

### Channel Study

REFERENCE		CH# 251D - 98.1 MHz, Pwr= 0.25 kW DA, HAAT= 94.1 M, COR= 350 M								DISPLAY DATES	
38 22 31.6 N.		Average Protected F(50-50)= 12.5 km								DATA 07-02-12	
81 39 23.4 W.		Standard Directional								SEARCH 07-03-12	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
248B Charleston	WQBE-FM	LIC	CN WV	300.2 120.1	6.8 BLH7326	38 24 22.0 81 43 26.0	50.000 152	5.9 402	64.7 Bristol Broadcasting Compa	-8.6*<	-59.1*<
251D Montgomery	W251BH	LIC	C WV	129.8 309.9	27.1 BLFT20070727AHH	38 13 09.0 81 25 05.0	0.140 116	46.0 483	13.9 Educational Media Foundati	-32.3*	-32.7
254A Pocatalico	WRVZ	LIC	ZCN WV	315.4 135.3	3.5 BLH19960620KA	38 23 53.0 81 41 06.0	0.630 188	1.6 434	24.5 West Virginia Radio Corpor	-7.7*<	-21.5*<
250D S Charleston	640487	APP	C WV	39.0 219.0	0.0 BNPFT20030317EBY	38 22 32.0 81 39 23.0	0.010 95	7.8 350	5.6 Educational Media Foundati	-16.6*<	-18.0*<
252A Ripley	WCEF	LIC	CX WV	356.7 176.6	43.6 BLH20081010ABE	38 46 04.0 81 41 09.0	6.000 94	37.5 339	24.5 Big River Radio, Inc.	-3.4<	5.7
250A Kenova	WMGA	LIC	NCX WV	274.3 93.7	77.0 BLH20060313ABM	38 25 26.0 82 32 08.0	3.500 133	48.9 350	32.7 Fifth Avenue Broadcasting	16.1	26.7
251D Birch River	W251AY	LIC	DC WV	90.8 271.5	88.2 BLFT20100517AFN	38 21 35.0 80 38 51.0	0.250 257	58.7 951	18.6 Summit Media Broadcasting,	17.4	28.2
251C Galax	WBRF	LIC	DEN VA	159.7 340.2	214.6 BLH19910423KA	36 33 34.0 80 49 25.0	100.000 535	173.4 1149	73.7 Blue Ridge Radio, Inc.	31.4	108.2
250L1 Beckley	WVPP-LP	LIC	 WV	148.5 328.7	75.8 BLL20040503AAU	37 47 35.0 81 12 17.0	0.056 40	12.2 737	8.7 Calvary Assembly Of God	50.9	48.1
253D Huntington	W253BB	LIC	C WV	274.5 94.0	68.7 BLFT20080813AEC	38 25 16.0 82 26 27.0	0.250 30	1.1 245	10.6 Fifth Avenue Broadcasting	55.7	57.4
251L1 Belpre	WVWV-LP	LIC	 OH	2.8 182.9	103.9 BLL20020311ABK	39 18 36.0 81 35 49.0	0.003 185	19.4 418	5.7 Mid-ohio Valley Educationa	74.1	62.8
251D Pikeville	W251AI	LIC	DC KY	218.1 37.5	128.0 BLFT20080725ADJ	37 27 57.0 82 33 04.0	0.105 175	49.1 523	14.9 East Kentucky Broadcasting	67.6	74.4

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.

Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

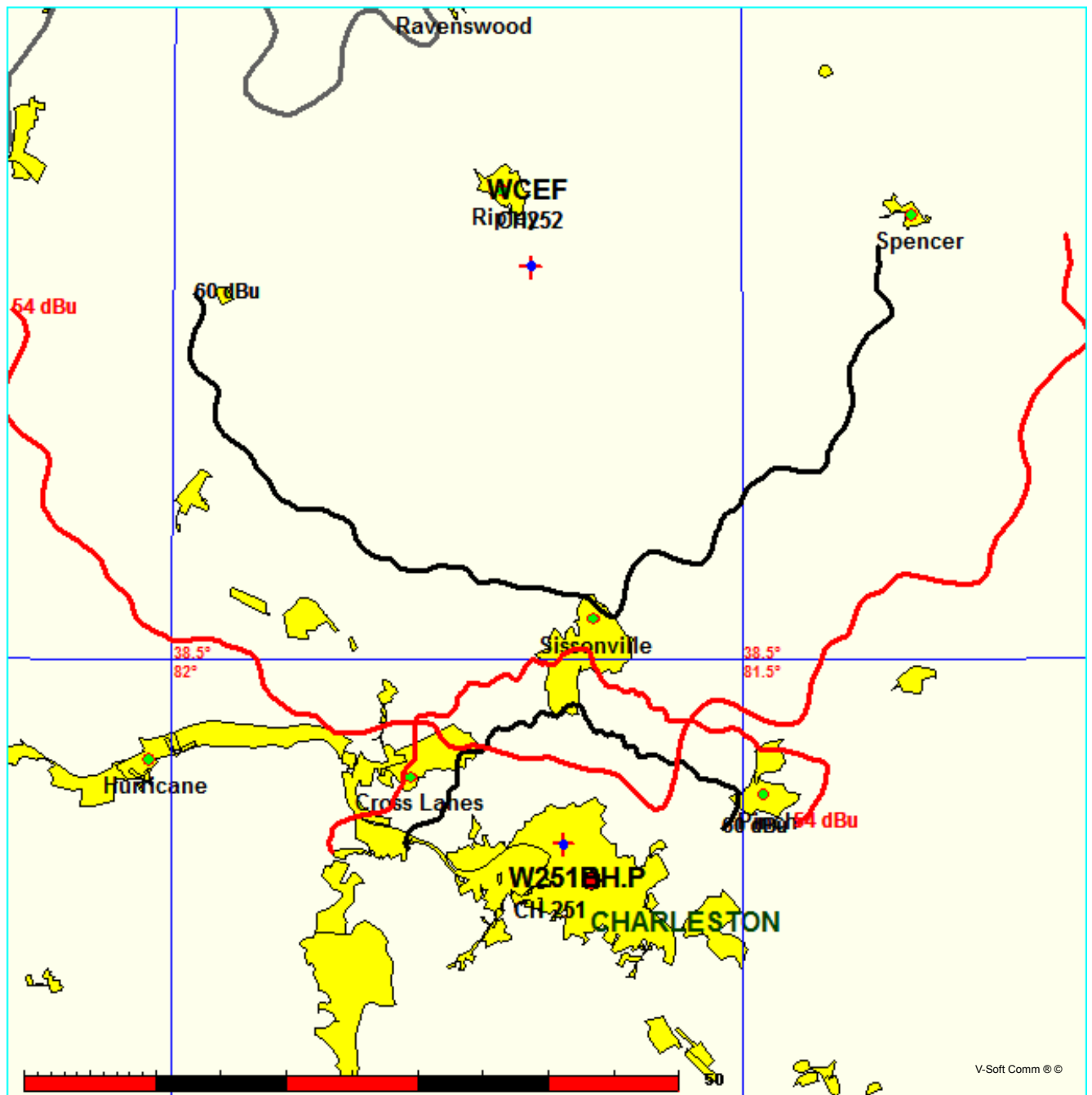
\*\*\*affixed to 'IN' or 'OUT' values = site inside protected contour.

< = Contour Overlap.

FMCommander Single Allocation Study - 07-03-2012 - NGDC 30 SEC  
W251BH.P's Overlaps (In= -3.42 km, Out= 5.74 km)

