

Engineering Exhibit to Application for Minor Modification of WFCB Ashville, OH.  
November 11, 2003

This minor change application is to specify operation of WFCB upon antenna structure number 1033684 which is an element in the array for standard broadcast station WTVN.

Allocation:

This location meets the requirements of 73.207 for all assignments and allocations with the exception of WAKW, Cincinnati, OH

Section 73.213(a)

WAKW and WFCB are historically short spaced, and have remained so since 1961. Made part of this exhibit are maps produced by the computer program "Comstudy" showing the areas of interference received and created, both with the present WFCB site, and the proposed site. Additionally a table showing the area and population predicted receive interference to WAKW and WFCB, both with the present WFCB site, and the proposed WFCB site. This exhibit also includes a map showing those portions of Clark, Madison, Fayette, and Ross counties Ohio that are predicted to lose service from WFCB due to interference from WAKW as a result of this proposal.

The "Comstudy" computer program was employed to produce not only the maps below but the data presented in the table below demonstrating that the total area of interference both caused and received is decreased.

	Present	Proposed		Present	Proposed
	Area in Sq Km			Total Persons	
Received From WAKW	2833	2110		67612	59824
Caused to WAKW	2243	2131		245602	245245
Total Interference	5076	4241		313214	305069

A very small (less than 6 square kilometer) area of the present WAKW signal will receive increased interference, a copy of this application is being served, and a map and tabular listing showing that at least 5 aural services will remain after this proposal.

In the area predicted to lose service by WFCB from interference from WAKW as a result of this proposal, at least 5 aural services will remain is also depicted by map and tabulation in this exhibit.

RF Hazard Statement:

The present fencing at WTVN is sufficient to provide protection from the AM field as specified in OET Bulletin No. 65. The proposed WFCB facility was further analyzed in accordance with OET Bulletin No. 65.

The proposed WFCB antenna system is a ERI SHP8-AE Half-wave spaced EPA type 3 style antenna, mounted with its center of radiation 188 meters above ground level, and will operate with an effective radiated power of 33 kilowatts in both the horizontal and vertical planes. At 2 meters, the height of an average person, at any distance from the base of the tower, this proposal will contribute worst case, 0.083 microwatts per square centimeter, or 0.0083 percent of the allowable ANSI limit for controlled exposure, and 0.0413 percent of the allowable limit for uncontrolled exposure. At the tower base, power density is even lower. 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 warning 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 for maintenance or inspection.

