

TECHNICAL STATEMENT
AUXILIARY MINOR CHANGE APPLICATION
WOTH(FM) WILLIAMSPORT, PENNSYLVANIA, CH. 300A
BACKYARD BROADCASTING OF PENNSYLVANIA, LLC
APRIL 2022

This Auxiliary minor change application is being filed on behalf of WOTH(FM) Williamsport, Pennsylvania, facility ID number 3633, currently on channel 300A (107.9 mhz). WOTH is seeking to modify its currently licensed auxiliary license, BXMLH-20130606AAO.

WOTH(FM) seeks to relocate to an established communications tower site on Bald Eagle Mountain. The proposed site is a registered 91.4 meter overall height tower, number 1025012. The proposed center of radiation will be decreased to 646 meters Above Mean Sea Level, 82.1 meters above ground and 384 meters Height Above Average Terrain. The proposed Effective Radiated Power (“ERP”) will be 0.005 KW (5 watts). This will be a shared two bay broadband backup auxiliary antenna with co-owned WZXR(FM) South Williamsport, PA., Fac. ID 61180.

Figure 1 is a channel spacing study conducted at the proposed site. It shows that this site will meet all of the required spacing under 73.207 operating on channel 300A, with the exception of WKPA(FM) Port Matilda, PA, on channel 300A, facility ID 63546. Figure 2 attached shows a detailed channel interference study which shows there will be no prohibitive overlap with WKPA or any other pertinent same or adjacent channels stations.

Figure 3 is a predicted 60 dB μ contour map showing the new proposed auxiliary operation by WOTH(FM) will be contained within the currently license operation of WOTH, License number 0000180079.

It was determined that this new proposed operation by WOTH will meet of the pertinent rules of the Commission for an FM broadcast auxiliary station.

FIGURE 1 - CHANNEL SPACING STUDY
WOTH Williamsport, PA, CH. 300D

REFERENCE					DISPLAY DATES
41 13 05.00 N.		CLASS = A	Int = A		DATA 04-05-22
76 57 26.00 W.		Current Spacings to 3rd Adj.			SEARCH 04-05-22
----- Channel 300 - 107.9 MHz -----					

Call	Channel	Location	Azi	Dist	FCC	Margin
WOTH	LIC 300A	Williamsport	PA 56.0	12.43	114.5	-102.1
WKPA	LIC-Z 300A	Port Matilda	PA 249.1	91.66	114.5	-22.8
AL03325	ALO 298A	Liberty	PA 325.7	36.78	30.5	6.3
AL2629	VAC 298A	Liberty	PA 325.7	36.78	30.5	6.3
WLGD	LIC-Z 299A	Dallas	PA 82.8	90.22	71.5	18.7
W299AF	LIC 299D	Catawissa	PA 124.6	54.42	35.5	18.9
W300BX	LIC 300D	Wellsboro	PA 334.1	65.46	46.5	19.0
WKRF	LIC 300A	Tobyhanna	PA 97.8	134.07	114.5	19.6
WEGH	LIC-Z 297A	Northumberland	PA 155.4	52.73	30.5	22.2
WWHT	LIC 300B	Syracuse	NY 19.6	205.37	177.5	27.9
W299CM	LIC 299D	Towanda	PA 32.7	72.42	35.5	36.9
WGTY	LIC-D 299B	Gettysburg	PA 179.7	151.19	112.5	38.7
W300BT	LIC-D 300D	Hazleton	PA 107.9	88.42	46.5	41.9
W300BT	CP -D 300D	Hazleton	PA 108.0	88.42	46.5	41.9
WHMN-LP	LIC 297L1	Plymouth	PA 88.0	81.67	28.5	53.2
W300DH	LIC-D 300D	Corning	NY 354.5	103.09	46.5	56.6
W246AL	LIC-D 246D	Wellsboro	PA 335.3	66.36	9.5	56.9
WECW	LIC 299D	Elmira	NY 6.8	98.29	35.5	62.8
W299CM	CP -D 299D	Athens	PA 20.8	100.58	35.5	65.1
WLZL	LIC-D 300B	College Park	MD 174.0	248.04	177.5	70.5
WBYN-FM	LIC-Z 298B	Boyertown	PA 129.1	142.45	68.5	74.0
W300BV	LIC-D 300D	Endicott	NY 34.7	120.74	46.5	74.2
WCOH	LIC-N 297B	Du Bois	PA 271.3	142.81	68.5	74.3
WLRG-LP	LIC 298L1	Corning	NY 354.5	103.10	28.5	74.6
W298CR	LIC-D 298D	Mexico	PA 213.3	85.68	7.5	78.2
WLKK	LIC-D 299B	Wethersfield Twnshp	NY 325.3	191.25	112.5	78.8
WBHT	LIC-N 246A	Mountain Top	PA 92.1	91.15	9.5	81.7
W297BG	LIC-D 297D	Ulster	PA 22.2	89.15	7.5	81.7
W300DQ	LIC-D 300D	Carbondale	PA 72.5	128.69	46.5	82.2
WRVV	LIC-N 247B	Harrisburg	PA 175.6	97.19	14.5	82.7
W300BZ	LIC-D 300D	Reading	PA 136.8	131.07	46.5	84.6
WOWY	LIC 246A	University Park	PA 241.4	94.49	9.5	85.0
WMES-LP	LIC 299L1	Altoona	PA 237.7	143.98	55.5	88.5
WDSY-FM	LIC 300B	Pittsburgh	PA 253.0	269.20	177.5	91.7
WPPZ-FM	LIC-Z 300A	Pennsauken	NJ 132.4	206.64	114.5	92.1
W297CO	LIC-D 297D	Carlisle	PA 188.4	104.17	7.5	96.7
AL1922	USE 300A	Pennsauken	NJ 128.9	212.19	114.5	97.7
WBBi	LIC 298A	Endwell	NY 37.5	129.63	30.5	99.1
W297AF	LIC 297D	Scranton	PA 78.4	110.14	7.5	102.6
W299BI	LIC-D 299D	Ithaca	NY 15.6	139.11	35.5	103.6
W300BR	LIC 300D	Du Bois	PA 265.8	151.87	46.5	105.4
CHUC-FM+	OPE-D 300B	Cobourg	ON 343.4	331.39	210.0	121.4