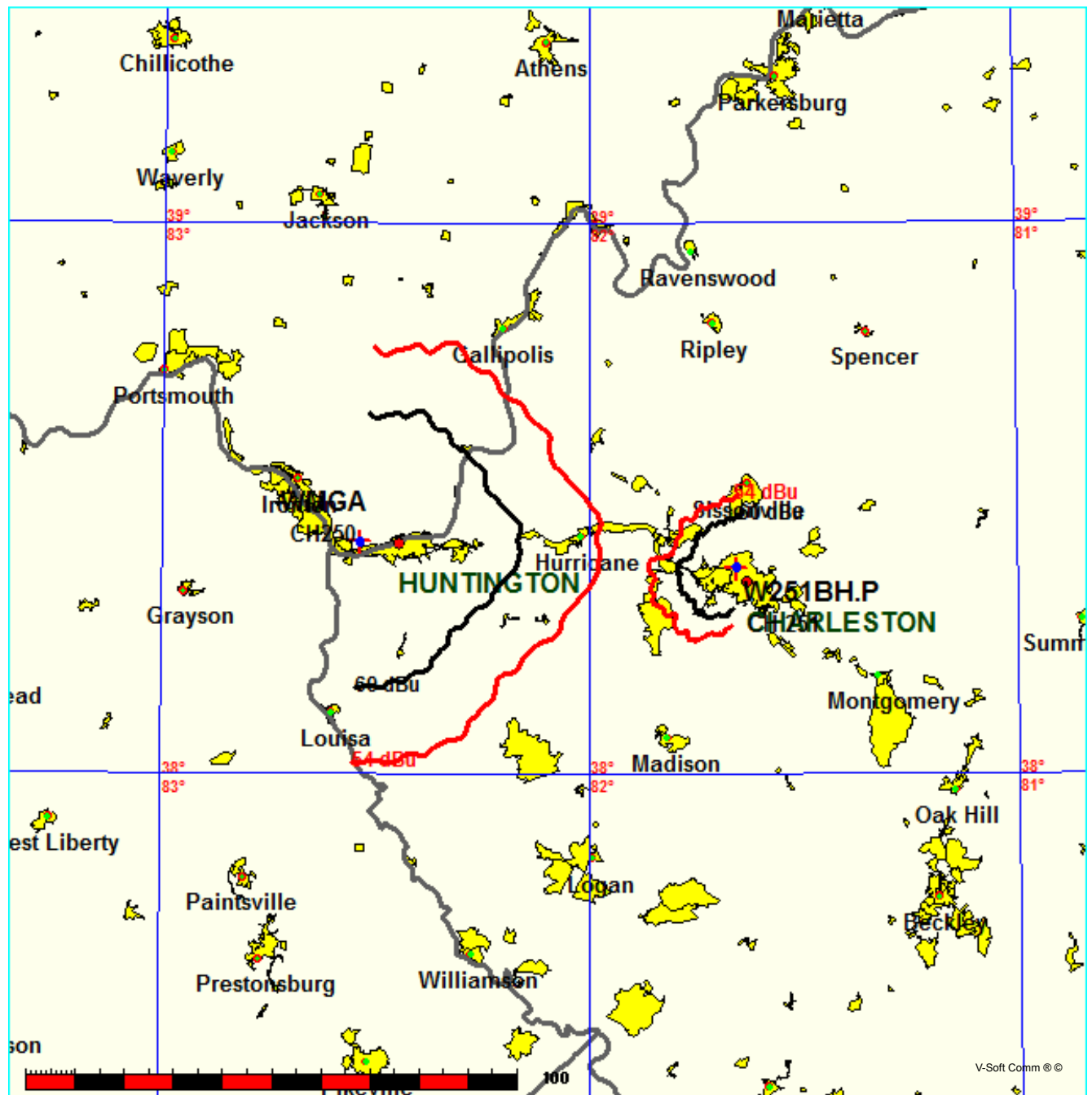
W251BH.P CH 251 D DA  
Lat= 38 22 31.6, Lng= 81 39 23.4  
0.25 kW 94.1 M HAAT, 350 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WCEF CH 252 A BLH20081010ABE  
Lat= 38 46 04.0, Lng= 81 41 09.0  
6.0 kW 94 M HAAT, 339.1 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



W251BH.P CH 251 D DA  
Lat= 38 22 31.6, Lng= 81 39 23.4  
0.25 kW 94.1 M HAAT, 350 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WMGA CH 250 A 73.215 N BLH20060313ABM  
Lat= 38 25 26.0, Lng= 82 32 08.0  
3.5 kW 133 M HAAT, 350 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 54dBu contour of third adjacent channel station WQBE, channel 248B, Charleston, WV. 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 W251BH:	250 watts
The proposed COR for W251BH:	40 meters
WQBE F(50/50) contour at proposed site:	97.6 dBu
The F(50/10) contour of proposed W251BH	137.6dBu
The predicted distance to W251BH interference contour:	14.7 meters

The signal is predicted to not reach the ground. As can be seen in Exhibit 13–A1, there are no regularly occupied structures at the base of the tower and there are no structures which could be tall enough to enter the 14.7 meter aperture.

