

Exhibit to WAMZ Application
Minor Change
Louisville, Kentucky
Facility ID: 11921

This exhibit presents the technical details of a minor modification for change in antenna location of the station. No change in principal regulator class, assigned community or channel of operation is proposed.

Proposed Antenna Location

The proposal is for WAMZ to co-locate by "diplex" operation into the existing antenna of co-owned FM station WNRW. This license antenna is located 137 meters above ground on the tower identified by antenna structure registration number 1045578, which is an element in the WKRD(AM) directional array. The licensee anticipates undertaking required measures to ensure the WDRD facility continues proper operation.

Class Compliance

The FCC provided web tool has been used to determine the height above average terrain of 157 meters, see Figure 1; thus full C1 Class power of 100 kW is allowable at this location.

Spacing Compliance

Attached as Figure 2 is a spacing study from the proposed antenna location indicating this proposed location is in accordance with Section 73.207 of the Commission's rules as required to all facilities, applications, and allocations.

Principal Community Signal Compliance

The proposal will provide the required signal to the principal community as shown in Figure 3.

Radio Frequency Radiation Study and Statement

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The antenna system is an ERI "Roto-tiller" 4 bay full wave spaced array which has been evaluated using the program

"FM Model" as EPA type 3, "Rototiller " antenna, mounted with its center of radiation 137 meters above ground level, and operated with a **combined WAMZ + WNRW** effective radiated power of 142.5 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 56 meters from the base of the tower, this proposal will contribute worst case, 45.3 microwatts per square centimeter, or 4.53 percent of the allowable ANSI limit for controlled exposure, and 22.6 percent of the allowable limit for uncontrolled exposure.

It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.


Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower.

Figures and Attachments

Figure 1 – Antenna Location HAAT Calculation

Antenna Height Above Average Terrain (HAAT) Calculations (HAAT) Results

Aud... Page 1 of 1



Federal Communications Commission

Audio Division

(202)-418-2700

FCC Home | Search | Updates | E-Filing | Initiatives | For Consumers | Find People

Antenna Height Above Average Terrain (HAAT) / Contour Calculations

FCC > MB > Audio Division > HAAT/Contour Calculations

FCC site map

Antenna Height Above Average Terrain Calculations -- Input

Latitude **38 11 31.0 North**
Longitude **85 31 11.0 West** (NAD 27)

Height of antenna radiation center above mean sea level [RCAMSL] = **353.0** meters

Number of Evenly Spaced Radials = 8 0° is referenced to True North

Results:

Calculated HAAT= 157. meters

(Antenna Height Above Average Terrain)
using the 30 second FCC/NGDC terrain data)

Antenna Radiation Center Heights Above Individual Radials:

0.0°	139.0 meters
45.0°	146.9 meters
90.0°	139.3 meters
135.0°	153.3 meters
180.0°	169.6 meters
225.0°	158.8 meters
270.0°	182.7 meters
315.0°	169.5 meters

New Antenna Height Above Average Terrain (HAAT) calculation?

[FCC Home](#) | [Search](#) | [RSS](#) | [Updates](#) | [E-Filing](#) | [Initiatives](#) | [Consumers](#) | [Find People](#)

Federal Communications Commission
445 12th Street SW
Washington, DC 20554
[More FCC Contact Information...](#)

Phone: 1-888-CALL-FCC (1-888-225-5322)
TTY: 1-888-TELL-FCC (1-888-835-5322)
Fax: 1-866-418-0232
E-mail: fccinfo@fcc.gov

[Privacy Policy](#)
[Website Policies & Notices](#)
[Required Browser Plug-ins](#)
[Freedom of Information Act](#)

http://transition.fcc.gov/fcc-bin/haat_calculator?dlat=38&mlat=11&slat=31&ns=1&dlon=... 4/16/2012

Figure 2 - Antenna Location Spacing Study

WAMZ at WNRW									
Cc Licenses, Llc									
REFERENCE							DISPLAY DATES		
38 11 31.0 N.		CLASS = C1					DATA 04-14-12		
85 31 11.0 W.		Current Spacings to 3rd Adj.					SEARCH 04-16-12		
----- Channel 248 - 97.5 MHz -----									
Call	Channel		Location		Azi	Dist	FCC	Margin	
WAMZ	LIC	248C1	Louisville	KY	232.5	23.35	245.0	-221.2	
WSLM-FM	LIC	250A	Salem	IN	310.9	75.60	75.0	1.1	
WYGY	LIC	247A	Fort Thomas	KY	37.3	141.60	133.0	9.1	
WKLO	LIC	245A	Hardinsburg	IN	292.1	83.90	75.0	9.4	
WJXB-FM	LIC	248C	Knoxville	TN	149.4	280.25	270.0	10.8	
WBUL-FM	LIC	251C1	Lexington	KY	100.2	95.36	82.0	13.9	
WCLS	LIC	249A	Spencer	IN	319.9	150.55	133.0	18.1	
WGKS	LIC	245C2	Paris	KY	93.8	102.49	79.0	24.0	
WTGR	LIC-Z	248A	Union City	OH	15.4	230.61	200.0	31.1	
Proposed to Canada as B1 on 920917-Accepted by Canada					921102				
WVNU	LIC	248A	Greenfield	OH	53.6	231.53	200.0	32.0	
Accepted by Canada on 930330									
WZZP	LIC	248A	Hopkinsville	KY	227.6	233.00	200.0	33.5	
WJSN-FM	LIC	247C2	Jackson	KY	106.7	194.60	158.0	37.1	
AL0663	RSV-A	247C2	Jackson	KY	106.7	194.60	158.0	37.1	
WOXY	LIC	249A	Mason	OH	41.2	172.07	133.0	39.6	
WRUL	LIC	247B	Carmi	IL	267.8	235.39	195.0	40.9	
WOXY	CP	249A	Mason	OH	34.1	178.56	133.0	46.1	
4/12/2012: Accepted on channel 249-A (39-30-57 N, 84-21-05 W) by Indust									
ry Canada in 4/12/2012 letter. Note: not short-spaced.									
WHMS-FM	LIC	248B	Champaign	IL	312.7	315.88	270.0	46.4	
WKCA	LIC	249A	Salt Lick	KY	89.9	185.04	133.0	52.5	
WQBE-FM	LIC	248B	Charleston	WV	84.7	332.89	270.0	63.4	
WXCM	LIC-Z	246A	Whitesville	KY	247.4	140.50	75.0	66.0	
WWKY	LIC	249A	Providence	KY	245.0	200.37	133.0	67.9	

RSV-R = reserved and needs protection, RSV-A = allocation									

Figure 3 - Signal to Principal Community

WAMZ at WNRW
Cc Licenses, Llc

Coverage Study - NGDC 30 SEC
04-16-2012

WAMZ CH248 C1, 100.0 kW, 157.0M HAAT, 353.0M COR AMSL
Service Contour = 70 dBu.

