

Channel Study

REFERENCE CH# 225D - 92.9 MHz, Pwr= 0.075 kW DA, HAAT= 252.2 M, COR= 494 M DISPLAY DATES
 34 47 37.3 N. Average Protected F(50-50)= 15.2 km DATA 02-16-22
 86 37 51.0 W. Standard Directional SEARCH 02-25-22

CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
225D Huntsville	W225AH!	LIC	DCN AL	0.0 0.0	0.00 BLFT20180913AAL	34 47 37.30 86 37 51.00	0.250	494	---Reference--- Red Mountain Broadcasting,		
227C2 New Market	WWFF-FM	LIC	ZCN AL	0.0 0.0	0.00 BLH20071228ABT	34 47 37.30 86 37 51.00	14.500 279	5.3 512	50.6 Cumulus Licensing LLC	-20.2*<	-51.2*<
225C Nashville	WJXA	LIC	CN TN	348.4 168.2	150.66 BLH19861204KB	36 07 14.20 86 58 07.00	100.000 321	172.7 507	72.9 Midwest Communications, In	-36.8*<	28.8
222D Huntsville	W222AK	LIC	CN AL	180.0 0.0	0.03 BLFT20000412ADD	34 47 36.30 86 37 51.00	0.008 280	0.2 515	8.9 Carol C. Parham	-16.5*<	-9.5*<
224A Arab	WAFN-FM	LIC	NCN AL	160.6 340.7	52.89 BLH20120629ACR	34 20 40.90 86 26 23.30	1.150 202	38.5 470	25.6 Fun Media Group, Inc.	-2.2<	2.6
223A Trinity	WVNN-FM	LIC	NCN AL	257.4 77.2	42.21 BLH19921019KD	34 42 36.30 87 04 54.00	3.100 129	2.4 315	26.3 Cumulus Licensing LLC	24.2	15.3
225C1 Northport	AL4065	RSV-A	AL	203.9 23.4	211.00 RM10323*	33 03 20.45 87 32 59.02	100.000 299	169.2 373	69.9 From CDBS	25.5	88.0
225C1 Northport	WTUG-FM	LIC	NCN AL	203.9 23.4	211.12 BLH20050624AAS	33 03 15.40 87 32 57.00	100.000 299	169.1 372	69.9 Townsquare License, LLC	25.7	88.2
225D Florence	W225AB	LIC	CN AL	270.7 90.1	95.41 BLFT20130812ACM	34 47 59.30 87 40 33.10	0.080 38	18.0 201	5.5 William P. Rogers	62.2	39.9
226D Loretto	W226AF	LIC	CN TN	299.5 119.0	77.85 BLFT20180319AAX	35 08 09.20 87 22 35.00	0.250	17.5 343	11.9 Prospect Communications	45.7	43.7
222C0 Chattanooga	WDEF-FM	LIC	CN TN	72.0 252.7	125.00 BMLH20050831ADG	35 08 06.30 85 19 24.90	100.000 360	10.7 743	74.9 Jackson Telecasters, Inc.	99.1	49.5

