

## **WGVU Radio Applies for Digital Conversion Grant**

(09/07/04) WGVU has recently applied for a grant from CPB (Corporation for Public Broadcasting), which if granted would add digital IBOC (In Band On Channel) capacity to our WGVU-FM 88.5 station located in Grand Rapids, MI. Grand Rapids, Michigan does not currently have any IBOC digital stations; therefore this gives WGVU an opportunity to provide this new technology to our listeners. IBOC is a way of efficiently broadcasting a digital signal with the existing analog signal at the same time. Presently, our radio broadcast comes to you in analog format. By adding the IBOC to our existing system, our listeners could now receive their radio signals in digital. (A digital radio receiver is required) They would no longer hear any static nor experience any signal fading. They would not have to subscribe to it. It would be available free to them via a regular antenna and it would have CD quality sound. If you would like to learn more about IBOC technology, please go to the following website: [www.ibiquity.com](http://www.ibiquity.com). WGVU Television Suffers from Electrical Storm - On Saturday, August 28 at 5:27am a lightning strike disabled our Allendale/Channel 35 location. We were able to bring the transmitter back online but only to about 10% power. We later learned that the high voltage transformer that provides electrical service (26,000 volts) to our visual side of our broadcast signal had been damaged and that we would need emergency parts in order to correct the damage. Parts were air freighted to us on Monday morning; our site engineers completed their repairs and had us back to full operation by Monday afternoon.

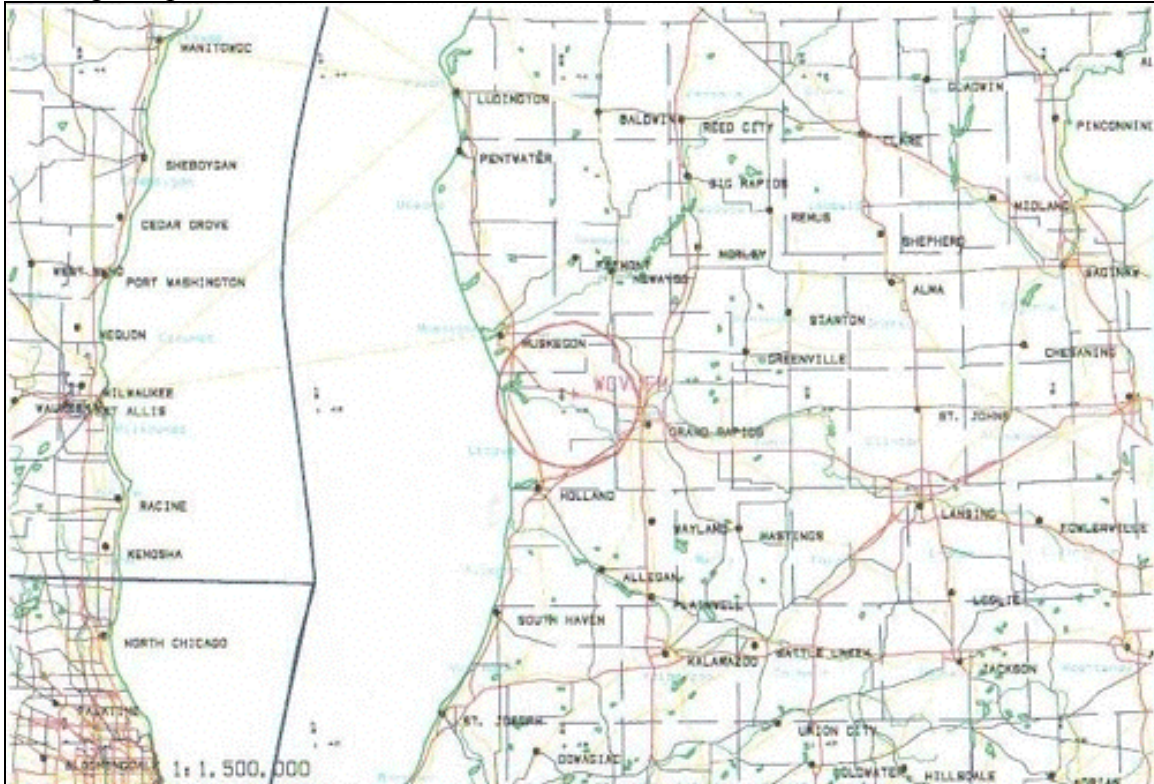
## **What's in the future for WGVU-AM Radio?**

