

**ENGINEERING STATEMENT
APPLICATION FOR MINOR MODIFICATION OF CONSTRUCTION PERMIT
BLUE CHIP BROADCASTING LICENSES II, LTD.
FM BROADCAST STATION WLRS
SHEPHERDSVILLE, KY
CHANNEL 286A
FACILITY ID 51074**

This statement is prepared by Blue Chip Broadcasting Licenses II, LTD (Blue Chip), licensee of FM Station WLRS, Shepherdsville, KY. WLRS is presently licensed to 105.1 MHz, channel 286A with an effective radiated power (ERP) of 2.2 KW, with antenna height above average terrain (HAAT) of 136 meters, FCC file BLH-20030108ABE.

On July 6, 2007 Blue Chip was granted construction permit BPH-20070119AEW to relocate the WLRS antenna to a new location. When the original construction permit application was submitted, Blue Chip had reasonable assurance the site was available. Further structural analysis determined the tower was not a suitable site. An existing tower 1.46 Kilometers from the construction permit site was determined to be suitable, and this application proposes to modify construction permit BPH-20070119AEW to specify the new location.

The new proposed location is an existing tower, Antenna Structure Registration Number 1023251, which describes the location at these geographical coordinates:

38° 04' 55" North Latitude (NAD 27)

85° 47' 06" West Longitude (NAD 27)

The proposed facility is a directional antenna mounted at a center of radiation 180 meters HAAT, 84 meters above ground level, and 342 meters above mean sea level (AMSL). Site elevation is 258.2 meters AMSL. Overall existing tower height is 89.6 meters above ground level and 347.8 meters AMSL. Maximum ERP is 1.9 Kilowatts. Antenna HAAT was calculated with the FCC Audio Division HAAT calculator using 360 evenly spaced radials. Antenna ERP was calculated with the FCC Audio Division FM Power program.

The Community of License, Shepherdsville, KY receives 70 dBu or greater signal in compliance with Section 73.313, as shown in Figure 1. The US 2000 Census city boundaries database was used to define the city limits.

The main studio location is 520 S. Fourth Ave in Louisville, KY. This location is 18.2 miles from the reference coordinates for the community of license and in compliance with Section 73.1125.

A Section 73.207 spacing study is shown as Figure 2. The proposed antenna location is fully spaced under Section 73.207 except with respect to the following stations:

1. WUBE-FM, Facility ID 10140, Channel 286B, Cincinnati, OH
2. WMPI, Facility ID 14957, Channel 287A, Scottsburg, IN

Processing under Section 73.215 is requested towards stations WUBE-FM and WMPI.

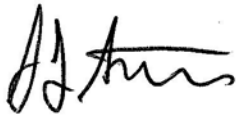
In accordance with Section 73.215 contour protection is provided to WUBE-FM and WMPI, and shown in Figures 3 and 4. Contours shown for WUBE-FM and WMPI are maximum facilities for their licensed class. Contour protection is provided by a directional antenna, and the tabulated antenna azimuth pattern is shown in Figure 5.

The 115 dBu “blanketing” contour extends approximately .55 Kilometers from the transmitter site. The 2000 US Census database shows a population of zero within the 115 dBu contour. Blue Chip recognizes its responsibility to resolve complaints of interference in accordance with Sections 73.315(b), 73.316(e) and 73.318. There are no licensed AM broadcast stations within 3.2 Kilometers of the proposed site.

The proposed operation will not have a significant environmental impact, as defined in Section 1.1307(b). The antenna will be placed on an existing structure, and access to the structure is controlled. Radiofrequency electromagnetic field (RF) exposure was examined with Form 301 instructions worksheet # 3 and the proposed facility does not warrant further concern.

FCC Office of Engineering and Technology FM Model program was employed to predict RF power density in the area near the tower. A conservative one bay antenna of the ERI/Jampro "Rototiller" type was used for the study. At a height 2 meters above ground level maximum RF power density was predicted to be $4.2 \mu\text{W}/\text{cm}^2$. This is 2.1 percent of the limit value for general population/uncontrolled exposure.

All areas of occupational/controlled RF exposure risk from the antenna are located on the tower. Access to the tower is controlled and workers on the tower can exercise control over their occupational RF exposure. Blue Chip recognizes its responsibility under Section 1.1307, and RF power will be reduced or turned off as necessary to protect persons having access to the site, tower or antenna from RF fields in excess of FCC guidelines.



