



TV REPACK ON THE HORIZON

**NEW SDR CAN CAPTURE ENTIRE FM BAND!
(BRING A FAST COMPUTER)**

The Official Publication of the Worldwide TV-FM DX Association



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THE WORLDWIDE TV-FM DX ASSOCIATION

Serving the UHF-VHF Enthusiast

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: DOUG SMITH, KEITH MCGINNIS AND MIKE BUGAJ.



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The Mailbox

PAGE TWO

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Mike Bugaj - Enfield, CT mikeb@wtfda.org



APRIL 2017

Dues Received

DATE	NAME	S/P	EXP
2/23/2017	Garth Jensen	ON	3-18
2/27/2017	Roosevelt Crawford	KS	1-18
2/27/2017	Lee Baca	CA	2-18
2/28/2017	Joe Perge	OH	3-19
2/28/2017	Gerard Hart	NY	3-18
3/1/2017	Luis Francesshi Seda	PR	3-18
3/3/2017	Jeff Wolf	MD	2-18
3/3/2017	Koehler Russo Ent.	FL	3-19
3/9/2017	Dave Nieman	NY	3-19
3/17/2017	Paul Crego	NY	3-18
3/18/2017	Allan Dunn	MA	3-18
3/18/2017	Partick Jeffery	NH	3-18
3/19/2017	Frank Merrill	IL	2-18
3/19/2017	David Cox	AL	3-18

Thanks everyone for supporting the WTFDA and thanks to Frank at Koehler Russo Enterprises for joining for two years!

NRC/IRCA Convention

From Mike Sanburn of the IRCA..."The 2017 Decalomania/I.R.C.A./N.R.C Convention will be held Thursday August 17-Saturday August 19 (checking out on Sunday) at the Best Western Airport Plaza hotel, 1981 Terminal Way, Reno NV 89502. For reservations use phone number 775-348-6371 and request International Radio Club of America rate of \$100 per night plus tax. Major credit cards accepted. (Attendees are encouraged to double up, share a room and save). Airlines serving Reno include Alaska, Allegiant, American, Delta, JetBlue, Southwest, United, and Volaris. Amtrak passenger train service is available as well. Registration fee (not including banquet) is \$25 payable to Mike Sanburn, PO box 1256, Bellflower CA 90707-1256. Or, by PayPal (add \$1 to cover fee) mikesanburn@hotmail.com. Include contact info and club affiliation(s) if any. Information on activities, banquet, and station tours will be announced shortly. Visitors information can be found online at www.visitrenotahoe.com.

Although WTFDA is not officially involved with a convention this year, we do know of at least one WTFDA member who said he would be going to Reno this summer.

Repacking Information



Although it's still March and the FCC has not yet published their list of television stations moving or leaving the air, the NAB has been tracking the data and has a searchable list which you can check at:

<http://www.nab.org/repacking/clearinghouse.asp>

You can check by market or by station callsign and get a taste of how TV DXing in your life will change and by this time next month the fog will have lifted and we'll all be certain.

Twenty Four Mhz of Spectrum

Last time we told you of the newest SDR from Elad, the FDM-S3 which is capable of displaying and recording the entire FM band. Elad has released a picture of their new SDR:



It looks much like an S2 but it has a power button on the left side, a headphone jack, a USB light and a couple of other things that the S2 doesn't. At this time they have not determined a price for this product but I'd recommend you start saving your pennies (or selling some of your stock) to be able to buy one when they become available.

MEMBER WEBSITES

Over on the WTFDA website (wtfda.org) we have a page with links to club members' websites (as many as we could find). It has been updated and you'll find links to the following club members' sites:

- Bill Hepburn - <http://www.dxinfocentre.com/>
- Doug Smith - <http://www.w9wi.com/>
- Dan Oglethorpe - <http://www.tvdxtips.com/>

- Mike Bugaj - <http://www.mikesdx.com>
- Trip Ericson - <http://www.rabbitears.info/>
- Chris Kadlec - <http://www.beaglebass.com/dx/>
- Matt Sittel - <http://www.matthewsittel.com/dx/dx.html>
- Ivan Dias - <https://ivandias.wordpress.com/>
- Glenn Hauser - <http://worldofradio.com/>
- Ryan Grabow - <http://www.egrabow.com/dx/>

Besides these folks, there are others who publish their DX photos on YouTube or other photo sharing sites. So, if sometime you find yourself sitting next to a computer with nothing to do, type FM DXing or TV DXing into a search box (duck-duck-go or bing or anything but Google) and see what you find. Google tends to show you the big boy sites while the others tend to show you the smaller sites made by individuals. If in doubt, try more than one.

You can also go to: <http://www.wtfda.org/links2.html> to check them out yourself. Also check out the Memorabilia at wtda.org. There's some nice stuff there.

Mother Nature Versus Ed Phelps

When you have a match like this, guess who wins? On March 1st a massive storm blew through Benton, KY with 80mph straight line winds. Ed's tower and antennas were in the way. You can see the results.



As of this writing the bent mast and broken elements have not yet been repaired. Ed is concentrating on repairing the damage to his garages and sheds first. Hope things get back to normal soon, Ed. Glad nobody was injured.

And for those of us in the northeast, let's hope that springtime returns again in April and then stays. We will see you next month. -Mike

TV News

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April 2017

Abbreviations:

- Aux **A**uxiliary (backup) transmitter
- FTP **F**ailure to **P**rosecute
- ROA **R**quest of **A**pplicant
- STA **S**pecial **T**emporary **A**uthority
- LPDTV **L**ow **P**ower **D**igital **T**V
- DRT **D**igital **R**eplacement **T**ranslator


News:


(full-power digital stations in **bold face**; LPTV and translators in regular type; full-power analog stations in **bold italics**; low-power analog stations in *regular italics*)


<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
			
Alabama			
Decatur	33	W33CM	Requests conversion to digital, 8kw, 34-13-42/86-54-17 (Cullman)
Mobile	42	WMOE-LD	Granted digital conversion from ch. 12, 10kw, 30-36-44/87-38-41
Montgomery	23, 35, 38	KNDV-LD, WUDC-LD, WOFC-LD	Calls changed from W23EO, W35DC, and W38FC.



Alaska			
Fairbanks	7	KFXF	License cancelled

Location	RF Ch	Callsign	Notes
			
Arkansas			
Bentonville	33	KHMF-CA	Granted Special Temporary Authority to operate on channel 33, 2kw in lieu of normal operation on ch. 14, 10.05kw. Required due to adjacent-channel overload of local fire department radios.

			
California			
Ceres	6	K06QL	Granted power increase to 3kw, 37-47-34/120-31-08 (KDJK-FM, Keystone)
Los Angeles	4	KVHD-LD	Requests move from ch. 40, 2.1kw; granted
Novato	11	K11WP	Requests power increase to 39 watts, 37-55-44/122-35-08 (Mt. Tamalpais)
Palm Springs	3	K03IV	Application for new station, 200 watts, 33-51-59/116-26-00 (KMIR-TV tower) (Miriam Media)
Palm Springs	17	KODG-LP	Requests conversion to digital, 15kw
Palm Springs	24	K24LT	Application for new station, 5kw, 33-51-59/116-26-00 (KMIR-TV tower) (Miriam Media)
<i>Petaluma</i>	2	<i>KQRM-LP</i>	<i>Requests site change to 38-16-18/121-30-18 (KXJZ-FM, Thornton)</i>
Petaluma	13	KQTA-LD	Requests power increase to 39 watts, 37-55-44/122-35-08 (Mt. Tamalpais); granted
<i>Sacramento</i>	6	<i>KEFM-LP</i>	<i>Granted site change to 38-43-10/120-59-21 (Pine Hill, Skinners)</i>
San Bernardino	30	KSGA-LD	Converted to digital from analog ch. 64, 1kw, 34-08-33/117-43-17 (Claremont); has filed for ch. 23 at 15kw and a new site
San Diego	21	KDUG-LD	Requests power increase to 10kw, 33-00-32/116-58-19 (Mt. Woodson, Ramona)
San Francisco	3	K03IC	Requests power increase to 2.5kw, 37-55-44/122-35-08; (Mt. Tamalpais) granted & on the air; city changed from Novato. Requests further increase to 3kw.
San Luis Obispo	44	KFUL-LP	Requests conversion to digital, 2kw
Santa Rosa	11	K11WP	Granted site change to 38-19-56/122-35-40 (Sonoma Mtn.); site changed
Twentynine Palms	17	K17GJ	Converted to digital, 435 watts, 34-04-44/115-57-22

			
Chiapas			
Benemerito de las Americas	10	XHCBA-TV	CX
Cintalapa	9	XHLCA-TV	CX

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
Marques de Comillas	10	XHCMC-TV	CX
Palenque	3	XHOLQ-TV	CX
Pichualco	10	XHPCH-TV	CX
Pijijiapan	10	XHCPI-TV	CX



Colorado

Breckenridge	8, 12	K08EM, K12EK	Granted Special Temporary Authority – specifics unknown
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Delaware

Rehoboth	33	WSJZ-LD	Call changed from W33DP
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Florida

Bartow	14	W14DQ	Requests power increase to 15kw, 28-16-44/81-01-24 (Rockledge)
Bartow	36	W36EC	Power increased to 9kw, 27-48-17/81-13-34 (Lake Wales)
Melbourne	20	WSCF-LP	Requests conversion to digital, 8.26kw, 28-09-23/80-38-27; granted
Ocala	18	WQFT-LD	Requests power increase to 6kw, 28-50-35/81-54-54 (Leesburg)









Georgia


Augusta	15, 38	WDDZ-LD, WIFH-LD	Calls changed from W15DZ & W38FH
Columbus	24	WUED-LD	Call changed from W24ED
Savannah	43	WUET-LD	Call changed from W43CY





Hawaii


Lahaina	2	KITM-LD	Requests power increase to 1.2kw
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<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
			
Idaho			
Twin Falls	48	KVUT-LD	Requests power reduction to 1.29kw; granted; call changed from K48OR
			
Indiana			
Evansville	33	WUCU-LD	Calls changed from W33CU
			
Iowa			
Davenport	40	WODF-LD	Call changed from W40DF. Listed as Davenport, Illinois but I can find no record of such a place. Site, however, is in Illinois on the WQAD-TV tower near Orion.
Waterloo	44	K44FK	Requests conversion to digital, 7kw, 42-01-46/92-27-34 (Vining)
			
Louisiana			
Lake Charles	17,	KSWL-LD,	Calls changed from K17KH & K19JB
	19	KWWE-LD	
Opelousas	39	K39JV	Requests conversion to digital, 30-33-26/91-38-27 (Blanks)
			
Michigan			
Midland	25	KSET-LD	Calls changed from W25ET
			
Minnesota			
Albert Lea	40	K40JT	Requests conversion to digital, 15kw, 43-50-53/92-51-41 (Hayfield)
Duluth	17	KQDS-TV	Granted Special Temporary Authority, details unknown


 Location	RF Ch	Callsign	Notes
Mississippi			
Cleveland	17	WFXW-LD	Requests power increase to 15kw
Greenville	15	WXVT	Off the air
McComb	36	W36AC	Requests conversion to digital, 7kw, 30-54-13/90-19-46 (Mt. Hermon, La.)