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

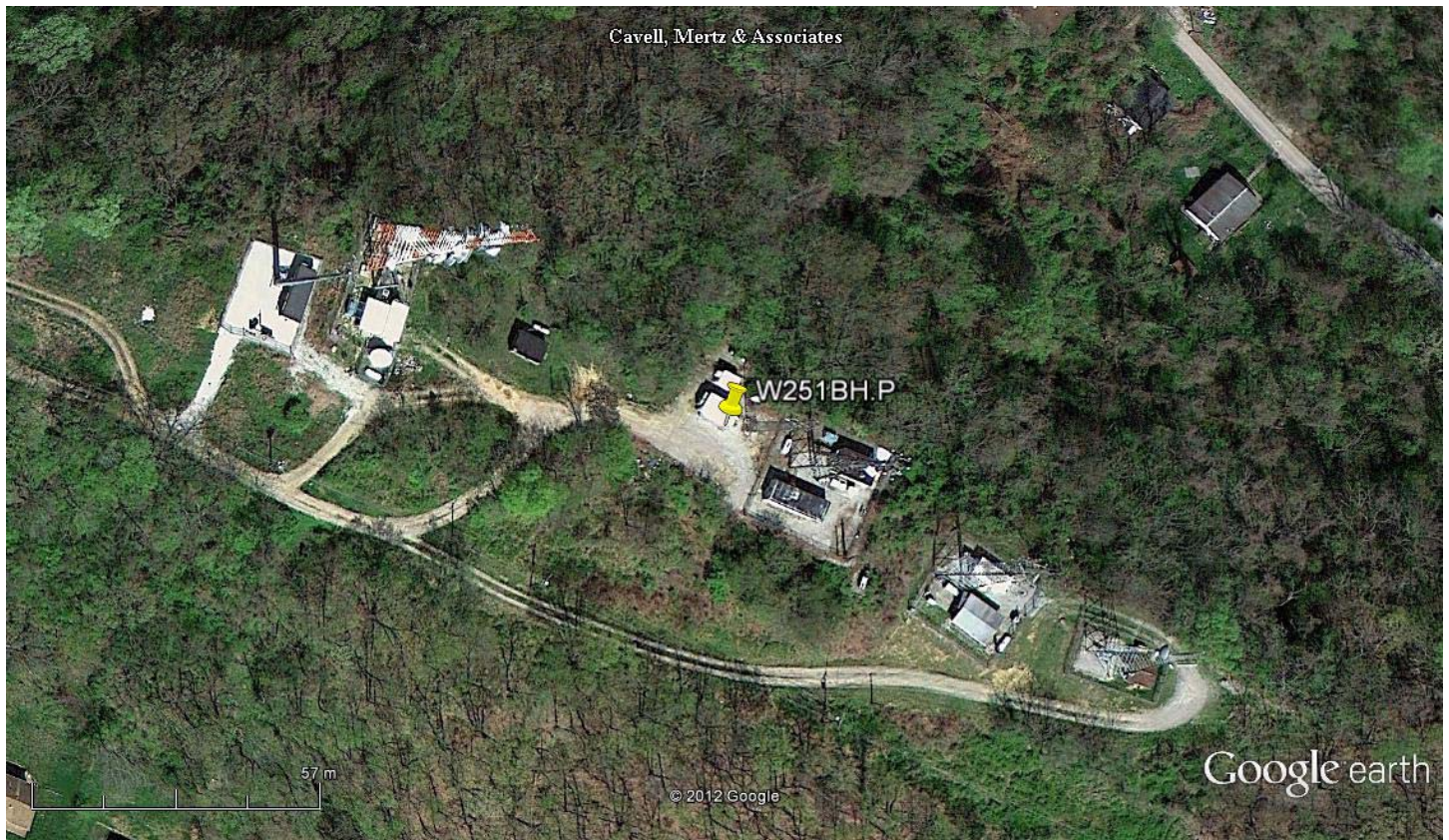
**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60dBu contour of third adjacent channel station WRVZ, channel 254A, Pocatalico, WV. 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 W251BH:	250 watts
The proposed COR for W251BH:	40 meters
WRVZ F(50/50) contour at proposed site:	91.2 dBu
The F(50/10) contour of proposed W251BH	131.2dBu
The predicted distance to W251BH interference contour:	30.6 meters

The signal is predicted to not reach the ground. As can be seen in Exhibit 13–A1, there are no regularly occupied structures at the base of the tower and there are no structures which could be tall enough to enter the 30.6 meter aperture.

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



Google earth

feet  
meters

400  
100



NAD 27

38-22-31.6

81-39-23.4