lamar	LIC NCX CO	131.3 312.9	307.84 BLED20140929AIN	38 02 10.0 102 35 58.0	4.000 113	86.4 1259	29.7 Kanza Society, Inc.	207.8	232.7
214A KTDL Trinidad	LIC _CX CO	168.1 348.6	328.70 BLED20071115AAB	36 59 33.0 104 28 24.0	0.450 296	85.6 2610	30.2 Educational Communications	230.6	264.8
212A KGCD Wray	LIC _VX CO	85.0 267.0	258.03 BLED20110408ACX	40 03 13.0 102 13 32.0	0.430 77	1.5 1211	11.9 The Praise Network, Inc.	244.3	245.2
217C2 KMSA Grand Junction	CP _CX CO	254.2 71.9	315.28 BPED20170508AAA	39 03 59.0 108 44 41.0	5.000 398	4.5 2188	65.4 Colorado Mesa University	305.5	249.0
215A KASF Alamosa	LIC _C_ CO	191.8 11.4	274.29 BLED20010419AAA	37 28 20.0 105 52 39.0	1.100 27	14.5 2316	10.4 Adams State College	249.4	256.5
214A KLMQ Placerville	LIC _HX CO	229.1 47.4	317.32 BLED20170927ABP	37 59 29.0 107 58 21.0	0.100 456	60.0 3365	18.8 Educational Media Foundati	252.2	278.4
217C2 KMSA Grand Junction	LIC _CX CO	254.2 71.9	315.56 BLED20130305ABT	39 03 56.0 108 44 52.0	3.100 407	3.6 2204	60.9 Colorado Mesa University	306.7	253.9
212C2 KLFV Grand Junction	LIC _CX CO	254.2 71.9	315.46 BMLED20151215ABZ	39 03 57.0 108 44 48.0	3.000 399	3.6 2196	60.4 Educational Media Foundati	306.6	254.3
212C KCSP-FM Casper	LIC _CX WY	344.6 163.9	328.69 BLED20140923ABP	42 44 24.0 106 18 23.0	100.000 593	9.1 2554	67.7 Western Inspirational Broa	310.9	260.8
211C1 KZNK Brewster	LIC _CX KS	101.0 283.5	340.97 BLED20101027AAH	39 14 31.0 101 21 38.0	90.000 305	9.4 1343	69.0 Kanza Society, Inc.	318.6	271.3
217A KASV Sanford	LIC _HN CO	191.3 10.9	297.03 BLED20180118AAS	37 15 59.0 105 53 47.0	2.500 7	1.7 2339	16.8 Top O' Texas Educational B	284.8	279.6
211C1 KCEI Red River	LIC DCN NM	191.6 11.1	343.41 BLED20160819AAP	36 51 34.0 106 01 02.0	2.050 739	3.0 3335	58.3 Cultural Energy	330.0	284.5
217C3 KUWC Casper	LIC _C_ WY	343.9 163.2	329.98 BLED20000707ACY	42 44 26.0 106 21 34.0	0.530 544	1.6 2482	24.3 University Of Wyoming	319.7	298.0
217C2 KSUT Ignacio	LIC _CX CO	213.7 32.3	358.75 BLED20100713AGQ	37 11 03.0 107 29 06.0	2.000 497	2.6 2713	32.2 Kute, Inc.	348.4	320.5

