

Educational Media Foundation

Exhibit 13

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Thousand Oaks, CA

Channel Study

REFERENCE CH# 220D - 91.9 MHz, Pwr= 0.15 kW DA, HAAT= 150.6 M, COR= 478 M DISPLAY DATES
34 12 21.0 N. Average Protected F(50-50)= 13.9 km DATA 02-04-20
118 49 07.3 W. Standard Directional SEARCH 02-06-20

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
220D Thousand Oaks	K220FR!	LIC D	CA	167.3 347.3	13.64 BLFT20190123AAG	34 05 09.00 118 47 09.30	0.100	870	---Reference--- Educational Media Foundati		
222B Los Angeles	KRRL	LIC	CA	87.9 268.3	69.33 BMLH19921021KA	34 13 36.00 118 04 00.20	43.000 887	12.1 1787	112.8 Amfm Broadcasting Licenses	54.6	-43.7*
220D Thousand Oaks	K220FR!	CP D	CA	167.3 347.3	13.64 BMPFT20190628AAY	34 05 09.00 118 47 09.30	0.010	870	---Reference--- Educational Media Foundati		
220D Thousand Oaks	K220FR!	LIC DH	CA	167.3 347.3	13.64 0000094375	34 05 09.00 118 47 09.30	0.010	870	---Reference--- Educational Media Foundati		
220B Santa Barbara	KCSB-FM	LIC	CA	289.1 108.4	110.72 BLED19840928DF	34 31 31.00 119 57 32.50	0.620 879	109.8 1239	42.1 Regents Of The University	-17.9	9.4
218B Los Angeles	KUSC	LIC D	CA	89.1 269.5	69.71 BLED20000404ABH	34 12 48.00 118 03 44.20	39.000 891	7.9 1689	86.0 University Of Southern Cal	59.3	-16.4*
220B San Bernardino	KVCR	LIC Z	CA	100.3 281.1	143.97 BLED20010511AAG	33 57 57.10 117 17 08.10	3.800 494	138.3 939	59.5 San Bernardino Community C	3.4	77.5
220B San Bernardino	KVCR	LIC D	CA	100.3 281.1	143.95 0000089116	33 57 57.40 117 17 09.10	3.200 521	131.0 966	55.2 San Bernardino Community C	10.7	81.8
218D Santa Clarita	KUSC-FM1	LIC D	CA	55.5 235.6	24.37 BLFTB20070920AAC	34 19 47.00 118 36 00.30	0.200	0.1 1140	10.5 University Of Southern Cal	13.7	13.3
222D Santa Clarita	KRRL-FM1	LIC D	CA	55.5 235.6	24.41 BLFTB20150901ABZ	34 19 47.90 118 35 59.30	0.320	0.0 1071	3.4 Amfm Broadcasting Licenses	13.8	20.4
06Z-- LI D N Camarillo	KUHD-LD« 288.7	50.23	CA	35 57 56.80 108.4	0.999 BLTVL-20100402ABY	2.2 115 30 06.00	33.8	35.9R 642	14.3M		
220B Ridgecrest	KWTD	LIC N	CA	35.5 216.1	174.22 BLED20050621AAO	35 28 37.80 117 42 01.20	7.000 390	145.7 1355	63.6 Westside Christian Fellows	15.7	67.5
220D Studio City	K220HC	LIC D	CA	102.0 282.2	42.44 BLFT20190205ABP	34 07 34.00 118 22 06.30	0.200	15.2 469	4.5 Educational Media Foundati	24.9	30.7
06--- CP DCN Big Bear Lake	KZNO-LD/K« 89.1	69.71	CA	35 57 56.80 269.5	3.000 0000074825	0.4 115 30 06.00	27.2	27.6R 1680	42.1M		
219D Fairmont, Etc.	K219AO	LIC D	CA	16.8 197.0	95.03 BLFT19841207TH	35 01 30.80 118 30 58.30	0.089 974	30.9 2453	18.7 Family Stations, Inc.	51.6	57.6
274B Los Angeles	KIIS-FM	LIC D	CA	87.9 268.3	69.33 BLH5361	34 13 36.00 118 04 00.20	8.000 902	0.0 1802	0.0 Citicasters Licenses, Inc.	15.0R	54.3M
218D Santa Barbara	K218CP	LIC	CA	290.4 109.9	84.18 BLFT20190318ABH	34 27 57.00 119 40 41.50	0.010	0.2 660	12.5 Calvary Chapel Of Twin Fal	65.2	71.0
221A Bakersfield	KQKZ	LIC	CA	357.4 177.4	142.22 BLH20170613AAT	35 29 11.60 118 53 23.20	3.600 131	61.2 504	41.1 Lotus Bakersfield Corp.	67.6	81.0

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

Contour distances are on direct line to and from reference station. Reference Zone= East Zone 2A, Co to 3rd adjacent.

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: Mexico

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Exhibit 13-A
Thousand Oaks, CA

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of [second/third] adjacent channel station KRRL, channel 222B Los Angeles, CA. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K220FR.P:	150 watts
The proposed COR for K220FR.P:	15 meters
KRRL F(50/50) contour at proposed site:	70.6 dBu
The F(50/10) contour of proposed K220FR.P	110.6 dBu


Exhibit 13–A1 shows the predicted interfering contour overlaid on a Google Earth image of the area. As can be seen, there are no regularly occupied structures within the interfering contour.