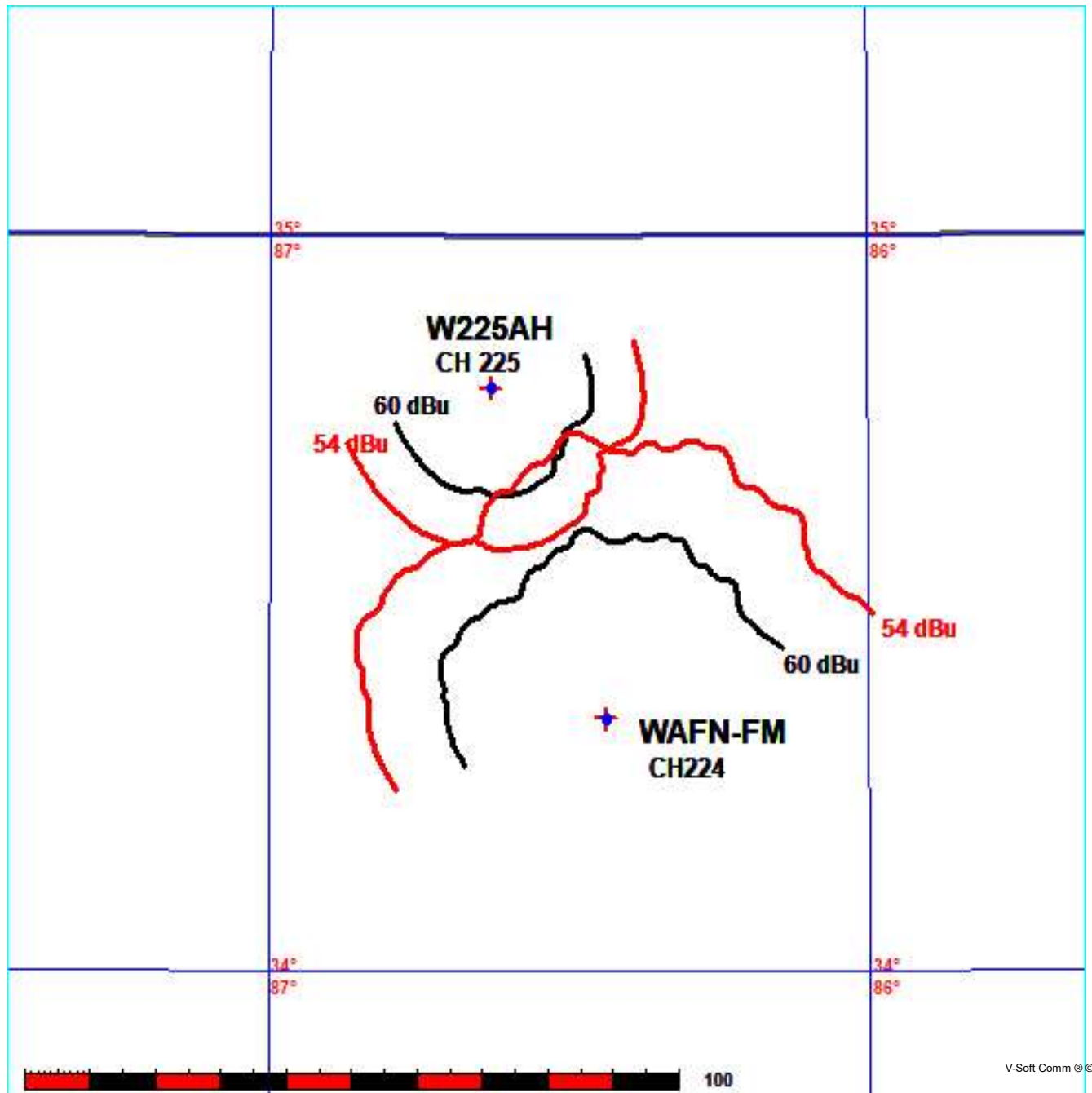
Terrain database is GLOBE 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.
 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.
 < = Contour Overlap

Red Mountain Broadcasting, LLC

FMCommander Single Allocation Study - 02-25-2022 - GLOBE 30 Sec
W225AH's Overlaps (In= -2.15 km, Out= 2.62 km)

W225AH CH 225 D DA
Lat= 34 47 37.30, Lng= 86 37 51.00
0.075 kW 252.2 m HAAT, 494 m COR
Prot.= 60 dBu, Intef.= 54 dBu

WAFN-FM CH 224 A 73.215 N BLH20120629ACR
Lat= 34 20 40.90, Lng= 86 26 23.30
1.15 kW 202 m HAAT, 470 m COR
Prot.= 60 dBu, Intef.= 54 dBu



Educational Media Foundation

5700 W Oaks Blvd
Rocklin, CA 95765

*Exhibit 1-A
Huntsville, AL*

Compliance with C.F.R. 74.1204

The proposed FM Translator operation on channel 225 will be co-located with second adjacent station WWFF-FM, channel 227C2, New Market, AL, with a vertical separation of 18.2m. Using the free space calculation and a power of 14.5kw for WWFF-FM, the resulting signal level at the proposed W225AH antenna is 150.4dbu. 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 W225AH:	75 watts
The proposed COR for W225AH:	134 meters
WWFF-FM F(50/50) contour at proposed site:	150.4dBu
The F(50/10) contour of proposed W225AH:	190.4dBu

The predicted distance to the 190.4dbu interfering contour is 0.018 meters. The interfering contour will not extend to any potentially occupied structures due to the antenna height above ground of 134 meters.

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

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5700 W Oaks Blvd
Rocklin, CA 95765

*Exhibit 1-A
Huntsville, AL*

Compliance with C.F.R. 74.1204

The proposed FM Translator operation on channel 225 will be co-located with third adjacent station W222AK, channel 222D, Huntsville, AL, with a vertical separation of 21m. Using the free space calculation and a power of .008kw for W222AK, the resulting signal level at the proposed W225AH antenna is 117dbu. 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 W225AH:	75 watts
The proposed COR for W225AH:	134 meters
W222AK F(50/50) contour at proposed site:	117dBu
The F(50/10) contour of proposed W225AH:	157.0dBu

The predicted distance to the 157.0dbu interfering contour is 0.86 meters. The interfering contour will not extend to any potentially occupied structures due to the antenna height above ground of 134 meters.

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

Human exposure to excess levels of radiofrequency radiation.

According to 47 C.F.R. 1.1307(b)(1) Table 1, any “Part 74 – Subpart L” facility with an ERP greater than 100 watts, is subject to routine environmental evaluation.

Since the facility proposed in this application will operate with an ERP of less than 100 watts, it is “categorically excluded from making such studies or preparing an EA”
[1.1307(b)(1)]

EMF will fully cooperate with other site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.