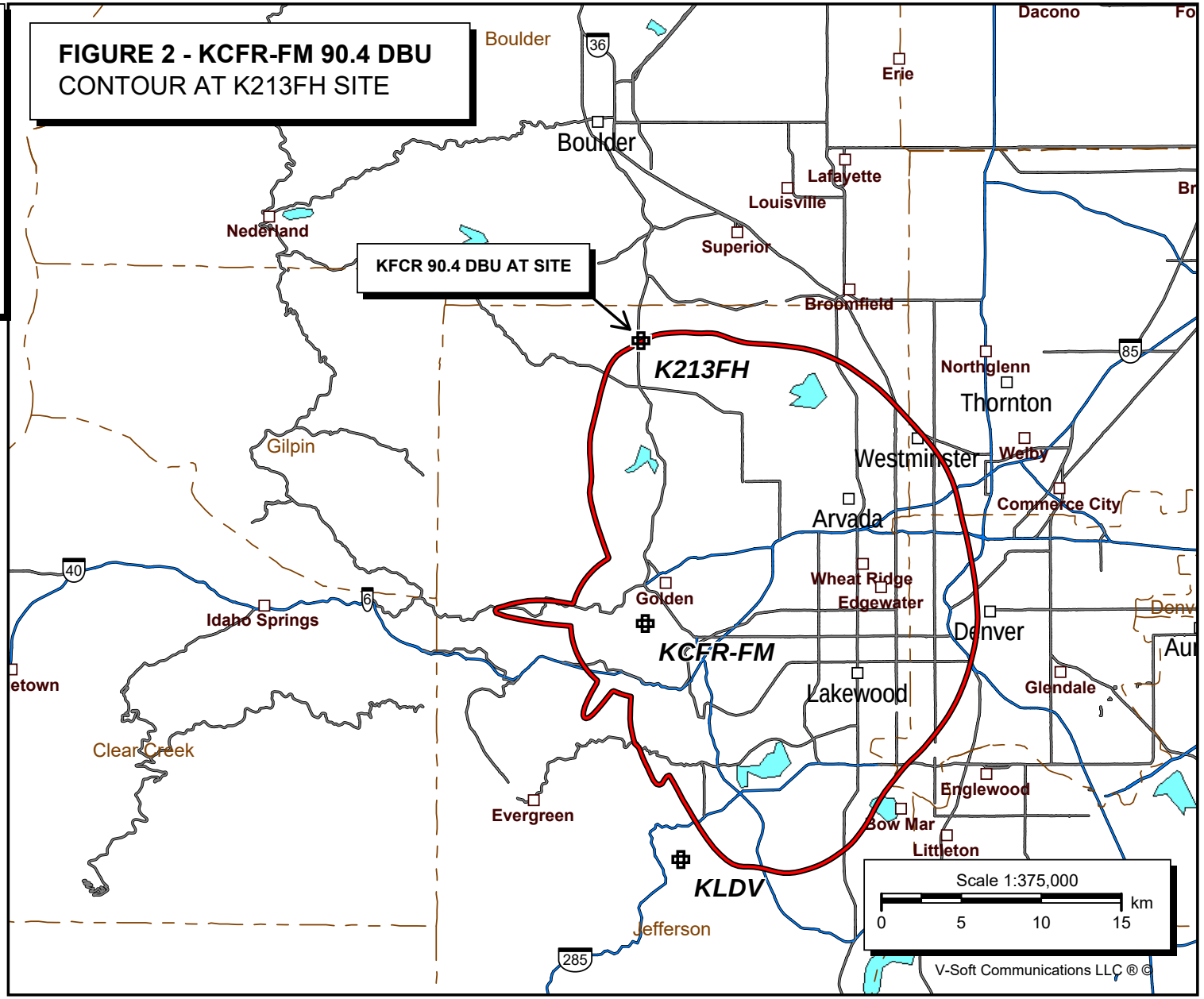
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
211C1	KUTE	LIC	DVN	219.0	357.48	37 21 51.0	3.000	2.2	21.5	348.1	324.2
Ignacio		CO		37.4	BLED19980717KA	107 46 56.0	599	3029	Kute, Inc.		
213A	KCIE	LIC	DEN	205.5	356.50	36 59 00.0	0.100	19.4	12.6	328.6	333.0
Dulce		NM		24.5	BLED19901001KA	106 58 12.0	468	2757	Jicarilla Apache Tribe		

Terrain database is NGDC 30 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= West Zone, 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 restricted contour.
« = Station meets FCC minimum distance spacing for its class.
Reference station has protected zone issue: AM tower

* No actual interference will be caused to either KCFR-FM or KLDV(FM) since the worse case 121.7 DBU interference contour will not cover any population. See the Technical Statement for more details.

