

VCI RADIO, INC.
NEW FM TRANSLATOR STATION
CH 224D - 92.7 MHZ - 0.1 KW
GREENVILLE, PENNSYLVANIA
December 2017

EXHIBIT B

Interference Study for New FM Translator
Using Proposed Site as Reference

The proposed new FM translator on Channel 224D, operating with an effective radiated power of 0.1 kilowatt, will not cause interference to any existing, applied for, or proposed facility. As noted on Exhibit B1, the proposed new translator on Channel 224 is within the predicted 60 dBu contour of third adjacent station WNCD, Channel 227B, Youngstown, Ohio. Due to the relationship between the proposed new translator and WNCD, a 40 db ratio of the protected and interfering contours applies.

Proposed New Translator vs WNCD

The WNCD contour at the new translator's antenna site is in excess of 62.8 dBu (50/50). The corresponding interfering contour for the new translator is 102.8 dBu (50/10) (Exhibit B2). This proposed translator facility will utilize a Shively 6832-6-HW, six bay, half wavelength spaced antenna. As shown in the tabulation of desired to undesired contours (Exhibit B3), the new translator's interfering contour (102.8 dBu, FCC 50/10) will not reach ground level. Since the new translator's antenna will be mounted 60.0 meters (196.9 feet) above ground and there are no structures of comparable height in the vicinity of the proposed new translator antenna, this contour never reaches any potentially occupied space. As such, WNCD will not receive interference from the proposed translator.

Based on the foregoing, it is believed that the proposed new FM translator on Channel 224 is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed to address WNCD, one is respectfully requested.

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EXHIBIT B1

Clearance Study for New Translator
Using Proposed Site as Reference

REFERENCE 41 23 05.5 N. 80 24 33.1 W.		CH# 224D - 92.7 MHZ, Fwr= 0.1 kW, HAAT= 0.0 M, COR= 428.8 M Average Protected F(50-50)= 5.6 km Omni-directional								DISPLAY DATES DATA 12-01-17 SEARCH 12-01-17	
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*
224D Greenville	1763533!	APP	C PA	0.0 0.0	0.00 BNPFT20170802AEP	41 23 05.5 80 24 33.1	0.100	29.8 429	9.0 Vci Radio, Inc.	-38.8	-38.8
227B Youngstown	WNCD	LIC	CN OH	210.7 30.5	39.29 BLH19831024AC	41 04 50.0 80 38 54.0	50.000 85	4.9 413	56.8 Citicasters Licenses, Inc.	22.8	-18.9*
223B Alliance	WDJQ	LIC	DEX OH	221.7 41.3	88.26 BMLH20021205ABW	40 47 25.0 81 06 26.0	50.000 152	74.2 518	62.3 D. A. Peterson, Inc.	3.0	2.3
224B London	CJBXFM	OPE	HN ON	342.5 162.1	181.84	42 56 40.0 81 04 48.0	50.000 121	168.1 388	61.5	4.6	72.6
224A Lawrence Park	WEHP	LIC	DCX PA	16.3 196.5	85.62 BLH20121113ALW	42 07 25.0 80 07 02.0	6.000 3	68.3 254	15.8 The Erie Radio Company, Ll	6.5	33.6
224A Clarion	WCCR-FM	LIC	CN PA	98.9 279.6	97.08 BLH19850712KA	41 14 41.0 79 15 42.0	3.000 85	78.7 540	26.0 Clarion County Broadcastin	9.8	43.7
225B Pittsburgh	WLTJ	LIC	NCX PA	160.9 341.2	104.57 BLH20060707AAC	40 29 43.0 80 00 17.0	43.000 260	83.6 564	69.5 Wpnt Media Subsidiary, LLC	9.8	11.5
225L1 Cambridge Springs	WXCS-LP	LIC	PA	32.7 212.9	53.45 BL20040608ABK	41 47 20.0 80 03 39.0	0.090 31	425	Cambridge Community Radio	32.8	32.1
226B Cleveland	WZAK	LIC	CN OH	263.9 83.1	101.97 BLH4273	41 16 50.0 81 37 22.0	27.500 189	5.8 490	64.5 Blue Chip Broadcasting Lic	85.8	36.0
221A Ellwood City	WKPL	LIC	CX PA	171.1 351.2	69.27 BLH20040929AEV	40 46 09.0 80 16 56.0	2.500 156	2.4 483	26.8 Fm Radio Licenses, LLC	55.6	38.1
222B Cleveland Heights	WKRK-FM	LIC	DEN OH	274.4 93.7	90.43 BLH19891128KA	41 26 32.0 81 29 28.0	40.000 167	2.7 465	40.3 Cbs Radio Stations Inc.	77.6	45.5
224D Parma	W224CD	LIC	DV OH	270.3 89.4	107.83 BLFT20150921AAI	41 22 58.0 81 42 07.0	0.099 279	50.0 543	15.2 Educational Media Foundati	47.6	58.5
222B Warren	WRRN	LIC	CN PA	64.8 245.6	113.70 BLH19820127AE	41 48 50.0 79 10 04.0	50.000 125	5.5 628	61.6 Radio Partners, LLC	99.0	49.0

