



# VHF-UHF DIGEST

The Official Publication of the Worldwide TV-FM DX Association

MARCH 2022

# 94.7

# THE BLOCK

**NEW YORK'S  
#1 FOR THROWBACKS**

Latest

**New York's #1 for Throwbacks**

**A NEW CALLSIGN - WXBK  
A FORMAT CHANGE FROM COUNTRY TO R&B  
A TRANSMITTER MOVE 10 MILES CLOSER TO NYC  
A PATTERN SHIFT AWAY FROM THE SOUTHWEST  
FOR WMAS 94.7**

# THE VHF-UHF DIGEST

## The Worldwide TV-FM DX Association

Serving the TV, FM, 30-50mhz Utility and Weather Radio DXer since 1968

THE VHF-UHF DIGEST IS THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION DEDICATED TO THE OBSERVATION AND STUDY OF THE PROPAGATION OF LONG DISTANCE TELEVISION AND FM BROADCASTING SIGNALS AT VHF AND UHF. WTFDA IS GOVERNED BY A BOARD OF DIRECTORS:

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# The Mailbox

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## MARCH 2022

Welcome to the March issue of the VUD. February was another uneventful, forgettable month and we hope March turns around a bit. I noticed on the logger that both Fred Nordquist in SC and Chris Dunne in South Florida both has some tropo on the 26<sup>th</sup> of February. Fred heard stations in AL, GA and SC while Chris heard stations in SC and GA. Maybe some of that stuff will eventually make its way north. In the meantime, relax and have a beer.

### **NEW MEMBERS AND RENEWALS**

This month we have one new member. He is James Reda in Beaver Falls, PA, Welcome James! We have also received renewals from Dave Pomeroy, Gerard Hart, John Cereghin (rejoin) Doug McAbee (rejoin), Kaimbridge, Ron Hunsiker, John Kosinski, Russel Lay, John Zeis, Frank Merrill, Marcus Barboni, Josh Moore, Wolfgang Schneider, Harry Hayes and Steve Solomon. Thank you all for supporting your WTFDA!

### **OVER IN OREGON**

Here's a another ote from John Jefferson in Oregon: "KSJJ 102.9 is still at low power, maybe 500 watts. It seems they may never be totally off. One day when they were not detectable here I had an appointment in Radmond. I couldn't hear them in downtown Redmond, their city of registry, but did hear them fairly clearly on Powell Buttes east of there, up about as high as the streets go. I talked with a radio engineer from Salem who noted that KSJJ's main transmitter is undoubtedly ancient, dating from their original sign-on. I guess parts for it would be collectors' items, explaining the nearly-three months that it has been down so far." -john Jefferson Madras OR

### **AND ONE MORE...**

From Dave Pomeroy, who splits his time between Kansas and Oregon. Dave writes "I haven't been able to download the VUD for a few months but I hope to get that done soon. I do miss reading it. I have yet to receive any ATSC 3.0 stations but now have a new Sony 65" set with built in ATSC 3.0 and a 32" TCL with their Advanced Digital Tuner. Also I have just acquired a Silicon Dust HD Homerun tuner with 4 tuners and capable of ATSC 3.0 reception. There are two channels on in Kansas City, Missouri on channel 25 and channel 32. Local stations are jointly operating these channels. KSQA-12 in Topeka has finally started airing some things than the Country Network which they dropped. KSQA has 6 sub-channels.

### **AND IN CONCLUSION**

Spring is just around the corner. Let's hope conditions improve. If you hear anything or see anything that you feel may be interesting to your fellow dxers, why not write in and tell us. We look around for interesting topics for you to read about but I'm sure we miss most of them. So, help out if you can. Thanks. CU in 30. Mike

# Next-Generation ‘Franken FMs’ on the Rise

By James O'Neal [tvtechnology.com](http://tvtechnology.com)

## *ATSC 3.0 enables hybrid digital/analog operations*



**WASHINGTON**—It’s been more than a decade since the first so-called “Franken FM” radio stations took to the air—stations licensed as Ch. 6 TV operations, but using their 87.75 MHz audio carrier to create a standalone FM broadcast service receivable by most FM radios. “Frankens” have long been a thorn in the side of legitimate FM operators, and during their existence, the FCC has heard plenty about them. However, as the commission has been pre-occupied with more pressing matters such as spectrum auctions and repacks, little, if any action has been directed at

these “mongrel” FMs, with regulators perhaps hoping that they would vanish last year when all LPTVs were forced to either “go digital or go dark.”

However, just like the Hydra in Greek mythology, cutting off the head proved not to be the answer in eradicating the beast—others soon grew back, or in the case of Franken FMs, some creative RF engineering work allowed LPTV Ch. 6 licensees to retain analog audio services despite their move to digital broadcasting.

The first of the “next-generation” Franken stations—KBKF-LD, a Venture Technologies property in San Jose, Calif.— took to the air in the spring of 2021, with an FCC-issued STA to operate an ATSC 3.0 TV channel with a “tagalong” FM carrier. In applying for the STA, the station opined that such hybrid digital/analog fashion was covered by the ATSC A/322 standard, with its 3.0 signal “pulled in” to occupy 5.509 MHz of its 6-MHz berth and the rest given over to an FM carrier.

### **Reaction to 'Next-Gen Frankens**

Currently, there are at least half-dozen of these “second-generation” Frankens, and given the FCC’s apparent willingness to grant STAs coupled with the number of Ch. 6 TV authorizations, others may soon appear. As such hybridized use of a U.S. DTV channel was not on the table when the NextGen TV standard was being drafted, the arrival of this new wave of Frankens has raised some eyebrows—and questions, just as when the first of the quasi-legal 87.75 FMs popped up back in analog Ch. 6 days.

Several individuals who have been closely involved with the ATSC 3.0 standard were polled for their opinions on this new wave. “During development of ATSC 3.0, a number of use cases were discussed; many were documented,” said ATSC President, Madeleine Noland. “I can’t recall this being one of them. ATSC 3.0 was designed to be flexible and to

accommodate a wide variety of use cases and business plans. Beyond that, we cannot say whether this use case falls within the intent of ATSC 3.0, as authorized by the FCC for the U.S.”

Richard Chernock, a long-time contributor to the ATSC 3.0 initiative stated that “the assumption going forward in the design of ATSC in the U.S. was to establish a full 6 MHz channel. Anything less would reduce 3.0’s capabilities. In my opinion, to use 3.0 for the Franken FMs is to actually lower spectral efficiency.” However, Chernock added “using ATSC 3.0 technology to carry radio audio is a lot more efficient than to use FM. You could go into any big city with a lot of FMs and you could put them all into one 3.0 channel.” Chernock said that he would have to do the math to get a precise figure of the number of discrete audio program streams that could be digitally transmitted within an ATSC 3.0 6-MHz channel, but he speculated that it could easily approach 1,000 given the efficiency of today’s codecs.

S. Merrill Weiss, who has been deeply involved in both ATSC 1.0 and 3.0 standards work, feels that the jury is still out regarding hybrid DTV/FM transmissions. “After reviewing all the publicly available technical material that I could obtain on the proposal to combine ATSC digital signals with FM analog signals in a single Ch. 6 emission, I found a dearth of information on either practical operating parameters and systems, or testing of equipment beyond very rudimentary prototypes,” said Weiss. He expressed several concerns, one of them being the possible impact on 3.0 reception associated with the necessary “squeezing in” of DTV transmission bandwidth to accommodate an FM carrier. “The center frequency of the digital signal would be about 160 kHz below the channel center, and it is not known to me whether consumer receivers being sold can be pulled that far,” said Weiss. “The system may work and be useful, but the information is not available yet to prove it. Once this is released, a judgement on the practicality and utility of such a system may become possible.”

Mark Aitken, ATSC 3.0 “evangelist” and Sinclair Broadcast Group’s senior vice president of advanced technology, remarked that he was not surprised at all about the “second coming” of Franken FMs after last July’s mandatory shutoff of remaining analog LPTVs. “Actually, I think I played a role in getting them in business with 3.0,” said Aitken, explaining that his own involvement into “stretching” a TV channel’s utility “came about quite some time ago” when he was asked if it were possible to accommodate multiple services within a single television channel’s spectrum allocation. “The question posed to me several years ago was ‘if I had 6 MHz of spectrum and wanted to offer a narrowband 5G service, could I do that in conjunction with ATSC 3.0?’” reflected Aitken. “I thought about it and said ‘yeah.’ I demonstrated it later. This was with a narrowband Internet of Things service. I showed that we could carry two separate RF services within a single channel. I probably should have taken out a patent!”