** A consent letter from the licensee of KXDP-LP has been obtained for this operation. See the Technical Statement for more details.

K213FH
BLFT20170209AAL
Latitude: 39-53-31 N
Longitude: 105-14-19 W
ERP: 0.75 kW
Channel: 214
Frequency: 90.7 MHz
AMSL Height: 1930.0 m
Elevation: 1885.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model:



K213FH
BLFT20170209AAL
Latitude: 39-53-31 N
Longitude: 105-14-19 W
ERP: 0.75 kW
Channel: 214
Frequency: 90.7 MHz
AMSL Height: 1930.0 m
Elevation: 1885.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model:

KLDV
BMLED20160830ABQ
Latitude: 39-36-00 N
Longitude: 105-12-35 W
ERP: 100.00 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 2448.0 m
Elevation: 2427.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model:

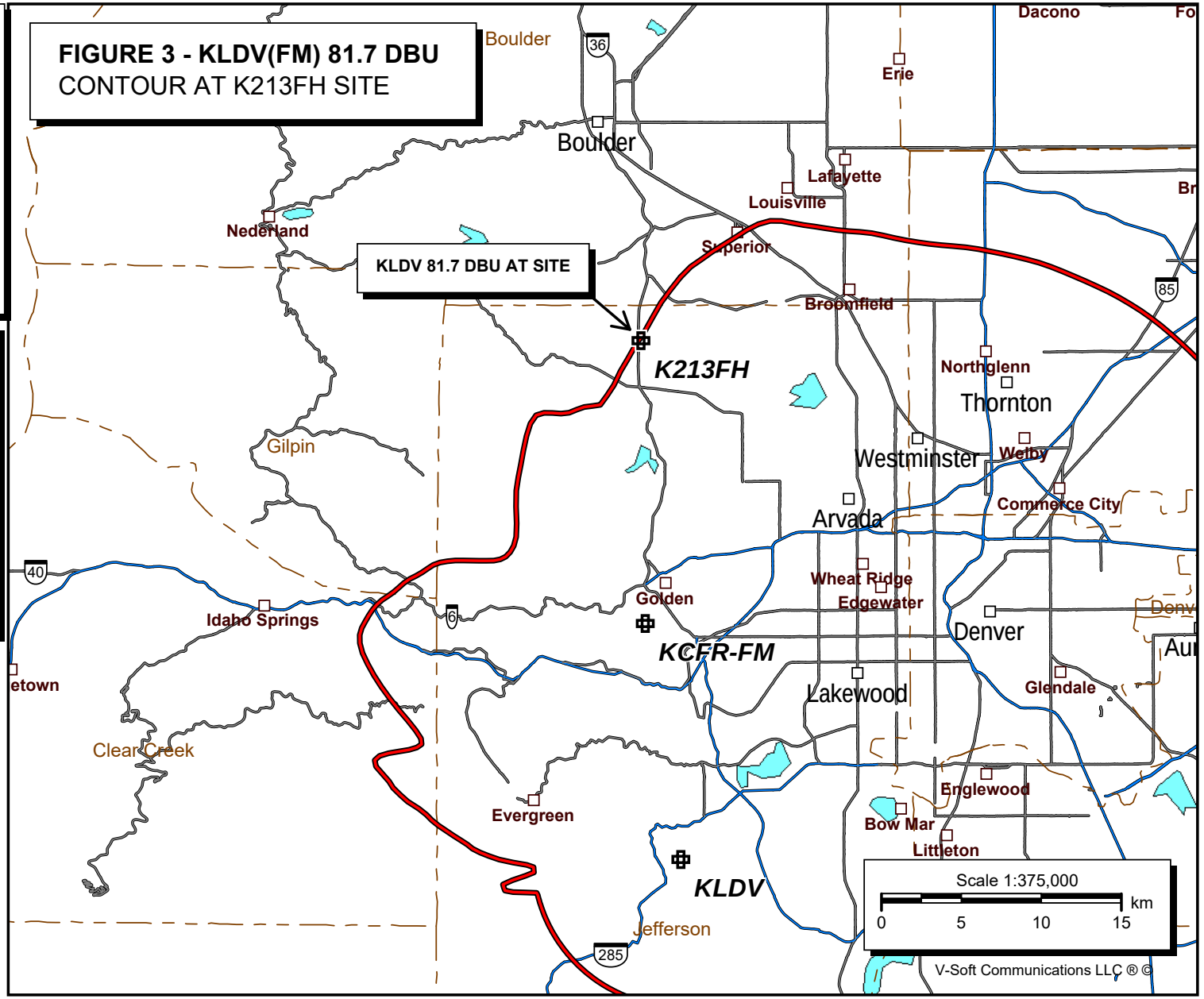


FIGURE 4 - PREDICTED 121.7 DBU INTERFERENCE CONTOUR
K213FH BROOMFIELD, CO, CH. 214

Coverage Study - NGDC 30 SEC
01-27-2019

K213FH CH214 D , 0.075 kW, 0.0m HAAT, 1930.0m COR AMSL
Interference Contour = 121.7 dBu. Population = 0