(091304) With much of our recent efforts directed at our WGVU-FM station, we would like to address our AM stations and their future. Our AM stations (WGVU-AM 1480, WGVS-AM 850) will eventually follow in the IBOC (In Band On Channel) technology like our FM stations. However, there is a difference between the AM - IBOC broadcasting compared to the FM-IBOC broadcasting. First, the FCC has approved both IBOC for AM and FM, however AM has not been approved for nighttime broadcasting. The reason for this is because the FCC is still evaluating the effects of adjacent channel interference. This problem is more prominent in AM band signals and therefore must be studied further. Second, the IBOC system would allow our listeners to receive both AM and FM signals in digital. The FM digital radio signals would have CD quality sound. The AM digital signals would be able to achieve the equivalent of analog FM stereo quality. If you would like to hear what AM IBOC sounds like and you have a high speed Internet connection, you can go to the following link:

[http://www.ibiquity.com/hdradio\\_experience.htm](http://www.ibiquity.com/hdradio_experience.htm). As you can see, AM-IBOC technology has not developed as fast as it has for its FM counterpart. WGVU will eventually adapt this technology, but only after the new system has been tried, tested and approved by the FCC for 24-hour operation. WGVU Digital Television Conversion Update – ALLENDALE – WGVU-DT Channel 11 WGVU has completed a new building addition complete with new HVAC, fire protection and emergency power equipment to house the new Channel 11 Digital Transmitter. WGVU is currently broadcasting 75% of our scheduled day's programming as required by the FCC. Work continues on organizing parts supply inventory, storage systems and remote control systems that are needed for remote control and monitoring of the new digital TV system.

## Our WGVU-FM site

(09/20/04) WGVU-FM 88.5 began broadcasting on July 17 of 1983 and expanded its power to 3,000 watts on December 17, 1987. Located in Coopersville, MI, our broadcast tower of 292 feet serves over 20,000 listeners weekly. See below for our WGVU-FM coverage map.