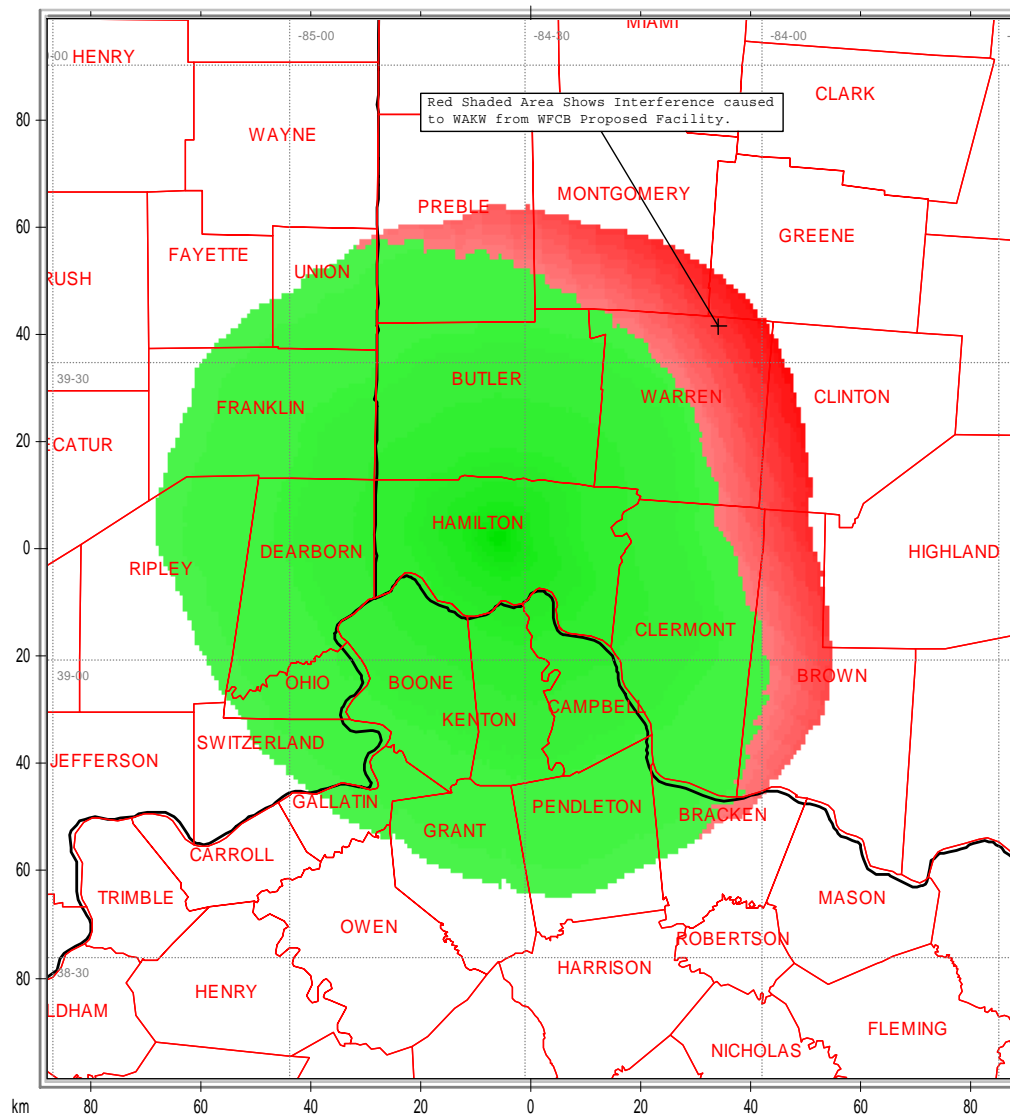
#### Public Interest

This proposal will provide new service to 444,470 persons by WFCB and at the same time reduce the number of persons and area of WAKW that received interference from WFCB.