### **Putting Spectrum to ‘Good Use?’**

Asked whether he thought a Franken FM was a legitimate application of the ATSC 3.0 or a misuse, Aitken took a neutral stance. “I’m not going to argue against folks who want to use technology to their advantage,” he said. “The large number of Franken FMs that existed are from people who are not in the TV business. With the limitations of FM spectrum, they are making use of the FCC rules and channel segmentation philosophy. They’re putting it to good use.” He explained that by its very nature, ATSC 3.0 is designed to be extremely flexible and extensible.

“Numerically—and this is not understood by most folks with regard to ATSC 3.0—you can get to any number of bandwidths,” said Aitken. This is the reason that the [3.0] bootstrap itself is only 4.5 MHz wide. We wanted to make sure that in the future 5 MHz raster spectrum could be used by others by using the 3.0 standard.

"This is not enconced or codified in the standard, as it was feared that the FCC might do an ‘about face’ and reduce [U.S.] TV channel bandwidth to 5 MHz, so this was dropped out of the specification," Aitken added. "A channel bandwidth of 8 MHz is, in fact, codified within the ATSC 3.0 standard and is being tried in India."

As Sinclair owns a number of Ch. 6 TV stations that could potentially become Franken FMs, Aitken—when asked about such a possibility—said that he didn’t see this happening anytime soon, although the possibility of gaining more utility from television broadcast spectrum is always intriguing.

“I would think there’s no current interest [in Franken FMs],” he said. “Sinclair is not really interested in radio, as its core business is video. I don’t want to preclude this possibility in the future, but right now we’re focused on rolling out ATSC 3.0.”

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## FACILITIES CHANGES CONTINUES FROM PAGE 19

WI Onalaska 102.7 WKBH-FM CL changed from La Crescent, MN.

WI Rice Lake 90.7 NEW-762161 NS 1kw/112m, 45-31-16/91-45-58 (State of Wisconsin Educational Communications Board)

WI Sparta 89.3 WEQS PG 10kw/127m, 43-52-05/90-37-23

WI Tomahawk 91.3 WGBT PG>100kw/55m, 45-33-31/90-03-31

WY Buffalo 90.5 KBUW PG>20kw/383m, 44-37-23/107-07-02

WY Casper 88.3 KAIX PC>3.7kw/558m, 42-44-24/106-18-25

WY Casper 89.1 KLWC NW 7.3kw/558m, 42-44-24/106-18-25

WY Laramie 88.9 K205GF PG 250w/-47m, 41-18-28/105-32-36 (KCSP-FM 90.3 Casper via satellite)



WEQS



KBUW





# MERCHANDISE STORE

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Any questions, comments, or feedback can be directed to [store@wtfda.org](mailto:store@wtfda.org)

# TV News – March 2022

**Douglas E. Smith**  
**Nashville, TN**  
**[w9wi@w9wi.com](mailto:w9wi@w9wi.com)**

Stations in **boldface** are full-power; all others are LPTV, translators, or Class A. In Canada & Mexico, stations of more than 3kw (VHF) or 15kw (UHF) are marked in **boldface**. Stations *in italics* are analog. There are no operating analog stations left in the USA or Mexico. USA analog listings are off the air, either temporarily pending conversion to digital or permanently deleted.

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
<b>Alabama</b>			
Auburn	4	W04DN	Requests power increase to 3kw/84m, 32-37-19/85-30-05; granted.
Birmingham	35	WOTM-LD	Requests power to 5kw/205m, 33-23-51/86-39-41. Withdrawn. Refiled for 4.8kw, granted, and changed.
<b>Gadsden</b>	<b>26</b>	<b>WTJP-TV</b>	<b>Operating at less than 80% power since Dec. 21<sup>st</sup>, equipment failure. Specified as 50% power Feb. 1<sup>st</sup>.</b>
<b>Arizona</b>			
Fortuna	2	KBFY-LP	Requests conversion to digital from analog ch. 41, 3kw/381m, 33-03-02/114-49-41. Granted. Granted STA 590 watts/352m at this site.
Klagetoh	27	K27OR	Moved from K43GQ, 205 watts/144m, 35-40-29/109-12-25 (KOB Albuquerque, N.M.)
Many Farms	21	K49ET	Moved from 49, 1kw/713m, 36-27-36/109-05-35.
Parker	4	K04SE	Granted power reduction to 200 watts/-41m, 33-37-43/113-46-12.
<b>Tucson</b>	<b>30</b>	<b>KUAT-TV</b>	<b>Requests STA to operate at half power.</b>
<b>Arkansas</b>			
Hot Springs	29	KWMO-LD	Granted STA 10.8kw/285m; to operate at reduced power pending amplifier replacement.
<b>California</b>			
Camarillo	6	KUHD-LD	Requests conversion to digital, 70 watts/464m, 34-20-55/119-20-16; amendment from 300 watts. Granted & converted.
Chico	21	K21OY	Requests power increase to 9kw/342m, 39-57-29/121-42-53; granted & increased.
Middletown	2	KFTY-LD	OFF Jan. 23 <sup>rd</sup> pending repairs to electrical wiring.
Monterey	14	K14TG	Requests power increase to 3kw; granted.
Porterville	15	KFVD-LP	Converted to digital, 3kw/17m, 36-14-10/119-18-04.
Ridgecrest	26	KZGN-LD	Power reduced to 100 watts/-98m, 35-37-00/117-40-14.
Riverside	32	KRMV-LD	OFF Jan. 16 <sup>th</sup> , equipment issues.
San Fernando	27	KPCD-LD	Granted conversion to digital from analog ch. 40, 400 watts/835m, 34-11-49/117-02-57.
<b>San Luis Obispo</b>	<b>15</b>	<b>KSBY</b>	<b>Operating at just shy of 5% power since Feb. 3<sup>rd</sup> due to transmitter failure.</b>
Santa Maria	30	KDFS-CD	Requests STA 7.2kw/436m, 34-53-52/120-35-26.
Van Nuys	26	KSKJ-CD	Requests STA for 5.85kw/878m; transmitter unable to reach full power.



<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Yreka	17	K17BA	Requests STA 437w/730m; to operate at 40% power pending transmitter repairs.
<b>CDMX</b>			
<b>México</b>	<b>25</b>	<b>XHDF</b>	<b>Permit for new aux, 237.67kw/-121m, 19-16-11/99-13-59.</b>
<b>Colorado</b>			
Avon	36	K36DB	OFF Feb. 14 <sup>th</sup> pending delivery of replacement part.
Colorado Springs	18	KZCS-LD	Requests power reduction to 15kw/660m, 38-44-39/104-51-48. Granted.
Colorado Springs	20	KXTU-LD	Requests power increase to 2.9kw/667m; granted & increased.
Colorado Springs	29	KTLO-LD	Requests power increase to 15kw/629m, 38-44-45/104-51-42; granted.
<b>Durango</b>			
Durnago	11	XHPBDG	Permit for new station, 1.48kw/-6m, 24-03-04/104-37-56, replacing XHUNES.
Nazas	24	XHCTTR	1kw/-177m, 25-13-13/104-07-10
<b>Florida</b>			
<b>Fort Myers</b>	<b>31</b>	<b>WINK-TV</b>	<b>Application for new aux, 579kw/388m, 26-47-09/81-47-46. Application says ch. 50 (grin).</b>
<b>Lakeland</b>	<b>18</b>	<b>WMOR-TV</b>	<b>Requests STA for 480kw/459m; to operate at approximately 48% power pending mask filter repairs.</b>
<b>Naples</b>	<b>32</b>	<b>WXCW</b>	<b>Application for new aux, 85kw/388m, 26-47-09/81-47-46.</b>
Wawahitchka	17	WEWA-LD	Granted power reduction to 14kw/11m, 30-07-06/85-12-30 & reduced.
<b>Georgia</b>			
Athens	23	W23DV	Requests power increase to 15kw/122m, 33-53-58/83-12-44.
Baxley	15	WPHJ-LD	Requests power increase to 15kw/420m, 32-03-15/81-21-00. Granted.
Columbus	16	WRDP-LD	Requests power increase to 13kw/126m, 32-19-16/84-47-28; granted.
Columbus	23	W23FA	Requests power reduction to 10kw/111m, 32-28-02/85-02-31.
<b>Guanajuato</b>			
Guanajuato	36	XHTMGJ	Permit for new station, 4kw/4m, 21-01-52/101-16-44.
<b>Hidalgo</b>			
Ixmiquilpan	16	XHCTIX	8kw/-112m, 20-29-57/99-10-47
<b>Idaho</b>			
Boise	35	KZAK-LD	Power reduced to 15kw/469m, 43-44-23/116-08-15.
Twin Falls	23	KKIF-LD	Calls changed from KPIF-LD.
Twin Falls	26	KTKV-LD	Calls changed from KVUI-LD.
<b>Illinois</b>			
<b>Decatur</b>	<b>20</b>	<b>WAND</b>	<b>Application for new aux, 233.9kw/367m; granted.</b>
Quincy	17	W17EH	Requests power increase to 15kw/158m, 39-58-19/91-19-40. Granted.
Springfield	33	W33AY	OFF Jan. 5 <sup>th</sup> pending relocation.
<b>Indiana</b>			
Brazil	19	W19FD	Requests power reduction to 200 watts/12m, 39-14-33/87-23-29.

