Channel Study

REFERENCE — CH# 210D - 89.9 MHz, Pwr= 0.017 kW, HAAT= 868.9 M, COR= 3044 M — DISPLAY DATES
39 05 21.0 N. — Average Protected F(50-50)= 19.3 km — DATA 07-03-09
108 13 33.0 W. — SEARCH 07-03-09

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* (Overlap in km)
210D K210CE Mesa	LIC DVN CO	0.0 180.0	0.03 BLFT19990112TG	39 05 22.0 108 13 33.0	0.010 765	5.5 3044	0.7 Educational Media Foundati	-26.93*	-74.69*
210C1 KTMH Montrose	LIC VX CO	148.4 328.7	91.42 BLED20080606AAT	38 23 15.0 107 40 31.0	4.000 498	141.1 2876	61.4 Educational Communications	-51.86*	22.62
208C1 KPRN Grand Junction	LIC C CO	266.9 86.6	45.02 BLED20051108AFR	39 03 58.0 108 44 43.0	20.000 402	8.1 2195	79.4 Public Broadcasting Of Col	35.92	-34.44*
212C2 KLFV Grand Junction	LIC CX CO	266.9 86.5	45.14 BLED20031118AAP	39 03 57.0 108 44 48.0	3.000 399	3.6 2196	59.2 Educational Media Foundati	40.60	-14.04*
210D K210AR Rural Garfield, Etc	LIC DHN CO	321.4 141.0	74.63 BLFT19860912TC	39 36 44.0 108 46 11.0	0.083 423	42.9 2729	11.7 Educational Media Foundati	17.34	1.93
06NT K06KJ Collbran	LI DHN CO	53.9 234.1	28.09 BLTTV19941219JG	39 14 15.0 107 57 45.0	0.004 119	7.3 1863	0.1 Mesa County	134.5R	20.6M
210D DK210BP Norwood	LIC VN CO	178.6 358.7	86.09 BLFT19960429TE	38 18 50.0 108 12 09.0	0.010 520	51.2 3073	13.9 North Fork Valley Public R	29.17	47.80
211D K211EQ New Castle	LIC C CO	52.4 233.0	86.32 BLFT20031029AAR	39 33 33.0 107 25 42.0	0.019	10.7 2164	7.6 Educational Communications	59.48	50.32
213C2 KVOV Carbondale	LIC DCX CO	63.3 243.8	82.49 BLED20040913AAA	39 25 08.0 107 22 10.0	0.450 775	1.2 3227	30.2 Public Broadcasting Of Col	69.17	52.18
06NT K06HZ Paonia	LI DHN CO	115.6 295.9	54.59 BLTTV4112	38 52 34.0 107 39 29.0	0.064 390	0.4 2080	1.7 Hoak Media Of Colorado Lic	134.5R	52.4M