Reference station has protected zone issue: Canada
All separation margins include rounding

FIGURE 2 - CHANNEL INTERFERENCE STUDY

WOTH Williamsport, PA, CH. 300D

MHz, Pwr= 0.005 kw, HAAT= 374.5 M,

Average Protected F(50-50)= 9.27 km

Omni-directional

COR= 646 M

DISPLAY DATES

DATA 04-05-22

SEARCH 04-05-22

REFERENCE
41 13 05.00 N.
76 57 26.00 W.

CH# 300A - 107.9

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*
300A Williamsport	WOTH	LIC _CN PA		56.0 236.1	12.43 0000180079	41 16 49.80 76 50 02.50	3.400 135	426	---Reference--- Backyard Broadcasting of P		
298A Liberty	AL2629«	VAC _CN PA		325.7 145.6	36.78 RM	41 29 28.26 77 12 20.90	6.000 100	2.7 613	27.7 From CDBS	30.5R	6.3M
298A Liberty	AL03325«	ALO _CN PA		325.7 145.6	36.78	41 29 28.30 77 12 20.90	6.000 100	2.7 613	27.7	30.5R	6.3M
300A Port Matilda	WKPA	LIC ZCN PA		249.1 68.4	91.66 BMLED20060201AZN	40 55 11.20 77 58 27.00	0.450 358	64.8 839	20.7 Educational Media Foundati	17.5	43.3
299A Dallas	WLGD«	LIC ZCN PA		82.8 263.5	90.22 0000135822	41 18 54.30 75 53 17.70	2.350 162	37.5 491	24.8 Southern Belle, LLC	71.5R	18.7M
300A Tobyhanna	WKRF«	LIC _CN PA		97.8 278.8	134.07 BLH20121019ABW	41 02 39.60 75 22 37.70	0.830 268	61.5 680	19.6 Audacy License, LLC	114.5R	19.6M
297A Northumberland	WEGH«	LIC ZCN PA		155.4 335.6	52.73 BLH19940805KCC	40 47 10.30 76 41 47.80	0.900 257	1.9 499	31.0 Sunbury Broadcasting Corpo	30.5R	22.2M
300B Syracuse	WWHT«	LIC _CN NY		19.6 200.2	205.37 BLH19781024AG	42 57 21.20 76 06 34.70	50.000 152	130.3 437	55.7 Ihm Licenses, LLC	177.5R	27.9M
300D Wellsboro	W300B	LIC _VN PA		334.1 153.9	65.46 BLFT20090202AAG	41 44 51.20 77 18 05.90	0.099 -100	18.5 410	5.6 Southern Belle, LLC	37.6	28.7
299D Catawissa	W299AF	LIC _CN PA		124.6 304.9	54.42 BLFT19941122TD	40 56 22.30 76 25 27.80	0.001 280	8.3 573	5.2 Salt And Light Media Minis	36.4	35.6
299D Towanda	W299CM	LIC _CN PA		32.7 213.0	72.42 BLFT20180503ABR	41 45 55.30 76 29 08.80	0.250	10.1 391	7.1 Radigan Broadcasting Group	52.9	51.2