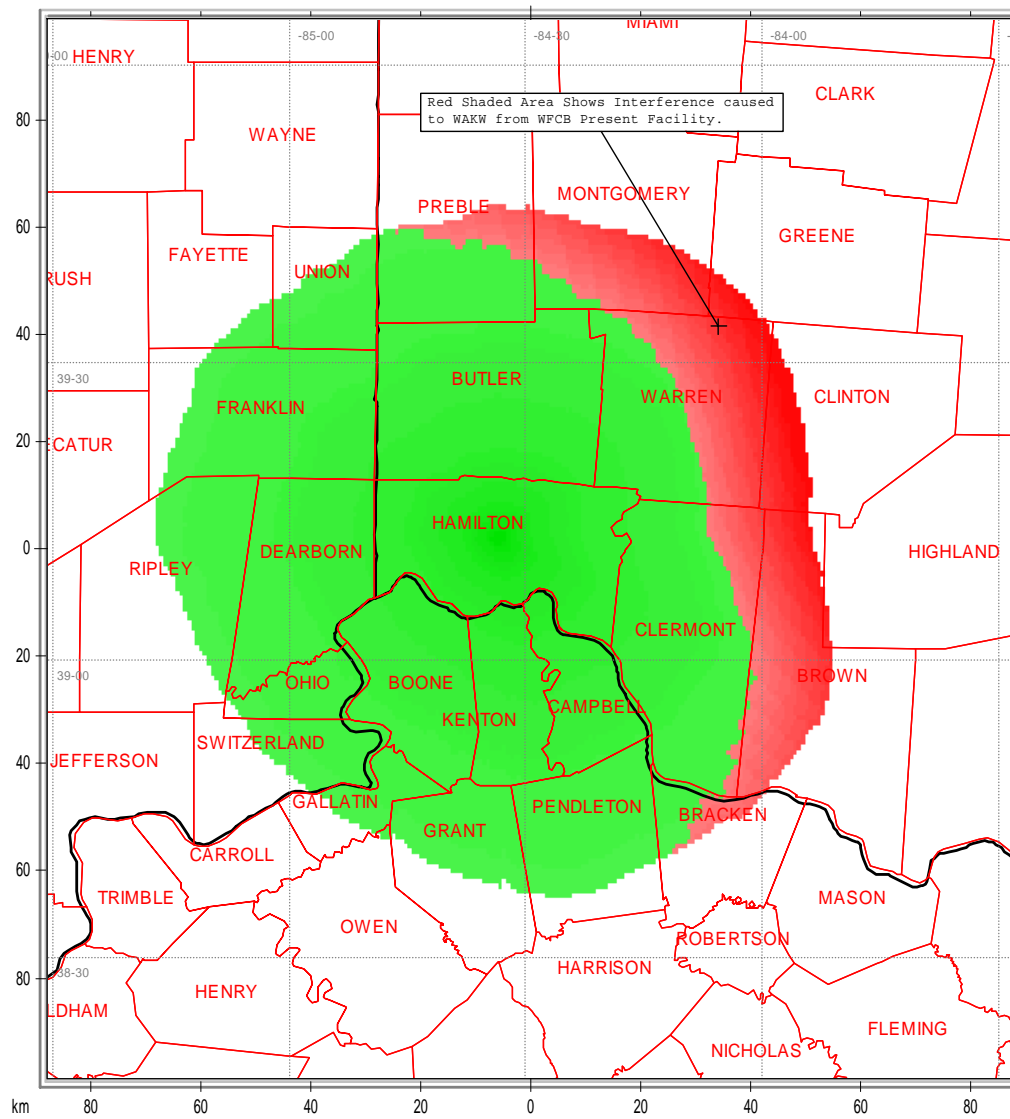
For the reasons above given it is believed that this proposal is in the public interest and should be allowed.