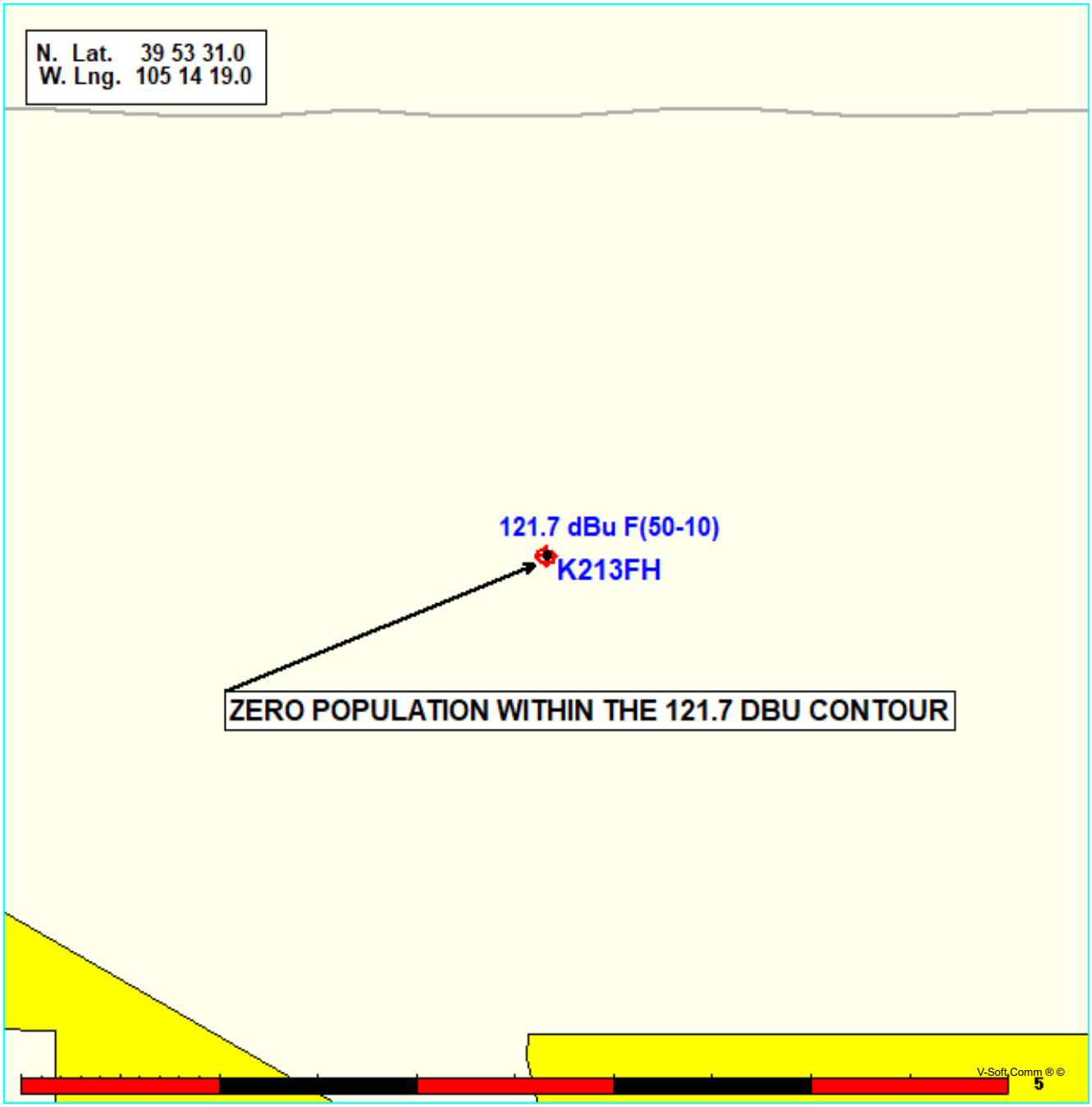


FIGURE 5 - VERTICAL PATTERN INTEFERENCE STUDY - K213FH on CH. 214 and KLDV Ch. 216C0

XField.out

K213FH Broomfield, CO, Showing Protection to KLDV
Geographic Coordinates: N. 39 5 3 31.0 W. 105 1 4 19.0
74.1204(d) Study - Using NGDC 30 SEC Terrain Database
Translator or LPFM Maximum Licensed ERP = 0.075
Translator or LPFM Antenna Height AG = 45 Meters
K213FH Antenna Model = TFC2K-D

Protected Station's Contour = 81.73396 dBu
Translator's or LPFM's full Interference contour 121.73396

Review Azimuth = 0 Degrees True
Horizontal Relative Field at Review Azimuth = 0.966
Translator/LPFM ERP on the horizontal at Review Azimuth = 0.075 kW
Distance between stations = 32.6 km
Protected Station= KLDV, 100 kW, 2448 M Meters COR AMSL

Depression Angle From Degree(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	0.97	0.0725	048.9014	048.9014	045.000
