

**Engineering Statement  
In Support of an  
Application for a Construction Permit  
WGZZ(FM), Channel 232A, Waverly, AL**

**WGZZ(FM) Channel Spacing Study**

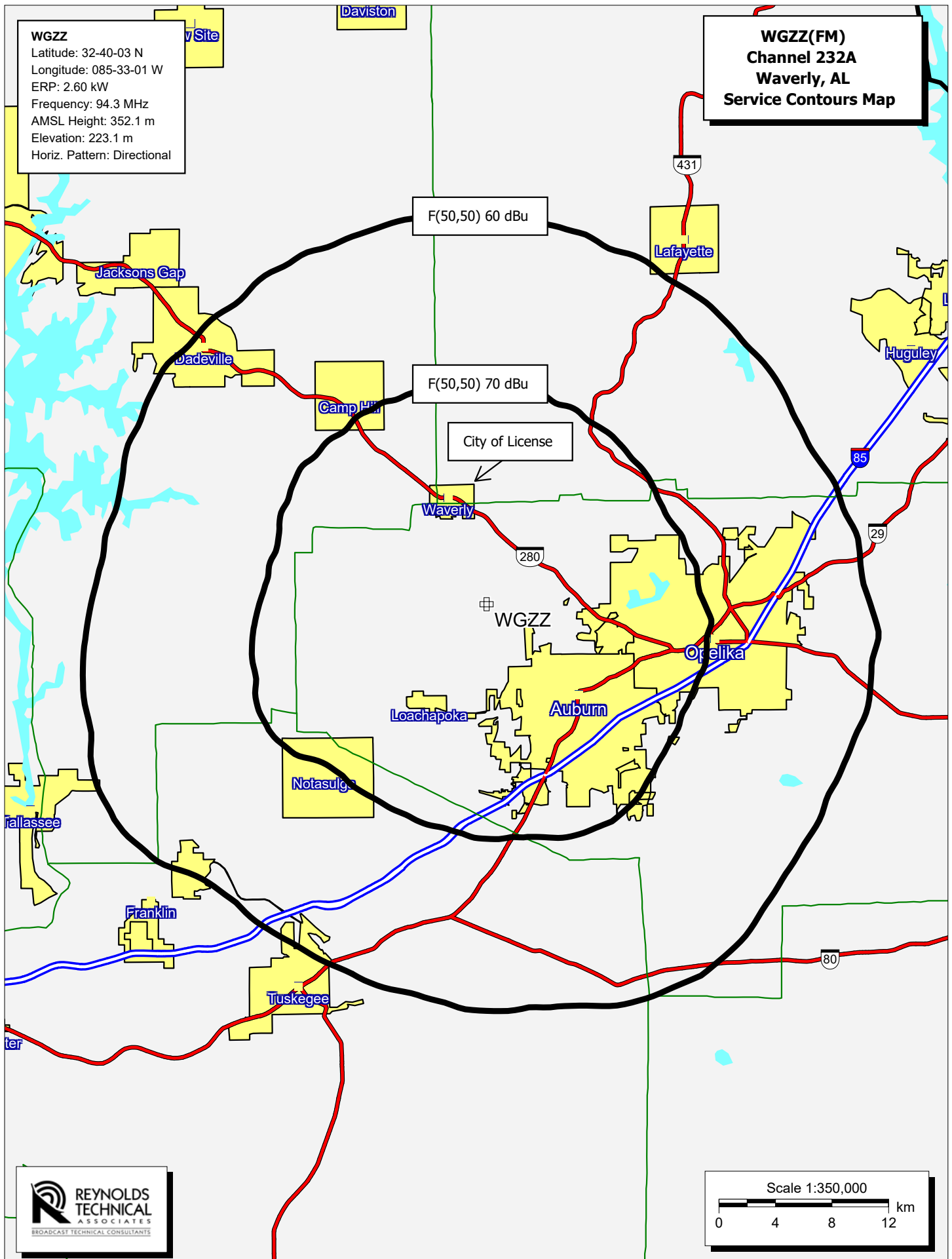
REFERENCE		DISPLAY DATES
32 40 03.0 N.	CLASS = A	DATA 07-19-17
85 33 01.0 W.	Current Spacings to 3rd Adj.	SEARCH 07-19-17
----- Channel 232 - 94.3 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WGZZ	LIC-N 232A	Waverly	AL	32.4	9.0	114.5	-105.5
Of no concern: Licensed facility of WGZZ.							
WIZB	LIC-Z 232C3	Abbeville	AL	169.7	138.5	141.5	-3.0
Of concern: Protection afforded via §73.215.							
WJOX-FM	LIC-N 233C0	Birmingham	AL	306.5	150.0	151.5	-1.5
Of concern: Protection afforded via §73.215.							
WTGZ	LIC 230C3	Union Springs	AL	196.3	40.4	41.5	-1.1
Of concern: Protection afforded via §73.215.							
WSTR	CP 231C0	Smyrna	GA	42.4	163.1	151.5	11.6
WSTR	LIC 231C0	Smyrna	GA	42.6	165.8	151.5	14.3
WQZX	LIC 232A	Greenville	AL	230.0	130.0	114.5	15.5
WFDR-FM	LIC 233A	Woodbury	GA	77.0	89.0	71.5	17.5
WLEL	LIC-N 232A	Ellaville	GA	110.1	132.3	114.5	17.8
WFXE	LIC 285A	Columbus	GA	115.6	51.5	9.5	42.0

**WGZZ**

Latitude: 32-40-03 N  
Longitude: 085-33-01 W  
ERP: 2.60 kW  
Frequency: 94.3 MHz  
AMSL Height: 352.1 m  
Elevation: 223.1 m  
Horiz. Pattern: Directional

**WGZZ(FM)  
Channel 232A  
Waverly, AL  
Service Contours Map**



**WGZZ(FM), Channel 232A, Waverly, AL  
WIZB(FM), Channel 232C3, Abbeville, AL  
Protected and Interfering Contours Map**

F(50,50) 60 dBu

WGZZ

**WGZZ**

Latitude: 32-40-03 N  
Longitude: 085-33-01 W  
ERP: 2.60 kW  
Frequency: 94.3 MHz  
AMSL Height: 352.1 m  
Elevation: 223.1 m  
Horiz. Pattern: Directional

**WIZB**

BMLED20100412ABG  
Latitude: 31-26-19 N  
Longitude: 085-17-22 W  
ERP: 19.50 kW  
Frequency: 94.3 MHz  
AMSL Height: 211.0 m  
HAAT: 113.0 m  
Horiz. Pattern: Directional

F(50,10) 40 dBu

F(50,10) 40 dBu

F(50,50) 60 dBu

WIZB

Scale 1:800,000

0 10 20 30 km

**WGZZ(FM), Channel 232A, Waverly, AL  
WJOX-FM, Channel 233C0, Birmingham, AL  
Protected and Interfering Contours Map**

**WGZZ**

Latitude: 32-40-03 N  
Longitude: 085-33-01 W  
ERP: 2.60 kW  
Frequency: 94.3 MHz  
AMSL Height: 352.1 m  
Elevation: 223.1 m  
Horiz. Pattern: Directional

**WJOX-FM**

BLH20000929AEE  
Latitude: 33-27-45 N  
Longitude: 086-50-59 W  
ERP: 100.00 kW  
Channel: 233  
Frequency: 94.5 MHz  
AMSL Height: 491.0 m  
Horiz. Pattern: Omni

WJOX-FM

F(50,50) 60 dBu

F(50,10) 54 dBu

F(50,10) 54 dBu

F(50,50) 60 dBu

WGZZ

**WGZZ(FM), Channel 232A, Waverly, AL**  
**WTGZ(FM), Channel 230C3, Union Springs, AL**  
**Protected and Interfering Contours Map**

**WGZZ**  
Latitude: 32-40-03 N  
Longitude: 085-33-01 W  
ERP: 2.60 kW  
Frequency: 94.3 MHz  
AMSL Height: 352.1 m  
Elevation: 223.1 m  
Horiz. Pattern: Directional

**WTGZ (maximum C3)**  
Latitude: 32-19-04 N  
Longitude: 085-40-16 W  
ERP: 25.00 kW  
Frequency: 93.9 MHz  
AMSL Height: 193.0 m  
HAAT: 100 m  
Horiz. Pattern: Omni

F(50,10) 100 dBu

F(50,50) 60 dBu

WGZZ

F(50,50) 60 dBu

F(50,10) 100 dBu

WTGZ

Scale 1:200,000

0 2 4 6 km



**WGZZ(FM), Channel 232A, Waverly, AL  
WTGZ(FM), Channel 230C3, Union Springs, AL  
Protected and Interfering Contours Map  
(Zoomed View)**

**WGZZ**

Latitude: 32-40-03 N  
Longitude: 085-33-01 W  
ERP: 2.60 kW  
Frequency: 94.3 MHz  
AMSL Height: 352.1 m  
Elevation: 223.1 m  
Horiz. Pattern: Directional

**WTGZ (maximum C3)**

Latitude: 32-19-04 N  
Longitude: 085-40-16 W  
ERP: 25.00 kW  
Frequency: 93.9 MHz  
AMSL Height: 193.0 m  
HAAT: 100 m  
Horiz. Pattern: Omni

WGZZ(FM)  
F(50,10) 100 dBu

WTGZ(FM)  
F(50,50) 60 dBu

Scale 1:1,000

0 0.03 0.07 0.1 km