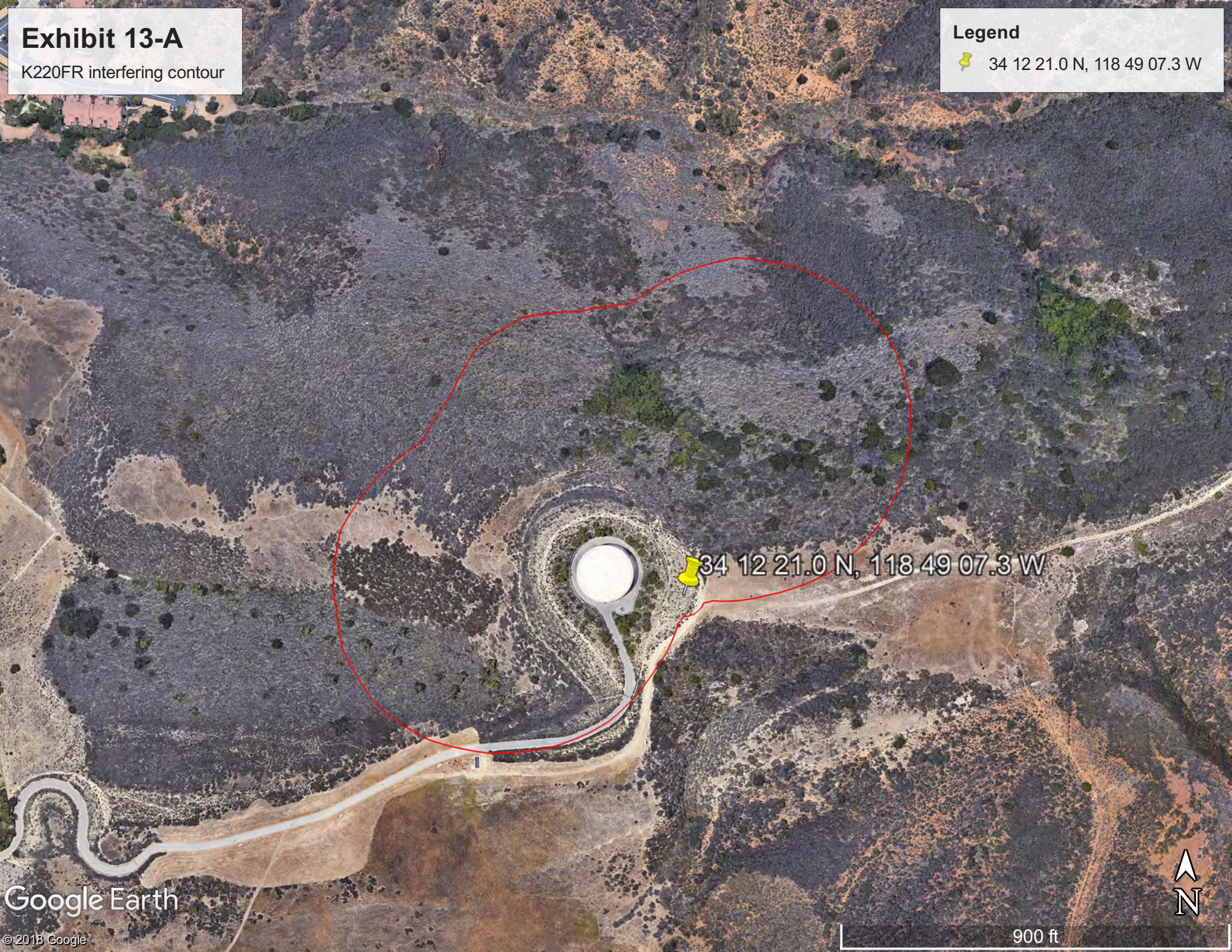
Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

Exhibit 13-A

K220FR interfering contour

Legend

 34 12 21.0 N, 118 49 07.3 W



Google Earth

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900 ft

FMCommander Single Allocation Study - 11-07-2019 - FCC NGDC 30 Sec
K220FR.P's Overlaps (In= -19.01 km, Out= 6.82 km)

K220FR.P CH 220 D DA
Lat= 34 12 21.00, Lng= 118 49 07.30
0.15 kW 150.6 m HAAT, 478 m COR
Prot.= 60 dBu, Intef.= 40 dBu

KCSB-FM CH 220 B BLED19840928DF
Lat= 34 31 31.00, Lng= 119 57 32.50
0.62 kW 879 m HAAT, 1239 m COR
Prot.= 60 dBu, Intef.= 40 dBu



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Exhibit 13-C
Thousand Oaks, CA

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of [second/third] adjacent channel station KUSC, channel 218B Los Angeles, CA. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K220FR.P:	150 watts
The proposed COR for K220FR.P:	15 meters
KUSC F(50/50) contour at proposed site:	66.5 dBu
The F(50/10) contour of proposed K220FR.P	106.5 dBu


Exhibit 13–C1 shows the predicted interfering contour overlaid on a Google Earth image of the area. As can be seen, there are no regularly occupied structures within the interfering contour.

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

Exhibit 13-C

K220FR interfering contour

Legend

 34 12 21.0 N, 118 49 07.3 W