210A KPRE Vail	LIC CN CO	67.8 248.9	164.89 BLED19980129KD	39 38 05.0 106 26 47.0	1.500 90	100.8 3002	38.7 Public Broadcasting Of Col	53.77	79.53
06NT K06GW Divide Creek, Etc.	LI DHN CO	40.9 221.2	75.80 BLTTV19811019IG	39 36 11.0 107 38 49.0	0.011 908	9.0 2602	4.8 Rocky Mountain Public Broa	134.5R	62.0M
209D K209FA Glenwood Springs	LIC C CO	55.8 236.4	94.33 BLFT20070205ADB	39 33 43.0 107 19 01.0	0.070	7.3 2217	5.1 Educational Media Foundati	72.02	62.47
06 D K06OQ- Thomasville	CP D N CO	77.0 258.0	136.40 BDCCDTV20061027AFY	39 21 12.0 106 41 00.0	0.020 268	8.3 2666	5.6 Pitkin County Translator D	134.5R	1.9M
06 T K06GW Divide Creek	CP D N CO	48.2 228.6	79.82 BDFCDTT20060331AYJ	39 33 56.0 107 31 57.0	0.005 251	8.3 1940	5.6 Rocky Mountain Public Broa	134.5R	65.9M
06+T K06LX Glenwood Springs	LI DHN CO	57.3 237.9	94.49 BLTTV19880613IB	39 32 38.0 107 17 59.0	0.019 633	6.8 2459	4.2 Rocky Mountain Public Broa	134.5R	83.5M
06NT K06AM Cimarron	LI DHN CO	137.9 318.4	103.58 BLTTV4861	38 23 44.0 107 25 44.0	0.002 485	0.7 2794	0.9 Gunnison County Metropolit	134.5R	101.9M
06 T K06HU Aspen	AP D N CO	82.3 263.2	121.31 BDFCDTV20090624ACG	39 13 33.0 106 50 00.0	0.006 619	1.9 2882	14.1 Pitkin County Translator D	134.5R	105.4M
06NT K06GQ Norwood	LI DHN CO	179.8 359.8	109.80 BLTTV4021	38 06 00.0 108 13 20.0	0.143 5717	2.8 7806	0.7 Hoak Media Of Colorado Lic	134.5R	106.3M
06NT K06HU Aspen	LI DHN CO	82.3 263.2	121.31 BLTTV4032	39 13 33.0 106 50 00.0	0.012 504	1.8 2767	6.2 Pitkin County Translator D	134.5R	113.2M
06NT K06HN Gunnison	LI DHN CO	118.4 299.2	130.74 BLTTV19821022IE	38 31 25.0 106 54 20.0	0.013 276	0.4 2638	2.8 Gunnison County Metropolit	134.5R	127.5M