05.00	0.99	0.97	0.0710	048.4124	048.2282	040.781
10.00	0.979	0.97	0.0695	047.8842	047.1568	036.685
15.00	0.953	0.97	0.0657	046.5786	044.9914	032.945
20.00	0.92	0.97	0.0613	044.9893	042.2761	029.613
25.00	0.877	0.97	0.0557	042.8718	038.8551	026.882
30.00	0.829	0.97	0.0498	040.5490	035.1165	024.725
35.00	0.772	0.97	0.0431	037.7372	030.9125	023.355
40.00	0.715	0.97	0.0370	034.9645	026.7844	022.525
45.00	0.647	0.97	0.0303	031.6245	022.3619	022.638
50.00	0.57	0.97	0.0235	027.8738	017.9169	023.647
55.00	0.487	0.97	0.0172	023.8003	013.6513	025.504
60.00	0.388	0.97	0.0109	018.9884	009.4942	028.556
65.00	0.292	0.97	0.0062	014.2645	006.0285	032.072
70.00	0.187	0.97	0.0025	009.1299	003.1226	036.421
75.00	0.095	0.97	0.0007	004.6456	001.2024	040.513
80.00	0.045	0.97	0.0001	002.2006	000.3821	042.833
85.00	0.032	0.97	0.0001	001.5502	000.1351	043.456
90.00	0.03	0.97	0.0001	001.4670	000.0000	043.533