Troy Langham  
FCC Specialist  
Clear Channel Broadcasting Licenses

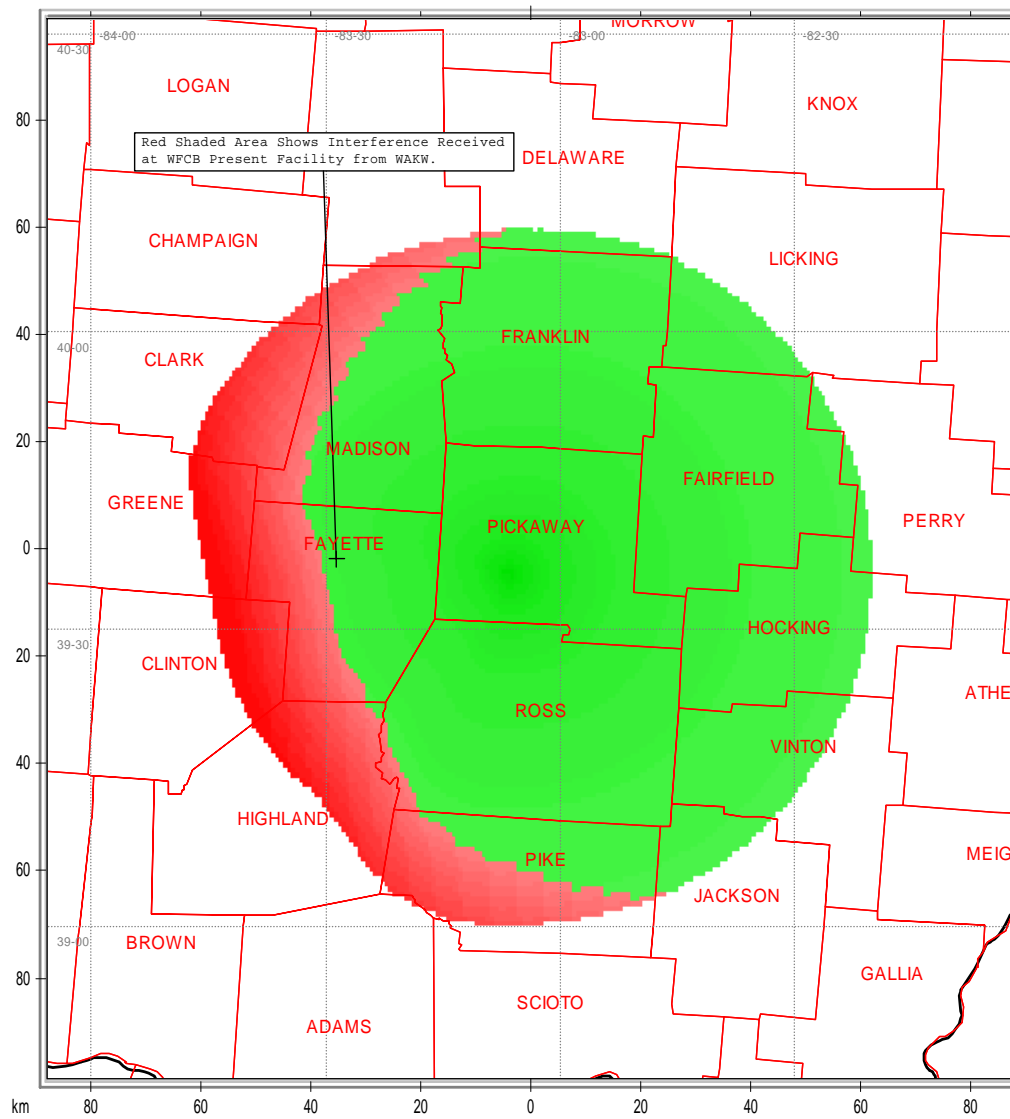
Interference caused to WAKW from WFCB Proposed Facility.



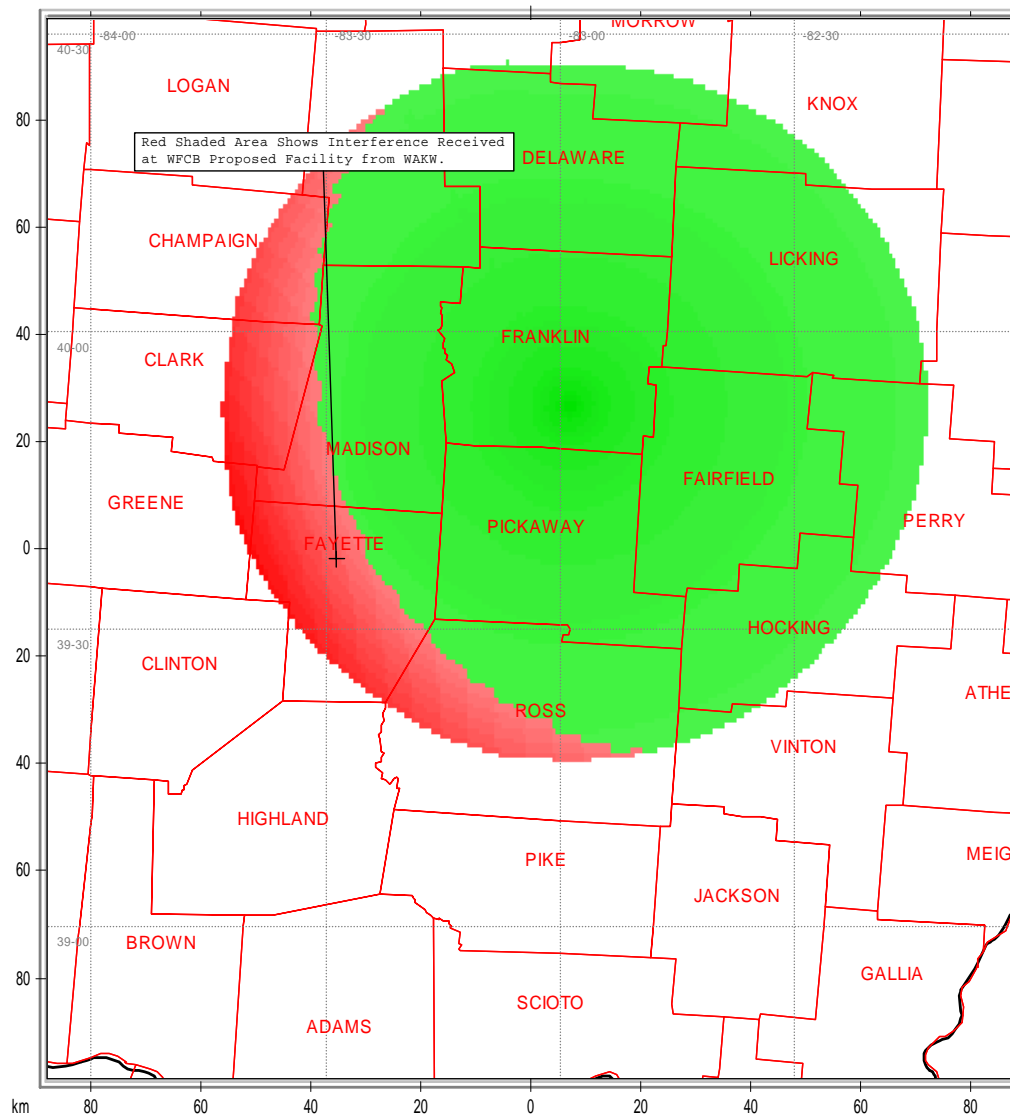
*Interference caused to WAKW from WFCB Present Facility.*