Greg Strickland

Blue Chip Broadcasting Licenses II, LTD

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September 5, 2007

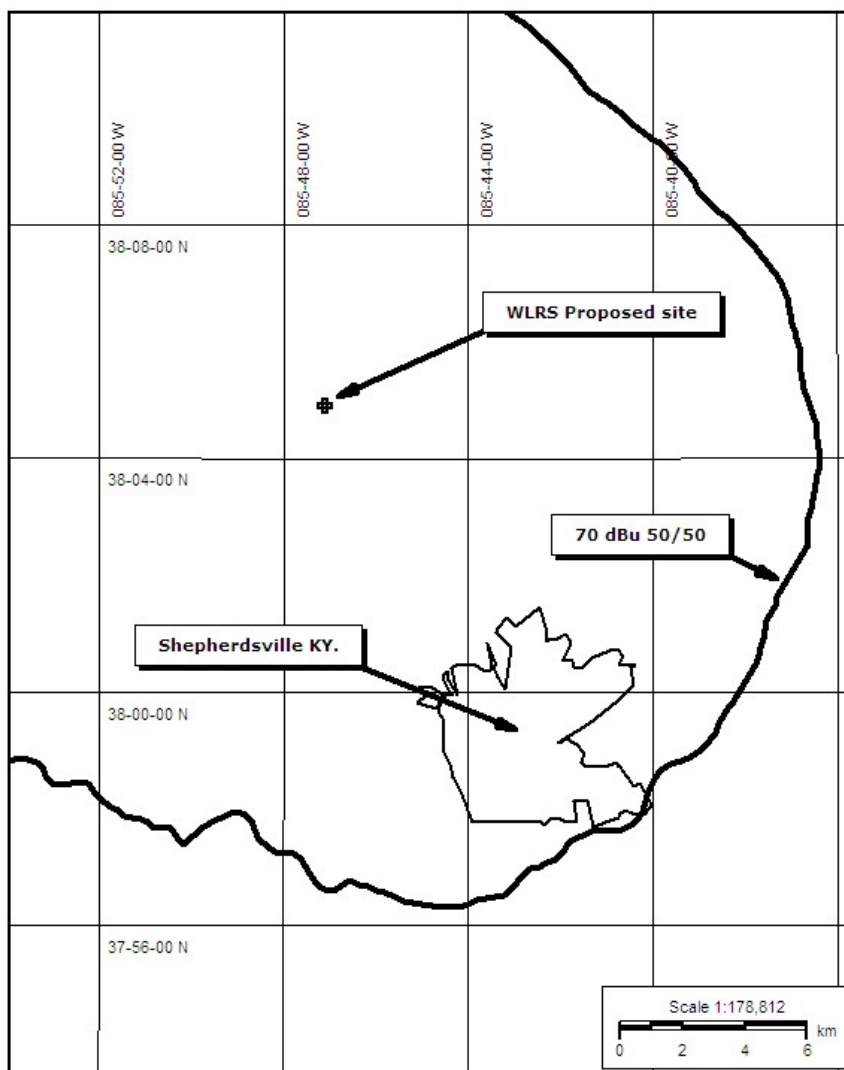


Figure 1
Community of License 70 dBu coverage

FM station WLRs
Shepherdsville, KY
Facility ID 51074
Channel 286A

WLRs Proposed site 73.207 spacing study					DISPLAY DATES			
REFERENCE		CLASS = A			DATA 08-30-07			
38 04 55.0 N.		Current Spacings			SEARCH 09-03-07			
85 47 06.0 W.		Channel 286 - 105.1 MHz						