X-Field™ By V-Soft Communications®LLC

FIGURE 5 - DIRECTIONAL ANTENNA DATA

K213FH 01-27-2019 RMS(V)= .785

Broomfield, CO, ch. 214D

Graph is Relative Field

BEXT TFC-2K-D

Oriented at 200 Degrees

Azi	Field	dBk	kW
000	0.305	-21.563	0.007
010	0.250	-23.291	0.005
020	0.215	-24.601	0.003
030	0.250	-23.291	0.005
040	0.305	-21.563	0.007
050	0.350	-20.368	0.009
060	0.440	-18.380	0.015
070	0.515	-17.013	0.020
080	0.595	-15.759	0.027
090	0.685	-14.536	0.035
100	0.770	-13.520	0.044
110	0.845	-12.712	0.054
120	0.900	-12.165	0.061
130	0.955	-11.649	0.068
140	0.990	-11.337	0.074
150	1.000	-11.249	0.075
160	1.000	-11.249	0.075
170	1.000	-11.249	0.075
180	1.000	-11.249	0.075
190	1.000	-11.249	0.075
200	1.000	-11.249	0.075
210	1.000	-11.249	0.075
220	1.000	-11.249	0.075
230	1.000	-11.249	0.075
240	1.000	-11.249	0.075
250	1.000	-11.249	0.075
260	0.990	-11.337	0.074
270	0.955	-11.649	0.068
280	0.900	-12.165	0.061
290	0.845	-12.712	0.054
300	0.770	-13.520	0.044
310	0.685	-14.536	0.035
320	0.595	-15.759	0.027
330	0.515	-17.013	0.020
340	0.440	-18.380	0.015
350	0.350	-20.368	0.009