 Location	RF Ch	Callsign	Notes
Missouri			
Branson	25	KYCW-LD	Power reduced to 630 watts, 37-03-53/93-10-30. Granted increase to 15kw, 37-10-25/92-56-27 (Fordland)
Springfield	15, 19 , 27	KSPR-LD, KGHZ , KULG-LD	Calls changed from KYCW-LD, KSPR , and K27LA


 Location	RF Ch	Callsign	Notes
New Mexico			
<i>Aztec</i>	<i>8</i>	<i>K08FR</i>	<i>License cancelled</i>
<i>Farmington</i>	<i>30</i>	<i>K30KB</i>	<i>License cancelled</i>
<i>Santa Fe</i>	<i>46</i>	<i>K46GY</i>	<i>License cancelled</i>


 Location	RF Ch	Callsign	Notes
New York			
<i>Olean</i>	<i>20</i>	<i>W20AB</i>	<i>Power reduced to 100 watts, 42-03-03/78-25-10</i>
Olean	30	W30BW	Requests conversion to digital, 3.5kw, 42-27-41/78-18-26 (Centerville)


 Location	RF Ch	Callsign	Notes
North Carolina			
Jacksonville	33	W33DM	Requests site change to 35-10-56/77-29-26 (Kinston)
Raleigh	18	W18EH	Requests site change to 35-51-14/78-21-00 (Zebulon)
<i>Wanchese</i>	<i>6</i>	<i>WMTO-LP</i>	<i>Requests site change to 36-31-00/76-09-43 (Moyock)</i>
Wilmington	4	W04DQ	Requests power increase to 3kw, 34-12-49/78-01-53; granted
Wilmington	38, 49	WEJR-LD, WQDH-LD	Calls changed from W38ER & W49DH


<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
			
Ohio			
Loudonville	51	WIVX-LD	Requests power increase to 7kw, 40-44-25/81-54-11; granted; requests change to 3.38kw, 40-59-05/81-41-34 (Doylestown)

			
Oregon			
Bend	29	K29KU	Requests power increase to 7kw, 44-21-06/121-41-26 (Black Butte Ranch); granted
Bend	33	K33AG	Requests conversion to digital, 15kw

			
South Carolina			
Greenville	33	WNGS-LD	Requests power increase to 15kw, 34-56-29/82-24-41 (Paris Mtn.); amended to 1kw
Myrtle Beach	27, 40	WUDI-LD, WYDJ-LD	Calls changed from W27DI & W40DJ

			
South Dakota			
Springfield	33	K33GX	Converted to digital, 7.014kw

			
Tennessee			
Jackson	44, 48, 49, 50	WGDG-LD, WXEB-LD, WQEO-LD, WQEH-LD	Calls changed from W44DG, W48EB, W49EK, and W50EH

			
Texas			
Abilene	13	KXAB-LP	Requests site change to 32-00-26/99-37-03 (Novice)
College Station	49	K49LC	Power reduced to 4.7kw, 30-38-34/96-19-00
Midland	47	KEOO-LD	Calls changed from K47OO

Location	RF Ch	Callsign	Notes
Odessa	6	K06QA	Requests site change to 32-05-10/102-17-10 (KCRS-FM, Midland)
San Antonio	19	KOBS-LD	Requested power increase to 15kw, 29-25-41/98-29-32 dismissed; changing to different site without power increase instead.
Tyler	46	K46KW	Granted power increase to 10kw



Washington

Cle Elum	6	KDMD-LD	Granted power increase to 1kw, 47-18-13/122-23-45 (KTPS-FM, Tacoma)
Spokane	22	KXLY-22135	Granted site change to 47-34-34/117-17-58



Wisconsin

Elk Mound	18	WZRK-LP	Calls changed from WMKQ-LP
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I had expected the forward spectrum auction to close in about a week. I am now hearing that is optimistic. *When* it closes, you will see the results here. At this time it's sounding like that means in the *May* VUD.



Have You Visited Your Database Today?

A database is a collection of information that is organized so that it can easily be accessed, managed, and updated. In one view, databases can be classified according to types of content: bibliographic, full-text, numeric, and images.*



*Definition from WhatIs.com

The WTFDA Searchable Online Database of North American FM Radio Stations is just that. In one view, dxers and FM radio enthusiasts alike can access instant information for FM radio stations in the USA, Canada, Mexico, the Bahamas, the Caymans, Cuba, Haiti, and the Dominican Republic.

<http://db.wtfda.org>
Worldwide TV-FM Dx Association
Searchable Online Database of North American FM Radio Stations

FM Facilities Report

This information is reprinted from Doug Smith's FM News Information posted in the WTFDA Forums <http://forums.wtfda.org>. The WTFDA FM Database is also updated with this information.

Abbreviations:

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

APRIL 2017 (changes during March)

3/7/17-----

ARIZ Catalina Foothills 101.1 KKYZ req. CL from Sierra Vista
ARKA Fort Smith 88.9 KAOW FC; sold to Bott
CALI Adelanto 92.7 KYZA PC>285w/452m, 34-36-44/117-17-30
CALI San Ardo 91.7 KNBX PC 3.04kw/533m, 35-57-04/121-00-03
CALI Victorville 89.5 KLXD PC 1.2kw/433m, 34-36-44/117-17-30
COLO Blanca 98.3 KSBK NW 2.8kw/156m, 37-23-14/105-39-21 (Mainstreet Broadcasting Co.)
GEOR Bostwick 92.3 WMOQ PR>6kw
GEOR Carrollton 92.1 WBTR-FM PR>1.65kw
GEOR Jackson 92.1 WJGA-FM PR>4.7kw
GEOR Savannah 97.3 WAEV NW 12kw/61m, 32-05-24/81-08-47 (aux)
INDI Cururbusco 96.3 WXKE PR 8.4kw/152m, 41-06-24/85-11-46
INDI Jasper 104.7 WITZ-FM NS 50kw/66m (aux)
INDI Morgantown 90.9 WCJL PC 919w-H/12.4kw-V/68m
IOWA Fort Dodge 89.5 KLFG PR>34kw/257m, 42-49-03/94-24-41
KANS Liberal 105.5 KZQD PR>100kw/115m
LOUI Minden 90.9 KKML PG 210w/104m
LOUI Opelousas 107.1 KOGM PC 990w/249m
MICH Flint 88.9 WAKL PG 410w/79m
MONT Bozeman 89.3 KLBZ PR>209m, 45-57-25/111-22-14
NEWY Oneida 106.3 WCIT-FM PG 1.75kw/189m, 43-02-12/75-26-38
NOVA Sydney 95.9 CBAF-FM-14 PC<25.636kw.

Happened when the transmitter was replaced in 2013 but just noticed recently??

OKLA Carnegie 89.5 KJCC PC>23.5kw/119m, 35-21-17/98-13-58
OKLA Carter 88.7 KSYE QR from 88.3, 22kw/114m, 35-22-13/99-37-40; CL from Frederick
OKLA Mooreland 106.1 KBZI PR>50kw

ONTA Blind River 98.5 CBON-6 QR from 1010 AM, 136w/7m, 46-11-22.3/82-57-54.7
ONTA Marathon 102.3 CBON-FM-29 PR>3.862kw/280m
ONTA Marathon 107.5 CBLM-FM QR from AM 1090, 3.935kw/280m, 48-45-11/86-34-53;
also replaces AM station CBEH 1010 Terrace Bay.
PENN Berwick 103.5 WHLM-FM PR 1.05kw/239m, 41-06-50/76-14-17
SOUTH Carolina Beaufort 98.7 WYKZ NW 12kw/61m, 32-05-24/81-08-47 (aux)
SOUTH Carolina Cross Hill 105.1 WGFJ QR from 94.1
SOUTH Carolina Hardeeville 101.1 WLVH NW 8kw/61m, 32-05-24/81-08-47 (aux)
SOUTH Dakota Lowry 91.9 KQSD-FM PC>270m, 45-16-38/99-59-10
SOUTH Dakota Rapid City 90.3 KASD FC; sold to Bott
TENN Etowah 103.1 WJLJ PR 35kw/178m, 35-21-38/84-43-48
TEXA Comstock 99.3 KDER PG>9.8kw/150m, 29-41-32/101-11-00 CX ROA;
remains at 6kw & has applied for larger increase
TEXA Moran 104.1 NEW NS 4.2kw/120m, 32-28-17/99-02-25 (Brazos TV)
UTAH Maeser 92.5 KCUA req. CL from Naples
WASH Hamilton 90.1 KSVU PC>2.05kw
WEST Philippi 91.3 WQAB FC; sold to WVPB
WISC Milwaukee 88.1 WMWK PR>1.8kw/283m
WYOM Diamond Vile 105.3 KDWY Abandons permit to move to 105.5 Oakley, Utah & increase
power; changed the original spelling of the city in the process

ALAB Fish Pond 96.5 W243AP XR 34-44-12/86-31-59; CL from Mooresville; relays WJAB 90.9
ALAB Montgomery 94.1 W231DF NW 250w, 32-22-04/86-15-42; relays WNZZ 950
ARIZ Casa Grande 90.7 K213FG QR from 90.5, 28w
ARIZ Phoenix 92.7 K224CJ PG>250w; relays KDKB 93.3
ARIZ Tucson 103.3 K277CV PR<1w, 32-15-03/110-55-37
ARIZ Wickenburg 91.1 K270BA QR from 101.9, 250w
CALI Los Angeles 101.5 K268DD QG from 96.3, 18w, 34-00-26/118-21-54; CL from Blythe;
relays KTYM 1460
CALI San Francisco 101.7 K269FB PC>75w, 37-47-36/122-24-47; CL from Sausalito
CALI San Francisco 103.3 K277CH PR>99w
CALI Santa Barbara 97.9 K250BS NW 250w, 34-28-15/119-40-33; relays KTMS 990
CALI Santa Rosa 99.1 K258DF QR from 99.5, 250w, 38-25-06/122-40-33
CALI Soledad 105.9 K236AJ QC from 95.1, 8w
COLO Cedar Cove 88.7 K206DB QC from 89.1, 18w; relays KRKY-FM 88.7
COLO Grand Junction 95.5 K238BK PR>99w, 39-03-59/108-44-41

COLO Grand Junction 103.9 K279CB QR from 103.7
 COLO Greeley 92.1 K221GI PG>60w, 40-25-12/104-41-32; CL from Hayden
 COLO Torrington 99.9 K256BT QG from 99.1, 250w, 41-59-41/104-12-05; CL from Goodland,
 Kans.; relays KGOS 1490; site is that of KERM in Torrington, *Wyoming*.
 CONN New Haven 102.3 W272DO PG>250w, 41-20-58/72-58-22; CL from Bridgeport;
 relays WPLR 99.1
 CONN New Milford 97.9 W249DO QC from 97.7
 FLOR Gainesville 96.3 W242CS NW 150w, 29-37-26/82-17-19; relays WTMN 1430
 FLOR Jacksonville 94.7 W234CW XG 30-16-33/81-38-12
 FLOR Melbourne 97.9 W250BH PG>250w
 FLOR Orlando 104.7 W284CJ NW 250w, 28-34-07/81-13-55; relays WONQ 1030
 FLOR Oxford 103.5 W278CI NW 250w, 28-54-07/82-06-00; relays WRZN 720
 FLOR Tallahassee 95.7 W239CG XR 30-28-12/84-17-16
 GEOR Cuthbert 99.7 W259CA XG 32-27-59/85-03-22
 GEOR Douglasville 104.5 W283CT QG from W285FH-104.9
 IDAH Boise 102.3 K272FS NW 99w, 43-44-23/116-08-12; relays KGEM 1140
 IDAH Weiser 99.9 K260CU NW 250w, 44-03-44/116-54-22; relays KWEI 1260
 ILLI Bloomington 92.5 W223CA PR<38w, 40-29-21/89-00-23
 ILLI Vernon Hills 107.1 W300CQ QC from 107.9, 70w, 42-15-14/88-17-02; CL from Taylorville;
 relays WNVR 1030
 KENT Louisville 97.9 W250BD XG 38-14-45/85-45-30
 MAIN Portland 102.5 W272BV QC from 102.3, 210w
 MARY Bel Air 107.5 W222AH QC from 92.3, 250w, 39-32-05/76-20-56; CL from Cortland, N.Y.;
 relays WHGM 1330
 MARY Frederick 93.5 W228AM PG>30w, 39-25-05/77-30-04; PC; PR>150w
 MARY Hagerstown 99.5 W257DZ QR from 99.3, 50w; to relay WZXQ 88.3
 MARY Salisbury 104.3 W282AW XR 38-23-09/75-35-32; CL from Ocean Pines
 MASS West Yarmouth 101.5 W268CP NW 250w, 41-38-07/70-14-07; relays WBAS 1240
 MICH Cassopolis 96.7 W242CN QR from 96.3
 MICH Dearborn 107.9 W240DL QR from 92.7, 85w, 42-23-22/83-08-53; CL from Merrillville, Ind.;
 to relay WDTW 1310; amendment from 95.9 at 99 watts
 MICH Grand Rapids 102.5 W292DO QC from 106.3, 155w, 43-01-58/85-41-47; CL from
 Middlebury, Ind.; relays WPRR 1680
 MINN Albany 107.7 K236BB QC from 95.1, 250w, 45-37-53/94-36-00; CL from Fort Dodge, Ia.;
 relays KASM 1150
 MINN Shoreview 93.3 W227BF PR<65w

MINN St. Paul 92.9 W225AP PR>250w, 44-57-30/93-04-31
 NEWH Salem 98.9 W265AM QC from 100.9, 154w, 42-49-00/71-16-13; CL from Norwich, Vt.;
 relays WCCM 1110
 NEWJ Evansville 107.5 W300CZ QC from 107.9, 4w
 NEWJ Toms River 100.5 W264AM QR from 100.7
 NEWM Albuquerque 96.9 K245CD PC>160w
 NORTHC Monroe 94.5 W233CJ PG>50w, 34-58-57/80-32-13
 OHIO Solon 106.1 W291BV PR>40w, 41-26-32/81-29-29; relays WGAR-FM 99.5;
 amendment from 200w & to change site
 OKLA Oklahoma City 89.5 K208CG QG from K209FZ-89.7, 125w, 35-32-57/97-29-48
 OKLA Oklahoma City 95.3 K237GE XG 35-24-02/97-29-34
 OREG Eugene 93.7 K229DC QG from 106.3, 250w, 44-00-07/123-06-47; CL from Mosier;
 relays KNW 1120
 PENN Colmar 97.1 W246CN PR>250w; relays WPAZ 1370; dismissed ROA
 PENN Philadelphia 104.9 W285FF NW 99w, 39-57-05/75-09-38; relays WWDB 860
 SOUTHC Charleston 95.5 W239AL QR from 95.7, 250w, 32-49-00/79-50-10; CL from
 Fernandina Beach, Fla.; relays WZJY 1480
 TENN Jackson 89.3 W261CF QR from 100.1, 27w, 35-40-05/88-49-39; to relay WAYW 89.9
 TENN Mountain City 102.9 W237DM QG from 95.3, 250w, 36-29-25/81-47-14; CL from
 Jackson, Ohio; relays WMCT 1390
 TEXA La Joya 98.9 K255DB XR 26-15-19/98-09-41
 TEXA McKinney 99.9 K260CX NW 100w, 33-03-50/96-35-02; relays KFCD 990
 TEXA San Antonio 92.3 K221GF QR from 92.1, 80w
 UTAH Tooele 105.5 K288GY PR>250w, 40-39-35/112-12-05; CL from Erda; relays KUDD 105.1
 VIRG Richmond 91.7 W219CX XG 37-30-52/77-30-28
 WEST Charleston 96.5 W243DR NW 250w, 38-21-50/81-46-03; relays WCHS 580

 ALAB Athens 106.5 WQXD-LP QR from 97.9, 27m, 34-47-27/86-57-59
 ARIZ Phoenix 102.9 KDIF-LP NW -22m, 33-23-19/112-02-42 (Ariz. Interfaith Alliance for Worker Justice)
 ARKA Mena 93.1 KAWX-LP QR from 95.5, 78m, 34-35-34/94-14-29
 CALI Atwater 107.7 KFFW-LP PG>28m, 37-16-41/120-37-35
 CALI Lancaster 98.3 KFXM-LP QC from 96.7
 CALI Oakley 92.9 KLSN-LP NW 40m, 37-58-02/121-45-01 (Friends of Oakley Community Foundation)
 COLO Colorado Springs 103.5 KKKK-LP NW 59m, 38-43-42/104-34-53
 (Native American Music Society)

COLO Grand Junction 100.3 KWSI-LP NW -125m, 39-04-43/108-33-55
 (Grand Valley Peace and Justice)
 FLOR Brandon 90.1 WYPW-LP PR 59m, 27-56-21/82-16-34
 FLOR Palakta (sic) 101.1 WPRD-LP PR<40m
 FLOR Rockledge 92.9 WZAY-LP PR<15m
 FLOR Tampa 96.3 WURK-LP XR 27-58-06/82-27-39
 FLOR Winter Park 92.7 WRXW-LP PG 57m, 28-38-40/81-21-22
 KENT Louisville 106.5 WFMP-LP PR 66m, 38-14-45/85-45-29
 LOUI Shreveport 97.7 WKSH-LP NW 47m, 32-28-13/93-47-03 (Amore Entertainment Radio)
 MASS Acton 94.9 WAEM-LP NW 65m, 42-28-06/71-27-17 (Town of Acton)
 MISSO Excelsior Springs 102.7 KPGZ-LP PG>36m, 39-22-13/94-22-45
 MONT Helena 100.7 KRUL-LP QR from 94.7, -59m, 46-36-22/112-01-15
 NEWH Portsmouth 96.1 WBUB-LP QR from 101.5, 39m, 43-08-23/70-45-07 but dismissed
 OREG Bandon 97.9 KBOG-LP XR 43-07-10/124-24-12, seems to be a correction to a previous
 application which would have put the transmitter off the coast at Brookings 😊
 PENN Wilkes Barre 97.5 WBWE-LP PG 120m, 41-09-49/76-00-47
 TENN Knoxville 103.9 WOGU-LP CX (three remaining time-sharers on this frequency remain valid)
 UTAH Salt Lake City 99.9 KUAA-LP PR>-81m, 40-46-01/111-54-36
 WASH Duvall 103.1 KAPY-LP PR>16m, 47-42-56/121-55-22
 WASH Leavenworth 103.3 KUVB-LP NW -111m, 47-31-31/120-31-31
 (Our Lady of the Snows Catholic Church)
 WASH Vancouver 107.9 KOUV-LP PR>149m, 45-43-56/122-25-15
 WISC Milwaukee 101.3 WPJQ-LP/WKJJ-LP PR<8m, 43-05-54/88-00-38 (stations share time);
 PG with regard to WKJJ & NW (Inner City Development Project)

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ARIZ Morristown 99.5 KRPH PG 7.872kw/369m, 34-11-32/112-45-13; CL from Wittmann
 ARIZ Willcox 92.5 NEW PR<3kw/6m, 32-16-01/109-50-00; PG
 FLOR Marathon 97.7 WAVK PC>100kw-H/81kw-V/138m, 24-39-40/81-25-10
 GEOR Hawkinsville 103.9 WQXZ FC; sold to Educational Media Foundation; req. CL from Pinehurst
 GUAM Agana 89.3 KPRG AF 2kw/325m, 13-26-00/144-42-48 (aux)
 HAWA Kawaihae 106.9 KWYI XR 19-43-28/155-55-10
 MISSI Sherman 95.1 WONA-FM PR<2.9kw/114m, 34-22-05/88-41-36
 MISSO Boonville 99.3 KCLR-FM NW 3kw/67m, 38-57-19/92-16-20 (aux)
 MISSO Columbia 96.7 KCMQ NW 3kw/67m, 38-57-19/92-16-20 (aux)
 MISSO Fayette 93.9 KSSZ NW 3kw/67m, 38-57-19/92-16-20 (aux)
 NEWY Avoca 103.1 WCIK XR 42-28-14/77-32-11

OHIO Chillicothe 89.3 WZCP PC 2.1kw/120m
OHIO Newark 89.3 WZNP PC>5.5kw/119m, 39-58-46/82-12-40
OREG West Linn 96.3 KWEE AF 1.95kw/323m (aux)
SOUTH C Murrells Inlet 88.3 WMBJ PC>6.4kw/64m, 33-39-25/79-02-24
TEXA Mullin 103.3 NEW GA from 92.7, class A, to allow KNUZ San Saba to move from 106.1 to 92.7
WASH Central Park 98.5 KNBQ FC; sold to Educational Media Foundation
WISC Eau Claire 94.1 WIAL PR>114m
WISC Elk Mound 92.9 WECL PR 5.8kw/92m, 44-49-47/91-26-48

ALAB Daphne 106.9 W295BB XR 30-34-24/87-53-44; relays WLPR 960
ARIZ Casas Adobes 95.3 K237FX PR>250w; amendment from 200w
ARIZ Fort McDowell 96.1 K241BQ PG<120w, 33-20-05/112-03-39; to relay KZON 103.9; PC
ARIZ Mesa 93.9 K259AS QG from 99.7, 45w, 33-29-33/111-38-23 CX ROA but refiled
ARIZ Nothing 98.7 K254CE PG>100w, 34-29-10/114-13-09
ARIZ Tempe 99.5 K256CY QR from 99.1, 38w, 33-35-16/111-45-38
CALI Visalia 95.5 K238CF QG from K291CC-106.1, 10w, 36-17-14/118-50-15
CALI Yuba City 98.1 K251CE PC>220w
COLO Denver 97.7 K249EX PG>250w
COLO Woodland Park 93.5 K228EM PC>110w
DELA Roxanna 94.3 W232CL NW 4w, 39-15-19/76-40-31; relays WRBS 1230
FLOR Miami 101.9 W235CJ QR from 94.9, 25-46-24/80-11-18; CL from Orlando; relays WOCN 1450
FLOR Tallahassee 104.5 W283AW PR<165w, 30-29-16/84-16-47
GEOR Blue Ridge 89.3 W207CH QG from W203BA-88.5
HAWA Honolulu 95.1 K236CR PG<25w, 21-19-45/157-52-19; CL from Kihei
IDAH Boise 92.7 K224EP XC 43-35-44/116-08-40
IDAH Boise 106.7 K294DC NW 99w, 43-35-44/116-08-40; relays KNFL 730
ILLI Carlyle 91.9 W221DY QR from 92.1
ILLI Chicago 98.3 W252AW XC 41-45-54/87-39-51; (71st & Ashland) relays WMBI-FM 90.1;
PR<120w, 41-51-22/87-37-08 (behind McCormick Place)
ILLI Danville 99.5 W293AL QR from 106.5, 250w, 40-04-38/87-38-20; CL from Rochester, Ind.;
relays WITY 980
ILLI Lawrenceville 99.3 W257DW QR from 96.1, 250w, 38-43-21/87-39-15; CL from Lebanon,
Ind.; relays WAKO 910
ILLI Rockford 103.9 W280EN PG>250w
MARY Hagerstown 99.5 W258DA QG from W257DZ-99.3, 50w; relays WZXQ 88.3; QC
MICH East Lansing 94.5 W255BC QR from 98.9, 190w, 42-42-07/84-24-48; CL from Plainwell; QG

MONT Billings 102.5 K242CI QC from 96.3, 50w, 45-45-36/108-27-15; CL from Casper, Wyo.;
relays KBSR 1490

NEBR Grand Island 99.7 K259CZ QG from K260BK-99.9, 40-51-53/98-23-47; CL from Hastings;
relays KRGI-FM 96.5

NEBR Holdrege 96.9 K266BB QC from 101.1, 250w, 40-26-26/99-23-59; CL from Fort Morgan,
Colo.; relays KUVR 1380

NEBR Kearney 89.7 K209CF PG>250w, 40-43-42/99-07-47

NEBR Omaha 99.5 K258DC NW 250w, 41-13-30/95-57-11; relays KMMQ 1020

NEWJ Bridgeton 95.3 W237CD PR<25w, 39-25-34/75-14-09; CL from Harrisonville

NEWJ Evansville 96.7 W300CZ QR from 107.9, 50w, 40-16-45/74-29-40

NORTHC Jacksonville 98.3 W252BO PC>250w, 34-45-57/77-23-29; CL from Pumpkin Center;
relays WJCV 1290

NORTHC Monroe 94.5 W233CJ PC>50w, 34-58-57/80-32-13; CL from Indian Trail; QR to 94.3

OHIO Toledo 103.7 W277BI QR from 103.3, 250w; to undo permit to move to Youngstown on
97.7 & relay WYCL 1540

OREG Ashland 101.5 K268GF PR>53w

OREG Lebanon 94.1 K287AK QR from 105.3, 250w, 44-30-19/122-57-43

PENN Plains 97.5 W248BP PC>75w, 41-10-58/75-52-10; CL from Dickson City

QUEB Lebel-sur-Quévillon 92.7 CBMK-FM QR from 1230 AM, 50w/12m, 49-02-58/76-58-47

QUEB Lebel-sur-Quévillon 94.9 CBF-FM-3 QR from 650 AM, 50w/12m, 49-02-58/76-58-47

QUEB Senneterre 95.9 CBF-1 QR from 710 AM, 115w/4m, 48-22-33/77-13-09

QUEB Senneterre 101.7 CBMM QR from 540 AM, 115w/4m, 48-22-33/77-13-09

SOUTHC Atlantic Beach 103.5 W278CB XR 33-50-07/78-52-06

TEXA Fort Worth 92.9 K225BR XC 32-45-01/97-20-03; CL from Azle; relays KBFB 97.9

TEXA Houston 105.3 K287BQ PR<99w, 29-45-30/95-22-03; CL from Alvin; PG; PC

TEXA Lufkin 104.7 K231CX QR from 94.1, 100w

TEXA Pasadena 95.3 K260AS QC from 99.9, 58w, 29-41-01/95-11-10; CL from Missouri City;
relays KLVL 1480

TEXA Sherman 101.3 K233CV XR 33-42-10/96-34-05

TEXA Sugar Land 97.5 K248CJ PR>250w, 29-51-47/96-11-29; CL from Gary

VIRG Sterling 93.5 W283CD QC from 104.5, 130w, 39-02-32/77-02-49; CL from
Washington, DC; relays WBQH 1050

VIRG Troutville 94.5 W233CK QC from 92.3, 200w, 37-25-30/79-52-30; CL from Bristol;
relays WFIR 960

WASH Spokane 94.1 K223BD QC from 92.5, 99w, 47-35-58/117-17-57; CL from St. Maries, Ida.;
relays KJRB 790

WISC Chippewa Falls 95.9 W240DC QR from W221DK-92.1, 250w, 44-49-46/91-26-54;
CL from Neillsville; QG; relays WEAQ 1150

ALAB Athens 106.5 WQXD-LP QR from 97.9, 27m, 34-47-27/86-57-59 dismissed ROA
ARIZ Florence Community 101.1 KOHF-LP NW 4m, 33-01-01/111-24-20
ARKA Bentonville 103.3 KOBV-LP NW 39m, 36-23-37/94-10-53 (Bentonville Information)
CALI Alameda 96.1 KJTZ-LP NW -35m, 37-45-49/122-14-35 (Alameda Unified SD)
CALI Atwater 107.7 KFFW-LP PC>28m, 37-16-41/120-37-35
CALI Modesto 93.3 NEW-lpfm NW 26m, 37-38-21/120-58-27 (Central Valley Media Center)
CALI Redlands 107.3 KLLQ-LP XR 34-01-47/117-00-45
FLOR Rockledge 92.9 WZAY-LP PG<15m
FLOR Tampa 96.3 WURK-LP XG 27-58-06/82-27-39
HAWA Honolulu 98.1 KQHU-LP NW 43m, 21-17-36/157-50-34 (New Dynasty Culture Center)
LOUI Sterlington 106.9 KHPP-LP NW 37m, 32-38-16/91-59-51 (Glory2glory Educational Foundation)
MONT Helena 100.7 KRUL-LP QG from 94.7, -59m, 46-36-22/112-01-15
NEBR Omaha 91.9 KPDI-LP PR 47m, 41-12-33/95-56-47
NEWH Portsmouth 96.1 WBUB-LP PR 39m, 43-08-23/70-45-07 dismissed; QC from 101.5
without site change
NORTHC Charlotte 101.5 NEW-lpfm NW 67m, 35-23-53/80-41-36 (Monte Calvario Foundation)
OREG Bandon 97.9 KBOG-LP PG<-1m, 43-07-10/124-24-12
PENN Wilkes Barre 97.5 WBWE-LP NW 120m, 41-09-49/76-00-47 (W-B Metropolitan
Development Corp.)
TEXA Borger 107.3 KDSH-LP PR 48m, 35-38-56/101-23-39
TEXA Emory 98.3 KKVI-LP NW 53m, 32-52-00/95-45-03 (Gospel American Network)
TEXA Garland 92.9 KYYE-LP PR 41m, 32-58-07/96-20-30
UTAH Salt Lake City 99.9 KUAA-LP PG<-146m, 40-46-01/111-54-36
VIRG Portsmouth 106.5 WJVA-LP NW 32m, 36-49-10/76-27-36 (Juneteenth Festival Co.)
WASH Duvall 103.1 KAPY-LP PG>16m, 47-42-56/121-55-22
WASH Vancouver 99.9 KXRW-LP NW 43m, 45-39-06/122-36-01 (Media Institute for Social Change)
WASH Vancouver 107.9 KOUV-LP PG>106m, 45-43-56/122-25-15
WISC Milwaukee 101.3 WPJQ-LP PG<8m, 43-05-54/88-00-38; NW

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ALAB Argo 88.1 WKRE PC 1.5kw/120m, 33-41-43/86-31-03
ARIZ Willcox 92.5 KWQR NW 3kw/6m, 32-16-01/109-50-00 (Versailles Community Broadcasting)
ARKA Lake Village 103.5 WETI NW 20wk/72m, 33-20-07/91-07-33 (Eternity Records Co.)

CALI Concow 100.3 KHEX CC from KBJK
 CALI Hamilton City 101.7 KSOJ CC from KVXX
 CALI Oak View 106.3 KRUZ CC from KRRF
 COLO Blanca 98.3 KSBK CC from KAPK
 FLOR Holmes Beach 98.7 WPBB CC from WBRN-FM
 FLOR Jacksonville 90.9 WJKV PC>41kw/166m, 30-16-34/81-33-51
 IOWA Pleasantville 96.3 KICL PG>96m, 41-19-58/93-05-10
 LOUI Bastrop 97.3 KJMG PC>6kw, 32-39-38/91-59-28
 MICH Oscoda 95.7 WCMB-FM PC<209m, 44-40-24/83-31-06
 MISSI Greenville 97.9 WIBT CC from WLTM
 MISSI Greenville 104.7 WJIW CC from WIBT
 MISSI Vardaman 99.5 WETX NW 1.8kw/122m, 33-49-10/89-16-00 (Eternity Records Co.)
 MONT Bozeman 88.1 KOFK-FM QG from 88.5, 2w-H/500w-V/190m, 45-38-18/111-16-05
 MONT Bozeman 89.3 KLBZ PG>209m, 45-57-25/111-22-14
 NEVA Sparks 100.9 KRFN CC from KURK
 NEWY Dansville 93.9 WDNV-FM CC from WMRV
 NORTHD Beulah 95.7 KQLZ PG>100kw/219m, 46-43-31/102-55-00; CL from New England
 NORTHD New England 97.9 KLTQ PG<82m, 47-17-15/101-45-46; CL from Beulah
 OHIO Bryan 100.9 WBNO-FM PC<89m, 41-28-41/84-34-42
 TEXA Bracketville 90.3 KEDV PG<50kw/137m, 28-57-03/100-37-12
 TEXA Buda 101.5 KROX-FM PG>86kw/320m, 30-02-42/97-52-50
 VIRG Charlottesville 92.7 WUVA PG 610w/311m, 37-59-06/78-28-48
 VIRG Goochland 100.5 WLRB CC from WZEZ

 ALAB Fish Pond 96.5 W243AP XG 34-44-12/86-31-59; CL from Mooresville; relays WJAB 90.9
 ARIZ Benson 104.1 K281CC XG 31-57-37/110-17-58
 ARIZ Casa Grande 90.7 K214FG QG from K213FG-90.5, 28w
 ARIZ Globe 99.5 K259AS QR from 99.7, 70w
 BRIT Port Alice 92.3 CBUX-FM QG from 1170 AM, 50w/-124m, relays CBCV-FM Victoria
 CALI Brawley 93.3 K227BN PC>50w, 32-58-41/115-33-19
 CALI Palm Springs 99.1 K256CU QG from 104.7, 54w-H/18w-V, 33-51-55/116-26-10;
 CL from Peach Springs, Ariz.; relays KKGX 920
 CALI Sacramento 104.7 K284CM NW 250w, 38-35-16/121-29-22; relays KMJE 890
 CALI Santa Barbara 94.1 K231CR QG from 104.9, 250w, 34-28-15/119-40-33; CL from Carlsbad;
 relays KSPE 1490

CALI Santa Barbara 97.9 K250BS QG from 96.5, 250w, 34-28-15/119-40-33;
 CL from Solimar Beach; relays KTMS 990

CALI Santa Rosa 99.1 K256DA QG from K258DF-99.5, 250w, 38-25-06/122-40-33

COLO Grand Junction 95.5 K238BK PG>99w, 39-03-59/108-44-41

FLOR Jacksonville Beach 101.9 W270CD PC>120w, 30-16-34/81-33-51; relays WKTZ 1220

LOUI Slidell 97.9 K250BA PG<13w, 29-45-51/90-01-03; PC

LOUI Thibodaux 103.7 K230AM QC from 93.9, 29-43-48/90-43-37; CL from Hemphill, Tex.;
 relays KTIB 640

MARY Baltimore 96.7 W244DA PG>80w, 39-23-16/76-32-47

MICH Holland 99.7 W227BB QC from 93.3, 250w, 42-47-40/86-06-22; CL from Fremont;
 relays WHTC 1450

MINN Shoreview 93.3 W227BF PG<65w

MINN St. Paul 92.9 W225AP PG>250w, 44-57-30/93-04-31

MISSO Gray Summit 90.1 K211GB QG from K264CC-100.7, 90w

MONT Helena 96.3 K242CX QG from K244EH-96.7, 250w, 46-46-07/112-01-21; relays KIMO 107.3

NEBR Omaha 104.1 K281CJ PC>250w, 41-15-12/96-07-08; CL from Atlantic, Ia.; relays KOMJ 1490

NEWY Corning 107.9 W300DH QG from W297BZ-107.3, 144w, 42-06-04/77-03-28;
 CL from Horseheads; relays WPHD 96.1

NEWY Syracuse 93.7 W229CU QG from W228CS-93.5; QC

NORT Fort Smith 97.9 CBDI-FM QG from 860 AM, 50w/37m, relays CFYK-FM Yellowknife

NORTHC Winston-Salem 101.5 W268CG QG from W267AM-101.3, 36-06-58/80-21-21

ONTA White River 97.7 CBLW-FM QG from 1010 AM, 50w/24m

PENN Hazleton 107.9 W300BT PG<6w, 40-58-10/75-57-24; CL from Nescopeck Pass;
 relays WZMF 730

PENN Mansfield 93.5 W228DM PG>250w, 41-53-53/77-05-38

SOUTHC Charleston 95.5 W238CO QG from W239AL-95.7, 250w, 32-49-00/79-50-10; CL from
 Fernandina Beach, Fla.; relays WZJY 1480

TENN Jackson 89.3 W207CP QG from W261CF-100.1, 27w, 35-40-05/88-49-39; relays WAYW 89.9

TENN Nashville 97.5 W248BQ PG>250w, 36-10-37/86-46-41; CL from Berry Hill;
 relays WNRQ 105.9

TEXA Graham 98.7 K251BQ QC from 98.1, 32-49-24/98-23-27

TEXA Livingston 103.1 K276GL QG from K273AL-102.5, 10w, 30-32-06/95-01-04; relays KNLY 91.1

TEXA Sherman 101.3 K267CB QG from K233CV-94.5, 33-40-34/96-35-04; CL from
 Arkadelphia, Ark.; relays KJIM 1500

UTAH Tooele 105.5 K288GY PG>250w, 40-39-35/112-12-05; CL from Erda; relays KUDD 105.1

VIRG Rocky Mount 104.5 W255BT QC from 98.9, 250w, 36-58-37/79-53-45; CL from Norton;
relays WYTI 1570
WASH Mount Vernon 88.3 K202ED XC 48-21-55/122-16-03; relays KEFX 88.9
WASH Mount Vernon 107.3 K297BH PC<7w, 48-21-55/122-16-03; relays KAWZ 89.9
WASH Seattle 94.5 K233BU PC>99w, 47-32-35/122-06-25; CL from White Center; relays KTTH 770
WEST Wheeling 100.1 W244BR QC from 96.7, 250w, 40-02-09/80-46-16; CL from
Springfield, Ohio; relays WOMP 1290
WISC Chippewa Falls 95.9 W221DK QC from 92.1, 250w, 44-49-46/91-26-54; CL from Neillsville;
relays WEAQ 1150
WISC West Bend 101.3 W267CL PG>250w

ARKA Mena 93.1 KAWX-LP QG from 95.5, 35m, 34-35-34/94-14-29
CALI La Quinta 101.7 KKLQ-LP CX ROA
CALI Redlands 107.3 KLLQ-LP XG 34-01-47/117-00-45
CALI Sacramento 99.1 KKIO-LP CX ROA
FLOR Brandon 90.1 WYPW-LP PG 62m, 27-56-21/82-16-35
FLOR Key Biscayne 94.5 WSQF-LP NW 53m, 25-41-47/80-09-39 (Square Foot Community Radio)
FLOR Tampa 105.1 WWZT-LP NW 43m, 27-59-06/82-30-32 (Latino Heritage Organization)
FLOR West Palm Beach 98.3 WPBE-LP NW 44m, 26-35-31/80-03-24 (Centro de Vida)
GEOR Conyers 102.1 WHJU-LP NW 25m, 33-35-09/84-01-29 (Rockdale Community Broadcasting)
GEOR Savannah 107.5 WRUU-LP NW 53m, 32-03-26/81-08-47
(Unitarian Universalist Church of Savannah)
HAWA Kailua-Kona 100.5 KONA-LP NW 0m, 19-42-57/155-59-43
(The Sanctuary of Mana Ke'a Gardens D/B/A Radio Alchemy)
MINN Moorhead 90.7 KWLJ-LP PG<14m
NEBR Omaha 91.9 KPDI-LP PG 52m, 41-12-33/95-56-47
TENN Cleveland 96.9 WTNG-LP CC from WTNE-LP
TENN Cleveland 107.3 WTNE-LP CC from WTNG-LP
TEXA Austin 89.9 KXPE-LP QR from 94.1, 33m, 30-23-23/97-42-14; amendment from 39m
TEXA Borger 107.3 KDSH-LP QG from 105.1, 42m, 35-38-56/101-23-37
TEXA Garland 92.9 KYYE-LP PG 41m, 32-58-07/96-20-30
TEXA Houston 95.3 KZLD-LP CC from KEER-LP
TEXA Wills Point 95.5 KFCE-LP NW 42m, 32-42-32/96-00-31 (Face Creative Education)

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ARKA Percy 104.5 KHHS PG>4.1kw/121m
CALI Burney 106.1 KRRX PG<475w (aux)

CALI Lancaster 106.3 KGMX PG>100m
COLO Silverton 104.1 KRDS PC<-622m, 37-48-44/107-39-50
FLOR Coral Gables 105.1 WHQT NW 27.4kw/309m, 25-57-30/80-12-44 (aux)
FLOR Miami 93.1 WFEZ NW 18.9kw/309m, 25-57-30/80-12-44 (aux)
FLOR Miami 97.3 WFLC NW 19.9kw/309m, 25-57-30/80-12-44 (aux)
GEOR Jackson 92.1 WJGA-FM PR>5.5kw/105m; amendment from 4.7kw/114m
GEOR Rincon 100.1 WXYX PG>75kw/142m, 32-09-28/80-59-28
IDAH Weston 95.9 KLZX PR>50kw
ILLI Bluford 90.9 WVYN PG>22kw (changing from Class C3 to B1 without change in site?
Should have been B1 from the beginning.)
IOWA Bettendorf 91.1 KNSB PG>1.1kw
IOWA Pleasantville 96.3 KICL PR 5.4kw/100m, 41-19-58/93-05-10
IOWA Washington 106.1 KCII-FM PR<6.2kw/91m
IOWA Whiting 107.5 KILV req. CL from Castana
LOUI Baton Rouge 102.5 WFME NW 38kw/101m, 30-27-38/91-13-24 (aux)
MISSI Biloxi 93.7 WMJY PR>96kw (aux)
MISSI Kearney Park 93.5 WHJT PR 12kw/114m; CL from Clinton
MISSI Pascagoula 99.1 WKNN-FM PR>85kw (aux)
NEWM Truth or Consequences 91.1 KLCF PG>1.05kw/829m, 32-58-13/107-13-33
OHIO Cincinnati 105.1 WUBE-FM PG>280m
OHIO Gahanna 104.9 WCVO NW 6kw/62m (aux)
TEXA Roaring Springs 93.3 NEW NS 6kw/100m, 33-58-56/100-56-25 (Campo Elias Munera)
TEXA Sunset Valley 92.5 KVLR PC>4.9kw/161m, 30-17-53/97-49-54
TEXA Wheeler 103.9 KBPD PG<1kw; NW
USVI Cruz Bay 102.1 WWKS PG<2kw/385m; PC
WASH Westport 90.1 KBSG QC from 89.5

ALAB Daphne 106.9 W295BB XG 30-34-24/87-53-44; CL from Fairhope; relays WLPR 960
ALAB Muscle Shoals 103.5 W261BY QC form 100.1, 250w, 34-45-23/87-40-43; relays WLXA 98.3
ARIZ Ligurta 103.5 K224EV QR from 92.7, 32-40-24/114-20-11 but dismissed ROA
ARIZ Nogales 99.5 K258DH QG from 99.9, 38w, 33-35-16/111-45-38
ARIZ Tucson 103.3 K277CV PG<1w, 32-15-03/110-55-37
ARIZ Wickenburg 91.1 K216GP QG from K270BA-101.9, 250w
BRIT Clinton 98.9 CBUU-FM QR from 1070 AM, 50w/-69m, 51-06-06/121-35-30
CALI Carpinteria 102.7 K274CJ PG<70w
CALI El Centro 93.7 K229CU PR>50w, 32-48-02/115-34-28; relays KWST 1430

CALI Fallbrook 106.7 K294CS XR 33-24-55/117-07-21
 CALI Folsom 99.1 K255CL QR from 98.9
 CALI Hollister 100.9 K265DG XC 36-45-23/121-30-05
 CALI Oxnard 102.5 K273CT QR from 104.9, 150w, 34-14-17/119-12-06; QG; NW;
 CL from Solimar Beach; relays KUNX 1400
 CALI Quartz Hill 104.7 K284CD PR>10w, 34-30-52/118-05-10
 CALI Sacramento 98.1 K251CA NW 240w, 38-30-17/121-33-36; relays KJAY 1430
 CALI San Diego 106.9 K241CH QR from 96.1, 250w, 32-43-48/117-05-03; relays KMYI 94.1
 CALI San Francisco 101.7 K269FB PR>240w
 CALI San Francisco 103.3 K277CH PG>99w; relays KLVS 107.3
 CALI Woodland 104.7 K284AG PG>130w, 38-39-20/121-43-08 CX ROA
 COLO Grand Junction 103.9 K280GQ QG from K279CB-103.7
 FLOR Fort Lauderdale 93.5 W228BV PG<99w
 FLOR Miami 101.9 W270CV QG from W235CJ-94.9, 250w, 25-46-24/80-11-18; CL from Orlando;
 relays WOCN 1450
 FLOR Orlando 93.5 W228DF NW 10w, 28-32-29/81-30-39; relays WOTW 103.1
 FLOR Tallahassee 95.7 W239CG XG 30-28-12/84-17-16
 FLOR Tallahassee 104.5 W283AW PG<165w, 30-29-16/84-16-47
 GEOR Athens 94.5 W250AC QC from 97.9, 250w
 GEOR Atlanta 102.1 W271CV QG from W270CP-101.9, 80w, 33-44-41/84-21-36
 GEOR Hawkinsville 91.7 W219DH PC>250w, 32-43-47/83-38-04; relays WBKG 88.9
 GEOR Warner Robins 99.5 W258AP PR>250w
 HAWA Haleiwa 104.7 K284AL PR<10w, 21-24-17/158-06-03
 IDAH Notus 103.1 K276GE NW 250w, 43-50-44/116-45-21; relays KTRP 1450
 ILLI Bloomington 92.5 W223CA PG<38w, 40-29-21/89-00-23
 ILLI Carlyle 91.9 W220EN QG from W221DY-92.1
 ILLI Chicago 98.3 W252AW PG<120w, 41-51-22/87-37-08 (Calumet & Cullerton Sts.)
 ILLI Danville 99.5 W258CY QG from W293AL-106.5, 250w, 40-04-38/87-38-20;
 CL from Rochester, Ind.; relays WITY 980
 ILLI DeKalb 89.1 W205CC QC from 88.9, 25w; relays KLOV 89.3
 ILLI Lawrenceville 99.3 W257DW QG from 96.1, 250w, 38-43-21/87-39-15; CL from
 Lebanon, Ind.; relays WAKO 910
 ILLI Seward Township 101.5 W268AY PC>250w, 41-53-56/87-37-23;
 (John Hancock Center, Chicago) relays WMBI 1110
 MARY Frederick 93.5 W228AM PG>150w
 MARY Ocean City 99.1 W235AL QR from 94.9

MARY Salisbury 104.3 W282AW XG 38-23-09/75-35-32; CL from Ocean Pines

MICH East Lansing 94.5 W233CH QG from W255BC-98.9, 190w, 42-42-07/84-24-48;
CL from Plainwell; relays WKAR 870; QC

MICH Fort Gratiot Township 97.3 W247CU NW 25w, 43-04-08/82-28-48; relays WHYT 88.1

MINN Alexandria 90.9 K215BL XG 45-52-34/95-21-59

MINN Minneapolis 97.5 W248CU XR 44-56-45/93-05-31

MISSO Harrisonville 106.9 K295CH XC 38-32-13/94-16-38; relays KLRX 97.3

MISSO Thayer 103.7 K279CT NW 170w, 36-35-38/91-40-03; relays KALM 1290

MONT Kalispell 96.5 K297BJ QR from 107.3, 250w, 48-10-34/114-20-57; CL from
Palouse, Wash.; relays KGEZ 600

NEBR Grand Island 104.3 K239AX QC from 95.7, 250w, 40-55-51/98-16-26; CL from
Larned, Kans.; relays KMMJ 750

NEBR Kearney 89.7 K209CF PC>250w, 40-43-42/99-07-47

NEWJ Bridgeton 95.3 W237CD PG<25w, 39-25-34/75-14-09; CL from Harrisonville

NEWJ Evansville 96.7 W244DT QG from W298CJ-107.5, 50w, 40-16-45/74-29-40

NEWJ Pleasantville 101.3 W267BP PR<200w, 39-22-35/74-33-44; CL from Palermo

NEWJ Toms River 100.5 W263DA QG from W264AM-100.7

NEWY East Ithaca 102.3 W271CD QR from 102.1

NORTHC Concord 98.3 W252DI XC 35-24-03/80-37-04; relays WTIK 1410

NORTHC Monroe 94.3 W232DI QG from W233CJ-94.5, 19w

NORTHC Monroe 97.3 W247CV QG from 107.1, 250w, 34-58-58/80-32-13

OHIO Toledo 97.7 W277BI QG from 103.3, 250w, 41-03-23/80-38-44 CX ROA; going to 103.3 instead

OHIO Toledo 103.3 W277BI PG>250w

OKLA Mooreland 89.1 K206CI XR 36-24-08/99-25-47; relays KAWZ 89.9

OKLA Oklahoma City 89.5 K208CG QG from 89.7, 125w, 35-32-57/97-29-48

OKLA Woodward 88.7 K204EQ XR 36-24-08/99-25-47; relays KEFX 88.9

OREG Ashland 101.5 K268GF PG>53w

OREG Eugene 93.7 K229DC NW 250w, 44-00-07/123-06-47; relays KPNW 1120

OREG Lebanon 94.1 K231CY QG from K287AK-105.3, 250w, 44-30-19/122-57-43;
CL from Prineville; relays KSHO 920

OREG Prineville 93.3 K229CB QR from 93.7

SOUTHC Atlantic Beach 103.5 W278CB XG 33-50-07/78-52-06

SOUTHC Columbia 105.1 W286CT PC<75w, 34-00-06/81-01-45; relays WFMV 95.3

TENN Falling Water 101.5 W268AA PC>190w, 35-10-18/85-18-59; relays WPLZ 95.3

TENN Nashville 97.5 W248BQ PC>250w, 36-10-37/86-46-41

TENN Sevierville 99.5 W256CN QR from 99.1, 250w

TEXA El Paso 92.7 K224FC QG from K268CD-101.5, 35w, 31-48-57/106-29-18;
 CL from Pinos Altos, N.M.; relays KVIV 1340
 TEXA Garland 101.5 K268CL XR 32-45-50/96-41-11
 TEXA Houston 92.5 K223CW PR>30w, 29-45-29/95-22-07
 TEXA Houston 98.7 K254BZ XR 29-44-17/95-33-41
 TEXA Houston 106.1 K291CE PR>245w, 29-45-36/95-21-49; CL from Sugar Land
 TEXA Livingston 103.1 K273AL QC from 102.5, 10w, 30-32-06/95-01-04; relays KNLY 91.1
 TEXA Lufkin 104.7 K284CS QG from 105.5, 100w, 29-27-26/95-53-234
 TEXA Orvil 104.1 K281CB XR 27-45-59/99-25-26; relays KBNL 89.9
 TEXA San Angelo 94.3 K263AS QC from 100.5, 31-28-41/100-27-53; relays KCRN 1340
 TEXA San Antonio 92.3 K222CY QG from K221GF-92.1, 80w
 TEXA Sugar Land 97.5 K248CJ PG>250w, 29-51-47/96-11-29
 WISC Sun Prairie 89.1 W259CE QR from 99.7, 80w, 43-06-46/89-16-00

ALAB Jacksonville 103.5 WCOC-LP NW -31m, 33-49-11/85-45-41 (The Jacksonville Church of Christ)
 ALAS Anchorage 106.1 KONR-LP QR from 104.9, 61-08-48/149-52-28; QG
 ARKA Mena 101.1 KJBS-LP PG>39m, 34-35-34/94-14-29
 CALI El Monte 101.5 NEW-lpfm PR<26m, 34-03-21/118-06-58
 (The Emperor's Circle of Shen Yun)
 CALI Needles 92.5 KCAN-LP QR from 103.1, -13m
 FLOR DeBary 97.1 WJVE-LP QG from 99.9, 31m
 FLOR Longwood 99.7 WWRG-LP QG from 91.9
 FLOR White Springs 105.5 WJFU-LP PG>48m, 30-21-51/82-47-12
 KANS Garden City 100.5 KSGC-LP PG 51m, 37-58-08/100-55-54
 MINN Moorhead 90.7 KWLJ-LP NW 14m, 46-51-32/96-45-22 (Bible Truth Radio)
 MISSO Excelsior Springs 102.7 KPGZ-LP PR 36m, 39-22-13/94-22-45
 MISSO Kennett 102.5 KCJS-LP PC>19m, 36-15-03/90-02-26
 NORTHC Statesville 99.1 WASQ-LP NW 34m, 35-49-22/80-52-23 (Statesville LPFM Radio)
 PENN Upper Gwynedd 92.9 WEMK-LP NW 41m, 40-15-07/75-16-19 (Montgomery Co.)
 PUER Aguadilla 107.9 WVDJ-LP PR 129m
 SOUTHC Elloree 96.5 WLRE-LP QR from 92.9, 63m,
 33-29-30/80-32-46; amendment to change site
 TEXA Baytown 92.5 KZCV-LP PR<15m, 29-46-45/94-54-21
 TEXA Houston 95.3 KZLD-LP PR>40m, 29-53-00/95-13-25; PG
 TEXA Pharr 100.7 KPDW-LP NW 22m, 26-10-36/98-10-13 (Iglesia Poder de Dios)
 WASH Centralia 106.7 KTYG-LP NW 7m, 46-44-24/122-59-19 (Lewis Co. Educational Broadcasting)



Contacts

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The Editor's Note

In more than a few areas in the eastern half of the continent, winter arrived in March this year (in fact, in some northeast locations, March has averaged colder in terms of temperatures than either January or February). Thus, any tropo activity has been confined to the deep south and around the Gulf of Mexico – what you would expect in a winter-like weather pattern.

But, with April on the horizon, we'll be counting down the days to the first signs of 6-meter sporadic-E activity. Now is the time to make any antenna or equipment preparations for the upcoming season!

Glenn Hauser

Enid, OK

OKLAHOMA [and non]. Comments on your report in March VUD [and DXLD before] (not necessarily in order)

- Regarding KOCY-LP 48:

The CP for 15 kW is for conversion to digital. 15 kW is the maximum power permitted for a digital UHF LPTV.

We have one analog LPTV left in Nashville as well (WJNK-LP channel 34, with 3ABN religion). It, too, has a permit to convert to digital on its existing channel.

- Regarding KETA and repacking:

There was no mechanism in the auction for stations to move *from* VHF *to* UHF. They could offer to move the other way in return for a payment from the

government, but they couldn't offer to pay the government to move from V to U.

I suppose after the whole repack shakes out, someday the FCC will accept applications to move from VHF to UHF in the same way they did before the auction came along. In most markets it is unlikely there will be any UHF spectrum available.

- Regarding KBZC-LD, apparently "QVCover" means QVC Over the Air.

I've seen a bug with that text on their affiliate here.

Not sure what KBZC stands for. Our WKUW-LD also carries BUZZR, with old game shows (most of them not very good, but they do have Let's Make a Deal with Monty Hall).

- Regarding power levels on KETA: the power difference with KOCO is negligible.

The 101 kW/370m figure is for a backup transmitter. KOCO's normal transmitter is 65.7 kW/451m. At a

distance of 108 km (found on a website as the distance from OKC to Enid) the predicted signal is 41.892 dBu at half of locations 90% of the time.

For KETA the predicted signal is 41.172 dBu. Due to the lower antenna, KOCO's 101 kW backup transmitter is actually *weaker* than KETA, 40.506 dBu.

Some high-VHF DTV stations have been affected by second-harmonic interference from FM stations (sometimes, this interference is generated in the receiver -- or any antenna "booster" -- not transmitted by the FM station).

Channel 7 (KOCO) would be affected by FM stations at the bottom of the dial, between 88 and 90 MHz. Channel 13 would be affected by stations at the top of the dial, between 105 and 108.

How far are you from the KNID 107.1 transmitter? == (Doug Smith W9WI Pleasant View, TN EM66, Feb 28, DX LISTENING DIGEST)

Hi Doug, Tnx for all the comments! Yes, I didn't notice that the KOCO entry was under backup rather than main. Also, the 15 kW CP for KOCY is listed as -LP rather than -LD so I did not assume it concerned DTV (Glenn to Doug, via DXLD)

Ah. Look over at the right (on my site) where it says "CP-LD" for the 15 kW record and "LIC-TX" for the other record.

That's where the "service" is listed. Sometimes the FCC doesn't get around to changing the suffix in the callsign when a LPTV converts to digital.

Digital Replacement Translators get the same call letters as the main station; really the only way to know it's a DRT is to look at the service. On the Wisconsin page, look for WMVS Milwaukee. You'll find it listed on both channel 8 (three times) and on channel 36 (once). If you look at the service listing, you find channel 8 listed as "DT": this is the main transmitter (there's also a "DX" which is a backup transmitter). Channel 36 is listed as "LD" and is a DRT (Doug to Glenn, via DXLD)

I think you've got it about the KETA breakup. About 2 miles [sic] from 107.1, I think (as well as thousands of Enidians). I just looked at the STB

signal meter, and see 13 is well into the Good range, but keeps fluctuating and breaking up. But this happens on my antenna with amp and FM filter engaged, as well as on the other one (Glenn to Doug, via DXLD)

It would be interesting to try disengaging the amp. At your distance from OKC that might leave the signal too weak to decode - but it might be OK. == (Doug Smith W9WI, Pleasant View, TN EM66, to Glenn, ibid.)

Doug, Distance from KNID - I was thinking of the KCRC 1390 site, where they used to have the FM antenna mounted [when on 99.7], but checking FCC, I see it is now NW of Enid on hwy 132, which is about 9.7 miles from me. Close enough? (Glenn to Doug, ibid.)

Yes, probably. 14 kW, so not a totally puny signal (Doug to Glenn, ibid.)

KETA breakup in Enid --- Mark, Doug Smith of W9WI.com provides some additional info, correcting some of what I said, for the record:

KOCO power I cited is for their backup transmitter. There is negligible difference between their main power/coverage and KETA's.

He suggests my reception problem could be caused by the second harmonic of local KNID 107.1 = 214.2 MHz, falling right in the middle of ch 13. I am less than 10 miles from that transmitter. One of my antennas has an amp on the mast, but the FM trap/hi pass filter is supposedly engaged, yet this happens both on it and the other antenna without an amplifier. So it's unclear whether KNID is actually transmitting enough signal on 214.2 MHz to bother KETA, or whether there is enough overload on 107.1 into the receivers to cause this.

My Zenith STB signal quality (not strength) meter shows KETA well into the Good range, but it keeps fluctuating as the video and sound break up. The same kind of thing could be happening elsewhere in KETA's fringe area if there is a nearby station on the high end the FM band. Of course, this would not be happening on the UHF channels (though there could certainly be other interference problems, more likely from other TV stations.)
Regards, (Glenn Hauser, Enid, to Mark Norman, OETA via DXLD)

** OKLAHOMA. RF 48, Feb 28 at 1753 UT, KOCY-LP, OKC, analog video only, fades in briefly. Now I know that this one may or may not be on the air at any moment; only way to be sure it is off is to see it strong enough one moment, and cut off the next rather than fade out.

Doug Smith of W9WI.com responds to my previous comments: the reason why KOCY has a CP for 15 kW is that would be the max power once it's finally converted to DTV --- (but that will never happen with all channels above 37 being evacuated).

Also, he points out that the power and coverage of KOCO-7 are virtually the same as KETA-13; twice the power I quoted from his list was for KOCO's backup rather than main transmitter.

I also think Doug has the answer to why my KETA-13 reception keeps breaking up: QRM from second harmonic of KNID 107.1 on 214.2 MHz right in the middle of RF channel 13, running 14 kW from less than 10 miles away (Glenn Hauser, Enid, DX LISTENING DIGEST)

** U S A. RF DTV channel 31, Feb 28 at 1608 UT, area tropo is up, this time from across the Kansas border. This is one which barely decodes for a split second showing text in English along bottom of screen, yet the PSIP ID which already shows with Bad signal is KDCU-DT 31-1 which is Derby KS (Wichita market), despite W9WI.com showing ``46.1`` as Univision and ``46.2`` as UniMas, but I can't get #2 at all, nor #1 long enough to confirm network. Also, just reading the font on the Zenith STB PSIP, at least on an SD screen, I couldn't be sure whether it was: KOCU, KDCV, KOCV; or KDCU, which has to be it.

BAD signals on all these channels: 35, 36, 42, 45, 28, 26, 22, 20, 17, 12, 11, 10, 8, many of which correspond to Wichita. Only one other manages to decode briefly with my antenna toward OKC, after all: RF 19, 12-1, KWCH-DT (Glenn Hauser, Enid OK, DX LISTENING DIGEST)

** OKLAHOMA. RF 48 NTSC, March 2 at 1455 UT, KOCY-LP OKC is weakly visible in analog, with a little morning tropo enhancement; remains without cutting off the air for a few minutes before fading (Glenn Hauser, Enid, DX LISTENING DIGEST)

** OKLAHOMA. Tuning thru OTA TV subchannels, circa 1900 UT March 11, I see some changes from OKC, namely on RF 24, KOKH 25-2, CHARGE! And on the other Sinclair station: RF 33, KOCB 34-2, TBD.

These must have happened in the last few days. So I bring up Market 50, OKC at rabbitears.info which has already caught up with this info.

Following the links, first about CHARGE!

It's in many markets, mainly Sinclair stations; <http://watchcharge.com>

``CHARGE! is a new free broadcast network featuring action programming including movies, series and sports entertainment. Watch action stars, every-day heroes and insane athletes engaged in battles, chases, showdowns and so much more. CHARGE! Ready for Action.`` <http://watchcharge.com/schedule/>

TBD doesn't mean the listing is to-be-determined --- that is now the NAME of this network, in many markets, ONLY Sinclair stations. About:

``You love TV. And you love the internet. So you're definitely gonna love TBD: a new free broadcast network that combines the best of both worlds. We handpick the most entertaining stuff from the most creative creators and put it on your TV for a new adventure every day. Everything from culinary capers, jaw-dropping action, hilarious pranks and comedy, music, fitness, gaming, or just random awesomeness that you never knew you needed in your life. If it's what's new or what's next, it's on TBD.`` <http://tbd.com/schedule>

Consulting W9WI.com to remind us of what used to be on these channels:

25.2, was Grit

34.2, was GetTV

--- so are these merely name changes or successor networks of same sources? No, GetTV and Grit still exist in many other markets.

I can safely say I never found any programming on either I wanted to watch nor likely on their replacements, but will keep an eye on skeds.

How does KGNE-LD 38 Sherman TX, no further info, get listed inside the OKC market? Yet when clicking on Market 50 to show all the towns therein, nothing outside OK in KS or TX. (Sherman is right across the

Red River from OK, but no closer southern OK towns are with ``OKC``. Possibly legacy of Sherman being in the Ardmore OK-Sherman-Denison TX market thanks to KXII-12. But the presence of that CBS/NBC affiliate kept the OKC market away.)

Also bunched as part of the OKC market: K19IR-D Enid, which is not and never has been on the air, anyhow flagged as off the air.

But rabbitears still lists TV-OK as if still existing:

TVOK, Retro on 1, M-FOX on 2, Azteca on 3 for all these:

KXOK-LD Enid physical ch 31
WQOS306 Enid physical ch 32
[was relay to Lamont, Ponca]

K35JY-D Lamont still listed
KTEW-LD Ponca City physical ch 18 still listed,
all same lineups

The Enid ones, and surely resultantly the other two, have been gone how many years now, three or two? I research in DXLD archives. Yes, last seen on July 20, 2015 as in DXLD 15-29, but they were out of order for months before that, as I frequently reported.

Some -LD or -D translator stations in OKC I have never been able to confirm here, but could be on the air, including, also of interest:

K47MU-D Concho OK ch 47, only with First Nations Experience network, which also exists in some other areas with significant Indian populations. Concho is unincorporated, and not even in index of Rand McNally Large-Scale Road Atlas, but Wikipedia knows it is in Canadian county = west side of OKC.

So far no signs of any repacking, nor publicity about what will happen, But the major stations which will obviously have to evacuate are RF 50 KOPX-62, RF 40 KAUT-43 and RF 39 KWTV-9 (Glenn Hauser, Enid, DX LISTENING DIGEST)

KGNE has a permit to move to the OKC tower farm. == (Doug Smith W9WI, Pleasant View, TN EM66, WTFDA gg via DXLD)

** OKLAHOMA. DTV Repacking Info --- If you haven't heard yet, there is a searchable list of some of the repacked stations on the NAB repacking website: <http://www.nab.org/repacking/clearinghouse.asp>

Many stations are not listed (yet) (Chris Lucas, Poughkeepsie, NY, March 14, WTFDA gg via DXLD)
More at DIGITAL BROADCASTING --- DTV

So I check for Oklahoma City on it; with [my comments] (gh)

Results

Call Sign: KAUT-TV
Licensee: Tribune Broadcasting Oklahoma City License, LLC
DMA: Oklahoma City, OK
Old Channel: 40
New Channel: 19
Power: 639
Facility ID: 50182
Transition Phase: 1
[I thought they might double up with sibling KFOR RF 27, but not, if they don't have to. This will knock a LP off ch 19]

Call Sign: KOCB
Licensee: KOCB Licensee, LLC
DMA: Oklahoma City, OK
Old Channel: 33
New Channel: 33
Power:
Facility ID:
Transition Phase:

Call Sign: KOKH-TV
Licensee: KOKH Licensee, LLC
DMA: Oklahoma City, OK
Old Channel: 24
New Channel: 24
Power:
Facility ID:
Transition Phase:

Call Sign: KSBI
Licensee: Griffin Licensing, L.L.C.
DMA: Oklahoma City, OK
Old Channel: 23
New Channel: 23
Power:
Facility ID: 38214
Transition Phase:
[see KWTV below]

Call Sign: KTUZ TV
Licensee: TYLER MEDIA LLC
DMA: Oklahoma City, OK
Old Channel: 29

New Channel: 29
 Power: 1000
 Facility ID: 77480
 Transition Phase: NA
 [city of license is axually Shawnee]

Call Sign: KUOK
 Licensee: TYLER MEDIA LLC
 DMA: Oklahoma City, OK
 Old Channel: 35
 New Channel: 35
 Power: 8
 Facility ID: 86532
 Transition Phase: NA

[why two separate listing for this? The `main` KUOK is axually in faraway Woodward, with a LP relay in OKC, and a full-power relay as virtual 36 on KTUZ RF 29]

Call Sign: KUOK CD
 Licensee: TYLER MEDIA LLC
 DMA: Oklahoma City, OK
 Old Channel: 35
 New Channel: 35
 Power: 7.33
 Facility ID: 14885
 Transition Phase: NA

Call Sign: KUTU CD
 Licensee: TYLER MEDIA LLC
 DMA: Oklahoma City, OK

Old Channel: 25
 New Channel: 27
 Power: 7.9
 Facility ID: 31369
 Transition Phase: 2
 [? KFOR is already on 27 and surely will stay, so error here, or will be a subchannel of that?]

Call Sign: KWTV-DT
 Licensee: Griffin Licensing, L.L.C.
 DMA: Oklahoma City, OK
 Old Channel: 39
 New Channel: 25
 Power: 748 KW
 Facility ID: 25382

Transition Phase: 1
 [I expected KWTV to double up on 23 with its sibling station KSBI; but not if you don't have to. See previous entry, knocking off KUTU? Which BTW I have never DXed unlike some other LDs/LPs from OKC]
 (via Glenn Hauser, Enid, March 14, DX LISTENING DIGEST)

** OKLAHOMA. OETA's Oklahoma News Report featured the Enid High School observatory, about 15 minutes into the March 10 video:
<http://videos.oeta.tv/video/2365977428/>
 Followed by a brief obit for Mike McCarville (Glenn Hauser, Enid, DX LISTENING DIGEST)



UPCOMING METEOR SHOWERS

DATA FROM THE
 AMERICAN METEOR SOCIETY
amsmeteors.org



Shower	Activity Period	Maximum		Radiant		Velocity km/s	r	Max. ZHR	Time	Moon
		Date	S. L.	R.A.	Dec.					
Lyrids (LYR)	Apr 18-Apr 25	Apr 22	032.5°	18:09	+33.2°	45.5	2.1	18	0400	24
eta Aquariids (ETA)	Apr 24-May 19	May 07	046.8°	22:36	-00.5°	66.5	2.4	40	0400	11
Southern delta Aquariids (SDA)	Jul 21-Aug 23	Jul 30	126.9°	22:42	-16.4°	41.0	3.2	16	0300	07
Perseids (PER)	Jul 13-Aug 26	Aug 12	140.0°	03:12	+57.6°	60.5	2.2	100	0400	19
Orionids (ORI)	Aug 25-Nov 19	Oct 22	208.9°	06:24	+15.5°	67.1	2.5	15	0500	03
Leonids (LEO)	Nov 05-Dec 03	Nov 18	236.1°	10:17	+21.5°	69.7	2.5	15	0500	00

NAB Slams FCC Repack Plan, Seeks Changes

Says auction structure was faulty, transition plan is flawed

Written by John Eggerton for *Broadcasting & Cable* [March 19, 2017]

Source: <http://www.broadcastingcable.com/news/washington/nab-slams-fcc-repack-plan-seeks-changes/164204>



The National Association of Broadcasters has petitioned the FCC reconsider its "flawed" framework and timeline for repacking TV stations after the incentive auction, saying not to do so will hurt broadcasters and their viewers.

The auction is ending at the end of March and a final "Closing and Channel Reassignment Public Notice," announcing who won what--both broadcasters getting paid to give up spectrum and wireless companies and others buying that spectrum is expected to be released mid-April.

From that point, broadcasters remaining on the air have 39 months to move to new channels. The FCC has said a deadline is needed so that the spectrum forward auction bidders are paying almost \$20 billion for can be freed up.

[In a filing with the FCC March 17](#), NAB says the FCC made a number of mistakes in setting up the auction, including making it overly complicated and not letting stations that had dropped out back in, and created a framework for repacking that does not sufficiently take into account the "unprecedented logistical and operational challenges" both for the commission and industry.

An NAB witness made those arguments earlier this month [at \[a\] hearing in the Senate Communications Subcommittee](#).

NAB had asked the FCC to [modify its repack framework](#), but late last month it declined to make most of those changes.

In the new petition, NAB was trying again.

As it has said before, NAB argues that the FCC was wrong not to use the \$1.75 billion Congress set aside for repack expenses as a budget, insuring it would limit station moves to those that could be made using that money.

"This means that the Commission will repack far more stations than necessary, and far more than can likely be fully reimbursed. This will result in the repack taking longer, and causing considerably more viewer disruption, than might otherwise have been necessary," NAB says.

Then there is the timeline. NAB says the FCC has not provided for active oversight of the repack that includes "real-time adjustments" or "course corrections." Instead, says NAB, the FCC appears to be hoping the transition unfolds perfectly, while NAB clearly sees some potential wrinkles.

Well, perhaps more than simply wrinkles given the tone of the petition. NAB says the FCC is blindly adhering to the "arbitrary and unfounded" 39-month" deadline above all else.

NAB wants the FCC to revise the plan to prevent "forcing broadcast stations to go off the air or reduce their service due to circumstances outside their control."

NAB says the FCC's strict adherence to the "in fallibility" of the 39-month deadline is unbalanced and

unfair to viewers and listeners> Rather than gauge requests for more time on whether they disrupt that timeline, says NAB, the FCC should gauge them on their individual merits.

NAB says broadcasters don't want a blank check, they just want the FCC not to deny "otherwise justified" requests to maintain the appearance that the plan is working.

The FCC is conducting the transition in 10, staggered, phases, and has already informed stations, privately, of what those are. NAB says the FCC should instead adjust those phases based on the cost estimates and construction permits broadcasters don't have to file until 90 days after that Mid-April public notice.

It also says those phase assignments should be delayed until the FCC better gauges the transition's impact on co-located FM radio stations, which could be affected by tower and antenna changes. "The FCC's transition schedule does not appear to take these issues into account at all," the FCC says.

NAB also wants more clarity on coordinating the border station moves with Mexico and Canada.

"The repack of broadcast television stations after the close of the auction may ultimately come to make the auction itself look simple. Previous Commission decisions have exacerbated challenges inherent in the repack, putting viewers at risk and potentially causing unnecessary harm to broadcasters. Many of these decisions are simply irreversible at this point. Nevertheless, the Commission still has an opportunity to take steps to develop and implement a transition plan that treats all stakeholders fairly and protects viewers and listeners from service disruptions," NAB concluded.



WQED reaps \$9.9 million in frequency auction

Written by Anya Sostek for the *Pittsburgh Post-Gazette* [Feb 10, 2017]

Source: <http://www.post-gazette.com/ae/tv-radio/2017/02/10/WQED-reaps-9-9-million-in-FCC-frequency-auction/stories/201702100128?pgpageversion=pgevoke>



WQED's fairy godmother has arrived, in the form of a Federal Communications Commission broadcast spectrum auction.

The public television station announced Thursday that it will reap \$9.9 million from the sale of its broadcast frequency, enough to completely retire its long-term debt with a few million to spare.

"I'm thrilled, I'm excited, it's miraculous," said Deborah Acklin, president and CEO of WQED. "It's a reversal of fortune for this community institution that is truly historic. We have in some way, shape or form been burdened by financial issues for 30-plus years and this wipes it all away in one fell swoop."

In exchange for the payout, WQED will move to a lower broadcast frequency, likely in two to three years. The change will be almost entirely behind the scenes. The station will stay at Channel 13 on the broadcast spectrum and the move will not affect broadcast quality or availability, though over-the-air users may have to re-scan their televisions.

The one-time, first of its kind, two-sided auction was conducted in order to clear space on the broadcast spectrum for use with wireless devices. The shifting of television stations will make room for seven new license blocks in Pittsburgh, said Charles Meisch, an FCC spokesman, noting that each block will likely sell for \$16.4 million.

WQED studied the issue for years and committed to participate in the auction last March. The station found out late last month that it would be receiving \$9.9 million but was only able to share the figure this week, when the government lifted “quiet period” restrictions.

The station wasn’t sure how much it would reap from the auction, if anything. “The expectations of what it would be were completely undefined in the beginning,” said Tom McGough, chair of the board of directors. “As we were watching the auction unfold it oscillated wildly — everything from zero to considerably more. It literally went all over the spectrum, no pun intended.”

Dozens of stations in Pittsburgh were eligible to participate in the auction but at this point, it is up to each individual station to share whether they participated and if so, how much they will receive. Fairfax, Va.-based OTA Broadcasting, for example, which owns 11 Pittsburgh station licenses, declined to comment Thursday.

Stations had the option to sell their spectrum space entirely, share it with another station or move to a different frequency, as WQED did.

In the early 1990s, WQED was \$17.5 million in debt, said Mr. McGough. Over the years, it has whittled that figure down to a bank loan with about \$4 million remaining and \$1.9 million that it had borrowed from its endowment.

With the \$9.9 million, which it will likely receive in about a year, it will pay down that debt, and use about \$1.5 million for transaction costs and equipment related to the frequency shift. That leaves a ballpark surplus in excess of \$2 million, he said.

“That’s the money that we’re going to be engaging in an analysis and a discussion about with our constituents and communities,” said Ms. Acklin. “I think one of the likely proposals is that we add it to the endowment since this is a one-time gain. We’re not likely to blow it on a single project.”

The station has embarked on dramatic budget cuts in recent years, including layoffs, which will be unlikely to be reversed with this windfall, said Ms. Acklin, noting that the station still needs to stay within its annual operating budget. There will be some operational savings when the loans are paid, however, because the station won’t need to pay interest or debt service.

Ms. Acklin stressed that the station will still need to meet its operating budget by seeking government funding and fundraising from foundations and individuals. And yes, pledge drives too.

“We did not get rich today and we are not rolling in available cash and resources,” she said. “This clears up the past, gets us out of the hole and makes it clear that WQED will be here for generations to come. But public support continues to be extremely important.”

ATSC 3.0: Cord Cutter's Dream or Tiered Internet Nightmare?

Written by Wayde Robson for *Audiopholics* [March 10, 2017]

Source: <http://www.audiopholics.com/editorials/atsc-3.0-cord-cutter2019s-dream-to-tiered-internet-nightmare>



The FCC has approved the deployment of an innovation in digital broadcast television that could change network TV and wireless networks. The decades old digital broadcast standard that brought us over-air HDTV ATSC 1.0 is about to get a significant upgrade directly to [ATSC 3.0](#). The [ATSC is so excited about version 3.0](#) that not only did they skip version 2.0 (more on that later), they also want everyone to call their new release “next generation TV”.

Sorry, but “next generation TV” sounds like something that crawled out of a marketing boardroom. But whatever you decide to call the new standard, if the stated capabilities are real, the ATSC - and cord cutters everywhere are right to be excited.

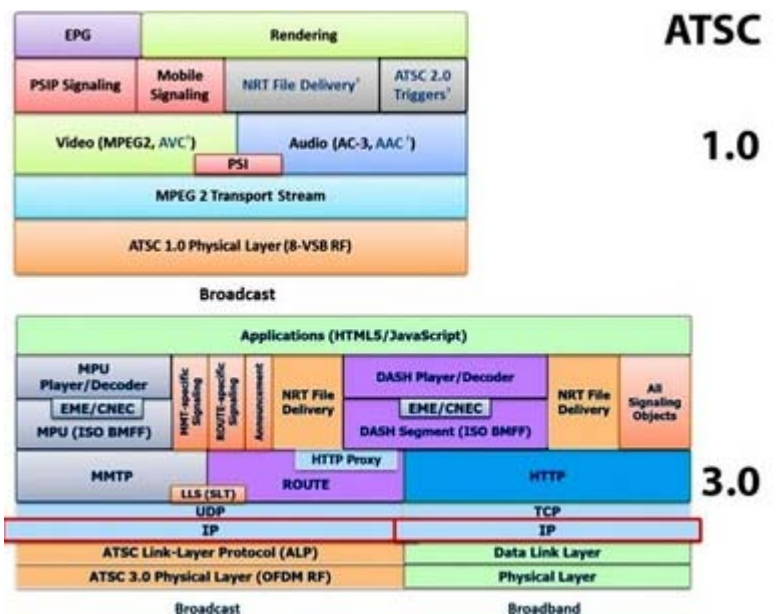
So, what's all the fuss about this new ATSC 3.0?

If you're thinking the recent hype around ATSC 3.0 means you have to buy a new TV right away, don't worry. Although ATSC 3.0 is coming soon, it's not quite time to go looking for a new compatible TV just yet, and any advice to hold off on the purchase of a new TV so you can wait for one with an ATSC 3.0-compatible tuner may also be misplaced. The fact is we just don't know yet how the business of tech will respond to a world blanketed in ATSC 3.0 signals. But one thing is for sure, ATSC 3.0 should be such a significant paradigm shift that it won't be stuffed into a tuner box inside your TV and forgotten. To reap most of the benefits of the new standard we know of today, it won't matter if your TV is directly compatible or not.

When the next generation TV is deployed it will be the first time that over-air TV will be built on an Internet protocol backbone. This means opening the door to interactive viewing features for televisions, cell phones and other devices. ATSC 3.0 is not only going to be a cord cutter's dream come true, it's likely to give wireless network providers a taste of added competition.

Under the hood of [ATSC 3.0](#) is a digital stack capable of bootstrapping new features well into the future, including transmissions that the ATSC or broadcasters haven't even dreamed up yet. The ATSC's goal was to make this a truly future-proof standard that will relieve today's wireless networks of many of their most common duties. But don't take our word for it - here's [FCC chairman Ajit Pai](#) to give us the movie trailer script for ATSC 3.0.

“Imagine a world in which TV broadcasts of your favorite show or new programs were delivered in Ultra High Definition and immersive audio. Imagine a world in which programming was hyperlocalized and broadcasters could deliver niche content to specific geographic areas within a station's signal areas. Imagine a world that offered Americans with



disabilities far better accessibility options for experiencing broadcast television. Imagine a world in which every consumer smartphone could serve as an over-the-air programming device,”

said Chairman Ajit Pai in a prepared statement outlining just a few of ATSC 3.0 capabilities. In other words, ATSC 3.0 will be a free over-air broadcast of the very latest interactive audio and video technology.

ATSC 3.0 Vital Statistics

Imagine a world in which every consumer smartphone could serve as an over-the-air programming device.

- Transfer rate: Up to 57 Megabits per second on a 6 MHz channel (up from ATSC 1.0 19.4 Mbit/s)
- Video Codec: HEVC/H.265 (ATSC 1.0 used MPEG-2)
- Progressive Video: Up to 4K UHD or 3840 X 2160 resolution at 120 FPS
- High Dynamic Range (HDR) imaging
- 3D TV compatible - just in case it makes a comeback
- Dolby AC-4 & MPEG-H 3D Audio
- Multi-audio track by program
- Dynamic range control
- Adaptable single frequency network transmission systems for improved over-air reception from ATSC 1.0

But what Happened to ATSC 2.0?

When the ATSC set about improving the digital TV stream, it started off as a logical progression from the 1.0 version that is in use today. It first set about to create a backward-compatible enhancement to resolution. But just as planning was underway for ATSC 2.0, it was already being eclipsed by a much more ambitious plan to totally revolutionize the broadcast medium - [the result was ATSC 3.0](#).

While the new signals won't be backward compatible to your ATSC 1.0 tuner, that shouldn't be a cause for alarm. Once the new broadcast standard is rolled out, networks will share bandwidth so as to send today's digital TV signals alongside the new one. Even if someday broadcasters abandon ATSC 1.0 signals completely, low-cost HDMI or USB dongles could easily take the place of an ATSC 3.0 compatible tuner. We're already seeing this as many TVs sold today are built with no tuner at all - they're referred to as monitors. Low-cost HDMI dongle solutions are plentiful and provide any tunerless HD monitor all the benefits of a smart TV.

ATSC 3.0 Wireless Devices

ATSC WirelessATSC 3.0 is likely to change our whole concept of a TV tuner. Instead of being part of the internal function of a TV as they are today, many households will find the ATSC 3.0 tuner most beneficial as an external device set-up, alongside the household high-speed Internet modem. We'll be able to plug our new ATSC 3.0 box into into our wi-fi router to extend its capabilities over wi-fi.



The possibilities are significant, as ATSC 3.0 will blur the line between TV and wireless Internet. Sending your home 4K video and multi-channel high-resolution audio is only the beginning. Our very notion of TV will transform as it provides us a free, interactive suite of over-air digital services. For conventional television networks to survive, they'll have to start thinking of themselves not as a broadcast medium, but as competition in the same arena as iTunes, Google Play or Amazon. They'll have to become their own Intranets, complete with in-station apps, programming and features.

We haven't even mentioned that the signal strength of upcoming ATSC 3.0 broadcast promises to be stronger than today's digital broadcast. Those of us who switched from analog to digital over-air broadcast TV learned quickly that our present digital signal strength is weaker than analog. But the new digital standard will make up for this with the inclusion of an adaptable frequency feature that the ATSC says will specialize in, allowing signals to travel further and to penetrate deeper into buildings and basements within range.

That means broadcast TV promises to be relevant again, even as you travel the subway. In the near future you'll be able to pull out your tablet, run your network TV app and start watching a local sporting event.

ATSC 3.0 - The Olympic Connection

While we didn't see much in the way of ATSC 3.0 compatible TVs at [CES 2017](#), next year will be a different story. In fact, ATSC 3.0 may be one of the largest drivers of devices in several categories at CES 2018, from TVs and mobile devices to set-top-boxes, and South Korea is leading the charge.

Part of the reason for this is the 2018 Winter Olympics to be held in Pyeongchang, South Korea. As a consumer electronics leader, it's no surprise that South Korea's next Olympic games will not just showcase sport, but also bleeding-edge technology. Korean broadcasters and LG electronics promise to transmit the 2018 Winter Olympics in its full 4K UHD, HDR imaging glory over ATSC 3.0.



In January 2017, LG was already prepared with some of the first fully [ATSC 3.0-ready 4K Ultra HD TVs](#), showcased at CES. By February, LG and Korean broadcaster SBS announced the first ever end-to-end 4K Ultra HD broadcast over ATSC 3.0.

This first in broadcasting was just a test as South Korea prepares for continuous ATSC 3.0 deployment across the nation in time for next year's Olympics. The end-to-end broadcast is an important step forward in proof of concept for the new standard. On the homefront, US broadcasters have demonstrated ATSC 3.0 using pre-recorded 4K UHD material. But the Korean test was the first of its kind because it used a live 4K camera feed complete with real-time IP transmission through the SBS network studio in Mokdong, South Korea.

That's good for South Korea, but US-based networks aren't sitting this revolution out. Presently, UHD broadcasts over "next generation TV" are being tested at [WRAL in Raleigh-Durham NC](#) and [WJW in Cleveland OH](#). These markets are destined to be America's early adopters of the format.

Over the next couple of years we should see early testing, and then full ATSC 3.0 deployments popping up all over the US. However, the FCC is calling for a voluntary migration to the new standard, so there will be no hard date or a singular nationwide shift. In fact, the FCC proposal will require stations to simulcast today's digital standard alongside next generation TV signals.

Potential Unintended Consequences of an ATSC 3.0 Revolution

Unlike the situation in South Korea, the US transition to television's next generation will likely plod slowly through the continent, arriving first at the larger tech-savvy cities then eventually spreading to everyone else based on projected profit in those markets. There should be a critical mass when the networks find a revenue model for ATSC 3.0 capabilities that makes it a net loss to keep any market back at ATSC 1.0. But what will that look like for us the consumer?

Interactive TV means transactions and revenue streams for networks, either through direct sales or context-sensitive advertising directly to the individual consumer. Direct competition to wireless Internet providers may bring more innovation from ISPs, and possibly relief to your spiralling cell phone bill.

Immediate benefits for cord cutters are obvious - easier-to-receive digital TV transmissions means no reliance on a rooftop antenna, cable or satellite. But it's unlikely ATSC 3.0 will result in any long-term gain for free access to digital entertainment.

In fact, ATSC 3.0 opens the door to fully authenticated, tiered broadcast services. It is surely no broadcaster's long-range goal to rely on the traditional advertising revenue model TV has used for over half a century. Even the influence of online digital advertising is slowly declining, and the next generation of TV will be hungry for new ways to get paid.

Broadcasters may look to a variant of the Netflix model. Perhaps soon we will find ourselves directly crowd-funding subsequent seasons of our favorite TV series. Meanwhile, next gen TV will bring a new meaning to home shopping. Perhaps you'll only have to tap the screen to order replica sunglasses of the ones you're presently watching David Caruso slide onto his face as he utters another dreary quip to start an episode of CSI. Maybe a drone will even drop your new shades off at your front door before the credits on that episode roll. YEAAAAAAAAHHHH!!!!

The Potential Dark Sides to Free Faux Internet

We already mentioned context-sensitive advertising, in any two-way digital digital transmission where you're providing any personal information such as your home zip code, demographic information be sure you look to look for privacy settings and that you have the ability to choose if you want to send your viewing habits, purchases or other online activity. We learned recently that even turning on [privacy settings is no guarantee of privacy](#). But privacy setting do not apply when it comes to the real spying from government agencies like the NSA because when using ATSC 3.0, like any two-way digital communication that knows who you are, you use it under the assumption of surveillance.

Tiered, authenticated broadcast services that look an awful lot like the Internet may seem suspiciously familiar to anyone that was in favor of Net Neutrality. The FCC helped Americans

evade a worst case scenario situation by its 2015 move that reclassified broadband Internet to status of common carrier. This means it's illegal for Comcast (or any ISP) to provide tiered internet services, meaning - one inexpensive level of Internet that provides access to its own online content services at high speeds, while throttling speeds on Internet services outside the scope of its own business interests, such as Netflix, YouTube or any number of startups exploring the possibility of Internet technology.

Net Neutrality Recap

A "tiered Internet" was seen as the potential drawback when your ISP also happens to be your content distributor - that's exactly the situation when you subscribe to cable TV and broadband Internet services from the same company. It's a conflict of interests on scale with the prospect of investment firms, banks and insurance companies being allowed to merge. But in this case, a free but selective Internet-entertainment experience, brought to you by many of the same content distribution corporations that lobbied against Net Neutrality, could potentially make a future open-Internet a redundant cost few would be willing to pay for.

Maybe not at first when ATSC 3.0 looks more like a broadcaster than an online service. But ATSC 3.0 and its "interactive broadcasting" capability coincides with a [decline in an open-web experience](#) anyway. Today, apps and one-stop gated experiences like Facebook, Pinterest are the new Internet experience of choice.

Will the REAL free Internet, please stand up?

So the question to be answered in the near future is: If everyone receives a (cost) FREE, government subsidized, corporate sponsored over-air, internet-like experience inside a walled garden with pretty curtains covering the bars, will anyone still pay for the open Internet where you're truly FREE to go where you please?



In the 90s we called it surfing the net because it was a novel experience to go where you pleased. The California-inspired verb of choice echoed a no-limits freedom from "no entry" pages, or any of the consequences of running up against access walls. This was a time when gated, Internet-like communities were the norm. Only the very few could venture outside a Bulletin Board Services and a-la carte online services like CompuServe, Prodigy and AOL. Social media apps inside a free ATSC 3.0 environment could bring a return to these days for the majority of Internet users.

When a content owner becomes an ad-hoc ISP, we know whose content gets priority. Let's go into ATSC 3.0 with our eyes open to the dangers of the tiered Internet services the Net Neutrality Act sought to avoid.

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