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Brazil	24	W24FB	Granted. Requests power reduction to 200 watts/12m, 39-14-33/87-23-29.
Indianapolis	3	STA-774868	Granted. Requests temporary analog station, 5 watts/43 centimeters (about 15 inches), 39-45-36/86-09-50. Lucas Oil Stadium, March 3 <sup>rd</sup> -7th for the NFL Scouting Combine.
<b>Iowa</b>			
Fort Dodge	17	KDIT-LD	Calls changed from KPWT-LD.
Keokuk	14	K14SU	New to the air, 15kw/166m, 39-58-19/91-19-40.
<b>Jalisco</b>			
Lagos de Moreno	18	XHCTAG	4kw/76m, 21-21-29/101-57-05
<b>Kansas</b>			
<b>Colby</b>	<b>19</b>	<b>KWKS</b>	<b>OFF Dec. 14<sup>th</sup>, equipment problems. Returned to the air Jan. 13<sup>th</sup> but off again on the 18th.</b>
<b>Pittsburg</b>	<b>13</b>	<b>KFJX</b>	<b>Requests STA 11kw/292m; temporary side-mount antenna pending replacement of the main antenna.</b>
<b>Topeka</b>	<b>12</b>	<b>KSQA</b>	<b>Returned to the air Oct. 17<sup>th</sup>.</b>
<b>Kentucky</b>			
Bowling Green	35	WCTZ-LD	STA withdrawn; returned to full power Feb. 10 <sup>th</sup> . Station is located in Nashville, Tenn.
<b>Hazard</b>	<b>20</b>	<b>WYMT-TV</b>	<b>Granted reallocation from ch. 12, 710kw/478m.</b>
Lebanon	6	WDHC-LD	Granted power increase to 3kw/204m, 36-17-36/87-18-20. Site is near Cumberland Furnace, Tenn.
<b>Louisiana</b>			
Houma	30	KFOL-LD	Requests power increase to 15kw/71m, 29-36-56/90-47-34; granted.
<b>Maryland</b>			
Boyd's	3	NEW-774622	An application for Special Temporary Authority may appear here. It's a test record for the Commission's database records.
Salisbury	33	WOWZ-LP	Converted to digital from analog ch. 6, 15kw/262m, 38-30-06/75-44-07.
<b>Massachusetts</b>			
Dennis	18	WMPX-LD	Power increased to 15kw/145m, 41-59-43/71-26-52.
Springfield	29	WTXX-LD	From 34, 7.3kw/197m, 41-37-05/72-58-17. Granted & moved.
<b>Estado de México</b>			
Ixtapaluca	22	XEQ-n	Permit for new shadow, 822w/146m, 19-20-15/98-53-49.
Tultepec	29	XHCTMX	3kw/99m, 19-42-13/99-07-31
<b>Michoacan</b>			
Cd. Hidalgo	14	XHTCM	Granted move from ch. 15, see text.
Cd. Hidalgo	15	XHCTCY	5kw/-115m, 19-42-22/100-33-03
<b>Minnesota</b>			
Duluth	23	K23MQ	Requests power increase to 15kw/312m, 46-47-21/92-06-51.
St. Cloud	26	K26PF	Requests power increase to 15kw/92m, 45-31-05/94-19-55.
<b>Mississippi</b>			

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Starkville	3	WCBI-LD	Calls changed from W03BP.
<b>Missouri</b>			
Branson	17	K17DL	Requests STA 1.05kw/221m; transmitter issues.
Columbia	6	K06PT	Requests power increase to 3kw/165m; granted.
Iberia	32	KRMS-LD	Calls changed from K32OW
Joplin	34	K41KX	OFF Jan., 5 <sup>th</sup> , lost site.
Monett	36	K36NJ	Expired Feb. 1 <sup>st</sup> & canceled on the 8th.
Neosho	32	KCLG-LD	Expired Feb. 1 <sup>st</sup> & canceled on the 8th.
Springfield	39	K39IU	Expired Feb. 1 <sup>st</sup> & canceled on the 8th.
<b>Montana</b>			
Bozeman	15	KOOG-LD	Calls changed from K15MV. New to the air, 350 watts/182m, 45-38-16/111-16-08.
<b>Bozeman</b>	<b>27</b>	<b>KBZK</b>	<b>Proposes reallocation from ch. 13, 13.9kw/223m, 45-38-20/111-16-07.</b>
Butte	29	K29JT	Requests power reduction to 100 watts/109m, 45-55-18/112-21-26.
Helena	17	KOOH-LD	Calls changed from K17KL. New to the air, 300 watts/-5m, 46-34-28/112-00-24.
<b>Nebraska</b>			
Grand Island	21	KMLF-LD	Requests power increase to 15kw/169m, 40-48-57/98-46-19; granted.
<b>Nevada</b>			
Las Vegas	6	KGHD-LP	Requests "KBKF STA" for simultaneous analog FM audio. Granted.
<b>Las Vegas</b>	<b>29</b>	<b>KVCW</b>	<b>Application for new aux, 164.4kw/370m, to back up site #1 of two-site DTS. Requests STA to operate this aux due to antenna issues.</b>
<b>Las Vegas</b>	<b>33</b>	<b>KSNV</b>	<b>Requests STA 42kw/374m; ATSC 3.0 demonstration station April 11<sup>th</sup> through May 1<sup>st</sup> for the NAB Show. This is independent of KSNV's ATSC 1.0 signal on channel 22.</b>
Las Vegas	35	KVTE-LD	Requests STA 600 watts/-20m; to operate at reduced power pending antenna & transmitter repairs. Granted.
Sparks	35	KGLR-LD	Requests power reduction to 1.8kw/125m; granted & new to the air.
<b>New Mexico</b>			
Las Cruces	19	K19LZ	Requests power increase to 930w/49m, 32-16-40/106-54-44
<b>New York</b>			
New York	6	WNYZ-LD	Applied for ATSC 3.0 permission with "KBKF conditions". Reported on the air with FM signal.
<b>Schenectady</b>	<b>6</b>	<b>WRGB</b>	<b>Operating at approximately 50% power from a lower interim antenna, pending move to ch. 35.</b>
<b>Schenectady</b>	<b>35</b>	<b>WRGB</b>	<b>Moved from 6, 1000kw/392m. Reported still operating on ch. 6 from interim antenna pending grant of license-to-cover for 35.</b>
<b>North Carolina</b>			
Lilesville	17	W17EE	OFF Feb. 3 <sup>rd</sup> pending transmitter repairs.
New Bern	30	W30FB	From W27DP, 15kw/76m, 34-43-28/77-14-54; amendment to change site. Granted.
Wilmington	4	WWAY-LD	Calls changed from W04DQ.
<b>North Dakota</b>			
Fargo	23	KCPM-LP	Returned to the air Feb. 5 <sup>th</sup> .