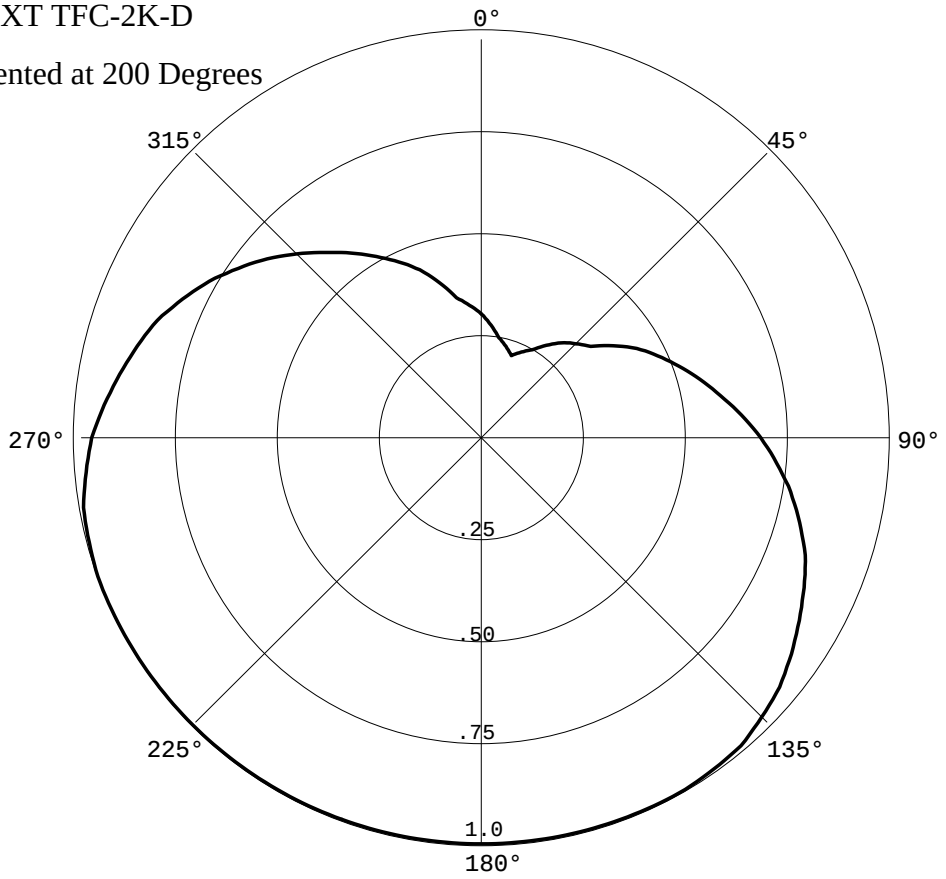


FIGURE 7
COMPLIANCE WITH 74.1235(b)(2)
EFFECTIVE RADIATED POWER CALCULATIONS
K213FH BROOMFIELD, COLORADO, CH. 214D
JANUARY 2019

The following table will shows compliance with the maximum Effective Radiated Power limitations according to 74.1235(b)(2) for an FM translator station located West of the Mississippi River.

K213FH proposes to use a directional antenna system, which will limit the Maximum ERP on some of the 12 pertinent average terrain radials. The maximum ERP for this antenna will be 0.075 KW (75 watts) at an azimuth of 200 degrees.

Azimuth	COR HAAT	Maximum Power Allowed	Proposed ERP
0	253.0 meters	41.0watts	7.0 watts
30	224.0 meters	50.0 watts	5.0 watts
60	252.7 meters	41.0 watts	15.0 watts
90	237.4 meters	41.0 watts	35.0 watts
120	204.3 meters	62.0 watts	61.0 watts
150	189.8 meters	75.0 watts	75.0 watts
180	75.0 meters	250 watts	75.0 watts
210	(-303.9) meters	250 watts	75.0 watts
240	(-503.9) meters	250 watts	75.0 watts
270	(-644.7) meters	250 watts	68.0 watts
300	(-278.2) meters	250 watts	44.0 watts
330	(-89.4) meters	250 watts	20.0 watts

The proposed operation of K213FH operating with a maximum ERP of 0.075 Kilowatts was found to be in compliance with 74.1235(b)(2).

FIGURE 8 - KXDP-LP CONSENT LETTER

December 27, 2016

Mary Medicus
655 Homestead Street
Lafayette, CO 80026

RE: FM translator station K214FE Golden, Colorado on channel 213D.

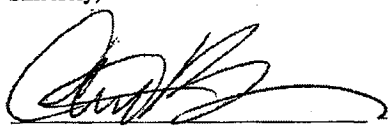
Dear Ms. Medicus,

Syncom Media Group, Inc., licensee of KXDP-LP, Channel 6, Denver, Colorado, facility ID 67552, hereby states that it has no objections to the construction and operation of an FM translator, K214FE, facility ID 147935 operated by Mary Medicus ("MM"), on 90.5 mhz (ch. 213) as proposed with up to a maximum 99 watts ERP at a transmitter site located at N39-53-05, W105-14-19.

MM agrees that if interference to Channel 6 should arise as a result of the proposed FM translator, MM will immediately cease operation of the translator until a solution to the interference can be found.

MM will also supply TVI filters at no cost to listeners whose reception of the Channel 6 signal may be adversely affected by the proposed FM translator.

Sincerely,



J. Christopher Blair
President
Syncom Media Group, Inc.
4552 W. 105th Way
Westminster, CO 80031

K206DB
BLFT20170620ABJ
Latitude: 40-29-36 N
Longitude: 105-10-53 W
ERP: 0.012 kW
Channel: 206
Frequency: 89.1 MHz
AMSL Height: 2081.0 m
Elevation: 2069.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 9.1 m
Receiver Gain: 0 dB
Time Variability: 50.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

> 70.0 dBu
60.0 - 70.0
50.0 - 60.0
40.0 - 50.0

FIGURE 9 - LONGLEY-RICE COVERAGE
MAP OF K206DB CEDAR COVE, CO
SHOWING 51 DBU SIGNAL AT K213FH SITE