Call	Channel		Location		Azi	Dist	FCC	Margin

WLRs	CP -Z	286A	Shepherdsville	KY	113.7	1.46	115.0	-113.54
WLRs	LIC-N	286A	Shepherdsville	KY	158.0	4.02	115.0	-110.98
WUBE-FM	LIC	286B	Cincinnati	OH	43.5	161.11	178.0	-16.89
WMPI	LIC	287A	Scottsburg	IN	6.9	70.48	72.0	-1.52
WLVK	LIC	288A	Fort Knox	KY	198.3	35.02	31.0	4.02
WRNZ	LIC	286A	Lancaster	KY	116.3	119.16	115.0	4.16
WKHG	LIC	285A	Leitchfield	KY	215.0	77.28	72.0	5.28
WKYW	LIC	285A	Frankfort	KY	78.2	77.80	72.0	5.80
WTUV-FM	LIC	289A	Eminence	KY	59.9	60.45	31.0	29.45
WHCC	LIC	286A	Ellettsville	IN	327.6	146.57	115.0	31.57
WULF	LIC-N	232C2	Hardinsburg	KY	241.2	48.41	15.0	33.41
WOVO	APP-Z	287C3	Glasgow	KY	193.0	125.42	89.0	36.42
WITZ-FM	LIC	284B	Jasper	IN	286.8	105.49	69.0	36.49
WOVO	LIC-N	287C3	Glasgow	KY	177.5	129.75	89.0	40.75
WJLT	LIC	287B	Evansville	IN	270.5	160.12	113.0	47.12
WINN	LIC	285A	Columbus	IN	353.0	123.48	72.0	51.48
WJRS	LIC	285A	Jamestown	KY	151.7	133.08	72.0	61.08
WGRK-FM	CP -Z	289A	Greensburg	KY	165.4	94.32	31.0	63.32
RADD	ADD	289A	Greensburg	KY	165.4	94.32	31.0	63.32
AL9738	RSV	289A	Cannelton	IN	251.4	95.73	31.0	64.73
RADD	ADD	289A	Greenburg	KY	163.3	98.04	31.0	67.04
WTCJ-FM	LIC	289A	Cannelton	IN	251.5	98.82	31.0	67.82
WLKT	LIC-N	283C2	Lexington-fayette	KY	90.2	129.23	55.0	74.23

Figure 2
73.207 Spacing study
FM Station WLRs
Shepherdsville, KY
Channel 286A
Facility ID 51074