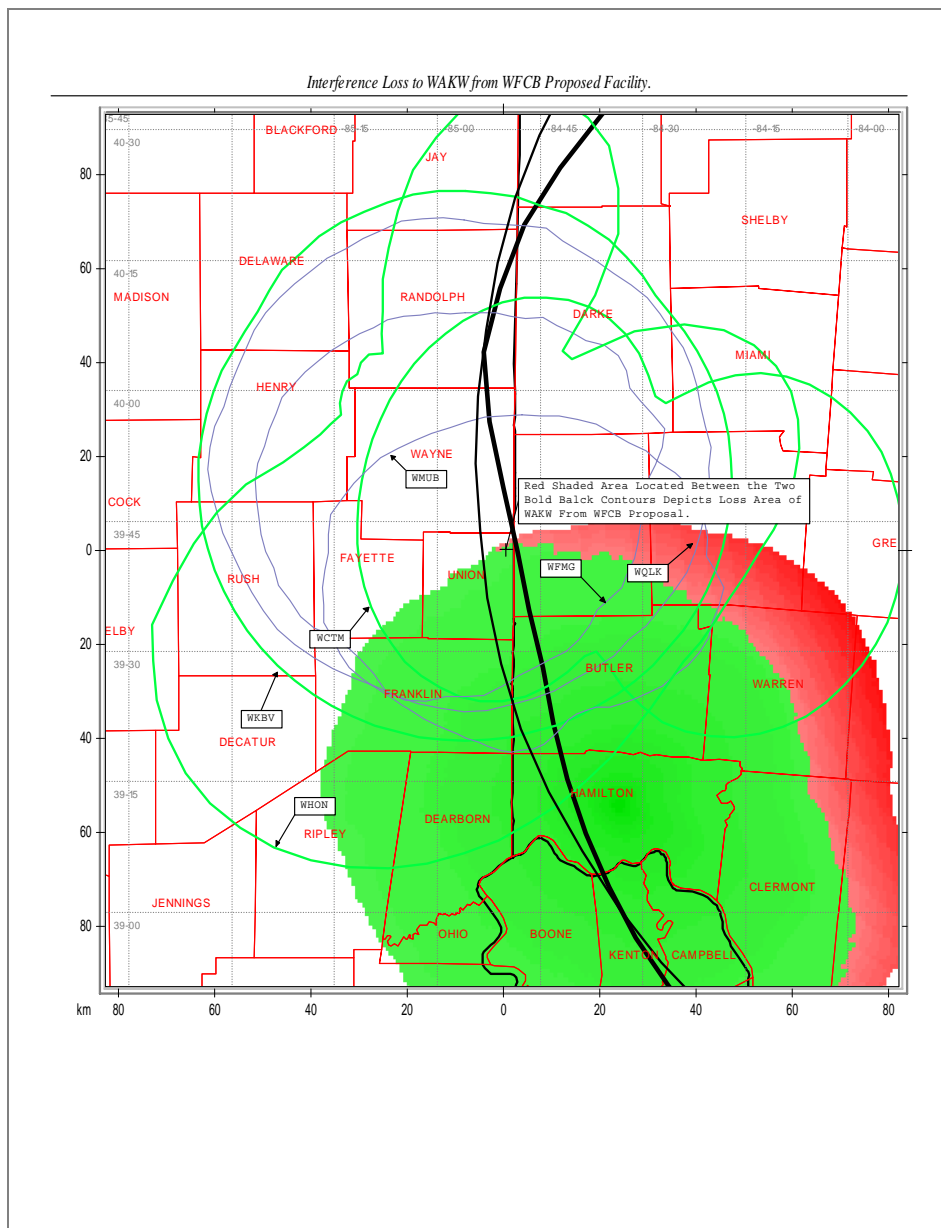


Interference Received at WFCB Present Facility from WAKW.



