

(1) File= BPH20161012AAD (2) Call= WLXA (3) Channel= 252 (4) Class= C3
(5) Service= FM (6) City= FLORENCE (7) State= AL
(8) Country= US (9) N Lat 34-45-24 (10) W Long 87-40-44
(11) herp= 25.0 (12) Max herp= (13) hhaat= 86.00 (18) h_rcamsl= 248.0
(14) verp= 25.0 (15) Max verp= (16) vhaat= 86.00 (19) v_rcamsl= 248.0
(17) Beam Tilt= N (26) h_rcagl= 92.0 (27) v_rcagl= 92.0
(20) Section 73.215=N (21) Internat. Class= (22) Dir Ant= N
(23) Make= (24) Model= (25) Rotate=

** General Comments:

One Step Application

* This is a class C3 station. *

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WLXA	BPH20161012AAD 252 C3 FM	Polarization	erp (kw)	haat	rcamsl	rcagl
FLORENCE	AL US	hor pln	bm tilt	(meter)	(meter)	(meter)
34.4524	87.4044 (D.MMSS) NAD 27	Horizontal	25.0	86.00	248.0	92.0
34.4524	87.4044 (D.MMSS) NAD 83	Vertical	25.0	86.00	248.0	92.0
Application ID: 1726678						
Facility ID: 53875						
ASRN: 1299445						

CDBS Site Elevation CDBS Overall Structure Height
156.00 m 106.00 m

ASRN not found in ASR. Using CDBS values for TOWAIR

TOWAIR Coordinates (NAD 83)	TOWAIR Coordinates (NAD 27)	TOWAIR Site Elevation	TOWAIR Overall Structure Height
34:45:24N 087:40:44W	34:45:24N 087:40:44W	156.00 m	106.00 m
TOWAIR results: Structure requires ASR registration. The antenna structure is taller than 60.96 meters (200 feet)			

DO NOT GRANT: Radiation Center Exceeds Overall Height!

The following contours are calculated using: Calculated haat from TOPO Data Base

erp= 25.000 (kW) 14.0 (dbk) haat= 86.0 (meters)

			Azimuth	haat (meters)		ERP(kw)	Actual contours (km)	
Interfering			Degrees	Horiz	Vert	Actual	70 dbu	60 dbu
Domestic								
dbu km			0.0	77.9	77.9	25.00	20.5	35.0
co-channel (40.0)			45.0	91.6	91.6	25.00	22.3	37.6
1st adjacent (54.0)			90.0	82.6	82.6	25.00	21.1	35.9
2nd adjacent (100.0)			135.0	82.4	82.4	25.00	21.1	35.9
3rd adjacent (100.0)			180.0	73.7	73.7	25.00	20.0	34.1
			225.0	84.2	84.2	25.00	21.3	36.2
Protected (60.0)			270.0	107.6	107.6	25.00	24.1	40.3
			315.0	87.7	87.7	25.00	21.8	36.9
City Grade (70.0)								
Service (60.0)			Average	86.0	86.0	25.0	21.6	36.6

Note: Contours on the above radials were calculated using the
max horiz or vert haat and the erp along the actual radial.
Directional antenna patterns are used if available.

* This is a class C3 station. *

* *
* Line-of-Sight Study *
*

Determination of Major Terrain Obstructions Between FM Antenna and City Reference Coordinates
City Reference Coordinates: N 34-47-59 W 087-40-38 FM Site to City: 4.8 km; 1.8 degrees

There are NO MAJOR Obstructions Along any Azimuth to the Reference City.

* *

Separation distances for Class A facilities are from the NEW Rules effective 10/02/89.