299B Gettysburg	WGTY«	LIC DEN PA		179.7 359.7	151.19 BLH19890117KA	39 51 23.30 76 56 55.90	16.000 259	79.5 439	67.6 Fm Radio Licenses, LLC	112.5R	38.7M
300D Hazleton	W300BT	CP DCN PA		108.0 288.6	88.42 0000166406	40 58 08.90 75 57 27.10	0.250	12.1 615	2.4 67.4		47.6
300D Hazleton	W300BT	LIC DCN PA		107.9 288.6	88.42 BLFT20180522AAY	40 58 09.30 75 57 26.70	0.019	4.9 615	0.7 74.2		52.0
297L1 Plymouth	WHMN-LP«	LIC _CN PA		88.0 268.7	81.67 BLL20061219ACN	41 14 20.20 75 59 00.70	0.010 95	423	28.5R Abundant Life Ministry		53.2M
246D Wellsboro	W246AL«	LIC DVN PA		335.3 155.1	66.36 0000163295	41 45 36.20 77 17 30.90	0.250	85.6 561	30.7 Mid-Atlantic Broadcasting,	9.5R	56.9M
300D Endicott	W300BV	LIC DCN NY		34.7 215.2	120.74 BLFT20180806AAM	42 06 29.30 76 07 29.70	0.250	51.4 524	15.2 Radigan Broadcasting Group	60.5	71.6
300D Corning	W300DH	LIC DCN NY		354.5 174.4	103.09 0000117683	42 08 31.00 77 04 39.00	0.165	12.2 536	3.8 Southern Belle, LLC	81.8	66.7
299D Athens	W299CM	CP DCN PA		20.8 201.1	100.58 0000178673	42 03 48.20 76 31 26.70	0.250	22.1 492	14.2 Radigan Broadcasting Group	69.4	69.9
300B College Park	WLZL«	LIC DCN MD		174.0 354.2	248.04 BMLH20170914AAQ	38 59 46.00 76 39 23.90	49.000 151	123.7 180	57.7 Audacy License, LLC	177.5R	70.5M
298B Boyertown	WBYN-FM«	LIC ZCN PA		129.1 309.9	142.45 BLH20041116ABG	40 24 15.30 75 39 07.60	30.000 186	4.9 358	57.5 wdac Radio Company	68.5R	74.0M
297B Du Bois	WCOH«	LIC NCN PA		271.3 90.2	142.81 BLED20150715AAV	41 14 08.20 78 39 37.00	18.500 247	6.2 775	69.6 Family Life Ministries, In	68.5R	74.3M
298L1 Corning	WLRG-LP«	LIC _CN NY		354.5 174.4	103.10 BLL20060818AFJ	42 08 31.30 77 04 38.90	0.002 197	555	28.5R Corning Christian Radio Co		74.6M
298D Mexico	W298CR	LIC DCN PA		213.3 32.9	85.68 0000131033	40 34 20.40 77 30 49.60	0.210	0.0 654	1.9 Southern Belle, LLC	76.6	72.4
299B Wethersfield Twnshp	WLKK«	LIC DCN NY		325.3 144.4	191.25 BLH20150122ABI	42 37 25.20 78 17 20.10	17.000 258	70.9 776	60.5 Audacy License, LLC	112.5R	78.8M