*Interference Received at WFCB Proposed Facility from WAKW.*

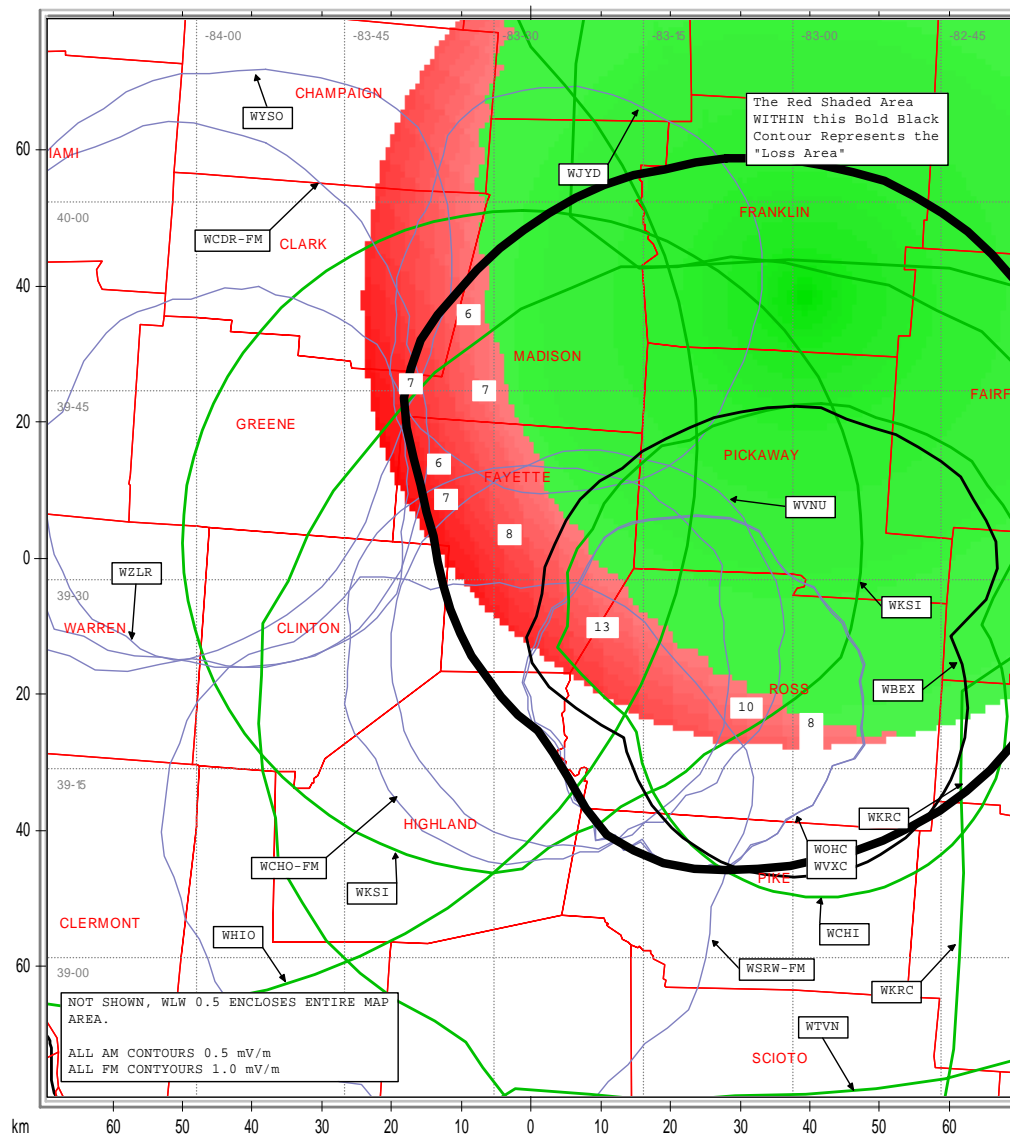




Tabulation of remaining aural services in area predicted to lose service from proposed modification used on above map to show 5 remaining services:

Call Sign	Facility_id	Callsign	City	State	Freq
WCTM	71930	WCTM	EATON	OH	1130
WKBV	41848	WKBV	RICHMOND	IN	1490
WQLK	6749	WQLK	RICHMOND	IN	96.1
WMUB	66278	WMUB	OXFORD	OH	88.5
WFMG	41845	WFMG	RICHMOND	IN	101.3
WHON	6746	WHON	CENTERVILLE	IN	930

"Loss Area" Map Showing at least 5 Aural Services Remaining





Tabulation of remaining aural services in area predicted to lose service from proposed modification used on above map to show 5 remaining services:

Call Sign	Facility_id	City	State	Freq
		WASHINGTON COURT		
WKSI	57355	HOU	OH	1250
WZLR	15649	XENIA	OH	95.3
WOHC	65503	CHILLICOTHE	OH	90.1
WSRW-FM	65701	HILLSBORO	OH	106.7
WJYD	63949	LONDON	OH	106.3
WYSO	2374	YELLOW SPRINGS	OH	91.3
WVNU	61331	GREENFIELD	OH	97.5
WCHO-FM	57354	WASHINGTON COURT HOU	OH	105.5
WVXC	74298	CHILLICOTHE	OH	89.3
WCDR-FM	65515	CEDARVILLE	OH	90.3
WLW	29733	CINCINNATI	OH	700
WTVN	11269	COLUMBUS	OH	610
WKRC	29737	CINCINNATI	OH	550
WHIO	14244	DAYTON	OH	1290
WBEX	52041	CHILLICOTHE	OH	1490
WCHI	74225	CHILLICOTHE	OH	1350
WXIC	14652	WAVERLY	OH	660