Azimuth from to	call	sts	file number	city	st c	lat (D.MMSS)	long	rel chn	erp horz	(kw) vert	haat (m)	d I-con F5010	P-con F5050	dist (km)	inte rsep (km)	prot rsep (km)	int r c
15.7 195.7	W250BY	LIC	BLFT20140307ACN	FLORENCE	AL US	34.4750	87.3954	2nd 250D	.250H	.25V	60.40	1.6	12.7	4.7	44.0	17.2	S S
231.5 51.2	W250CD	LIC	BLFT20160805AAN	RED BAY	AL US	34.2653	88.0852	2nd 250D	.250H	.25V		1.6	10.4	55.0	44.0	14.9	
130.9 311.1	WALWLP	LIC	BLL20170110AAK	MOULTON	AL US	34.2847	87.1730	2nd 250L1	.100H	.100V	30.00			47.0	40.		C
86.4 266.8	WQXDLP	LIC	BLL20180806AAQ	ATHENS	AL US	34.4726	86.5858	2nd 250L1	.100H	.100V	20.65			63.8	40.		
183.2 3.1	WTXT FA	USE		FAYETTE	AL US	33.1917	87.4629	1st 251C1		H V				159.4	144.		
** General Comments: (NODATE) FMENGCMNTS: Coordinates updated from LIC record BLH900119KA																	
176.2 356.3	WTXT	LIC	BXLH20051215ABM	FAYETTE	AL US	33.1030	87.3318	1st 251C1	.600H	.600V	71.00			175.8	144.		
** Auxiliary Transmitter of Full-Service FM Station **																	
183.2 3.1	WTXT	LIC	BLH20120823AAB	FAYETTE	AL US	33.1921	87.4626	1st 251C1	100.H	100.V	274.0			159.3	144.		
86.9 267.5	W251AC	LIC	BLFT20160311AAE	CAPSHAW	AL US	34.4753	86.3824	1st 251D	.180H	.18V		30.7	20.7	95.2	73.1	84.9	
341.8 161.3	WJLI FA	USE		METROPOLI	IL US	36.4509	88.2958	co 252C1		H V				233.5	211.		
** General Comments: (NODATE) FMENGCMNTS: Transmitter Site Located in Zone 2 in Kentucky																	
** Rules Comments: (NODATE) FMENGCMNTS: RSVD For WRIK Per One-Step Application																	
341.8 161.3	WJLI	LIC	BLH20030609ADV	METROPOLI	IL US	36.4509	88.2958	co 252C1	100.H	100.V	213.0			233.5	211.		
99.8 280.7	NEW FA	USE	RM10835	SCOTTSBOR	AL US	34.3040	86.0154	co 252C3		H V				153.5	153.		C
** General Comments: counterproposal in MB Doc. No. 03-77																	
98.3 279.3	WKEAFM	LIC	BLH20070306ABV	SCOTTSBOR	AL US	34.3200	85.5520	co 252C3	11.0H	11.0V	150.0D			163.0	153.		
** General Comments: Section 73.215 applicant																	
19.4 199.5	NEW FA	USE	RM11174	LORETTO	TN US	35.0047	87.3406	co 252C3		H V				30.2	153.		S
35.1 215.2	WLXA	LIC	BLH20160616ABX	LORETTO	TN US	34.5755	87.3000	co 252C3	17.5H	17.5V	119.0			28.3	153.		S
** General Comments: Section 73.215 applicant																	
27.6 208.1	W252CM	LIC	BLFT20140818ADX	NASHVILLE	TN US	36.0208	86.5055	co 252D	.250H	.25V		71.8	23.9	160.7	114.2	141.5	
116.9 297.3	WYZKLP	LIC	BLL20141128ACE	HARTSELLE	AL US	34.2634	86.5558	co 252L1	.033H	.033V	51.18			76.8	78.		S
0.0 0.0	WLXA	APP	BPH20161012AAD	FLORENCE	AL US	34.4524	87.4044	co 252C3	25.0H	25.0V	86.00			0.0	153.		S
** General Comments: One Step Application																	
1.8 181.8	WLXA FA	RSV		FLORENCE	AL US	34.4759	87.4038	co 252C3		H V				4.8	153.		S
** General Comments: One Step Application																	
150.2 330.7	W252BE	APP	BSTA20180718AAD	TARRANT	AL US	33.2902	86.4821	co 252D	.065H	.06V	305.0	56.9	17.5	162.5	99.3	135.1	
150.2 330.7	W252BE	LIC	BLFT20181016ABE	TARRANT	AL US	33.2902	86.4821	co 252D	.250H	.25V	212.0D	64.0	21.0	162.5	106.4	138.6	
244.6 63.8	WZLQ	LIC	BLH19960308KC	TUPELO	MS US	34.1005	89.0923	1st 253C1	100.H	100.V	299.0			150.6	144.		C
242.1 61.5	WZLQ FA	USE		TUPELO	MS US	34.1809	88.4221	1st 253C1		H V				106.9	144.		S
** Rules Comments: (NODATE) FMENGCMNTS: Allotment downgraded from Class C to C1 on 931129 by ca																	
** Rules Comments: ncellation of CP for																	
** Rules Comments: BPH-870302ND																	
107.3 287.7	WZDKLP	LIC	BLL20141229AEE	DECATUR	AL US	34.3434	86.5858	1st 253L1	.100H	.100V	14.28			66.9	67.		C
182.8 2.8	W254AA	LIC	BLFT19920803TA	COLBERT H	AL US	34.3854	87.4107	2nd 254D	.010H	.01V	162.0	0.2	8.2	12.0	42.6	12.7	S S
** General Comments: (NODATE) FMENGCMNTS: Translator For WKDF, Nashville, TN																	
** General Comments: Change primary to WZPC(FM), Shelbyville, TN per notice 8/16/01.																	

*** Warning ***

The free-space equation was used to find one or more of the above contour distances.