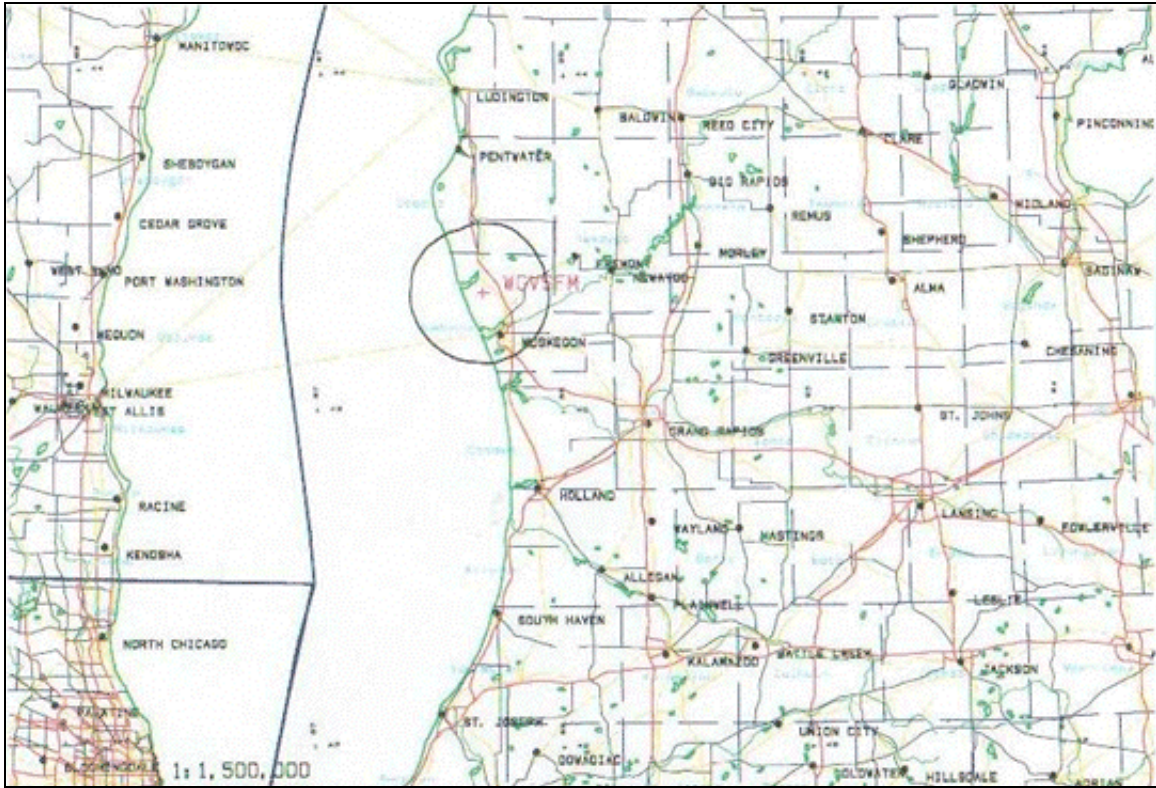


## WGVU Digital Television Conversion Update

(092704) KALAMAZOO – WGVK-DT Channel 5 WGVK has completed a new building, complete with new HVAC, fire protection and emergency power equipment to house the new Channel 5 Digital Transmitter. WGVK is currently broadcasting 75% of our scheduled day's programming as required by the FCC. Work continues on organizing parts supply inventory, storage systems and remote control systems that are needed for remote control and monitoring of the new digital TV system.

## Our WGVU-FM radio site

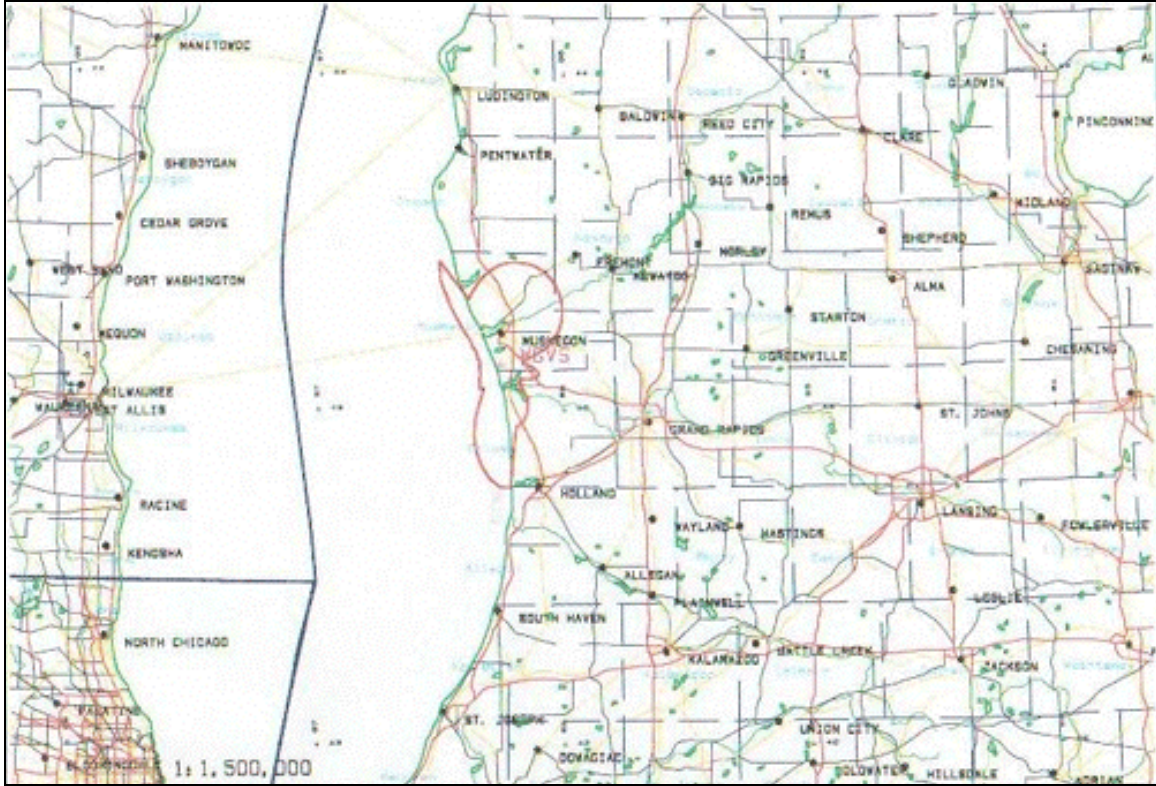
(100404) WGVU-FM 95.3 came on board in 1999 and broadcasts at a power of 2,000 watts ERP (Effective Radiated Power). Located in Whitehall, MI, our broadcast tower of 396 feet serves over 20,000 listeners weekly. See below for our WGVU-FM coverage map.