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap in km)	*OUT*
300A Williamsport	WOTH	AXA _00 PA	9.0 0.0	0.00	41 13 05.00 76 57 26.00	0.600 481	646	---Reference--- 04-05-22		04-05-22
297D Ulster	W297BG	LIC DCN PA	22.2 202.5	89.15 BLFT20110321AAG	41 57 36.20 76 32 56.80	0.235 143	0.9 512	11.3 Southern Belle, LLC	78.7	75.2
246A Mountain Top	WBHT«	LIC NCN PA	92.1 272.8	91.15 BLH19961017KD	41 10 57.20 75 52 17.70	0.500 336	85.6 714	30.7 Radio License Holding Cbc,	9.5R	81.7M
299D Elmira	WECW	LIC _CN NY	6.8 186.9	98.29 BLED19931105KA	42 05 48.20 76 48 58.80	0.009 -103	4.3 282	3.1 Elmira College	84.5	82.2
247B Harrisburg	WRVV«	LIC NCN PA	175.6 355.6	97.19 BLH20040916ACU	40 20 43.30 76 52 07.90	15.000 260	85.6 444	30.7 Ihm Licenses, LLC	14.5R	82.7M
246A University Park	WOWY«	LIC _CN PA	241.4 60.7	94.49 BLH19900417KB	40 48 27.20 77 56 28.00	2.000 123	85.6 529	30.7 Southern Belle, LLC	9.5R	85.0M
300D Carbondale	W300DQ	LIC DCN PA	72.5 253.5	128.69 0000132178	41 33 22.00 75 29 08.00	0.250	5.9 538	1.9 BoId Gold Media Group, L.P	112.8	86.1
299L1 Altoona	WMES-LP«	LIC _CN PA	237.7 56.7	143.98 BLL20040608ABJ	40 31 03.20 78 23 40.00	0.100 -55	374	55.5R Lay Stewardship Educationa		88.5M
300B Pittsburgh	WDSY-FM«	LIC _CN PA	253.0 71.0	269.20 BMLH20070226AAY	40 28 20.20 79 59 40.20	17.500 252	131.4 567	68.4 Audacy License, LLC	177.5R	91.7M
300A Pennsauken	WPPZ-FM«	LIC ZCN NJ	132.4 313.5	206.64 BLH20050622AAL	39 57 09.40 75 10 03.60	0.780 276	74.3 304	25.3 Radio One Licenses, LLC	114.5R	92.1M
297D Carlisle	W297CO	LIC DCN PA	188.4 8.2	104.17 0000126775	40 17 23.30 77 08 08.90	0.250	0.0 278	0.0 Wioo, Inc.	94.7	104.0
300A Pennsauken	AL1922«	USE ____ NJ	128.9 310.2	212.19 RM10615	40 00 12.41 75 01 17.61	6.000 100	80.0 126	23.2 From CDBS	114.5R	97.7M
298A Endwell	WBBI«	LIC _CN NY	37.5 218.2	129.63 BMLH20070328ACJ	42 08 17.30 75 59 57.70	2.200 166	2.7 534	32.0 Ihm Licenses, LLC	30.5R	99.1M
297D Scranton	W297AF	LIC _CN PA	78.4 259.3	110.14 BLFT20020715ABC	41 24 34.30 75 39 59.70	0.250 -70	1.1 322	7.1 The Scranton Times, L.P.	99.0	97.9
299D Ithaca	W299BI	LIC DCN NY	15.6 195.9	139.11 BLFT20130610ABE	42 25 24.20 76 30 06.70	0.170 -75	3.8 280	2.7 Saga Communications Of New	125.7	122.2
300D Du Bois	W300BR	LIC _CN PA	265.8 84.6	151.87 BMLFT20190812AAT	41 06 11.20 78 45 37.10	0.250 42	25.4 543	7.4 Priority Communications, I	116.6	104.6
300B Cobourg	CHUC-FM+«	OPE DCN ON	343.4 162.6	331.39 20070308CAN	44 04 14.18 78 08 35.09	20.000 216	132.3 424	68.1 210.0R		121.4M

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= - Zone 1, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with strikeout 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.
« = Station meets FCC minimum distance spacing for its class.
Reference station has protected zone issue: Canada

FIGURE 3 - LICENSED WOTH 60 DBU WITH PROPOSED AUX.
WOTH Williamsport, PA, CH. 300D

Coverage Study - GLOBE 30 Sec
04-05-2022