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
<b>Oaxaca</b>			
Teotitlán	22	XHCPBR-n	Permit for new shadow, 200 watts/-411m, 18-08-22/97-05-13
Tlaxiaco	21	XHCPBR-n	Permit for new shadow, 200 watts/-86m, 17-16-23/97-41-03.
<b>Ohio</b>			
Toledo	6	WDMY-LD	Requests power to 2.2kw/62m, 41-51-03/83-31-55. (WLMB)
<b>Oklahoma</b>			
Enid	19	K19IR	OFF Jan. 3 <sup>rd</sup> .
Tulsa	23	KTUO-LD	Requests power increase to 15kw/190m, 36-06-39/96-02-00.
<b>Oregon</b>			
Astoria	36	KPWT-LD	Calls changed from K36LI.
Lincoln City	21	K21LB	Requests power increase to 15kw/63m, 44-56-44/124-00-25. Granted.
Mapleton	25	K25NI	OFF Jan. 12 <sup>th</sup> , transmitter failure.
<b>Portland</b>	<b>25</b>	<b>KOIN</b>	<b>Operating at 50% power from auxiliary antenna since Jan. 29<sup>th</sup> due to damage to main antenna. Returned to full power Feb. 20<sup>th</sup>.</b>
<b>Portland</b>	<b>32</b>	<b>KNMT</b>	<b>Operating at less than 80% power since Dec. 24<sup>th</sup>, equipment failure. Returned to full power Jan. 25<sup>th</sup>.</b>
<b>Salem</b>	<b>33</b>	<b>KRCW-TV</b>	<b>Operating at 50% power from auxiliary antenna since Jan. 29<sup>th</sup> due to damage to main antenna. Returned to full power Feb. 20<sup>th</sup>.</b>
<b>Pennsylvania</b>			
Harrisburg	34	W34FL	Requests power increase to 15kw/213m; granted. (WBPH-TV Bethlehem)
Lebanon	31	WLHY-LD	Requests power reduction to 15kw/184m. Granted.
Philadelphia	16	WDUM-LD	Returned to the air Feb. 9 <sup>th</sup> .
Uniontown	22	WWKH-CD	OFF Feb. 4 <sup>th</sup> pending transmitter replacement.
<b>Puerto Rico</b>			
<b>Aguada</b>	<b>25</b>	<b>WQHA</b>	<b>Requests STA 16kw/478m, 18-14-00/66-45-33; to temporarily operate from the WCCV-TV tower pending repairs at licensed site.</b>
<b>Fajardo</b>	<b>16</b>	<b>WRUA</b>	<b>Requests power reduction to 50kw/823m, 18-18-29/65-47-40. Granted.</b>
<b>Quintana Roo</b>			
Cozumel	23	XHCOZ	Requests site change, 2kw/75m, 20-28-31/87-57-44.
<b>Sinaloa</b>			
Guamúchil	33	XHCTLM	4kw/2m, 25-28-36/108-05-09
<b>South Carolina</b>			
Florence	15	W15DC	Requests power increase to 5kw/100m, 34-22-03/79-19-48. Granted.
<b>South Dakota</b>			
Sioux Falls	6	K06QJ	Requests power increase to 3kw/175m; granted.
<b>Tennessee</b>			
<b>Chattanooga</b>	<b>8</b>	<b>WDEF-TV</b>	<b>Requests power increase to 35.9kw/384m.</b>

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Chattanooga	24	WDDA-LD	Converted to digital from analog ch. 6, 15kw/323m, 35-07-45/85-20-02; CL from Dalton, Ga.
Cumberland Furnace	6	WDHC-LD	See Lebanon, Kentucky.
Ducktown	22	WCTD-LP	Converted to digital, 10.5kw/50m, 34-37-09/84-22-59.
Jackson	15	WDDY-LD	Requests power increase to 15kw/73m, 34-52-19/88-39-93 (Kossuth, Miss.) Granted.
Jackson	32	WANF-LD	Requests power increase to 10kw/117m, 36-04-39/89-29-28 (Dyersburg) Granted.
Memphis	15	W15EA	OFF Feb. 3 <sup>rd</sup> pending transmitter replacement.
<b>Memphis</b>	<b>30</b>	<b>WMC-TV</b>	<b>Proposes reallocation from ch. 5, 515kw/308m, 35-10-09/89-53-10.</b>
<b>Texas</b>			
<b>Austin</b>	<b>33</b>	<b>KVUE</b>	<b>Operating at 50% power since tube failure Feb. 3<sup>rd</sup>.</b>
<b>Brownsville</b>	<b>24</b>	<b>KVEO-TV</b>	<b>Requests STA 500kw/445m; to operate at half power pending antenna repairs.</b>
Bryan	20	K20KJ	Requests power increase to 15kw/130m. Granted.
College Station	3	K03IJ	Requests power increase to 3kw/59m. Granted.
College Station	27	KNXG-LD	Requests STA 1.5kw/423m, 30-33-17/96-01-52; to operate at reduced power pending replacement of damaged transmission line. Granted.
<b>Corpus Christi</b>	<b>26</b>	<b>KRIS-TV</b>	<b>Requests STA 812kw/295m; to operate on new channel at 81% power pending electrical upgrades. Granted.</b>
Corsicana	7	K07AAF	Requests power increase to 3kw/135m; granted.
<b>El Paso</b>	<b>18</b>	<b>KDBC-TV</b>	<b>Requests power increase to 1000kw/602m, 31-48-55/106-29-22.</b>
Houston	6	KCVH-LD	From 30, 3kw/407m; granted & moved.
Kerrville	11	KVHC-LD	Returned to the air Feb. 15 <sup>th</sup> at new site; 3kw/118m, 29-37-19/98-34-14.
McAllen	27	KRZG-CD	OFF Feb. 9 <sup>th</sup> , transmission line issues.
McAllen	34	KSOY-LD	From 44, 15kw/418m; granted.
Midland	24	KEOO-LD	Requests power increase to 15kw/243m, 32-05-51/102-17-23.
Victoria	29	K29OH	From K22JW, 15kw/255m, 28-53-23/96-21-42; displaced by KTMD. Granted.
<b>Tlaxcala</b>			
Huamantla	21	XHCTPU	4kw/-75m, 19-17-12/97-54-56
<b>Utah</b>			
Logan	17	K17II	Granted power increase to 951 watts/548m, 41-33-04/111-56-13.
<b>Washington</b>			
Colville	9	K09UP	OFF Jan. 15 <sup>th</sup> , reason unknown, unable to reach site due to weather.
Vancouver	31	KEVE-LD	Granted power increase to 15kw/395m, 45-31-13/122-44-41; power increased.
Yakima	36	KWYT-LD	Granted power increase to 15kw/216m.
<b>West Virginia</b>			
Clarksburg	22	W22CY	OFF July 28 <sup>th</sup> pending repack construction at WVFX.
Fairmont	10	WVUX-LD	Requests STA 1.25kw/139m, 39-16-35/80-17-37; temporary tower as current one is mechanically failing. OFF Jan. 21 <sup>st</sup> . Displaced from existing channel 13; has permit to move to channel 10 on existing tower, but it's not safe to climb that tower to change the antenna. WVUX can return to the air once the above STA is approved.

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
<b>Wisconsin</b>			
Wausau	31	W31EV	Requests power reduction to 1.2kw/21m, 44-40-32/89-39-12.
<b>Wyoming</b>			
<b>Casper</b>	<b>8</b>	<b>KPTW</b>	<b>Requests power reduction to 11.5kw/568m.</b>
Cheyenne	26	KFWY-LD	Calls changed from K26KR.
<b>Laramie</b>	<b>8</b>	<b>KWYP-DT</b>	<b>Requests power increase to 64kw/309m; granted.</b>

As always, thanks to Raymie Humbert for information from Mexico. (Other information, unless otherwise noted, comes from the FCC and Industry Canada.)

### **ATSC 3.0 SCORECARD**

#### West Palm Beach, Florida:

WWHB-CD 33: ATSC 3.0 host carrying WPEC, WPTV-TV, WFLX, and WPBF.  
WTVX 20: ATSC 3.0 guest carrying WWHB 48.1 Azteca.  
WPTV-TV 12: ATSC 3.0 guest carrying WWHB 48.2 Charge!  
WFLX 35: ATSC 3.0 guest carrying WWHB 48.3 Stadium.  
WPBF 16: ATSC 3.0 guest carrying WWHB 48.4 Rewind TV.

#### Saginaw, Michigan:

WBSF 23: ATSC 3.0 host carrying WEYI-TV, WNEM-TV, and WSMH.  
WEYI-TV 18: ATSC 3.0 guest carrying WBSF 46.  
WNEM-TV 30: ATSC 3.0 guest carrying WBSF 46.  
WSMH 16: ATSC 3.0 guest carrying WBSF 46.

#### Charleston, South Carolina:

WGWG 34: ATSC 3.0 host carrying WCBD-TV, WCIV, WCSC-TV, and WTAT-TV  
WCBD-TV 20: ATSC 3.0 guest carrying WGWG 4.4 Start TV.  
WCIV 25: ATSC 3.0 guest carrying WGWG 4.3 Antenna TV.  
WCSC-TV 19: ATSC 3.0 guest carrying WGWG 4.2 Decades.  
WTAT-TV 17: ATSC 3.0 guest carrying WGWG 4.1 Heroes & Icons.

#### Richmond, Virginia:

WUPV 8: ATSC 3.0 host carrying WWBT  
WWBT 10: ATSC 3.0 guest carrying WUPV 65.

K26KC Dallas has filed something relating to ATSC 3.0; a FCC computer failure isn't showing *what* was filed.

### **OOPS**

March 27, 2015: XHCTCY Celaya, Guanajuato authorized a relay on ch. 38 at Cd. Hidalgo, Michoacán.  
Aug. 3<sup>rd</sup>, 2015: XHTCM Zitácuaro, Michoacán authorized a relay on ch. 46 at Cd. Hidalgo.  
Oct. 20<sup>th</sup>, 2015: XHCTCY relay authorized to move to ch. 15.  
Apr. 25<sup>th</sup>, 2018: XHTCM relay authorized to move to ch. 15.

Yes, this means there were permits for two stations on the same channel in the same city. Yes, XHCTCY complained. The XHTCM relay has been reassigned to channel 14.



## NEW STATIONS

Plans are being firmed up for the auction of 27 full-power TV permits. For the most part, these are channels that were freed up when existing stations shut down & surrendered their licenses, or permits for new stations expired without construction. In two cases, firms successfully petitioned for the assignment of new channels. In one case, a station sold its channel to the government in the incentive auction – but the channel was not used and is now being resold.

The auction is scheduled to begin on June 7<sup>th</sup>. It is expected to continue until there is a round in which no new bids are submitted. (if past auctions are any indication, it'll take about a week)

The permits on sale:

Location	Channel	Previous use
Fairbanks, Alaska	7	KFXF
Flagstaff, Arizona	32	KCFG
Yuma, Arizona	11	KSWT
Eureka, California	17	KVIQ
Idaho Falls, Idaho	20	
Sun Valley, Idaho	5	KIDA
Freeport, Illinois	9	None
Alexandria, Minnesota	7	KCCO-TV
Butte, Montana	24	KBTZ
Great Falls, Montana	26	KLMN
Havre, Montana	9	KBBJ
Ely, Nevada	27	
Tonopah, Nevada	9	
Winnemucca, Nevada	7	KWNV
Carlsbad, New Mexico	19	KOCT
Silver City, New Mexico	10	KOVT
Silver City, New Mexico	12	KOBG-TV
Syracuse, New York	15	WNYS-TV
Grand Forks, North Dakota	27	KCPM
Aberdeen, South Dakota	9	KABY-TV
Price, Utah	11	
Vernal, Utah	16	
Walla Walla, Washington	9	KCWK
Eagle River, Wisconsin	26	None
Wittenberg, Wisconsin	31	WFXS
Jackson, Wyoming	11	KBEO
Sheridan, Wyoming	7	KSWY

# FM Facility Changes

## Abbreviations:

<b>AF- New Station Applied For</b>	<b>NS-New Station Permit Granted</b>	<b>RA&gt;Returns to the Air</b>
<b>Aux- Auxiliary Backup Transmitter</b>	<b>NW-New Station on the Air</b>	<b>ROA-Request of Applicant</b>
<b>CC- Call Change</b>	<b>PC-Power/Height Change Granted</b>	<b>XG-new site granted</b>
<b>CL-City of License</b>	<b>PG-Power Change Granted</b>	<b>XC-transmitter site changed</b>
<b>CX-Canceled</b>	<b>QG-Frequency Change Granted</b>	<b>PR/QR-Power or Freq requested</b>

## March 2022

AL Auburn 104.5 W266BJ PC>250w/143m, 32-40-04/85-33-01 (WAUE-100.3 Waverly studio feed)	AZ Show Low 91.3 KSHM PG>50kw/107m, 34-20-26/110-15-24
AL Carbon Hill 90.7 NEW-763860 NS 27.5kw/113m, 34-00-00/87-25-08 (Elijah Radio)	AZ Sun City 90.7 K214DN PC>250w/260m, 33-35-39/112-05-11 (KAIZ-105.5 Avondale OTA)
AL Carbon Hill 90.7 WJLL CC for NS	AR Eudora 89.1 KDCY CC for NS
AL Hamilton 90.1 NEW-768230 NS 3.5kw/92m, 34-06-46/88-01-25 (BIG SOUTH COMMUNITY BROADCASTING)	AR Osceola 107.3 KQXF Returned to the air Feb. 4th.
AL Huntsville 90.1 WJOU PG>33kw/74m	BC Salt Spring Island 102.1 NEW NS 18w/635m, 48-46-00/123-30-32; to relay new 107.9.
AL Sawyerville 90.1 NEW-767542 NS 10kw/112m, 32-45-07/87-54-25 (National Association for the Prevention of Starvation)	BC Salt Spring Island 107.9 NEW NS 850w/220m, 48-50-56/123-31-25; community station.
AK Anchorage 92.1 NEW-774568 PA 2w/215m, 61-04-01/149-44-45 (Alaska Broadcast Television) Referred to in the same application as a commercial allocation, a non-commercial station, and a translator. Applicant is licensee of KABN-960 and K253CQ Kenai; and KCFT-CD 35 Anchorage.	CA Atwater 90.7 KZCF QG from 91.5, 10kw-H/30m, 37-17-40/120-28-36
AK Anchorage 99.5 NEW-774569 PA 2w/215m, 61-04-01/149-44-45 (Alaska Broadcast Television) Referred to in the same application as a commercial allocation, a non-commercial station, and a translator. Applicant is licensee of KABN-960 and K253CQ Kenai; and KCFT-CD 35 Anchorage.	CA Carmel Valley 91.3 KZBV PG>70w/375m, 36-29-23/121-47-12
AK Cold Bay 105.1 KAVM PG 90w/-49m, 55-12-24/162-42-53	CA Fairfield 91.5 KASK PG>170w/213m, 38-19-09/121-59-35
AK Fairbanks 88.3 KZLR Returned to the air Jan. 13th.	CA Glenhaven 91.1 NEW-766076 NS 100w/1m, 39-02-35/122-46-01 (One Ministries)
AK Fairbanks 90.7 KCBR NS 10kw/469m, 64-52-43/148-03-22 (Christian Broadcasting)	CA Los Angeles 97.1 KNX-FM CC from KNOU
AK Noorvik 94.3 K232DV NW 250w-V/10m, 66-50-08/161-02-35 (KYKD-100.1 Bethel via Internet)	CA Monterey 89.5 K208GE QC back from K207FE-89.3, 49w-V/770m (KNVM-89.7 Prunedale OTA)
AK Soldotna 92.5 K223DG NW 250w/69m, 60-31-24/151-03-31 (KSRM-920 studio feed)	CA Monterey 93.5 K228FD PC>130w/314m (KLVM-88.9 Santa Cruz OTA)
AK St. GAge 93.3 NEW-203737 LC 90w/5m, 56-36-03/169-32-37 (PRIBILOF SCHOOL DISTRICT)	CA Oxnard 92.1 NEW-773943 PA dismissed
AZ Apache Junction 90.7 KRDP CC from KVIT	CA Palm Desert 95.5 K238AK PC>45w/196m (KRCK-FM 97.7 Mecca via microwave)
AZ Ash Fork 99.7 KAFZ OFF Feb. 7th, first due to change in Internet carrier but then transmitter failed.	CA Sacramento 107.9 NEW-762478 NS 50kw/122m, 38-42-38/121-28-58
AZ Catalina Foothills 101.1 KXKR QG from 101.7, 11.5kw/-3m, 32-11-13/110-55-01	CA San Diego 97.3 KWFN PG 38kw/152m, 32-43-48/117-05-06
AZ Chandler 88.7 KVIT CC from KPNG	CA Santa Rosa 107.9 K300AO PC>250w/322m, 38-25-07/122-40-37 (KHTH-101.7 OTA)
AZ Lake Havasu City 102.3 KJJJ-FM1 NW 600w-V/747m, 34-33-00/114-11-41	CO Aspen 90.1 K211GD QG from K210BO-89.9, 13w-V/268m, 39-13-15/106-48-51 (KLXV-91.9 Glenwood Springs OTA)
AZ Lake Havasu City 106.3 K292GC QC from K294BV-106.7, 160w-V/743m, 34-33-00/114-11-41 (KJJJ-102.3 Laughlin, Nev. via microwave)	CO Boulder 101.7 K269AE OFF Dec. 30th, tower damaged by wildfire.
AZ Lake Havasu City 94.3 K232EI NW 250w-V/742m, 34-33-00/114-11-41 (KNTR-980 via microwave)	CO Buena Vista 90.3 NEW-766822 NS 250w/341m, 38-44-44/106-11-55 (San Tan Educational Media)
	CO Denver 99.1 K256CT QG from K210EC-89.9, 99w/229m, 39-43-46/105-14-10 (KGNU-1390 via Internet)
	CO Durango 106.7 K294AJ OFF Feb. 14th
	CO Durango 107.7 K299AJ OFF Feb. 14th
	CO Estes Park 88.7 K204GT QC from K258BE-99.5, 4w/20m (KLZV-91.3 Brush via Internet)
	CO Fleming 100.1 KRFD PG>70kw/150m, 40-31-57/103-07-24
	CO Fort Collins 106.3 K292GK PG>180w/332m (KTLF-90.5

COrodo Springs via Internet)  
 CO Hugo 92.3 NEW-762662 NS 3.5kw/73m, 39-16-30/103-30-38 (ScarboroughRadio)  
 CO Lake GAge 88.3 K202EQ PG 50w-V/618m, 39-03-01/105-30-52 (KTLF-90.5 COrodo Springs via Internet)  
 CO Loghill Village 91.3 KD VW-FM CC for NS  
 CO Nucla 90.5 K213BX OFF Jan. 2nd, probably due to loss of satellite link.  
 CO Pueblo 101.9 K270CM PG>250w/165m, 38-22-22/104-33-39 (KKPC-1230 via Internet)  
 DE Christiana 89.1 WXHL-FM PG>2.5kw/20m, 39-40-38/75-39-46  
 DE Middletown 91.9 WXHM PG 600w/97m, 39-26-38/75-43-23 (Emmanuel Baptist Church of Hebron)  
 FL Callaway 90.3 NEW-765522 NS 25kw/208m, 29-49-09/85-15-34 (DESTINY WORSHIP CENTER)  
 FL Cross City 97.7 NEW-762571 NS 25kw/77m, 29-44-18/82-51-26  
 FL Fort Myers 91.9 WMYE PG>1.25kw/221m  
 FL Inglis 104.3 WXZC PG<5.7kw/112m  
 FL Key WV 89.9 WKWR QG from 90.1  
 FL Marathon 94.3 WGMX OFF Jan. 19th, no electrical power at site.  
 GA St. Marys 94.3 W232DA Returned to the air Feb. 2nd.  
 GA Sylvester 102.1 WJST CC from WPFQ  
 HI Holualoa 90.1 NEW-767585 NS 35kw/932m, 19-42-44/155-54-49 (Advance Public Radio)  
 HI Kahului 88.3 NEW-767598 NS 850w/772m, 20-39-26/156-21-36 (Advanced Public Radio)  
 ID Hayden 89.1 NEW-762602 NS 1.5kw/616m, 48-04-42/116-42-46 (Hayden Christian Broadcasting Corporation)  
 ID Ido Falls 90.5 KAIO PG 500w-V/161m, 43-32-36/111-53-13; PC (KYRA-92.7 Thousand Oaks, Cal.)  
 ID Moyie Springs 90.7 NEW-766240 NS 140w/860m, 48-36-38/116-15-28 (Upper Columbia Corporation of Seventh-day Adventists)  
 ID New Plymouth 93.1 KBOI-FM CC from KTIK-FM  
 ID Salmon 88.3 NEW-762195 NS 250w/845m, 45-08-44/114-00-19 (IDO STATE BOARD OF EDUCATION)  
 ID Silver City 103.9 KCNU OFF Feb. 4th, unknown reason.  
 Unable to reach site.  
 IL Elmhurst 102.3 W272DQ PG>90w/84m, 41-50-33/88-00-09 (WCKG-1530)  
 IL Elmwood Park 94.3 WAVE-FM1 PG<900w/55m, 41-55-36/87-48-24  
 IL Mt. Carmel 94.9 WYNG Returned to the air at reduced power Jan. 13th.  
 IL Princeton 90.7 WZIV PG>8kw/96m  
 IN Clinton 93.7 WPFR-FM OFF Jan. 12th, tower being disassembled.  
 IN Clinton 93.7 WPFR-FM PG 1.95kw/178m, 39-30-14/87-26-37  
 IN Lebanon 102.7 W274CI NW 99w/62m, 40-02-10/86-27-27 (WILO-1570 Frankfort via W245CO)  
 IN Muncie 91.3 WCRD CC from WWHI  
 IN Oolitic 88.9 WMYJ-FM OFF Feb. 1st, borrowed equipment for use at other station.

IN Pendleton 91.7 WEEM-FM XG 39-59-48/85-44-08  
 IN Richmond 89.3 WKRT PG 6kw/55m, 39-52-06/84-47-50; PC  
 IN Seelyville 95.9 WHLR CC from WVIG  
 IN Shelbyville 106.3 W292FH NW 170w/102m, 39-51-45/85-44-40 (WSVX-1520 via microwave)  
 IN Terre Haute 99.9 WTHI-FM PG<38kw/145m, 39-27-28/87-28-50  
 IN WV Terre Haute 105.5 WVIG CC from WZJK  
 IA Adel 88.5 KIHS PG>12.5kw/57m  
 IA Des Moines 88.1 KDPS PG<5.2kw/85m, 41-35-02/93-38-30  
 IA Huxley 99.3 KVDI CC from KTIA-FM  
 IA Mason City 89.3 NEW-768480 NS 150w/68m, 43-08-06/93-12-29 (St. Gabriel Communications)  
 IA Osage 89.7 NEW-762430 NS 25kw/85m, 43-21-52/92-51-05 (MN-IA Christian Broadcasting)  
 KS Carbondale 107.7 KMAJ-FM PG>100kw/235m  
 KS Colby 89.1 KGOH CC for NS  
 KS Emporia 90.7 KEKL CC from KHLR  
 KS Junction City 88.3 NEW-768199 NS 1kw/51m, 39-00-48/96-52-41 (ST. THERESE RADIO)  
 KS Lewis 103.5 K278AP PG 250w-V/49m, 37-55-47/99-20-18 (KPRD-88.9 Hays OTA)  
 KY Corbin 88.5 WEKC CC from WEKF  
 KY Garrison 98.3 WFHT CC from WZGR  
 KY Hopkinsville 93.9 W230DH PG>100w-V/59m, 36-55-41/87-32-50 (WHOP-1230 via Internet)  
 KY Madisonville 93.1 W226CV QC from W286AM-105.1, 250w/66m, 37-21-47/87-30-56 (WKMD-90.9 studio feed)  
 KY Munfordville 102.3 WLLI CC from WBVA  
 KY Prestonsburg 105.3 WXKZ-FM PG 1.55kw/199m, 37-39-57/82-48-10  
 LA Arabi 89.5 K208FC PC>10w/225m, 29-57-01/90-04-16 (WZXX-88.5 Lawrenceburg, Tenn. via Internet)  
 LA Delhi 89.1 KDCI CC for NS  
 LA New Roads 98.5 K253CM PG<250w/48m, 30-44-08/91-25-59 (KCLF-1500 OTA)  
 ME Benedicta 89.3 WRPB PG>9kw/165m (WMDR-FM 88.9 Oakland)  
 ME Farmington 99.3 WKTJ-FM PC>4.1kw/123m, 44-39-19/70-11-49  
 ME Frenchville 88.3 NEW-762381 NS 25kw/101m, 47-15-30/68-33-28 (Maine Public Broadcasting Corporation)  
 ME Island Falls 91.1 NEW-768784 NS 300w/157m, 46-01-27/68-15-08 (Light of Life Ministries)  
 ME Lewiston 93.9 WARX Returned to the air Jan. 21st.  
 MA Fall River 93.7 W229DC PG>250w/85m, 41-42-43/71-07-37 (WHTB-1400 via Internet)  
 MA Lee 88.1 NEW-768412 NS 10w-H/400w-V/-40m, 42-17-55/73-17-26  
 MA Turners Falls 93.9 WRSI NW 1.1kw/109m, 42-32-01/72-35-32; to use former ME as aux.  
 MI Carleton 89.5 NEW-768244 NS 1.55kw/61m, 41-56-18/83-28-55 (Smile FM)  
 MI Leroy Township 88.1 WLGH PG<1w-H/33kw-V/174m  
 MI Mount Forest 91.9 WSMO PG 1w-H/6kw-V/88m, 43-42-16/84-00-37

MI Powers 107.3 WUPF PG>50kw/130m, 45-38-41/87-22-35  
MI Riverside 88.7 WSIS PG>50kw/117m, 42-15-14/86-20-10  
MI Rockland 88.5 NEW-767787 NS 900w/132m, 46-41-59/89-13-54 (Gospel Opportunities)  
MN Alexandria 90.3 NEW-766418 NS 15kw/176m, 47-41-21/91-54-19 (Elemental Public Media)  
MN Babbitt 90.9 NEW-768676 NS 250w/1m, 45-52-41/95-22-47 (We Have This Hope Christian Radio)  
MN Baudette 89.9 NEW-768669 NS 14.5kw/123m, 48-41-28/94-41-44 (Elemental Public Media)  
MN Duluth 103.3 WDSE-FM CC from KUMD-FM  
MN MTeveideo 98.3 K252GF NW 250w/36m, 44-56-03/95-44-48 (KDMA-1460)  
MN Pine City 106.5 W293DA PC<250w/68m, 45-54-10/92-57-34 (WCMP-1350)  
MN Red Lake 105.3 WRLN NW 100kw/192m, 47-49-55/95-25-02  
MN St. Joseph 99.9 KCML PC>12kw/143m  
MN VAinia 88.3 NEW-768432 NS 100w/125m, 47-29-20/92-31-12 (Park Public Radio)  
MN Walker 96.3 K242AY OFF Dec. 27th pending installation of new diplex equipment.  
MS Brandon 104.3 WPBP-LP QG from 104.5  
MS Bruce 104.7 NEW-774730 PA 360w/60m, 33-59-56/89-20-37  
MS New Albany 101.5 NEW-762447 PG 6kw/82m, 34-32-06/89-05-13  
MS Richton 96.5 WBBL CC from WXHB  
MO Adrian 88.9 KYLF PG>37.5kw/138m  
MO Oran 90.5 KCGR PC>2.8kw/73m (KSIV-FM 91.5 St. LAs)  
MO Osage Beach 93.5 KRMS-FM CC from KMYK  
MO Poplar Bluff 91.7 KPBR PG>2.75kw/74m  
MO Rosebud 89.3 NEW-768982 NS 1.5kw/102m, 38-29-19/91-32-13 (Lake Area Educational Broadcasting Foundation)  
MO Steelville 107.3 KRTE-FM CC from KLPW-FM  
MO St. LAs 102.9 KXOK-LP CC from KYGV-LP  
MO St. LAs 106.9 K295CQ PG>99w/300m, 38-34-05/90-19-55 (KXBS-95.5 Bethalto, Ill.)  
MO St. LAs 91.5 KSIV-FM PG>90kw/309m  
MT Browning 88.9 KEOP CC for NS  
MT Butte 91.3 KAPC PG>10kw/571m  
MT Deer Lodge 90.9 KUMD CC for NS  
MT Dillon 91.7 NEW-763853 NS 1kw/-62m, 45-12-33/112-38-17 (The University of Montana)  
MT Eureka 89.7 KEUK CC for NS  
MT Philipsburg 90.1 KPHB CC for NS  
MT Thompson Falls 88.1 KTFZ CC for NS  
MT WV Yellowstone 88.3 NEW-763116 NS 830w/844m, 44-33-40/111-26-34 (Montana State University - BILngs)  
NE Aurora 91.9 KJGS PG>100kw/52m, 40-58-36/97-56-56  
NE Chadron 91.3 K217GM PG 250w/-3m, 42-49-49/102-59-57 (KVSS-102.7 PapILon via satellite)  
NE Culbertson 89.5 NEW-762254 NS 10kw-V/96m, 40-11-26/100-48-28 (Theatre Organ Preservation of Nebraska)  
NE North Platte 90.1 KFJS PG>13.2kw/128m  
NE Shelton 90.5 KQQA PG>10kw/45m

NV CAente 107.7 KCAY CC for NS  
NV Mesquite 88.5 KVID CC from KEKL  
NV Moapa 94.5 KXLI-FM1 NS 600w/965.6, 37-03-50/113-34-28  
NB Campbellton 100.7 CKNB QG from 950 AM, 5.33kw/182m  
NH Chester 107.5 W298CU PG>250w-V/122m, 42-57-48/71-17-21 (WXEX-1540 Exeter via Internet)  
NH Conway 91.1 WMTP PG>800w/273m, 43-48-32/71-12-53  
NJ Cherry Hill 104.1 W281CL PG>130w/73m, 39-56-03/74-53-38 (WPEN-97.5 Burlington OTA)  
NJ Port Norris 107.5 W298DI NW 250w/57m, 39-27-32/75-12-11 (WWAC-1020 Ocean City OTA)  
NJ Vineland 92.9 W225DK NW 100w/90m, 39-29-53/75-04-30 (WMIZ-1270 via Internet)  
NL Grand Falls 93.3 CBT QG from AM 540, 100kw/194m, 49-11-51/55-22-01  
NM Chama 96.1 KXJR PG 2.5kw/78m, 36-53-58/106-36-07; NW  
NM Clovis 98.7 K254DV PG 99w/90m, 34-26-23/103-12-46 (KRBG-88.7 Umbarger OTA)  
NM Espanola 91.1 NEW-767644 NS 13kw/132m, 36-05-52/106-07-19 (Board of Education of the City of Albuquerque)  
NM Gallup 88.1 KGGA PG>1.2kw/348m, 35-36-15/108-40-53  
NM Milan 89.5 KVLK OFF Feb. 9th  
NM Questa 91.3 NEW-768715 NS 3kw/-99m, 36-39-24/105-38-01 (Northern New Mexico Radio Foundation)  
NM Ruidoso 91.3 KWRI CC from KKL B  
NM San Mateo 88.7 NEW-767295 NS 70w/819m, 35-15-10/107-35-48 (Cheyenne Broadcasting Foundation)  
NM Truth or Consequences 88.7 KRTC CC from KBWK  
NY Au Sable 97.9 WSNO-FM CC from WXMS  
NY Brockport 103.1 W276DZ OFF Dec. 9th, transmitter removed for use at W289CX.  
NY Bronxville 103.9 WFAS-FM CC from WNB M  
NY Cambridge 105.1 W286DI OFF Jan. 7th, transmitter issues & weather makes travel to site impossible.  
NY Delhi 100.3 WDHI Returned to the air Jan. 4th.  
NY Garden City 92.7 WFME-FM CC from WQBU-FM  
NY Glen Spey 89.5 WUUA OFF Feb. 1st, reason not given.  
NY Hilton 107.9 W300DG OFF Jan. 10th; metal object installed near antenna caused malfunction & safety hazard.  
NY Lake GAge 89.3 WGOR CC for NS  
NY Limestone 98.7 W254BQ PG 250w/-102m, 41-57-22/78-38-47 (WQRS-98.3 Salamanca via Internet)  
NY Mount Kisco 106.3 WYMK CC from WFME-FM  
NY New York 107.9 W300EI PG 99w/84m, 40-42-19/74-00-33 (WJDM-1520 Mineola OTA)  
NY Olean 98.7 W254BQ OFF Dec. 17th, technical reasons.  
NY Potsdam 100.1 W261CJ PG<40w/151m, 44-35-56/74-46-23 (WPDM-1470 via Internet)  
NY Redwood 98.5 W258CU OFF Feb. 1st pending relocation.  
NY Riverhead 104.9 W285FX OFF Jan. 5th, primary station WFTU-1570 transmitter failure.  
NY White Plains 98.3 W252DX OFF Jan. 26th.  
NC Dillsboro 95.3 WWCU LC 1.05kw/241m  
NC Fayetteville 102.1 W271DR NW 10w/177m, 35-03-35/78-59-23 (WKV-107.3 Clinton OTA)  
NC Greensboro 92.7 W224CO NW 250w-V/83m, 36-03-42/79-