Terrain database is NGDC 30 SEC Distance + R = 73.215 or FCC spacings in KM, Distance + M = Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone = 2. With 3rd Adj Channels.
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.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KPRN, channel 208C1, Grand Junction, CO. The predicted F(50-50) field strength of KPRN at the proposed translator site is 74.6 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 114.6 dBu. This interfering contour extends approximately 53.7 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C), and aerial photo (see Exhibit 12D), which indicate a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 53.7 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

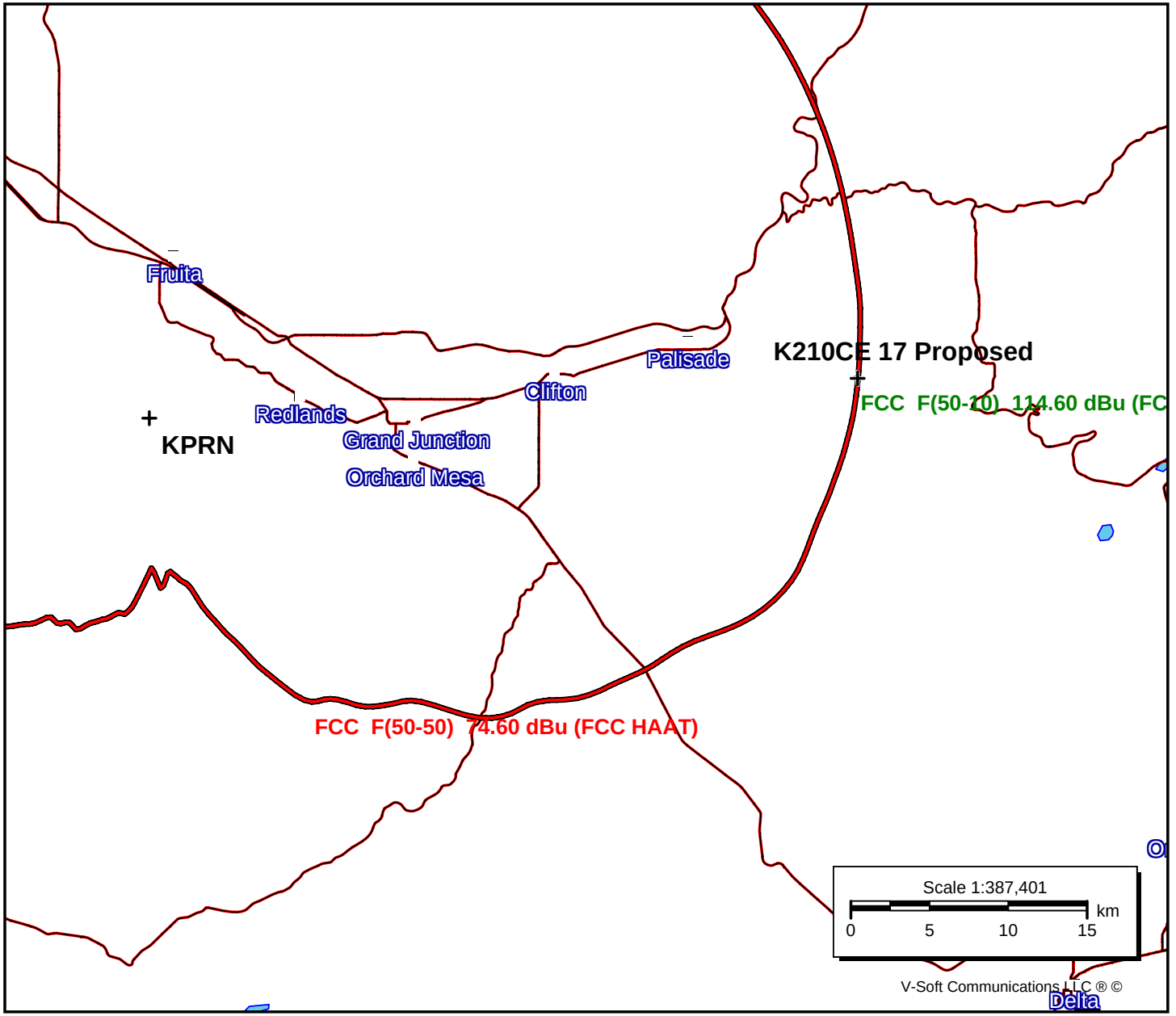
Educational Media Foundation

Exhibit 12A-1
Mesa, CO

K210CE 17 Proposed

Latitude: 39-05-21 N
Longitude: 108-13-33 W
ERP: 0.017 kW
Channel: 210
Frequency: 89.9 MHz
AMSL Height: 3044.0 m
Elevation: 3030.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KPRN
BLED20051108AFR
Latitude: 39-03-58 N
Longitude: 108-44-43 W
ERP: 20.00 kW
Channel: 208
Frequency: 89.5 MHz
AMSL Height: 2195.0 m
Elevation: 2158.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KLFV, channel 212C2, Grand Junction, CO. The predicted F(50-50) field strength of KLFV at the proposed translator site is 66.3 dBu, (see Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 106.3 dBu. This interfering contour extends approximately 139.7 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

