

**MINOR CHANGE APPLICATION**  
**CUMBERLAND BROADCASTING COMPANY**  
**NEW FM TRANSLATOR STATION**  
**CH 276D - 103.1 MHZ - 0.155 KW**  
**CUMBERLAND, MARYLAND**  
**April 2018**

**EXHIBIT B1**

Clearance Study for New Translator  
Using Proposed Site as Reference

REFERENCE		CH# 276D - 103.1 MHz, Pwr= 0.155 kW, HAAT= 74.8 M, COR= 504.5 M								DISPLAY DATES	
39 40 28.3 N.		Average Protected F(50-50)= 10.0 km								DATA 04-15-18	
78 46 45.2 W.		Omni-directional								SEARCH 04-15-18	
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*
276D Cumberland	1777085!	APP	C MD	0.0 191.9	0.00 BNPFT20180126ACQ	39 40 29.0 78 46 45.0	0.155	0.00 503	0.00 Cumberland Broadcasting Co	-64.5R	64.5M
276B1 Mount Pleasant	WKVE	LIC	CX PA	290.3 109.8	77.60 BLH20100309AAS	39 54 49.6 79 37 57.4	4.400 244	87.6 709	34.2 Broadcast Communications,	-15.5*	16.3
277A Wardensville	WTCF	LIC	CX WV	148.4 328.7	64.09 BMLED20151119AAN	39 10 58.0 78 23 23.0	0.350 410	45.9 797	29.6 Educational Media Foundati	-1.2	6.2
278D Cumberland, Etc.	W278BL	LIC	C MD	224.8 44.8	14.67 BLFT20110414ABC	39 34 51.0 78 54 00.0	0.010 433	0.2 904	12.9 Cedar Ridge Children's Hom	2.3	0.9
275L1 Keyser	WKYW-LP	LIC	C WV	213.2 33.1	31.48 BLL20170123FLR	39 26 15.0 78 58 49.0	0.100			6.2	2.2
273B Winchester	WUSQ-FM	LIC	CN VA	141.2 321.5	70.77 BLH19880405KB	39 10 38.0 78 15 53.0	32.000 192	5.4 482	61.8 Capstar Tx, Llc	46.3	6.5
275D Winchester	W275BV	CP	DC VA	148.2 328.5	64.08 BPFT20170505AEA	39 11 02.0 78 23 15.0	0.250	37.7 807	24.6 City Commons Llc Va Series	6.7	11.7
275D Everett	1780485	APP	DC PA	41.5 221.7	48.83 BNPFT20180327ACI	40 00 11.0 78 23 58.0	0.120	25.7 667	17.3 New Millennium Communicati	9.3	12.8
275D Everett	1771794	APP	DC PA	41.5 221.7	48.83 BNPFT20170802ACO	40 00 11.0 78 23 58.0	0.120	25.7 667	17.3 New Millennium Communicati	9.3	12.8
276D Martinsburg, Etc.	W276AS	LIC	C PA	22.4 202.6	80.93 BLFT20090604ACH	40 20 50.0 78 24 57.0	0.020 160	34.4 635	10.3 Martinsburg Broadcasting,	29.3	15.0
275D Winchester	W275BV	LIC	DC VA	148.2 328.5	64.08 BLFT20150427ABJ	39 11 02.0 78 23 15.0	0.250	13.1 807	9.0 City Commons Llc Va Series	31.2	27.5
276A Middletown	WAFY	LIC	CN MD	104.2 285.0	113.24 BLH19900514KB	39 25 05.0 77 30 03.0	1.000 174	69.0 355	21.1 Manning Broadcasting Inc.	32.1	44.3
278D Somerset	W278CR	CP	C PA	325.4 145.2	47.45 BNPFT20171205ABH	40 01 32.0 79 05 44.0	0.250	1.1 793	11.0 Fm Radio Licenses, Llc	37.5	35.1
275D Johnstown	1780235	APP	DC PA	347.4 167.3	79.35 BNPFT20180327ABJ	40 22 15.2 78 59 01.7	0.099	29.5 866	19.0 Greater Johnstown School D	35.8	50.8

Terrain database is GLOBE 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 3<sup>rd</sup> 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.

Reference station has protected zone issue: AM tower

**MINOR CHANGE APPLICATION**  
**CUMBERLAND BROADCASTING COMPANY**  
**NEW FM TRANSLATOR STATION**  
**CH 27.6D - 103.1 MHZ - 0.155 KW**  
**CUMBERLAND, MARYLAND**  
**April 2018**

**EXHIBIT B2**

N. Lat. = 39° 40' 28.3" - Protected and Interfering Contour Data  
W. Lng. = 78° 46' 45.2" - New FM Translator, Cumberland, Maryland

HAAT and Distance to Contour,  
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	100-F1	60-F5	54-F1	40-F1
000	415.4	89.1	0.1550	-8.10	1.000	0.87	10.85	15.46	36.89
010	331.3	173.2	0.1550	-8.10	1.000	0.87	15.17	22.89	49.44
020	296.0	208.5	0.1550	-8.10	1.000	0.87	16.68	25.04	53.60
030	496.3	8.2	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
040	357.9	146.6	0.1550	-8.10	1.000	0.87	13.83	20.83	46.05
050	357.4	147.1	0.1550	-8.10	1.000	0.87	13.85	20.87	46.12
060	372.3	132.2	0.1550	-8.10	1.000	0.87	13.08	19.63	44.21
070	351.6	152.9	0.1550	-8.10	1.000	0.87	14.16	21.34	46.85
080	334.1	170.4	0.1550	-8.10	1.000	0.87	15.04	22.68	49.08
090	331.6	172.9	0.1550	-8.10	1.000	0.87	15.16	22.86	49.41
100	353.4	151.1	0.1550	-8.10	1.000	0.87	14.06	21.20	46.63
110	375.8	128.7	0.1550	-8.10	1.000	0.87	12.91	19.34	43.75
120	360.9	143.6	0.1550	-8.10	1.000	0.87	13.67	20.58	45.67
130	317.8	186.7	0.1550	-8.10	1.000	0.87	15.76	23.75	51.07
140	281.3	223.2	0.1550	-8.10	1.000	0.87	17.30	25.87	55.19
150	231.4	273.1	0.1550	-8.10	1.000	0.87	19.18	28.38	59.84
160	205.2	299.3	0.1550	-8.10	1.000	0.87	20.08	29.69	62.24
170	201.5	303.0	0.1550	-8.10	1.000	0.87	20.20	29.87	62.57
180	241.9	262.6	0.1550	-8.10	1.000	0.87	18.80	27.86	58.89
190	321.3	183.2	0.1550	-8.10	1.000	0.87	15.61	23.53	50.65
200	245.4	259.1	0.1550	-8.10	1.000	0.87	18.68	27.69	58.57
210	296.7	207.8	0.1550	-8.10	1.000	0.87	16.66	25.00	53.52
220	400.7	103.8	0.1550	-8.10	1.000	0.87	11.67	17.08	39.93
230	547.2	-42.7	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
240	529.2	-24.7	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
250	541.0	-36.5	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
260	589.0	-84.5	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
270	589.6	-85.1	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
280	590.7	-86.2	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
290	562.0	-57.5	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
300	561.1	-56.6	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
310	545.9	-41.4	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
320	570.4	-65.9	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
330	588.1	-83.6	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
340	519.8	-15.3	0.1550	-8.10	1.000	0.87	6.29	8.99	20.96
350	456.5	48.0	0.1550	-8.10	1.000	0.87	7.95	11.33	26.50

AMSL= 504.5