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. 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 restricted contour.
< = Station meets FCC minimum distance spacing for its class.
Reference station has protected zone issue: AM tower

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

NEW TX - Greenville, PA

BNPFT20170802AEP

Latitude: 41-23-05.50 N / Longitude: 080-24-33.10 W

ERP: 0.10 kW / Channel: 224 / Freq: 92.7 MHz

AMSL Height: 428.8 m / Elevation: 351.127 m

Horiz. Pattern: Omni

WNCD - Youngstown, OH

BLH19831024AC

Latitude: 41-04-50 N / Longitude: 080-38-54 W

ERP: 50.00 kW / Channel: 227 / Freq: 93.3 MHz

AMSL Height: 413.0 m / Elevation: 301.0 m

Horiz. Pattern: Omni

EXHIBIT B2 VCI RADIO, INC.

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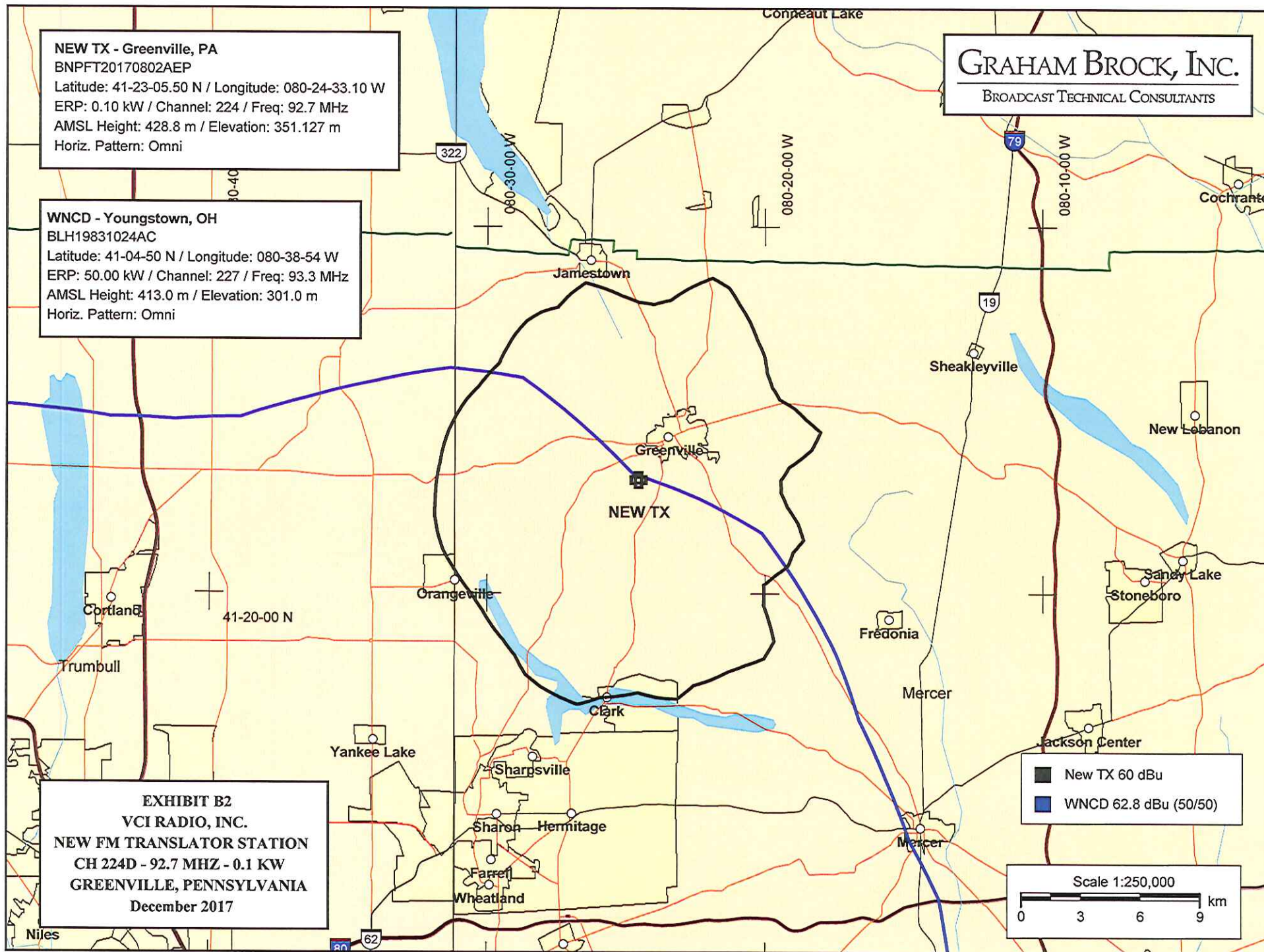
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■ New TX 60 dBu

■ WNCD 62.8 dBu (50/50)

Scale 1:250,000

0 3 6 9 km



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EXHIBIT B3

New Translator Interference Contour Tabulation

1763533 Greenville, PA
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.1
 Translator or LPFM Antenna Height AG = 60 Meters
 1763533 Antenna Model = SHIVELY 6832 -6-HW

Protected Station's Contour = 62.82825 dBu
 Translator's or LPFM's full Interference contour 102.82825

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.1 kW
 Distance between stations = 39.3 km
 Protected Station= WNCD, 50 kW, 413 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.1000	506.5094	506.5094	060.000
05.00	0.827	1.0	0.0684	418.8833	417.2893	023.492
10.00	0.416	1.0	0.0173	210.7079	207.5068	023.411
15.00	0.006	1.0	0.0000	003.0391	002.9355	059.213
20.00	0.206	1.0	0.0042	104.3409	098.0484	024.313
25.00	0.187	1.0	0.0035	094.7173	085.8430	019.971
30.00	0.043	1.0	0.0002	021.7799	018.8620	049.110
35.00	0.089	1.0	0.0008	045.0793	036.9268	034.144
40.00	0.134	1.0	0.0018	067.8723	051.9932	016.373
45.00	0.094	1.0	0.0009	047.6119	033.6667	026.333
50.00	0.02	1.0	0.0000	010.1302	006.5116	052.240
55.00	0.043	1.0	0.0002	021.7799	012.4924	042.159
60.00	0.074	1.0	0.0005	037.4817	018.7408	027.540
65.00	0.075	1.0	0.0006	037.9882	016.0545	025.571
70.00	0.059	1.0	0.0003	029.8841	010.2209	031.918
75.00	0.039	1.0	0.0002	019.7539	005.1127	040.919
80.00	0.021	1.0	0.0000	010.6367	001.8470	049.525
85.00	0.009	1.0	0.0000	004.5586	000.3973	055.459
90.00	0.001	1.0	0.0000	000.5065	000.0000	059.493

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EXHIBIT B4

N. Lat. = 41° 23' 05.5" - Protected and Interfering Contour Data
W. Lng. = 80° 24' 33.1" - New FM Translator, Greenville, Pennsylvania