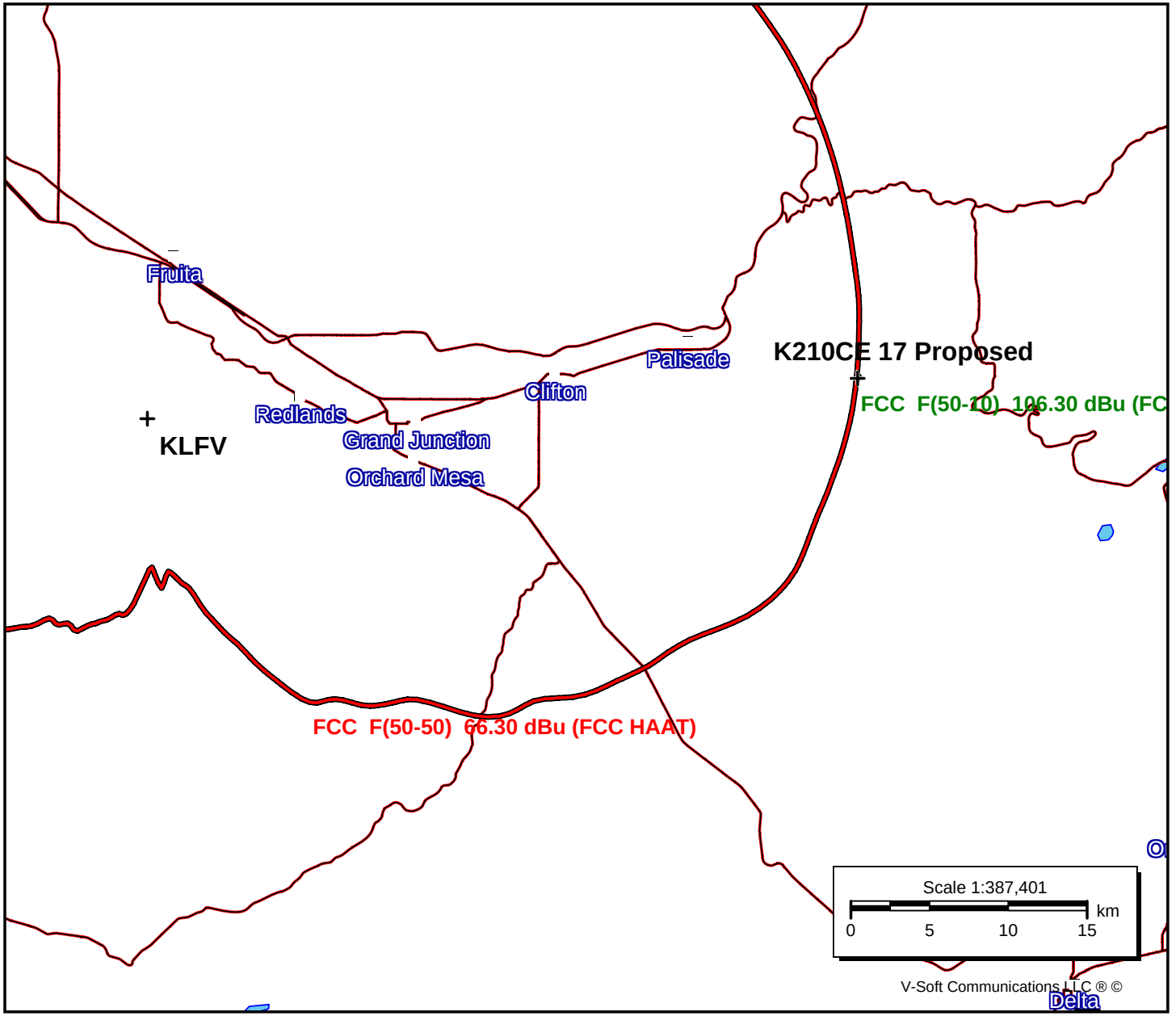
To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C), and aerial photo (see Exhibit 12D), which indicate a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 139.7 meter interference aperture.

