

**Technical Exhibit**

**Minor Modification of Licensed Facility Application**

This application complies with all engineering standards and assignment requirements specified in the applicable FCC rules and regulations. An increase in the ERP is specified as is indicated below:

	Licensed	Mod of Licensed Facility
Channel / Class	256C3	256C2
Geographical Coordinates	32 52 40.4	32 52 40.4
NAD 83	87 36 53.0	87 36 53.0
ASRN	1228025	1228025
Site elevation	128.0 meters	128.0 meters
Tower AGL	153.3 meters	153.3 meters
Antenna COR AGL	146.3 meters	146.3 meters
Antenna COR AMSL	274.3 meters	274.3 meters
HAAT	197.3 meters	202.6 meters
ERP	6.4 kW (H&V, non-DA)	11.0 kW (H&V, non-DA)

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**Tabulation of HAAT / ERP / distance to 60 & 70 dBu contours**

CH 256C2    32 52 40.4 / 87 36 53.0    11.0 kW ERP (H&V, non-da)    274.3 m COR AMSL    202.6 m HAAT

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	70-F5
000	63.9	210.4	11.0000	10.41	1.000	44.65	26.88
010	84.8	189.5	11.0000	10.41	1.000	43.03	25.61
020	99.0	175.3	11.0000	10.41	1.000	41.84	24.77
030	100.4	173.9	11.0000	10.41	1.000	41.70	24.68
040	102.2	172.1	11.0000	10.41	1.000	41.52	24.57
045	107.0	167.3	11.0000	10.41	1.000	41.02	24.26
050	111.2	163.1	11.0000	10.41	1.000	40.57	23.98
060	108.1	166.2	11.0000	10.41	1.000	40.91	24.19
070	105.0	169.3	11.0000	10.41	1.000	41.23	24.39
080	98.7	175.6	11.0000	10.41	1.000	41.86	24.78
090	87.9	186.4	11.0000	10.41	1.000	42.78	25.42
100	85.2	189.1	11.0000	10.41	1.000	43.00	25.58
110	92.7	181.6	11.0000	10.41	1.000	42.40	25.15
120	89.8	184.5	11.0000	10.41	1.000	42.63	25.31
130	91.9	182.4	11.0000	10.41	1.000	42.46	25.19
135	88.6	185.7	11.0000	10.41	1.000	42.73	25.38
140	86.1	188.2	11.0000	10.41	1.000	42.93	25.53
150	79.2	195.1	11.0000	10.41	1.000	43.47	25.94
160	73.7	200.6	11.0000	10.41	1.000	43.90	26.28
170	73.7	200.6	11.0000	10.41	1.000	43.90	26.27
180	71.6	202.7	11.0000	10.41	1.000	44.06	26.41
190	65.6	208.7	11.0000	10.41	1.000	44.52	26.78
200	61.2	213.1	11.0000	10.41	1.000	44.85	27.05
210	60.6	213.7	11.0000	10.41	1.000	44.90	27.09
220	65.8	208.5	11.0000	10.41	1.000	44.50	26.76
225	68.5	205.8	11.0000	10.41	1.000	44.30	26.60
230	64.2	210.1	11.0000	10.41	1.000	44.63	26.86
240	55.5	218.8	11.0000	10.41	1.000	45.27	27.40
250	56.0	218.3	11.0000	10.41	1.000	45.24	27.37
260	49.3	225.0	11.0000	10.41	1.000	45.73	27.79
270	39.8	234.5	11.0000	10.41	1.000	46.41	28.36
280	42.9	231.4	11.0000	10.41	1.000	46.19	28.17
290	47.1	227.2	11.0000	10.41	1.000	45.89	27.92
300	47.0	227.3	11.0000	10.41	1.000	45.89	27.92
310	42.4	231.9	11.0000	10.41	1.000	46.23	28.21
315	46.1	228.2	11.0000	10.41	1.000	45.96	27.98
320	50.7	223.6	11.0000	10.41	1.000	45.62	27.70
330	49.9	224.4	11.0000	10.41	1.000	45.68	27.75
340	48.3	226.0	11.0000	10.41	1.000	45.80	27.84
350	51.9	222.4	11.0000	10.41	1.000	45.54	27.63

FCC 30 second Terrain Data  
 (yellow highlighted values establish average HAAT)

## Community of License Coverage Compliance with Section 73.315

**WLXQ PROPOSED**  
 BMLED20160510ABD  
 Latitude: 32-52-40.40 N  
 Longitude: 087-36-53 W  
 ERP: 11.00 kW  
 Channel: 256  
 Frequency: 99.1 MHz  
 AMSL Height: 274.3 m  
 Elevation: 128.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No

**WLXQ proposed 60 dBu contour**

**WLXQ proposed 70 dBu contour**

**WLXQ**

Scale 1:500,000

0 7 14 21 km

**Technical Exhibit**

**Allocation Study**

CH 256C2    32 52 40.4 / 87 36 53.0    11.0 kW ERP (H&V, non-da)    274.3 m COR AMSL    202.6 m HAAT

Call	Channel	Location		Azi	Dist	FCC	Margin
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**Reference station:**

WLXQ	LIC	256C3	Greensboro	AL	0.0	0.00	
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**Co-channel, first, second third adjacent:**

WINL	LIC	253C1	Linden	AL	187.6	84.27	78.5	5.8
WBHK	LIC-N	254C1	Warrior	AL	47.9	101.00	78.5	22.5
AL4374	RSV-A	254C1	Warrior	AL	37.7	121.73	78.5	43.2
WAJV	LIC-Z	255C3	Brooksville	MS	300.4	122.74	116.5	6.2
WBAM-FM	LIC	255C1	Montgomery	AL	126.6	167.15	157.5	9.7
WLYJ	LIC-N	255C3	Quitman	MS	229.3	137.90	116.5	21.4
WAHR	LIC	256C0	Huntsville	AL	22.6	231.30	238.5	-7.2
Proposed contour protection pursuant to Section 73.215 (see pages 5 & 6 of this exhibit)								

WKNN-FM	LIC-D	256C1	Pascagoula	MS	201.7	284.97	223.5	61.5
WYMX	LIC	256C0	Greenwood	MS	287.6	268.78	238.5	30.3
WMFC	LIC	257C2	Monroeville	AL	168.8	154.11	129.5	24.6
WTUP-FM	LIC	257C3	Guntown	MS	331.6	187.98	116.5	71.5
WLAU	LIC	257C2	Heidelberg	MS	234.0	198.00	129.5	68.5
WZRR	LIC-N	258C0	Birmingham	AL	47.4	96.42	88.5	7.9

**I.F.:**

WKUA	LIC-D	203A	Moundville	AL	339.2	22.42	14.5	7.9
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All separation margins include rounding  
 FCC 30 second terrain data

Technical Exhibit

**Section 73.215 Compliance**

The proposed minor modification of license application specifies a change from Class C3 to Class C2 with an increase in the ERP at the licensed site. WLXQ as proposed meets all minimum distance separation requirements with regard to co-channel, first, second, and third adjacent channel and I.F. channel authorizations with the exception of WAHR, CH 256C0, Huntsville, AL. The separation distance between WLXQ and WAHR is 231.3 km, 7.2 km short of the required separation. WLXQ meets the 73.215(e) minimum distance separation requirement for contour protection for C2 to C0 facilities of 227.0 km. WAHR is not licensed pursuant to Section 73.215 therefore is protected with full Class C0 ERP and HAAT. As is demonstrated below, there will be no prohibited contour overlap between WLXQ and WAHR.

WLXQ PROPOSED  
Channel 256C2  
11.0 kW max. ERP  
274.3 m COR AMSL  
32 52 40.4 / 87 36 53.0

WAHR LIC  
Channel 256C0  
100 kW max. ERP  
688 m COR AMSL (Max Class parameters)  
34 47 53.2 / 86 38 22.0

60 dBu protected contour

40 dBu interference contour

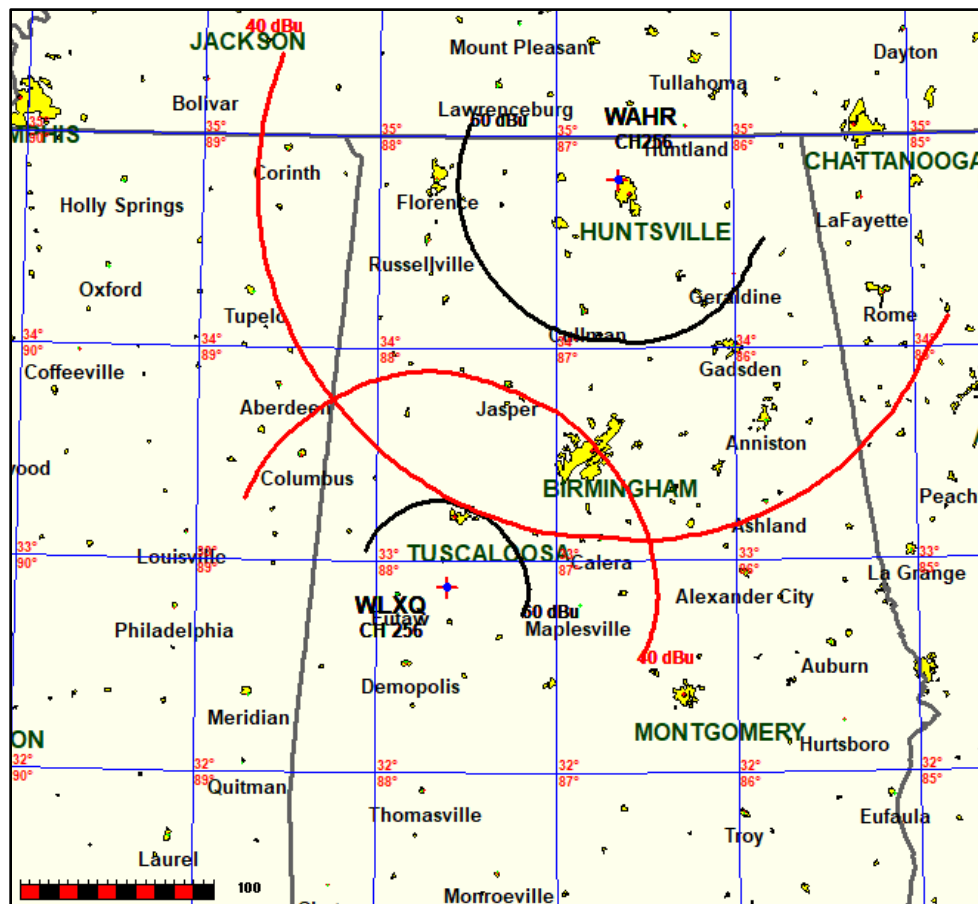
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
005.0	011.0000	0199.1	043.8	207.1	100.0000	0478.4	190.2	39.82
006.0	011.0000	0196.8	043.6	206.9	100.0000	0478.4	190.0	39.84
007.0	011.0000	0194.3	043.4	206.7	100.0000	0478.5	190.0	39.85
008.0	011.0000	0192.2	043.2	206.4	100.0000	0478.5	189.9	39.87
009.0	011.0000	0190.5	043.1	206.2	100.0000	0478.5	189.8	39.89
010.0	011.0000	0189.3	043.0	206.0	100.0000	0478.5	189.7	39.91
011.0	011.0000	0188.1	042.9	205.7	100.0000	0478.5	189.6	39.93
012.0	011.0000	0186.1	042.8	205.5	100.0000	0478.5	189.5	39.93
013.0	011.0000	0183.9	042.6	205.3	100.0000	0478.5	189.5	39.93
014.0	011.0000	0182.1	042.4	205.0	100.0000	0478.5	189.5	39.93
015.0	011.0000	0181.0	042.3	204.8	100.0000	0478.5	189.5	39.94
016.0	011.0000	0179.8	042.2	204.6	100.0000	0478.4	189.5	39.94
017.0	011.0000	0178.3	042.1	204.4	100.0000	0478.4	189.5	39.93
018.0	011.0000	0176.5	041.9	204.1	100.0000	0478.3	189.6	39.92
019.0	011.0000	0175.6	041.9	203.9	100.0000	0478.2	189.6	39.91
020.0	011.0000	0175.4	041.8	203.7	100.0000	0478.1	189.6	39.92
021.0	011.0000	0175.1	041.8	203.5	100.0000	0478.0	189.6	39.92
022.0	011.0000	0173.7	041.7	203.3	100.0000	0477.9	189.7	39.89
023.0	011.0000	0171.7	041.5	203.0	100.0000	0477.8	189.9	39.86
024.0	011.0000	0170.4	041.3	202.8	100.0000	0477.7	190.0	39.83
025.0	011.0000	0170.7	041.4	202.6	100.0000	0477.6	190.0	39.83
026.0	011.0000	0171.6	041.5	202.4	100.0000	0477.5	190.0	39.84
027.0	011.0000	0171.9	041.5	202.2	100.0000	0477.4	190.0	39.83
028.0	011.0000	0172.2	041.5	202.0	100.0000	0477.3	190.1	39.82
029.0	011.0000	0172.9	041.6	201.7	100.0000	0477.2	190.1	39.82
030.0	011.0000	0173.8	041.7	201.5	100.0000	0477.1	190.1	39.81

Technical Exhibit

**Section 73.215 Compliance**

WLXQ PROPOSED	WAHR LIC
Channel 256C2	Channel 256C0
11.0 kW max. ERP	100 kW max. ERP
274.3 m COR AMSL	688 m COR AMSL (Max Class parameters)
32 52 40.4 / 87 36 53.0	34 47 53.2 / 86 38 22.0

60 dBu protected contours and 40 dBu interference contours



**Technical Exhibit**

**Theoretical Allotment Site (RSV Assignment)**

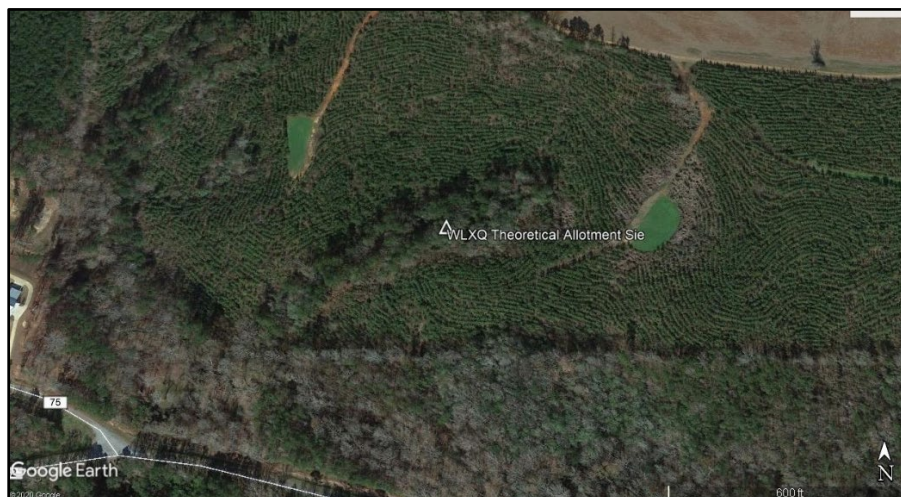
This minor modification of license application specifies an upgrade from Class C3 to Class C2. A theoretical allotment site (RSV assignment location) has been identified that is fully spaced as a Class C2 to other broadcast facilities and will provide 60 dbu contour and 70 dbu contour coverage over the community of license of Greensboro, AL.

REFERENCE  
32 49 56.0 N. CLASS = C2 25.0 kW ERP  
87 41 12.0 W. Current Spacings to 3rd Adj. 181.0 m COR AMSL  
----- Channel 256 - 99.1 MHz -----

Call	Channel	Location		Azi	Dist	FCC	Margin
WKUA	LIC-D 203A	Moundville	AL	357.2	26.04	14.5	11.5
WINL	LIC 253C1	Linden	AL	183.2	78.59	78.5	0.09
AL4374	RSV-A 254C1	Warrior	AL	38.7	129.88	78.5	51.4
WBHK	LIC-N 254C1	Warrior	AL	48.2	109.40	78.5	30.9
WAJV	LIC-Z 255C3	Brooksville	MS	304.1	119.73	116.5	3.2
WLYJ	LIC-N 255C3	Quitman	MS	229.0	129.49	116.5	13.0
WBAM-FM	LIC 255C1	Montgomery	AL	123.8	169.76	157.5	12.3
WAHR	LIC 256C0	Huntsville	AL	23.6	238.61	238.5	0.11
WYMX	LIC 256C0	Greenwood	MS	289.0	263.97	238.5	25.5
WKNN-FM	LIC-D 256C1	Pascagoula	MS	200.7	277.81	223.5	54.3
WLAU	LIC 257C2	Heidelberg	MS	234.1	189.57	129.5	60.1
WTUP-FM	LIC 257C3	Guntown	MS	334.0	189.39	116.5	72.9
WMFC	LIC 257C2	Monroeville	AL	165.9	150.65	129.5	21.2
WZRR	LIC-N 258C0	Birmingham	AL	47.8	104.81	88.5	16.3

