

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 13

High Point, NC

Channel Study

REFERENCE CH# 296D - 107.1 MHz, Pwr= 0.038 kW, HAAT= 62.0 M, COR= 305 M DISPLAY DATES
35 57 31.0 N. Average Protected F(50-50)= 6.4 km DATA 10-01-13
79 56 08.0 W. Omni-directional SEARCH 10-17-13

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
298C Winston-salem	WKZL	LIC	NCN NC	359.2 179.2	35.20 BLH19921016KD	36 16 33.0 79 56 27.0	100.000 303	10.0 539	71.9 Dick Broadcasting Company,	19.2	-37.1*
296D High Point	1563785	APP	C NC	0.0 0.0	0.00 BNPFT20030317ESF	35 57 31.0 79 56 08.0	0.038	19.8 305	5.9 Educational Media Foundati	-25.7*	-25.7*
296C3 Durham	WFXC	LIC	NCX NC	88.5 269.1	100.99 BLH20090611ABC	35 58 39.0 78 48 58.0	8.000 146	98.6 248	36.2 Radio One Licenses, Llc	-4.0	43.4
293C1 Salisbury	WEND	LIC	CN NC	237.1 56.7	74.71 BLH19990302KD	35 35 32.0 80 37 44.0	84.000 319	10.1 552	73.0 Capstar Tx Llc	59.3	1.3
294C2 Semora	WKVK	LIC	C NC	52.1 232.6	83.78 BLH20010417AAD	36 25 07.0 79 11 49.0	50.000 150	6.0 315	52.3 Educational Media Foundati	71.7	31.0
295C2 Southern Pines	WMGU	LIC	ZCX NC	150.1 330.5	122.81 BLH20090330AIO	34 59 53.0 79 15 47.0	50.000 143	75.1 226	49.5 Cumulus Licensing Llc	40.5	63.1
296C3 Pulaski	WPSK-FM	LIC	NCN VA	328.8 148.3	138.80 BLH19911213KF	37 01 28.0 80 44 47.0	1.750 368	90.2 1029	33.6 Cumulus Licensing Llc	42.2	83.8
296D Bassett	W296AM	LIC	C VA	1.9 181.9	85.08 BLFT20120622ACW	36 43 30.0 79 54 12.0	0.010 106	19.9 393	6.0 Bible Broadcasting Network	59.4	59.7
296A Lancaster	WRHM	LIC	NCX SC	212.9 32.4	145.02 BLH20070820ABW	34 51 34.0 80 47 59.0	2.400 160	78.7 328	26.4 Our Three Sons Broadcastin	59.9	97.1
295C Black Mountain	WMIT	LIC	C NC	264.0 82.6	213.79 BMLH19960327KD	35 44 06.0 82 17 10.0	36.000 942	139.9 2056	96.3 Blue Ridge Broadcasting Co	68.0	109.1

Terrain database is 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, 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 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 WKZL, channel 298C, Winston-Salem, NC. 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 HIGH POINT.P:	38 watts
The proposed COR for HIGH POINT.P:	50 meters
WZKL F(50/50) contour at proposed site:	77.6 dBu
The F(50/10) contour of proposed HIGH POINT.P	117.6 dBu

By taking into account the antenna vertical elevation pattern for the Jampro JLCP 1 bay, it has been determined that based on the height of the antenna, the signal is predicted to not reach the ground or any nearby occupied structure (see Exhibit 13-A1).

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

EXHIBIT 13 - A1
74.1204(d) Showing
TBD
High Point, NC

ERP (kw): 0.038
Height of Antenna above Ground (m): 50
Translator's IX Contour: 117.6
Antenna Type: JLCP-1

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.0380	57.0022	50.000
5	0.994	0.0375	56.6602	45.062
10	0.975	0.0361	55.5772	40.349
15	0.940	0.0336	53.5821	36.132
20	0.910	0.0315	51.8720	32.259
25	0.880	0.0294	50.1620	28.801
30	0.840	0.0268	47.8819	26.059
35	0.770	0.0225	43.8917	24.825
40	0.710	0.0192	40.4716	23.985
45	0.650	0.0161	37.0514	23.801
50	0.600	0.0137	34.2013	23.800
55	0.520	0.0103	29.6412	25.719
60	0.450	0.0077	25.6510	27.786
65	0.380	0.0055	21.6608	30.369
70	0.320	0.0039	18.2407	32.859
75	0.250	0.0024	14.2506	36.235
80	0.180	0.0012	10.2604	39.895
85	0.140	0.0007	7.9803	42.050
90	0.010	0.0000	0.5700	49.430

Exhibit 13-B

FMCommander Single Allocation Study - 10-17-2013 - NGDC 30 SEC
High Poin's Overlaps (In= 59.34 km, Out= 1.33 km)

High Poin CH 296 D
Lat= 35 57 31.0, Lng= 79 56 08.0
0.038 kW 62 M HAAT, 305 M COR
Prot.= 60 dBu, Intef.= 100 dBu

WEND CH 293 C1 BLH19990302KD
Lat= 35 35 32.0, Lng= 80 37 44.0
84.0 kW 319 M HAAT, 552 M COR
Prot.= 60 dBu, Intef.= 100 dBu