47-34 (WPET-950 studio feed)  
 NC Harrisburg 92.7 WFNZ-FM CC from WQNC  
 NC Mars Hill 90.5 WYQS PG>750w/308m, 35-39-54/82-30-06  
 NC Monroe 94.3 W232DI PG>38w/84m, 34-58-58/80-32-12 (WDZD-LP 99.1 OTA)  
 NC Murphy 88.5 WMQS PG>2kw/199m, 35-07-37/84-01-35  
 NC Pilot Mountain 89.7 WGIW PG>990w/121m  
 NC Sanford 101.9 W270AW Returned to the air Jan. 19th.  
 NC Swan Quarter 88.5 WHYC OFF Jan. 9th, unspecified technical problems.  
 NC Tarboro 96.3 W242DG NW 125w/97m, 35-54-11/77-46-56 (WCPS-760 OTA)  
 NC Winston-Salem 88.9 W205CP PG>250w-V/93m, 36-05-25/80-15-05  
 ND Grand Forks 95.3 K237ER PC 170w/110m (KLDQ-100.7 Harwood OTA)  
 OH Bellaire 100.5 WUKL CC from WBGI-FM  
 OH London 106.3 WHTD CC from WBMO  
 OH New Paris 91.9 NEW-767252 NS 120w/53m, 39-52-06/84-47-50 (EDUCATIONAL MEDIA FOUNDATION)  
 OK Bartlesville KKL B CC from KWRI  
 OK Coweta 88.1 KTUA CC from KDIM  
 OR Portland 97.5 K248DD PC<155w/279m (KBMS-1480 Vancouver, WA. via Internet)  
 PA Athens 107.7 W299CM PG>250w/123m, 42-03-48/76-31-27 (WTTC-1550 Towanda via microwave)  
 PA Bedford 91.1 WCOX CC from WUFR  
 PA Bedford 91.1 WCOX PG>4kw/398m, 40-17-24/78-33-45  
 PA Chambersburg 93.3 WYPM QG from 102.9, 350w/412m, 40-03-00/77-44-51  
 PA Du Bois 101.7 W269EC PG 250w/38m, 41-02-44/78-42-11 (WCOH-FM 107.3 via microwave); PC  
 PA Evan's Falls 89.1 NEW-768744 NS 4w/220m, 41-27-07/76-00-32 (Telikoja Educational Broadcasting)  
 PA Freeland 89.3 W207AG OFF Feb. 3rd pending relocation.  
 PA Greensburg 105.1 W286CZ OFF Jan. 28th, technical difficulties.  
 PA Hazleton 88.3 NEW-766931 NS 400w/247m, 40-51-00/76-06-55 (Calvary Chapel Bible Broadcasting)  
 PA Hazleton 88.3 WTWH CC for NS  
 PA Mainesburg 89.1 WDFS CC for NS  
 PA Mechanicsburg 93.5 WTPA-FM CC from WZCY-FM  
 PA Montoursville 105.7 W289CV PG<250w/114m, 41-16-50/76-50-03 (WILQ-105.1 Williamsport OTA)  
 PA North East Township 100.9 WRRRI CC for NS  
 PA Pittsburgh 88.7 W204CT PG>130w/198m (WPKV-98.3 Duquesne OTA)  
 PA State College 101.5 W268BB PG>69w/142m (WZWW-95.3 Bellefonte via Internet)  
 PA State College 102.3 W272EN QG from W269BZ-101.7, 10w/269m (WJRC-90.9 Lewistown OTA)  
 PA Williamsport 107.9 WOTH PC 3.4kw/135m, 41-16-50/76-50-03  
 PR Fajardo 97.3 WOYE-FM2 PG 200w, 18-16-43/65-40-12  
 QC Aguanish 105.9 CBSI-FM-n NS 294w/3m;  
 RI Portsmouth 90.7 WNP K CC from WJHD

SC Charleston 102.9 WBEI-LP PG>100w/28m, 32-52-24/79-58-33  
 SC Conway 93.9 WGLD-FM CC from WMIR-FM  
 SD Onida 90.7 KGHW PG>100kw/63m, 44-42-30/100-02-27  
 SD Sisseton 99.5 KJKQ PG 50kw/128m, 45-36-52/97-24-52  
 TX Bowie 92.3 K222AW Returned to the air Jan. 10th.  
 TX Breckenridge 89.9 KQXB OFF Dec. 1st, transMson line damaged by lightning.  
 TX Burke 97.7 KAGZ PG>32kw/166m, 31-21-39/94-38-55  
 TX Corsicana 107.3 K297CE QG from K300DS-107.9, 250w-H/12m, 31-56-13/96-24-58 (KATG-88.1 Elkhart OTA)  
 TX Giddings 96.3 KGID PG<175w/46m, 30-11-17/96-54-20  
 TX Gonzales 92.5 K223CZ PG>99w-V/1m, 29-29-58/97-27-10 (KCTI-1450 via Internet)  
 TX Marathon 91.5 KDKY OFF Aug. 29th, transmisson line cut during construction.  
 TX Menard 105.3 KTCY PG>250w/-22m, 30-55-49/99-46-48  
 TX Odessa 101.7 K269FG PG<140w/113m (KFLB-FM 88.1 Stanton OTA)  
 TX Pampa 91.7 NEW-766512 NS 100w/97m, 35-31-03/100-58-07 (LIBERTAD EN CRISTO MINISTRIES)  
 TX Sand Springs 97.3 K247AZ OFF Dec. 10th, antenna damage. Returned to the air Feb. 9th.  
 TX WV 96.7 K244FC PG<100w/87m, 31-53-51/97-05-37 (KWBT-94.5 Waco OTA)  
 UT Navajo Mountain 103.5 KPGX OFF Jan. 31st, antenna failure possibly due to ice.  
 UT Tabiona 88.1 NEW-762609 NS 500w/323m, 40-15-17/110-35-19 (University of UT)  
 VT Roanoke 89.1 WVTF PG 98kw/606m, 37-11-57/80-08-59  
 VA Richmond 102.5 W273BB PC>220w/114m, 37-36-52/77-30-55 (WKLR-96.5 Fort Lee OTA)  
 VA Strasburg 104.9 WVRX CC from WKDV-FM  
 VA Suffolk 106.9 WAFX PG<47kw/155m, 36-50-05/76-16-09  
 WA Bellingham 88.3 NEW-762145 NS 2kw/-14m, 48-44-51/122-28-45 (KULSHAN COMMUNITY MEDIA)  
 WA Benton City 90.5 KQBC PG>1kw/290m  
 WA Brewster 99.3 K257DN PC>250w-V/-103m, 48-04-00/119-48-46 (KNCW-92.7 Omak OTA)  
 WA Chehalis 104.3 KMNT PG>2.4kw/324m  
 WA Deer Park 95.3 KPND PG 100kw/572m, 47-39-36/116-57-15  
 WA Eatonville 90.1 NEW-762156 NS 400w/-15m, 46-54-16/122-19-39 (CHEHALIS VALLEY EDUCATIONAL FOUNDATION)  
 WA Mesa 104.5 KZJJ CC for NS  
 WA Oakville 97.7 KNWN-FM CC from KOMO-FM  
 WA Othello 101.5 K268DM PG>250w/239m, 46-45-53/119-16-58 (KRSC-1400 via Internet)  
 WA Packwood 89.1 NEW-766725 NS 500w-H/446m, 46-37-27/121-23-17 (The Interest Compound)  
 WA Tacoma 89.7 K209GA OFF Feb. 9th  
 WA Wilkeson 89.7 NEW-762166 NS 110w/-38m, 47-08-22/122-02-51 (CHEHALIS VALLEY EDUCATIONAL FOUNDATION)  
 WV Bethlehem 105.5 WBGI-FM CC from WUKL  
 WI Baraboo 105.9 W290AL OFF Feb. 13th, equipment failure.  
 WI Ixonia 89.1 NEW-769060 NS 7.5kw/41m, 43-09-25/88-37-48 (Call Communications Group)

Continues on page 6

# SIGN UP & Renewal Form

## YEARLY DUES \$10.00 USD For Monthly VUD E-ZINE

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I enclose \$ \_\_\_\_\_ for \_\_\_\_\_ years membership.

**Mail your dues to: WTFDA, P.O. Box 501, Somersville, CT USA 06072**  
**Make your checks or money orders payable to WTFDA**  
**Note: Memberships cannot be processed without a valid email address.**  
**Thanks for your support of the WTFDA!**

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Go to <https://www.wtfda.org>

Click on the menu item Login (Priv.)

Enter the word edison for your username.  
 Enter the word veronica for your password.  
 Make sure both are completely in lower case.

When the "index of /Members" box appears, right click on the VUD filename and download it and save it to your computer.

\*Your password will not change unless we tell you and we will give you all advance notice if we need to change it.

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**The Worldwide TV-FM DX Association**

<https://www.wtfda.org>

### What is the WTFDA?

The Worldwide TV-FM DX Association caters to the TV and FM DXers. The term "DX" means "distant" television signals, with a goal of obtaining the most distant line-of-sight mode, no matter how far. We help you push the reception boundaries with better antennas and equipment.

DXing is a hobby that one can do by himself, but many of us like to share it. This is where the WTFDA comes in. WTFDA is a group of around 200 folks who, when you start with the WTFDA, you immediately know that you are in good company. We'll help you get started, we'll guide you along. If you're an old timer, we'll help you hear and see new distant stations and above all, have fun doing it.