WGVU Television Receives Grant from CPB for its Master Control - WGVU has recently been awarded a grant from the Corporation of Public Broadcasting for the purpose of upgrading its Master Control Room. With this federal funding, we will purchase and install the equipment needed to provide our viewers with Hi Definition and multicast signals (several TV channels at the same time). It will also provide automation and program storage allowing us to serve our viewers better.

## **Our WGVS-AM radio site**

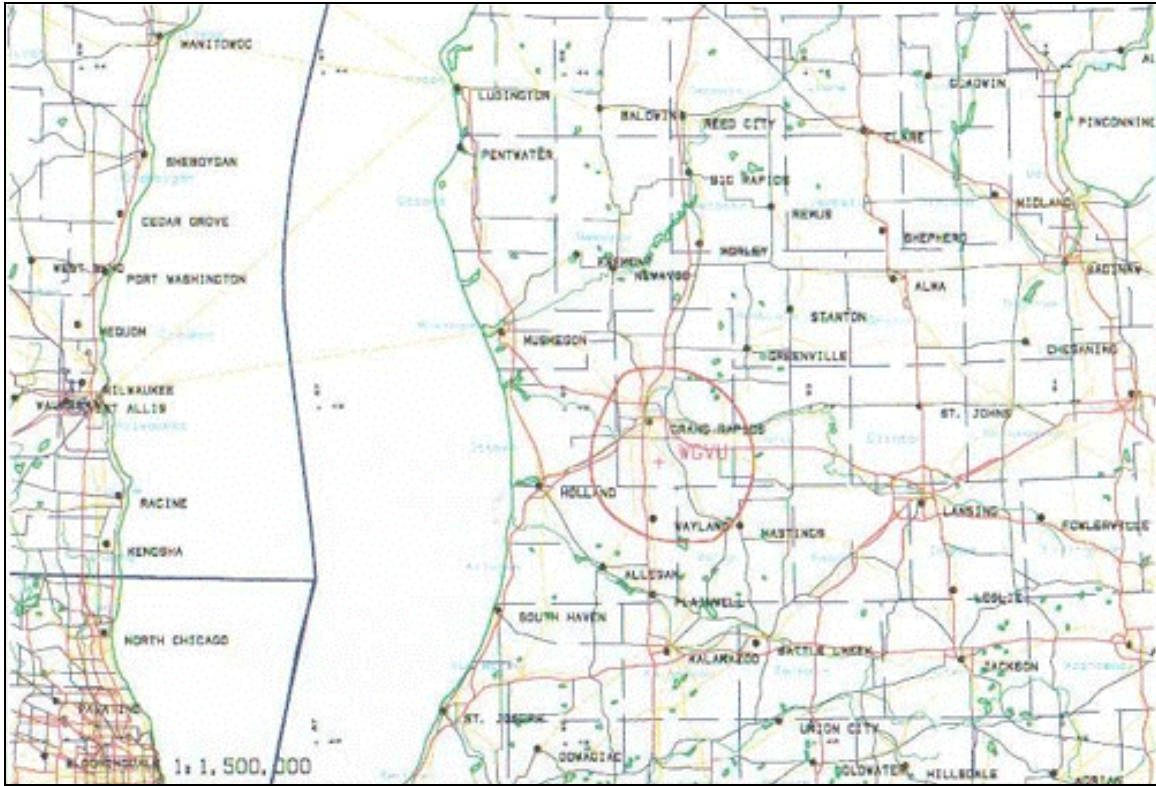
(10/04/04) WGVS-AM 850 came on board in 1999 and broadcasts at a power of 1,000 watts ERP (Effective Radiated Power). Located in Muskegon, MI, our broadcast directional array of four towers serves over 20,000 listeners weekly. See below for our WGVS-AM coverage map.