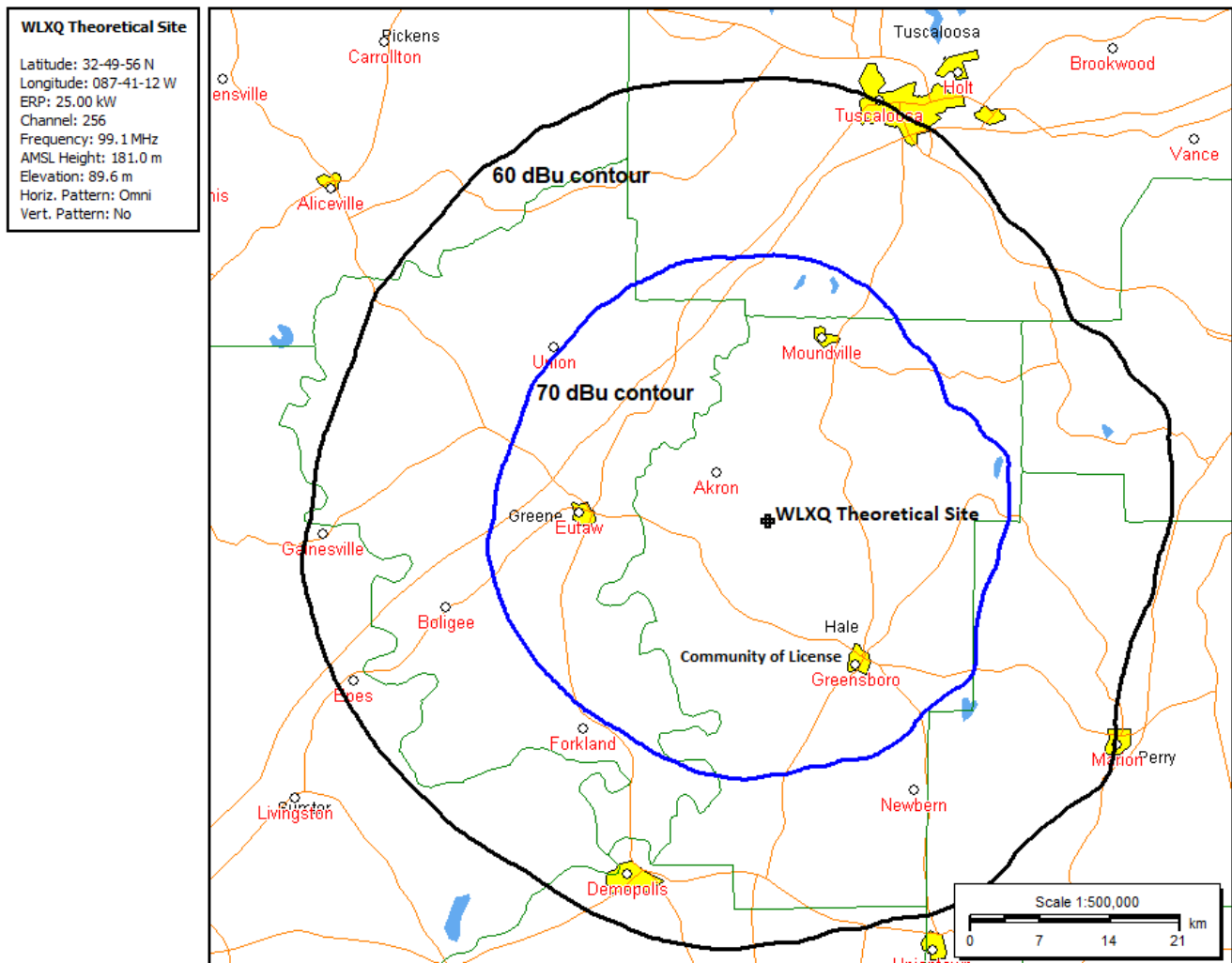
All separation margins include rounding

**Theoretical Allotment Site Map**



Technical Exhibit

**Theoretical Allotment Site 60 dBu contour and 70 dBu contour map**



**Technical Exhibit**

**Environmental Impact & RFR Compliance Statement**

WLXQ is located at an established communications site that is in compliance with all environmental impact requirements.

WLXQ will operate with 11.0 kW ERP (H&V, non-da) at an antenna COR AGL height of 146.3 meters. There are no other broadcast facilities at the site. For a worse case estimation at two meters above ground level the RFR is 17.7% of the general public/uncontrolled MPE limit, therefore WLXQ as proposed will be in full compliance with all RFR emission requirements.

RFR hazard warning signs are posted at the site. The applicant certifies that in cooperation with other users of the site all authorized personnel will be protected from RFR exposure in excess of FCC guidelines while accessing any controlled exposure area, including the tower, by either reducing power or ceasing operations.