**** Normal termination FM Channel Study no. 1 **** 171 FM records were considered, of which 24 were printed above ****

AA	M	M		AA	M	M		AA	M	M		AA	M	M					
A	A	MM	MM	A	A	MM	MM	A	A	MM	MM	A	A	MM	MM				
A	A	M	MM	M	A	A	M	MM	M	A	A	M	MM	M	A	A	M	MM	M
AAAAAA	M	M		AAAAAA	M	M		AAAAAA	M	M		AAAAAA	M	M		AAAAAA	M	M	
A	A	M	M	A	A	M	M	A	A	M	M	A	A	M	M	A	A	M	M

FM Reference Data:

WLXA		BPH20161012AAD 252 C3 FM FLORENCE										AL US 34.4524 87.4044					
Distance (Miles) (Km)		Call	Location		St	Ct	Power	Freq (khz)	Stat	Ant	Hrs	Coordinates		File No.	Azimuth From To		
0.38	0.61	WLAY	MUSCLE SHOALS		AL	US	1.00000	1450	Lic	ND1	Day	34-45-23N	87-41-08W	BL20050307ADW	267.1	87.1	
0.38	0.61	WLAY	MUSCLE SHOALS		AL	US	1.00000	1450	Lic	ND1	Nit	34-45-23N	87-41-08W	BL20050307ADW	267.1	87.1	
0.41	0.66	WVNA	TUSCUMBIA		AL	US	5.00000	1590	Lic	DAN	Day	34-45-24N	87-41-10W	BL10486	270.0	90.0	
0.41	0.66	WVNA	TUSCUMBIA		AL	US	1.00000	1590	Lic	DAN	Nit	34-45-24N	87-41-10W	BL10486	270.0	90.0	
1.30	2.09	WBTG	SHEFFIELD		AL	US	1.00000	1290	Lic	ND1	Day	34-46-27N	87-40-14W	BL10493	21.4	201.4	
1.30	2.09	WBTG	SHEFFIELD		AL	US	0.07900	1290	Lic	ND1	Nit	34-46-27N	87-40-14W	BL10493	21.4	201.4	

There were 6 AM stations within 3.22 km of the FM reference coordinates.

*
* 13:18:41 FM ANSI Radiation Study for: 20161012AAD 30-SEP-22 *
*
* Site Location: N Lat 34-45-24 W Lon 087-40-44 *
*
* RCAMSL: 248.00 RCAGL: 92.00 *
*
* NOTE: 2 meters was subtracted from the RCAGL value to do the calculations. *

Call	Serv	Stat	Channel	ARN	City	St	HERP (kw)	VERP (kw)	Dist (m)	Height (m)	RF%	
											Occup	Public
W278CH	FX	LIC	278D	BLFT20170321AAZ	MUSCLE SHOALS	AL	0.250	0.250	39.97	102.0	0.14	0.70
WLXA	FM	Study	252C3	BPH20161012AAD	FLORENCE	AL	25.000	25.000	0.00	90.0	20.62	103.12
											=====	=====
											20.76	103.81
S E E E N G I N E E R - RF LEVEL 103.81% OF THE RECOMMENDED ANSI RF RADIATION LIMIT FOR GENERAL PUBLIC EXPOSURE ! ! !												

CHECK FMSTUDY - IF AM WITHIN 0.3 KILOMETERS, S E E E N G I N E E R !
Designates record with insufficient engineering data to calculate RF contributions.
FM ANSI Study Completed.

FFFFFF	M	M	FFFFFF	M	M	FFFFFF	M	M	FFFFFF	M	M	FFFFFF	M	M	
F	MM	MM	F	MM	MM	F	MM	MM	F	MM	MM	F	MM	MM	
FFFFF	M	MM	M	FFFFF	M	MM	M	FFFFF	M	MM	M	FFFFF	M	MM	M
F	M	M	F	M	M	M	F	M	M	M	F	M	M	M	
F	M	M	F	M	M	M	F	M	M	M	F	M	M	M	

FM Reference Data:

WLXA	BPH20161012AAD			252C3	FM	FLORENCE	AL	US	34.4524	87.4044		
Dist (km)	Azimuth From To		Call	Chan	Status	Location		St Ct	Latitude	Longitude	Da	File Number
0.00	0.0	0.0	WLXA	252C3	FM APP	FLORENCE		AL US	34-45-24N	87-40-44W	No	BPH20161012AAD
** General Comments: One Step Application												
0.04	140.6	320.6	W278CH	278D	FX LIC	MUSCLE SHOALS		AL US	34-45-23N	87-40-43W	Yes	BLFT20170321AAZ

There were 2 FM locations within 0.1 km of the FM reference coordinates.

*** FM Study normal termination on 30-SEP-22 AT 13:18:42