WGUV Television Receives Grant from PTFP- WGUV has recently received a grant from PTFP (Public Telecommunications Facilities Program) for the replacement of its existing analog STL (Studio Transmitter Link) with a digital STL (Studio Transmitter Link). Presently, WGUV utilizes a single hop microwave of 47 miles to deliver its programming to our Kalamazoo station WGVK. With this new funding, WGUV will install a new space diversity microwave system that will send two signals to the tower in Kalamazoo. A switcher will be used to select the best of those signals in the event of a microwave fade. This new equipment will allow us to deliver reliable digital signals to our viewers in the greater Kalamazoo area.

## **Our WGUV-AM radio site**

(10/11/04) WGUV-AM 1480 came on board in 1992 and broadcasts at a power of 2,000 watts omni-directional during the daytime and 5,000 watts directional during the evening hours. Located in Kentwood, MI, our broadcast array of four towers serves over 20,000 listeners weekly. See below for our WGUV-AM coverage map.



WGUV Digital Television and how to receive it– In order to receive digital programming, the program must first be transmitted in digital. WGUV presently broadcasts in digital on Channel 11 – WGUV-DT, Allendale, MI and on Channel 5 – WGK-DT, Kalamazoo, MI. The viewer at home can receive these digital signals free through over-the-air broadcasts via an antenna to a digital receiver. DTV sets that have receivers built in don't require any additional equipment. Regular analog TV sets will require a separate set-top box receiver that can translate the digital signal to analog. For a full description of equipment for DTV viewing or if you would like more information on DTV programming, please view the following web address: [www.checkHD.com](http://www.checkHD.com).

## **WGUV Radio and ISDN**

(11/22/04) ISDN stands for Integrated Services Digital Network. It is a design for a completely digital telephone/telecommunications network. It is designed to carry voice, data, images, video, everything you could ever need. It is also designed to provide a single interface (in terms of both hardware and communication protocols) for hooking up your phone, your fax machine, your computer, your videophone, and your microwave. WGUV uses an ISDN line for phone interviews that can be broadcast over our radio stations. That way the guest can be interviewed almost anywhere by our host and heard locally on our station. ISDN was originally envisioned as a very fast service, but that was a long time ago when it was hoped to have fiber all the way to your house. It turned out that running all that fiber would be too expensive, so they designed ISDN to run on the copper wiring that you already have. Unfortunately, that slowed things down considerably - too slow for quality video, for instance. This is why we don't use ISDN lines for our television productions. However, ISDN works very well for our radio

productions and provides a clear transfer of our broadcast information. WGUV Television and DVD duplication– WGUV has purchased a new DVD duplicator for the purpose of being able to offer our viewers WGUV local productions in DVD format. Viewers will now have the choice between VHS or DVD format for their viewing pleasure. For more information on available DVDs for purchase, please go to our website at [wgvu.org/store](http://wgvu.org/store).