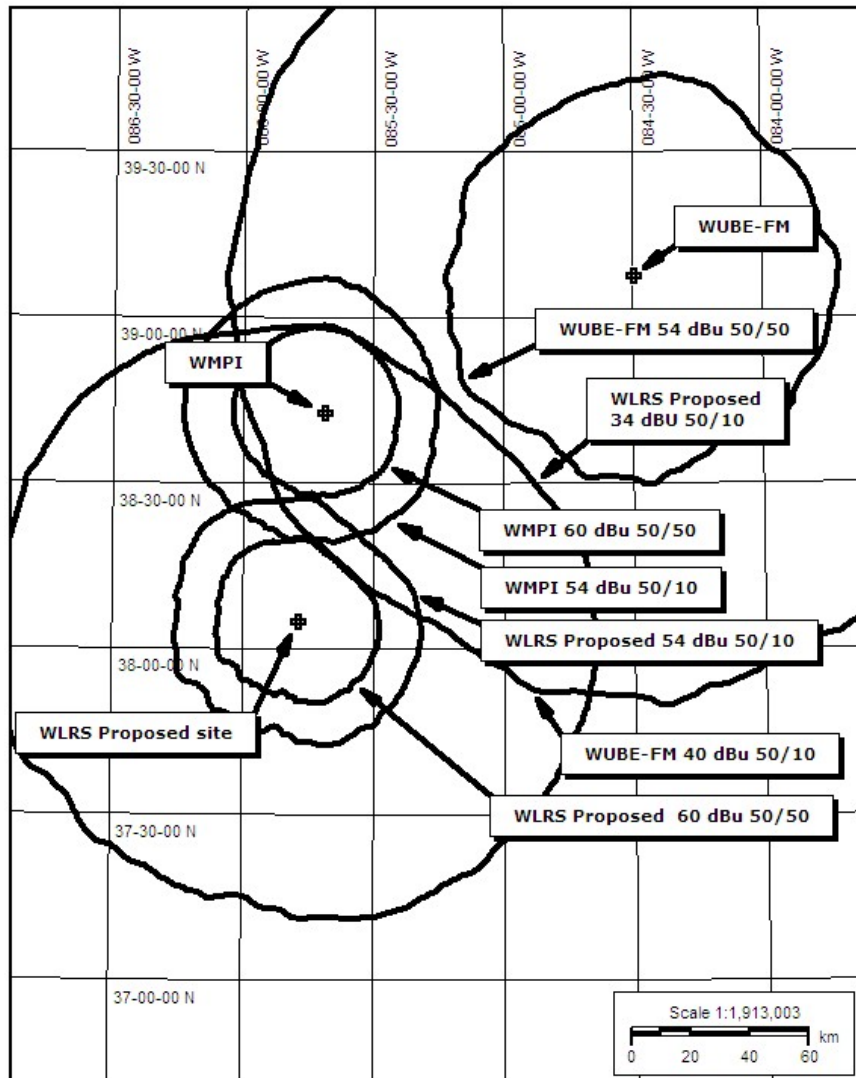


Figure 3
Section 73.215 contour protection

FM station WLRs
Shepherdsville, KY
Facility ID 51074
Channel 286A

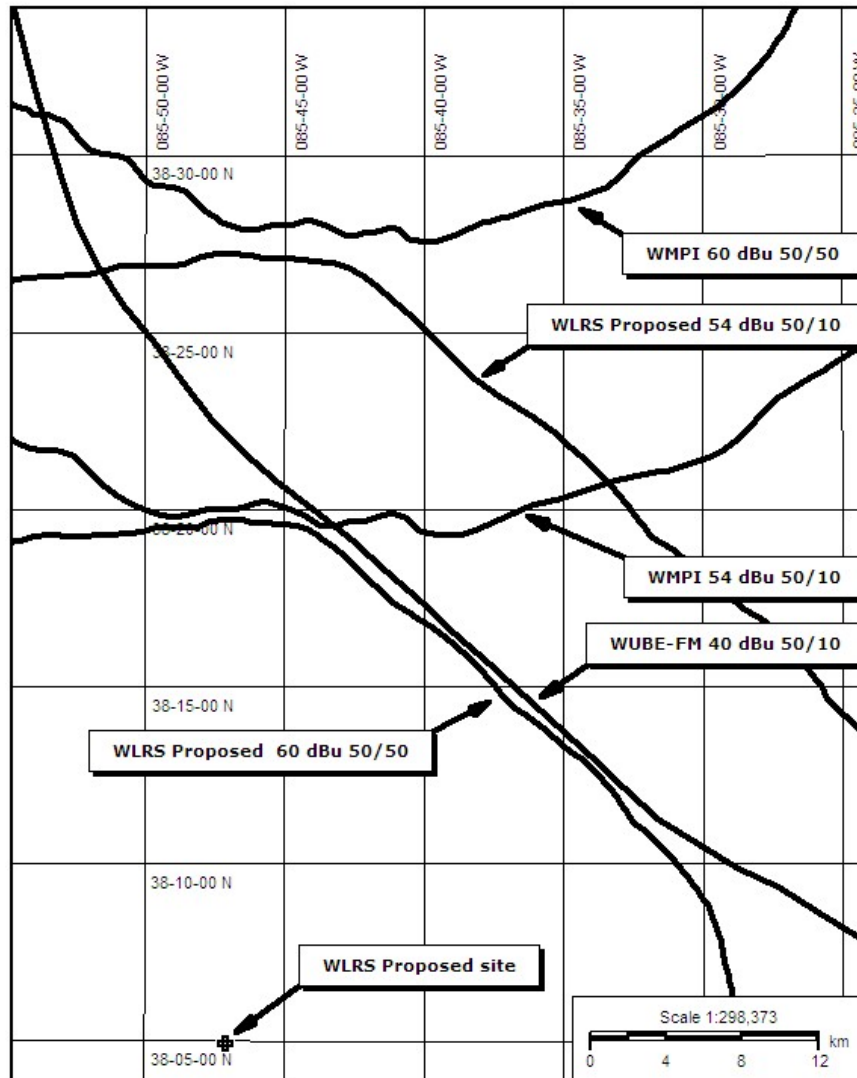


Figure 4
Section 73.215 contour protection

FM station WLRs
Shepherdsville, KY
Facility ID 51074
Channel 286A

Rotation Angle: 0

Azimuth	Relative Field
0.0	0.860
10.0	0.800
20.0	0.680
30.0	0.620
40.0	0.580
50.0	0.640
60.0	0.750
70.0	0.920
80.0	1.000
90.0	1.000
100.0	1.000
110.0	1.000
120.0	1.000
130.0	1.000
140.0	1.000
150.0	1.000
160.0	1.000
170.0	1.000
180.0	1.000
190.0	1.000
200.0	1.000
210.0	1.000
220.0	1.000
230.0	1.000
240.0	1.000
250.0	1.000
260.0	1.000
270.0	1.000
280.0	1.000
290.0	1.000
300.0	1.000
310.0	1.000
320.0	1.000
330.0	1.000
340.0	0.940
350.0	0.850

Figure 5
Tabulated antenna azimuth pattern
FM station WLRS
Shepherdsville, KY
Channel 286A
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