HAAT and Distance to Contour - FCC 30 second terrain database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1	102.8-F1
000	353.3	75.5	0.1000	-10.00	1.000	8.98	29.73	12.58	0.70	0.51
010	350.0	78.8	0.1000	-10.00	1.000	9.18	30.43	12.83	0.70	0.51
020	317.7	111.1	0.1000	-10.00	1.000	10.84	36.91	15.52	0.70	0.51
030	329.2	99.6	0.1000	-10.00	1.000	10.30	34.85	14.42	0.70	0.51
040	347.6	81.2	0.1000	-10.00	1.000	9.32	30.96	13.01	0.70	0.51
050	363.2	65.6	0.1000	-10.00	1.000	8.36	27.70	11.83	0.70	0.51
060	366.7	62.1	0.1000	-10.00	1.000	8.12	26.99	11.55	0.70	0.51
070	353.8	75.0	0.1000	-10.00	1.000	8.95	29.63	12.55	0.70	0.51
080	358.6	70.2	0.1000	-10.00	1.000	8.65	28.62	12.18	0.70	0.51
090	381.7	47.1	0.1000	-10.00	1.000	7.01	23.54	10.09	0.70	0.51
100	376.0	52.8	0.1000	-10.00	1.000	7.46	24.98	10.72	0.70	0.51
110	357.7	71.1	0.1000	-10.00	1.000	8.71	28.81	12.25	0.70	0.51
120	360.3	68.5	0.1000	-10.00	1.000	8.54	28.28	12.05	0.70	0.51
130	367.1	61.7	0.1000	-10.00	1.000	8.10	26.91	11.52	0.70	0.51
140	323.8	105.0	0.1000	-10.00	1.000	10.56	35.86	14.83	0.70	0.51
150	320.5	108.3	0.1000	-10.00	1.000	10.72	36.45	15.26	0.70	0.51
160	321.8	107.0	0.1000	-10.00	1.000	10.65	36.22	15.13	0.70	0.51
170	309.0	119.8	0.1000	-10.00	1.000	11.23	38.24	16.29	0.70	0.51
180	321.2	107.6	0.1000	-10.00	1.000	10.68	36.33	15.20	0.70	0.51
190	312.1	116.7	0.1000	-10.00	1.000	11.09	37.79	16.02	0.70	0.51
200	297.1	131.7	0.1000	-10.00	1.000	11.74	39.78	17.24	0.70	0.51
210	307.1	121.7	0.1000	-10.00	1.000	11.31	38.49	16.44	0.70	0.51
220	324.5	104.3	0.1000	-10.00	1.000	10.53	35.74	14.78	0.70	0.51
230	330.6	98.2	0.1000	-10.00	1.000	10.23	34.59	14.31	0.70	0.51
240	330.4	98.4	0.1000	-10.00	1.000	10.24	34.62	14.33	0.70	0.51
250	327.1	101.7	0.1000	-10.00	1.000	10.40	35.26	14.58	0.70	0.51
260	327.8	101.0	0.1000	-10.00	1.000	10.37	35.12	14.52	0.70	0.51
270	332.5	96.3	0.1000	-10.00	1.000	10.13	34.20	14.16	0.70	0.51
280	338.2	90.6	0.1000	-10.00	1.000	9.84	33.01	13.73	0.70	0.51
290	342.1	86.7	0.1000	-10.00	1.000	9.63	32.17	13.43	0.70	0.51
300	348.0	80.8	0.1000	-10.00	1.000	9.29	30.86	12.98	0.70	0.51
310	352.0	76.8	0.1000	-10.00	1.000	9.06	30.00	12.68	0.70	0.51
320	344.6	84.2	0.1000	-10.00	1.000	9.48	31.61	13.24	0.70	0.51
330	341.5	87.3	0.1000	-10.00	1.000	9.66	32.30	13.48	0.70	0.51
340	337.3	91.5	0.1000	-10.00	1.000	9.88	33.22	13.80	0.70	0.51
350	337.2	91.6	0.1000	-10.00	1.000	9.89	33.23	13.81	0.70	0.51

AMSL= 428.8 M