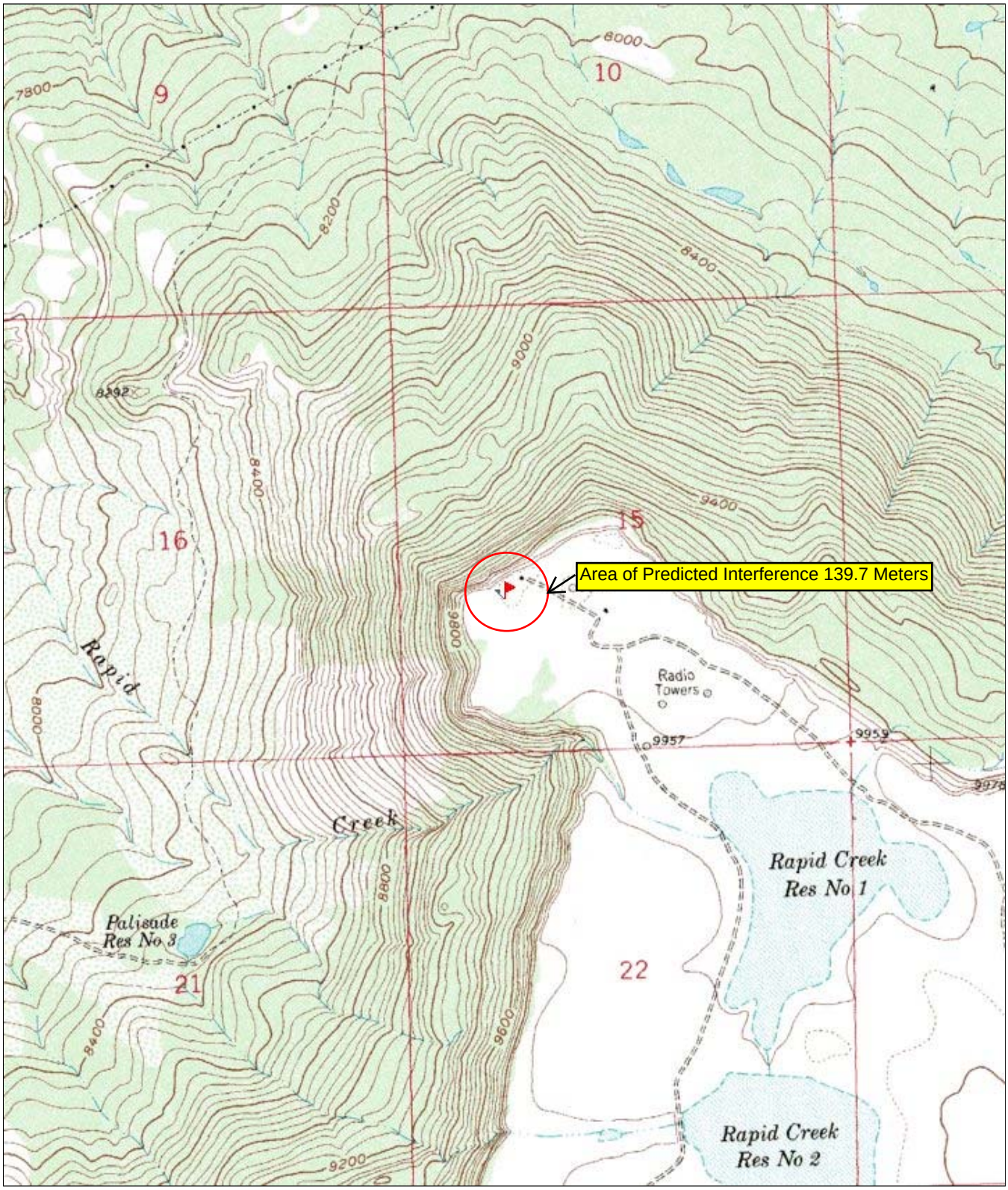
Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

K210CE 17 Proposed

Latitude: 39-05-21 N
Longitude: 108-13-33 W
ERP: 0.017 kW
Channel: 210
Frequency: 89.9 MHz
AMSL Height: 3044.0 m
Elevation: 3030.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KLFV
BLED20031118AAP
Latitude: 39-03-57 N
Longitude: 108-44-48 W
ERP: 3.00 kW
Channel: 212
Frequency: 90.3 MHz
AMSL Height: 2196.0 m
Elevation: 2170.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None





N

North American Datum Conversion
NAD 27 datum values: 39 05 20.97000 108 13 32.98000
NAD 83 datum values: 39 05 20.90196 108 13 35.27120

Educational Media Foundation

Exhibit 12D
Mesa, CO

Map of 39 05 21n, 108 13 33w

Educational Media Foundation

Exhibit 12E
Mesa, CO

FMCommander Single Allocation Study
07-02-2009

K210CE CH 210 D
0.017 kW 3044 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

K210AR CH 210 D BLFT19860912TC
0.083 kW, 2729 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu