

## Cutting Edge: 1956

CM T-W antenna

Fig. 1—Seven element terminated travelling wave antenna.

**WHAT TUNERS MOST DXERS ARE USING... ACCORDING TO OUR FACEBOOK POLL**

**FCC REPACKING & ATSC 3.0 PLANNING MOVES FORWARD**

The Official Publication of the Worldwide TV-FM DX Association



### METEOR SHOWERS

Lyrids

**APRIL 16-25**

Eta Aquariids

**APRIL 19- MAY 26**



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Prototypes Expected

# 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, GREG CONIGLIO, KEITH MCGINNIS AND MIKE BUGAJ.



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## PAGE TWO

The Page You Turn To for News of the WTFDA and the TV/FM DX World

Mike Bugaj - [mikeb@wtfda.org](mailto:mikeb@wtfda.org)

March 2015

### SPRING!

Spring is here and in most places it actually feels like spring. Here in the northeast the date says it's spring but the temperatures and the snow on the ground say otherwise. But we are still hopeful that warmth finally arrives here sometime in April.

April is the month when people start thinking about antennas, skip and tropo. Thoughts of Es might be a bit pre-mature for most of us (May is more like it) except for those living down south in the Gulf states who tend to get first grab at Es. As far as tropo, DXers in MI, OH, IN and surrounding states have already been treated to some of it. It will be a little while yet before any of us in the northeast experiences it here.

### MEMBERS AND MORE

This month we welcome Mike Cooper (TX) and Patrick Jeffery (ME) to the WTFDA. Mike's ham calls are WB4LXU. Welcome to you both!

Renewals received during the period of Feb11 through Mar 8 were received from David Legler (MN), Chester Jaffee (CA), George Rogers (GA), Dan Dankert (CA), Harry Hayes (PA), Gerard Hart (NY), Joe Perge (OH), Allan Dunn (MA), Roger Winsor (IN), Jeff Wolf (MD), Lee Baca (CA), Robert Steadman (WI) and Gunter Lorenz (GER). Thanks everyone for supporting your club!

### MADISON-MILWAUKEE GTG

An email from Tim Noonan informs us that the 22<sup>nd</sup> annual Madison-Milwaukee Get-Together returns to the Milwaukee area this year on Saturday, August 15. This is an all-band event, open to anyone with an interest in the radio hobby. Your hosts are Tim and Jill Noonan and their sons Chris and Paul. You can obtain more information by writing to Tim at [dxing2@aol.com](mailto:dxing2@aol.com) or by phone 414-813-7373.

In the past this GTG has attracted Dxers from all over the Midwest and has been attended by quite a few WTFDA members.

Also we've received no additional information regarding the NRC/WTFDA/IRCA convention to be held this summer. If we do find out anything more about this convention, we'll be sure to let you know, hopefully with enough time to allow you to plan accordingly.

### SDR PLAY

Jon Hudson of the SDRPlay team tells us that the price of their RSP (Radio Spectrum Processor...otherwise known as an SDR) has been reduced to \$149USD plus shipping. That's good news for TV/FM Dxers since the new price is well below that of the Elad FDM-S2 and now below that of Airspy (which I think is currently \$199USD).

To read reviews of this SDR visit the WTFDA website (<http://www.wtfda.org>) where you can read mine, or visit [www.sdrplay.com/reviews.htm](http://www.sdrplay.com/reviews.htm) to read what others have to say about this SDR.

### RECEIVER POLL

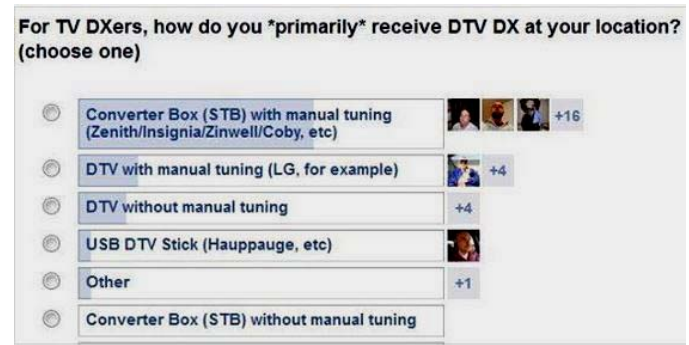
Over the winter we took a poll of members on the WTFDA Facebook group called TV and FM Dxing regarding the types of receivers they used in their TV and FM DXing pursuits. Here are the results from our FM DXers there:



What we find in these results is that the majority of those who participated use HD

radios like the Sony XDR-F1HD or the Sangean HD or HDT1 tuners (24 people). Next are the portables used by 12 people, then FM tuners with digital readouts (9 people), then SDRs with six users. And at this point in the history of FM DXing, almost no one is still using a tuner with analog tuning or an FM receiver (tuner and amp in one box). And nobody admitted to using an ultralight or a car radio primarily. Really these results are not surprising since the XDR-F1HD revolutionized FM DXing with its amazing selectivity and low price in the beginning. SDRs have not yet begun to take off but probably will now that their prices are dropping fast and Sony prices are rising and the units are becoming old and harder to find and used enough to begin failing.

Our TV DXers in the group chose these:



From these results we find that almost everyone who does any DTV DXing in that group uses either the Zenith or the Insignia converter boxes. Only five people use DTVs with manual tuning and four of them use DTVs without manual tuning. We never did find out what that "other" was. Once again there no surprises here.

If you have a burning question to ask and would like to see a poll of yours on the WTFDA Facebook group, send your question and a list of possible answers to me and I'll post it and pin it there.

Next stop is May and with any luck, a start to the 2015 Es season for somebody. CU then.



# TV News

Douglas E. Smith  
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**April 2015**

## Abbreviations:

AF	<b>A</b> pplied <b>F</b> or (a new station)	NW	<b>N</b> ew station on the air
Aux	<b>A</b> uxiliary (backup) transmitter	PA	<b>P</b> roposed <b>A</b> mmendment
CC	<b>C</b> allsign change	PC	<b>P</b> ower (and/or tower height) change on the air
CL	<b>C</b> ity-of-license change	PG	<b>P</b> ower change <b>g</b> rant
CX	<b>C</b> anceled	PR	<b>P</b> ower change <b>r</b> equested
DC	<b>C</b> onverted to <b>D</b> T <b>V</b>	RA	<b>R</b> eturns to the air
DCC	<b>D</b> igital <b>C</b> ompanion <b>C</b> hannel	QC	<b>C</b> hannel (? <b>f</b> requency?) change on the air
NS	Granted flash-cut to <b>D</b> T <b>V</b>	QG	<b>C</b> hannel change <b>g</b> rant
DCC			
DE	License/permit <b>d</b> eleted	QR	Channel change requested
DR	<b>R</b> equests flash-cut to <b>D</b> T <b>V</b>	RE	<b>R</b> einstated (previously-dismissed app.)
FC	Programming (? <b>f</b> ormat?) change	ROA	<b>R</b> equest of <b>A</b> pplicant
FTP	<b>F</b> ailure to <b>P</b> rosecute	SI	Off the air (? <b>s</b> ilent?)
GA	<b>G</b> rant <b>a</b> mendment (to table of channel allotments)	STA	<b>S</b> pecial <b>T</b> emporary <b>A</b> uthority
LC	<b>L</b> icense to <b>C</b> over	XC	Transmitter site changed
MX	<b>M</b> utually <b>E</b> xclusive	XG	Transmitter site change <b>g</b> rant
NDA	<b>N</b> on- <b>d</b> irectional <b>a</b> ntenna	XR	Transmitter site change requested
NS	Permit granted for <b>n</b> ew station	lpdtv	Low Power Digital TV
DG	<b>G</b> rant <b>e</b> d conversion to <b>D</b> T <b>V</b>	DRT	<b>D</b> igital <b>R</b> eplacement <b>T</b> ranslator

## News:

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



### CANADA



#### British Columbia

Grand Forks	7	CISR-DT-1	DG	513w/-368m
Santa Rosa	44	CISR-DT	DG	2.255kw/565m
Taghum	23	CKTN-DT-2	DG	1.45kw/-246m



### Guam

Dededo	22	KEQI-LP	DC	1.95kw, 13-29-21/ 144-49-41
Tamuning	14	KTGM	<b>XC</b>	<b>13-29-21/ 144-49-41</b>



### USA



### Alabama

Talladega	25	WOIL-LP	PR	<3kw, 33-24-41/ 86-12-27
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**Alaska**

<i>Fairbanks</i>	30, K30ET,	CX
	34, K34EJ,	
	36, K36ED,	
	38, K38EL,	
	40, K40EN,	
	42, K42EC,	
	44, K44EK,	
	46, K46EH,	
	48, K48FG,	
	50 K50EH	
<i>Glennallen</i>	7 K07QS	CX
<i>Homer</i>	2 K02IB	CX
<i>Ketchikan</i>	9 K09YQ	CX
<i>Manley Hot Springs</i>	6 K06JX	CX
<i>Palmer</i>	9 K09JE	CX
<i>Seward</i>	3, K03FO,	CX
	7 K07PG	
<i>Sitka</i>	5 KSCT-LD	DG 100w, 57-03-09/ 135-19-53



**Arizona**

<i>Littlefield</i>	17 KZVE-LD	AF dismissed; DCC for analog 30
<i>Littlefield</i>	30 KZVE-LD	DG 15kw, 36-29-22/ 113-55-14
<b>Tucson</b>	<b>9 KGUN-TV</b>	<b>PG&gt;36.5kw, 32-24-55/ 110-42-51</b>



**California**

<i>Bridgeport</i>	2, K02JX,	CX
	7, K07QM,	
	11, K11HS,	
	13 K13EX	
<i>Crowley Lake</i>	15, K15DP,	CX
	25 K25EB	
<i>Dunsmuir</i>	5 K50BR	CX
<i>East Weed</i>	K33DI	CX
<i>Green Point</i>	5 K05EQ	CX
<i>Happy Camp</i>	7, K07IX,	CX
	9, K09PI,	
	11, K11GO,	
	13 K13GL	
<i>Hopland</i>	6, K06FA,	CX
	11, K11TD,	
	13 K13ID	
<i>Indio</i>	19 KLPS-LP	CX

<i>Inyokern</i>	19 K19CL	CX
<i>La Jolla</i>	35 K35DG	DG 150w
<i>Lake Shastina</i>	27 K27GH	CX
<i>Lakeport</i>	26 K26GK	CX
<i>Lewiston</i>	3, K03CT,	CX
	6 K06EX	
<i>Lompoc</i>	23 K23CL	CX
<i>Martinez</i>	49 K49HV	CX
<i>Monterey</i>	5 K05NA	PR>1kw
<i>Morro Bay</i>	22 K22EE	CX
<i>Paso Robles</i>	36 KJCN-LP	CX
<i>Potter Valley</i>	8, K08EE,	CX
	10, K10EQ,	
	12 K12DV	
<i>Redding</i>	10 KMCA- LD	PR>120w, 40-34-30/ 122-21-47
<i>Redding</i>	16 K16IW	NW 5kw, 40-39-15/ 122-31-12 (One Ministries)
<i>San Diego</i>	7 KZTC-LP	DC 1.5kw
<i>San Francisco</i>	3 K03HY	PG>3kw, 37-47-36/ 122-24-47
<i>San Jose</i>	2 K02QX	PG>3kw, 37-07-08/ 121-49-57; CL from Morgan Hill
<i>San Juan</i>	4 K04RS	PR<10w, 37-06-54/ 121-49-11; PG
<i>Bautista</i>		
<i>San Marcos</i>	36 KSKT-CD	DG from 43, 5kw, 33- 00-32/ 116-58-16; DC PR>3kw; CL from Petaluma; PG
<i>San Rafael</i>	4 KTVJ-LP	
<i>Santa Maria</i>	51 K51GB	CX
<i>Seiad Valley</i>	4, K04NU,	CX
	8, K08EQ,	
	12 K12JD	
<i>Susanville</i>	42 K42GV	CX
<i>Swauger Creek</i>	51 K51CP	CX
<i>Willow Creek</i>	34 K34BW	CX



**Colorado**

<i>Eads</i>	19 NEW-lpdtv	AF 327w, 38-22-57/ 102-58-48 (Kiowa Co.)
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**Florida**

<i>Chiefland</i>	33 W33BL	DR 15kw/ 67m; DG
<i>Gainesville</i>	17 W17DH	PR>6kw, 29-46-35/ 82-16-50
<i>Gainesville</i>	25 WFEO-LD	NW 3kw, 29-25-05/ 82- 32-57 (King Forward); PG>10kw



Layton	16 W16CA	DC 15kw, 24-49-16/ 80-49-07; CL from Big Pine; PR<1kw, 25-00-23/ 80-31-15
Ocala	8 WOFT-LD	PG>3kw, 28-35-12/ 81-04-58
Ocala	35 W35CZ	XR 29-46-35/ 82-16-50
Ocala	44 W44DS	PR<10kw, 29-25-03/ 82-32-58 dismissed
Ocala	50 WFEF-LD	PR>6kw, 29-04-44/ 82-05-30
Sebring	38 WALM-LD	PR>15kw, 27-30-38/ 81-31-53
Wabasso	33 W33DB	XR 27-07-18/ 80-23-19



### Georgia

Athens	38 WVND-LD	FC: sold to Tri-State Christian TV PR>10kw
Augusta	21, W21DR, 27 W27DY	
Augusta	21, W21DR, 25 WQEP-LD	PG>10kw
Dalton	47 WDGA-CA	DR from 43, 3.17kw, 34-44-00/ 85-01-03
Dalton	49 WDNN-CA	DR 5.92kw
Gainesville	31 WFUB-LD	QC from 48
Valdosta	30 WVCZ-LD	PR<500w, 30-45-13/ 83-21-20



### Hawaii

Hilo	38 KHOH-LP	CX
Hilo	45 K45CT	DC 9.85kw
Kailua-Kona	32 KKAM-LP	CX
Wailuku	28 K27DW	DC from 27, 1.08kw



### Idaho

Boise	22 KRID-LD	NW 15kw, 43-45-17/ 116-05-50 (Karlo Maalouf)
Bonnars Ferry	40 K40MT	QG from 51, 230w
Coolin	18 NEW- lpdtv	AF 200w, 48-35-36/ 116-54-29 (Priest Lake Translator Dist.)



### Illinois

Mount Vernon	11 WPXS	QR from 21, 160kw/172m, 38-36- 39/ 89-45-32; amendment from 211m & to change site
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### Indiana

Clarksville	15 WWJS-CD	NW 15kw, 38-22-09/ 85-49-45
Fort Wayne	45 WFWC-CA	DR 2.15kw; DG
Jeffersonville	16 WJYL-CD	NW 9.55kw, 38-22-09/ 85-49-45
Lafayette	23 W23EA	PR<6kw
Marion	15 W15CZ	XR 40-25-17/ 85-49-27
Salem	41 WHAN-LP	AF 15kw, 38-16-18/ 85- 56-10; DCC for analog 17; NS
Terre Haute	28 W28DZ	XR 39-31-37/ 87-00-02



### Iowa

Marshalltown	44 KDAO-LP	AF 1.38kw; DCC for analog 45
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### Kansas

Topeka	16 KAJF-LD	PG>10kw, 38-59-26/ 95-14-00
Topeka	25 KCKS-LD	XC 38-53-23/ 95-17-17 (site is just south of Lawrence); PR>15kw, 39-05-31/ 94-56-42



### Kentucky

Campbells- ville	23 WLCU-CA	AF 3kw, 37-20-38/ 85- 21-34; DCC for analog 4
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**Maine**  
Bangor

18 WBGR-LD NS 100w, 44-52-44/  
68-52-58; DCC for  
analog 33



**Missouri**  
Joplin  
St. Louis

35 KJPX-LD DG 13kw  
49 KEFN-CA AF 15kw; DCC for  
analog 28



**Montana**  
Helena

12 KTVH-DT PG<671m, 46-49-29/  
111-42-12

**Helena**

29 KMTF PG<646m, 46-49-29/  
111-42-12

Hot Springs  
Superior

18 K45DQ QR from 45 dismissed  
6, NEW- AF 4w, 47-10-30 /114-  
15 lpdtv 55-00 (Superior TV  
Translator Dist.)

Tampico

34 NEW- AF 318w, 48-20-29/  
lpdtv 107-08-58 (Valley Co.  
TV Dist. #1)



**New York**

Gouverneur  
Ogdensburg  
Oneida  
Oneida  
Syracuse  
Syracuse

9 WNGF-LP CC from W09CV  
20 WNGJ-LP CC from W20CV  
15 WCUL-LP CC from WTKO-LP  
36 WTKO-CA CC from WCUL-CA  
39 WNDR-LP CC from WBLZ-LP  
49 WBLZ-LP CC from WNDR-LP



**North Carolina**

Boone

24 WLNN-LP DR 15kw, 36-14-05/  
81-42-22

Fayetteville  
Greenville

22 WIRP-LD PR>6kw  
14 WIED-LD PR>6kw

Manteo

17, W17CT, PC>15kw, 35-51-54/  
24, W24EC, 75-39-00  
28, W28CJ,  
30, W30DN,  
45 W45CL  
22 W22EN

Manteo

NW 15kw, 35-51-54/  
75-39-00 (Lawrence F.  
Loesch)

Smithfield

34 WARZ-LD PG<1.25kw, 35-40-  
34/78-32-08; PC



**Ohio**

Canton

21 W21DI PR>6kw, 40-36-42/  
81-42-17; PG

Canton

25, W25EK, XR 40-36-41/  
43 W43DB 81-27-02; XG

Canton

27 W27DL PR<3kw, 40-25-00/ 81-  
52-06; PG

Cincinnati

19 WBQC-LP DR from 25, 15kw  
dismissed. Built as  
DCC on 47 instead.

Cincinnati  
Cleveland  
Cleveland

25 WBQC-LP CX  
16 W35AX DC 10kw  
32 WRAP-LP PR<8.7kw, 41-22-57/  
81-42-06



**Oklahoma**

Enid

48 KUOC-LD PC<6kw, 35-59-48/  
97-54-29



**Oregon**

Bend

15 KABH-LP CX

Brookings

49 KBSC-LP CX

Black Butte

4, K04HK, CX

Ranch

5 K05GZ

Cascadia

4 K04CX CX

Dorena

2, K02GL, CX

4 K04GR

Grants Pass

36 K36HL CX

La Grande

2 K02PJ CX

Salem

21 KJWY-LP CX

Vale

11 K11MK CX

**Pennsylvania**

Uniontown 45 WWAT-CA DR 558w

**South Carolina**

Charleston 20 WBSE-LP DR 6kw; PG  
 Florence 44 W44CU PR>10kw dismissed  
 Myrtle Beach 15 W15CY PR>4kw  
 Myrtle Beach 27 W27DI PR<6kw

**South Dakota**

Aberdeen 42 K42KC CX  
 Rapid City 23 K23KK PG>15kw, 44-04-00 /  
 103-15-01  
 Rapid City 32 K32JG XR 43-45-05/  
 96-53-20; XG

**Texas**

Austin 31 KBVO-CD QC from 51, 15kw  
 Beaumont 16 K16JC PR>3kw  
 College Station 34, KZCZ-LD, PR>6kw  
 41 K41LT  
 Fredericksburg 44 KHPF-CA DG 45w  
 La Feria 23 KCWT-CD XR 26-08-33/  
 97-49-59; XC  
 Longview 26 KCEB QG from 51  
 Tyler 21 K21KT PR<800w, 32-15-34/  
 95-22-03; PG  
 Tyler 27 KDKJ-LD XR 32-15-34/  
 95-22-03; XG  
 Tyler 29 K29JE PR<1kw, 32-15-34/  
 95-22-03; PG  
 Tyler 30, K30KP, PR>5kw, 32-15-33/  
 33, K33KN, 95-22-03; PG  
 42 K42JL  
 Victoria 7 KBHO-LD XR 29-08-18/ 96-21-25  
 dismissed; PR>1kw,  
 29-02-37/ 96-31-05  
 Victoria 10 K10PL NW 3kw, 29-06-47/ 97-  
 16-53 (Jose Salas)  
 Victoria 38 KQZY-LP CC from K38IG  
 Victoria 48 KVCV-LD NW 8kw, 28-47-23/ 96-56-  
 20 (Ismael Martinez Jr.)

**Utah**

Duchesne 34 K34FV DR 102w, 40-09-18/  
 110-23-29; DG  
 Juab Co. 13 K13IY NW 100w, 39-29-31/  
 111-49-37 (Garfield Co.)  
 Logan 24 K24KV NW 700w, 41-53-35/  
 112-04-40 (EICB-TV  
 East)

**Vermont**

Burlington 30, WBVT-LP, CX  
 39 WGMU-LP  
 Burlington 49 WGMU-LD AF 15kw CX  
 Monkton 19 W19BR CX

**Virginia**

Richmond 17 WXOB-LP PG>150kw, 37-30-45/  
 77-36-06

**Washington**

Hoquiam 24 K24IT XC 46-34-03/  
 123-35-59  
 Wenatchee 34 K34EM CX

**Wisconsin**

Eau Claire 20 W20DU PR>6kw  
 Elk Mound 18 WBWI-LP CC from WMBZ-LP



# FM NEWS for CANADA and USA

APRIL 2015

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## INDEX OF ABBREVIATIONS USED IN FM NEWS

APP: application  
 APP Mod: Change to an already submitted application  
 Class: FM license class  
 CoL: City-of-License  
 CP: construction permit (authority to broadcast with facilities noted)  
 CP Mod: change to an already granted CP  
 DA: directional antenna  
 EE: English language  
 FF: French language

\$: Stereo  
 SS: Spanish language  
 STA: Special Temporary Authorization  
 XL: Transmitter Location change to  
 > : change to [in formats]  
 < : an increase to [in technical data]  
 > : a decrease to [in technical data]  
 [ ]: Calls in brackets signifies assumed or applied-for status  
 Note: antenna heights are HAAT except where noted



### — CALL LETTER ACTIONS —

		<u>Old Call</u>	<u>New Call</u>
BC	Sechelt	104.7 CKKS-FM	CFUN-FM
BC	Vancouver	104.3 CHHR-FM	CHLG-FM
BC	Vancouver	104.9 CFUN-FM2	CKKS-FM
ON	Bancroft	99.3 CBLV-FM	CBLA-FM5

### — NEW STATIONS ON THE AIR —

ON	Temagami	106.1 CBCS-FM1	50 W/16 m, 47-04-08/79-47-16; Class LP; Mono [per IC, the former AM LPRT on 1340 has been shut down]
NS	Sydney	97.5 CKJM-FM2	830 W/(-) 7 m, 46-08-27/60-10-54; Class A; is // CKJM-FM 106.1 Cheticamp
QC	Hudson/Saint-Lazare	106.7 CHSV-FM	2.65 kW/95 m DA, 45-24-22/74-11-58; Class A; \$

### — FORMAT and SLOGAN CHANGES —

AB	Edmonton	92.5 CKNG-FM	Changes slogan to: <i>Fresh Radio</i>
BC	Kamloops	97.5 CKRV-FM	> Variety Hits: <i>The River</i>
BC	Vancouver	94.5 CFBT-FM	Changes slogan to: <i>Virgin Radio</i>



BC Vancouver	104.7	CFUN-FM	Changes slogan to: <i>Sonic FM</i> [includes: CFUN-FM1 92.5 Abbotsford; and CKSR-FM 107.5 Chilliwack] > CHR: <i>KISS 103.1</i> > Modern AC: <i>Fresh Radio</i>
BC Victoria	103.1	CHTT-FM	Changes slogan to: <i>KISS 102.3</i>
MB Winnipeg	99.1	CJGV-FM	Changes slogan to: <i>KISS 102.3</i>
MB Winnipeg	102.3	CKY-FM	New station signs on as a FF Community/Variety station //
NS Sydney	97.5	CKJM-FM2	CKJM-FM 106.1 Cheticamp
ON Cornwall	104.5	CFLG-FM	Changes slogan to: <i>Fresh Radio</i>
ON Hamilton	95.3	CING-FM	Changes slogan to: <i>Fresh Radio</i>
ON Kingston	93.5	CKXC-FM	Changes slogan to: <i>Country 93.5</i>
ON Kingston	96.3	CFMK-FM	> Active Rock: <i>FM 96</i>
ON Kingston	104.3	CKWS-FM	> Hot AC: <i>Fresh Radio</i>
ON Peterborough	100.5	CKRU-FM	> Hot AC: <i>Fresh Radio</i>
ON Saint Thomas	103.1	CFHK-FM	Changes slogan to: <i>Fresh Radio</i>
QC Hudson/Saint-Lazare	106.7	CHSV-FM	Signs on with Soft AC [EE]: <i>Jewel 106.7</i>
QC Montreal	94.3	CKMF-FM	> Alternative Rock: <i>NRJ</i>
QC Rouyn-Noranda	96.5	CHOA-FM	> Hot AC: <i>RYTHME FM</i>



**— TECHNICAL CHANGES —  
GRANTS FOR NEW STATIONS**

AB Fort McKay	106.3	CIYU-FM	CP granted for: 50 W-V/7 m, 57-10-53/111-38-11; Class LP; \$ [The format will be EE-language with Pop, Rock, Dance and Aboriginal music]
QC Percé	91.9	CKRJ-FM	440 W/362 m, 48-31-36/64-14-37; Class A; \$ [will be FF-language TIS]



**GRANTS TO EXISTING STATIONS**

BC Trail	95.7	CJAT-FM	CP granted for: < 6-V//< 13.5 kW-H (adds V)/< 505 m, XL to 49-05-30/117-49-16; Class C; Mono
ON Hearst	91.1	CINN-FM	< 28 kW (adds V/> 41 m (to) DA, XL to 49-41-14/83-39-05; Class B; \$
NS Mulgrave	103.1	CBH-FM2	39.1 kW-V//> 81.7 kW-H (adds V)/< 192 m DA, 45-35-56/61-24-44; Class C1; \$ [Bayshore]
NS Mulgrave	106.7	CBHB-FM	> 49.98 kW-V//< 100 kW-H, < 192 m (to) DA, 45-35-56/61-24-44; Class C; (to) \$
ON Thunder Bay	90.5	CKSI-FM	< 250 W-H (drops V)/> (-) 27 m, XL to 48-25-32/89-16-08; (to) Class A1; Mono
SK Big River	92.5	CKBI-1-FM	< 1.4 kw-V/< 87 m, 53-49-43/107-01-45; Class A; \$ [is // CKBI-900 Prince Albert, Alberta]



**APPLICATIONS FROM EXISTING/PROPOSED FACILITIES**

BC Campbell River	104.5	CVYT-FM	Applies for: < 250 W/< 115 m, 50-03-13/125-19-35; Class A1; Mono
BC Surrey	107.7	CP MOD	> 2 kW/159 m DA, XL to 49-11-02/122-50-41; Class A; \$
BC Trail	94.9	CBTA-FM	< 6.1 kW-V//14.2 kW-H/505 m, 49-05-30/117-49-16; Class C; Mono
NS Mulgrave	103.1	CBH-FM2	39.1 kW-V//> 81.7 kW-H (adds V)/< 192 m; 45-35-56/61-24-44; Class C1; \$
NS Mulgrave	106.7	CBHB-FM	> 49.98 kW-V//< 100 kW-H/> 192 m; 45-35-56/61-24-44; Class C; (to) \$
NS Mulgrave	107.5	CBAF-FM11	> 47.86 kW-H//< 100 kW-V/< 192 m (to) DA, 45-35-56/61-24-44; Class C; Mono
ON Kitchener	94.3	CJTW-FM	< 420 WV/< 58 m, XL to 43-27-06/80-29-32; (to) Class A; move to 93.7 MHz



## APPLICATIONS FOR NEW FACILITIES

AB Red Deer	93.1	[CHIM-FM5]	Applies for: 50 W-V/50 m, 52-15-02/113-48-53; Class LP; \$ 22 kW/70 m, 45-04-13/79-18-09; Class B1; \$ [would be a commercial mainstream music station; The CRTC is not convinced that the Bracebridge-Gravenhurst area will be able to support an additional station and has issued a "calls for comments" regarding the application.]
ON Bracebridge	102.3	APP	
ON Chapleau	92.7	CHIM-FM8	1 W-V/10 m, 47-50-32/83-24-09; Class LP; \$
ON Hearst	95.5	VF2597	1.6 W-V/9 m, 49-41-08/83-39-56; Class LP; \$
ON Kapuskasing	92.3	[CHIM-FM10]	1.5 W-V/18 m, 49-25-20/82-25-24; Class LP; \$
ON Kirkland Lake	99.1	[CHIM-FM3]	1.6 W-V/28 m, 48-08-55/80-02-07; Class LP; \$
ON New Liskeard	103.5	[CHIM-FM4]	1.6 W-V/52 m, 47-29-40/79-41-21; Class LP; \$
ON North Bay	92.5	[CHIM-FM1]	50 W-V/57 m, 46-20-48/79-28-07; Class LP; \$
ON Sault Ste Marie	97.3	[CHIM-FM6]	50 W-V/9 m, 46-30-29/84-19-36; Class LP; \$
ON Smooth Rock Falls	101.9	VF2619	1.6 W/7 m, 49-16-51/81-37-20; Class LP; Mono
ON Timmins	102.3	[CHIM-FM]	32 W-V/76 m, 48-26-58/81-17-57; Class LP; \$; would be a Christian Adult Contemporary music format; application includes all 'CHIM-xx' LP facilities above [William Rowe]
ON Timmins	105.5	[CJTK-FM5]	800 W/61 m, 48-28-33/81-18-47; Class A; \$
NS Halifax	99.1	[CHHU-FM]	355 W-H/224 m DA, 44-39-03/63-39-25; Class A; \$ [would be Ethnic (72% Arabic) while other languages will make up the remaining 28%. Local programming will be aired during 102 hours of the broadcast week while the remainder will be a simulcast of CHOU-1450 Montreal. This is a re-submission after initially being dismissed in September, 2014]



### — DENIALS AND DISMISSALS —

AB Drumheller	99.5	CHOO-FM	The CRTC has denied their application to remove the condition of their license requiring that 10% of musical selections be folk and folk-oriented
NS Spryfield	94.7	CIRP-FM	The CRTC has denied their application to increase their power to 700 W/25 m.

### — OTHERNEWS —

ON Godfrey	93.7	CJCE-FM	License cancelled; call deleted
ON Hornepayne	92.3	CBLH-FM	The CBC has until October 31, 2015 to convert to 92.3 FM
NB Grande-Anse	90.3	CBAF-FM18	PR>100kw/97m, 47-49-01/65-08-50

#### NEWS ITEMS:

! The **CRTC** has summoned the licensees of the Aboriginal Voices Radio Network and three private radio stations to a hearing on May 13th to determine whether the licenses for these stations should be suspended or revoked due to continual issues of non-compliance, not adhering to mandatory orders, and ignoring conditions of license requirements.



The stations in question are: CKAV-FM 106.5 Toronto, ON; CKAV-FM2 106.3 Vancouver, BC; CKAV-FM3 - 88.1 Calgary, AB; CKAV-FM4 89.3 Edmonton, AB; CKAV-FM9 95.7 Ottawa, ON (currently off the air); CFSI-FM 107.9 Salt Spring Island, BC; CIHS-FM 93.5 Wetaskiwin, AB; and CKMN-FM 96.5 Rimouski, QC.



# UNITED STATES AND TERRITORIES



## — CALL LETTER ACTIONS —

### FULL POWER STATIONS

		<u>Old Call</u>	<u>New Call</u>			<u>Old Call</u>	<u>New Call</u>
AK Scammon Bay	91.9	CP	KYUP	ID Rexburg	98.1	KGTM	KQEZ
AZ Chandler	88.7	CP	KPNG	ID Shelley	98.1	KQEZ	KGTM
AR Altheimer	98.1	CP	KTPB	IL Chicago	100.3	WILV	WSHE-FM
AR Pine Bluff	99.3	CP	KPBA	IL Rochelle	102.3	WRHL-FM	WYOT
		... then KPBA	KHUC	IL West Salem	93.7	NEW	WOWA
AR Pine Bluff	101.3	CP	KHUC	MI Jackson	94.1	WVIC	WWDK
		... then KHUC	KPBA	MS Drew	95.3	CP	WDTL
CA Amboy	104.7	CP	KIHT	NE Kilgore	99.5	CP	KDJL
CA Mettler	98.9	CP	KHHT	SC Honea Path	103.1	WRIX-FM	WHQA
CA Indian Wells	95.9	KAJR	KJJZ	TN Elizabethton	99.3	WTZR	WEXX
CA Indio	102.3	KJJZ	KRHQ	TX Benavides	107.7	KXTN	KOUL
CA Los Angeles	92.3	KHHT	KRRL	WV Dunbar	94.5	WVTS-FM	WYNL
CO Colorado City	103.3	KLEZ	KJQY	WI New London	93.5	WGEE-FM	WGEE
GA Cochran	107.5	WYPZ	WRWR	WI Sturgeon Bay	99.7	WZDR	WDKF

### LPFM STATIONS

		<u>Old Call</u>	<u>New Call</u>			<u>Old Call</u>	<u>New Call</u>
AL Birmingham	93.3	CP	WFYN-LP	GA Newnan	104.5	CP	WVJR-LP
AL Birmingham	94.1	CP	WVXV-LP	GA Norcross	96.5	CP	WWXR-LP
AL Fairhope	89.9	CP	WYFR-LP	GA Tifton	103.9	CP	WSWD-LP
AL Fairhope	96.7	CP	WNPB-LP	HI Kailua-Kona	107.3	CP	KFIP-LP
AZ Flagstaff	101.5	CP	KSNZ-LP	IL Chicago	87.7	WGWG-LP	WRME-LP
AZ Flagstaff	107.1	CP	KLJX-LP	IL Chicago	99.1	CP	WJPC-LP
AZ Payson	98.9	CP	KPIH-LP	KS Topeka	97.7	CP	KFGB-LP
AZ Phoenix	107.5	CP	KPHQ-LP	KS Wichita	100.9	CP	KAXZ-LP
AZ Sierra Vista	94.1	CP	KJDB-LP	KY Brandenburg	95.3	CP	WLHN-LP
AR Fayetteville	98.7	CP	KDIV-LP	KY Lexington	99.7	CP	WXCN-LP
CA Atwater	107.7	CP	KFFW-LP	KY Shepherdsville	106.3	CP	WIOP-LP
CA Millbrae	96.1	CP	KQEM-LP	KY Vine Grove	96.9	CP	WENS-LP
CA Redlands	94.3	CP	KHSH-LP	LA East Baton Rouge	95.1	CP	WSGX-LP
CA Seaside	104.7	CP	KBMB-LP	LA Metairie	92.9	CP	WZPI-LP
CA Sacramento	93.3	CP	KZHP-LP	ME Dixfield	102.3	CP	WZTZ-LP
CA San Francisco	<sup>2</sup> 96.9	CP	KQEB-LP		... then WZTZ-LP		WGYZ-LP
CA San Francisco Sunset	<sup>2</sup> 96.9	CP	KQEA-LP	MD Annapolis	104.7	CP	WYZT-LP
CA San Pedro	100.7	CP	KCLA-LP	MA East Boston	94.9	CP	WZMR-LP
CA Walnut	104.7	CP	KQEV-LP	MA Framingham	96.5	CP	WBNU-LP
CA Walnut Creek	97.7	CP	KQWA-LP	MA Haverhill	97.9	CP	WHAV-LP
CO Colorado Springs	103.5	KJQY-LP	KLEZ-LP	MA Lawrence	98.1	CP	WGUJ-LP
CT Manchester	103.3	CP	WICT-LP	MI Flint	102.1	CP	WFAH-LP
FL Homestead	97.7	CP	WWPP-LP	MI Ironwood	102.1	CP	WCPP-LP
FL Jupiter	103.9	WJTW-LP	WJUP-LP	MN Fairmont	90.1	CP	KYEJ-LP
FL Kissimmee	95.7	CP	WLJJ-LP	MN St. Paul	97.9	CP	KQEP-LP
FL Lehigh Acres	95.7	CP	WSGD-LP	MO Macon	104.1	CP	KFOC-LP
FL Miami	98.7	CP	WPSI-LP		then ... KFOC-LP		KCNF-LP
FL Oakland Park	101.9	CP	WOIB-LP	MO Webster Groves	92.9	CP	KWRH-LP
FL Pembroke Pines	106.3	CP	WIPU-LP	MS Jackson	100.1	CP	WIWT-LP
FL Tampa	105.1	CP	WWZT-LP	MS Vicksburg	96.9	CP	WVMK-LP
FL Winter Park	101.5	CP	WPFA-LP	MT Garryowen	91.1	CP	KODH-LP
GA Augusta	97.3	CP	WMFJ-LP	NE Alliance	103.9	KMCR-LP	KLPH-LP



NE Blair	94.7	CP	KYTF-LP	TX Dallas	92.1	CP	KPVC-LP
NE Beatrice	100.1	KICR-LP	KPKA-LP	TX Denton	99.9	CP	KDVP-LP
NE Holdrege	106.5	CP	KMKP-LP	TX Euless	102.5	CP	KRQP-LP
NE Imperial	104.3	KSPR-LP	KNKP-LP	TX Fort Worth	97.5	CP	KFTW-LP
NE McCook	96.9	KHSM-LP	KQPK-LP	TX Houston	94.9	CP	KRUT-LP
NE Omaha	101.3	CP	KXNB-LP	TX Houston	101.5	CP	KHSX-LP
NV Las Vegas	103.1	CP	KQLS-LP	TX Houston	101.7	CP	KQEU-LP
NV Reno	97.7	CP	KRBP-LP	TX Leon Springs	97.9	CP	KCJV-LP
NH Londonderry	95.1	CP	WLGW-LP	TX San Angelo	102.5	CP	KWOJ-LP
OK Edmond	99.3	CP	KZUC-LP	TX South Houston	92.5	CP	KJJG-LP
OK Oklahoma City	97.7	CP	KSQE-LP	TX Tyler	93.7	CP	KZYY-LP
OK Purcell	93.9	CP	KQTR-LP	TX Tyler	104.9	CP	KJID-LP
OR Jasper	92.5	CP	KGEL-LP	UT Logan	92.3	CP	KBLU-LP
PA Philadelphia	<sup>1</sup> 92.9	CP	WGGT-LP	UT St. George	100.3	KTIM-LP	KDXI-LP
PA Philadelphia	<sup>1</sup> 92.9	CP	WRGU-LP	WA Bellevue	101.9	CP	KQES-LP
PA Philadelphia	<sup>1</sup> 92.9	CP	WRLG-LP	WA Seattle	100.3	KGUT-LP	KHUH-LP
PA Williamsport	98.9	CP	WOLR-LP	WV Ravenswood	92.5	WUCH-LP	WTGH-LP
SC Greer	92.1	CP	WGYT-LP	WI Glendale	89.3	CP	WMWG-LP
SC Sandy Springs	104.3	CP	WZFN-LP	WI Janesville	103.5	CP	WADR-LP
TN Greeneville	97.9	CP	WOFB-LP	WI Stanley-Boyd-Cadott	96.5	CP	WASB-LP
TN Murfreesboro	93.5	CP	WRHW-LP				

<sup>1</sup> - Share Time/Transmitter agreement - See *New LPFM Station Grants* for sharing details

<sup>2</sup> - Share Time agreement

### TRANSLATOR and BOOSTER STATIONS

		Old Call	New Call			Old Call	New Call
AL Livingston	100.1	W260CE	W261CS	KS Nickerson	98.5	K255AZ	K253BP
AL Pell City	94.1	W232CT	W231CW	KS Wellington	100.3	K261EE	K262CQ
AZ Dolan Springs	94.9	K234CL	K235CJ	LA Tallulah	103.5	K279CG	K278CF
AR Arkadelphia	94.5	K208CQ	K233CV	MI Riverview	<sup>1</sup> 93.5	W229CD	W228CU
AR Fort Smith	93.1	K224AP	K226BS	MN Fairmont	88.1	K204FM	K201IU
AR Fort Smith	101.9	K269AL	K270BR	MO Columbia	100.9	K266BN	K265FD
CA Clarita	92.3	KHHT-1	KRRL-1	MO Jefferson City	101.1	K265CT	K266CA
CA Menifee	101.3	KATY-1	KATY-FM1	NY Buffalo	106.1	W207BB	W291CN
CA North Edwards	99.1	K203FC	K256BS	NV Henderson	98.9	K257BU	K255CT
CA Palmdale	96.3	K243BW	K242CR	NY Watkins Glen	90.5	W215AB	W213BW
CO Masonville	104.7	K283CF	K284BY	NC Brevard	97.5	CP	W248CI
CO Steamboat Springs	88.7	K201HP	K204GK	OH Lima	107.3	W300BB	W297BP
CO Dillon	90.1	K264AG	K211FY	OK Broken Arrow	107.9	K299BJ	K300CY
CO Pueblo West	103.3	KJQY-FM1	KJQY-FM2	OK Coweta	107.7	K300CS	K299BP
CT Meriden	98.5	W252AV	W253BQ	OR Azalea	102.3	K223BW	K272FM
FL St. Petersburg	97.1	APP	WSUN-1	PA Mount Pocono	105.5	W287AY	W288DF
FL Zolfo Springs	107.5	W299AU	W298BU	PA Troy	99.9	W259AW	W260AN
GA Athens	92.7	W258CC	W224CY	PA Turbotville	105.5	W290BS	W288DE
GA Warner Robins	88.5	W202BA	W203BY	TX Aqua Dulce	107.7	KXTM-FM1	KOUL-FM1
ID Couer d'Alene	99.3	K256CE	K257FX	TX Barker	94.1	K217DP	K231CN
ID Eagle	101.7	K272FL	K269GI	TX Beaumont	107.5	K246CF	K298CB
IL Belleville	97.5	W247BU	W248CH	TX Canadian	104.1	K227CF	K281CF
IL Centralia	93.5	W229CC	W228DA	UT Provo	107.9	KUDD-5	KUDD-FM5
IL Williamsville	96.1	W243CR	W241CC	WA Othello, etc.	92.7	K221BT	K224EW
IA Gilbert	106.5	K290AJ	K293CG	WA Spokane	99.3	K256CE	K257FX
IA Muscatine	95.1	K233BI	K236CF	WA Yakima	88.9	K201AS	K205FT
KS Newton	104.1	K228DY	K281CD				

<sup>1</sup> - Station has yet to sign on

### — FORMAT AND SLOGAN CHANGES —

#### Full Power Stations

AK Bethel	98.3	KEDI	Signs on with Talk/Classic Country
CA Buttonwillow	100.9	KHMU	Signs on with Regional Mexican: <i>Radio Amigo</i>
CA Ferndale	90.1	KHSF	> News/Talk: <i>KHSU BBC</i>
CA Indio	102.3	KRHQ	> Classic Rock: <i>Q102.3</i>
CA Kerman	94.3	KOKO-FM	Changes slogan to; <i>The Valley's Greatest Hits</i>
CA Patterson	92.9	KOSO	Changes slogan to: <i>B93</i>
CA Ridgecrest	105.7	KOHM	Signs on with Regional Mexican: <i>Radio Amigo</i>
CA Rosamond	93.5	KQAV	> Rhythmic Oldies: <i>Old School 93.5</i>





CA	San Joaquin	105.5	KJZN
CA	Tehachapi	100.1	KKZZ
CO	Fleming	100.1	KRFD
CO	Strasburg	97.7	KSJL
FL	Hobe Sound	105.5	WOLL
FL	Jasper	107.5	WJHC
GA	Adel	92.1	WDDQ
GA	Cochran	107.5	WRWR
GA	Smithboro	89.1	WAKP
GA	Milner	105.9	WFAL
ID	Hailey	102.1	KIRQ
ID	Mountain Home	100.7	KPDA
ID	Rexburg	106.3	KQEZ
ID	Shelley	98.1	KGTM
ID	Twin Falls	102.1	KYUN
IL	Carterville	95.1	WUEZ
IL	Chicago	100.3	WSHE-FM
IL	Earlville	102.9	WMKB
IL	Urbana	92.5	WREE
IL	Urbana	107.1	WPGU
IN	Battle Ground	88.9	WFRW
IN	South Whitley	101.1	WMYQ
IA	Creston	101.3	KSIB-FM
IA	Harlan	105.3	KNOD
KS	Great Bend	88.1	KRTT
KS	Hill City	101.9	KKQY
KY	Cave City	103.7	WHHT
LA	Atlanta	106.5	KCIJ
LA	Jean Lafitte	107.5	KXMG
MD	Bowie	99.1	WNEW-FM
MD	Fruitland	107.7	WKHI
MI	Alpena	88.9	WGZR
MI	East Tawas	91.3	WGJU
MI	Jackson	94.1	WWDK
MI	Spring Arbor	89.3	WJKN-FM
MI	Spring Arbor	106.9	WSAE
MI	Charlevoix	90.9	WTCK
MI	Greilickville	88.3	WTCY
MI	Jackson	94.1	WWDK
MN	Hermantown	92.1	WWAX
MN	Pequot Lakes	100.1	KLKS
MN	Rochester	97.5	KNXR
MS	Lexington	102.5	WAGR-FM
NE	Emerson	104.9	KTCH
NJ	Canton	101.7	WJKS
NJ	Long Beach	107.1	WWZY
NJ	Tuckerton	99.7	WBHX
NM	Red River	90.1	KCEI
NM	Santa Rosa	95.9	KSSR-FM
NY	Malta	105.7	WQSH
NY	Au Sable	97.9	WZXP
ND	New England	95.7	KQLZ
OH	Eaton	92.9	WGTZ
OH	Newark	104.7	WCLT-FM
OK	Chelsea	100.5	KTFR
OK	Locust Grove	94.5	KEMX
OK	Oklahoma City	94.7	KBRU
OK	Taft	100.3	KCXR
OK	Woodward	95.9	KZCU
OR	Pilot Rock	92.1	KUMA-FM
SC	Due West	95.3	WYPJ
SC	Greer	103.3	WRTH

> Classic Hip-Hop: *Rewind 105.5*  
 > Classic Rock: *100.1 The Quake* [includes KQAV 93.5 Rosamond]  
 > News/Talk  
 Returns to the air with Religious Teaching: *Radio 74 Internationale*  
 > Adult Contemporary: *Today's Kool*  
 Changes slogan to: *Talk 107.5*  
 > Talk // WSFB-1490 Quitman  
 > Urban AC: *Kiss 105.1/107.5* [105.1 is W286CE Fort Valley]  
 Returns to the air with Southern Gospel  
 Signs on with Adult Contemporary: *Fun 101*  
 > Country: *The Canyon*  
 > Regional Mexican: *La Ponderosa*  
 > Adult Contemporary: *EZ Rock 106.3*  
 > Hot AC: *Star 98*  
 Changes slogan to: *102.1 The Canyon*  
 > Classic Hits: *Magic 95.1*  
 New slogan is: *Chicago's WSHE 100.3*  
 Changes slogan to: *El Rey*  
 > 80s Classic Hits: *Rewind 92.5*  
 Changes slogan to: *Champaign's Alternative*  
 Returns to the air with Contemporary Christian/Religious Teaching: *Your Friend WFRN // WFRN 104.7 Elkhart*  
 Returns to the air with Oldies: *Oldies 101.1*  
 > Country: *Your Country*  
 > Oldies: *Good Time Oldies* [> Westwood One - Good Time Oldies]  
 Returns to the air with Religious Teaching: *Divine Mercy Radio 88.1*  
 Changes slogan to: *101.9 The Bull*  
 Changes slogan to: *Nash ICON 103.7*  
 > Contemporary Christian: *K-Love*  
 > Christian AC: *K-Love*  
 > News/Talk: *99.1FM WNEW*  
 Classic Rock: *Big Classic Rock 98.5*  
 Changes slogan to: *Catholic Light For Northern Michigan [Baraga Radio]*  
 Changes slogan to: *Catholic Light For Northern Michigan [Baraga Radio]*  
 > Classic Country: *94-1 The Duke*  
 > Christian CHR/Rock: *Home.FM*  
 > Christian CHR/Rock: *Home.FM*  
 Changes slogan to: *Catholic Light For Northern Michigan*  
 Changes slogan to: *Catholic Light For Northern Michigan*  
 > Classic Country: *94.1 The Duke*  
 > Sports: *92.1 The Fan* [Fox Sports Radio]  
 > Talk: *Talk 100*  
 Returns to the air with Hot AC: *97.5 Pulse-FM*  
 Adds slogan: *Power 102.5*  
 Adds network: Westwood One - Mainstream Country  
 > News/Talk // WDEL-1150 Wilmington, Delaware  
 > Hot AC: *Fun 107.1* [// WBHX 99.7 Tuckerton]  
 > Hot AC: *Fun 107.1* [// WWZY 107.1 Long Branch]  
 Returns to the air with Variety  
 > Adult Hits  
 > 80s/90s Hits: *Rewind 105.7*  
 Adds network: Westwood One - Classic Rock  
 Returns to the air with *Unavailable Format*  
 > AC: *Soft Rock 92.9*  
 > Rock: *104.7 The Big Lick*  
 > Christian CHR/Rock: *The Kross*  
 > Christian CHR/Rock: *The Kross*  
 > Active Rock: *The Brew*  
 > Christian CHR/Rock: *The Kross*  
 > Classical: *Classical Radio 90.1/91.9*  
 > Classic Hits: *92.1 Party FM*  
 > R&B Oldies  
 Changes slogan to: *103.3 & 95.9 Earth FM*

**OLD SCHOOL 93.5 FM**



SC Honea Path	103.1	WHQA	> Southern Gospel/Preaching: <i>103.1 The Life FM</i>
SC Lexington	98.5	WOMG	Changes slogan to: <i>98.5 Nash Icon</i>
SC Pendleton	95.9	WLTE	> Classic Hits: <i>103.3 Earth-FM // WRTH-FM Greer</i>
SC Due West	95.3	WYPJ	> R&B Oldies
SD Newell	107.9	KXZT	Returns to the air with <b>Unavailable Format</b>
SD Wall	107.5	KXZS	Returns to the air with <b>Unavailable Format</b>
TN Erwin	103.9	WXIS	Changes slogan to: <i>Jamz 92.3 &amp; 103.9 [92.3 is W222AG Johnson City]</i>
TN Dyersburg	100.1	WASL	> Variety Hits: <i>100 Jack FM</i>
TN Elizabethton	99.3	WTZR	> Alternative: <i>99.3 The X</i>
TN Munford	98.9	WKIM	> Classic Hip-Hop: <i>98.9 The Vibe</i>
TX Bee Cave	104.9	KTXX-FM	Changes network to Westwood One - NBC Sports Network
TX Blanket	104.7	KQMJ	Signs on with Regional Mexican
TX Blossom	92.7	KISY-LP	Signs on with CHR
TX Canadian	91.3	KHHC	Returns to the air with <b>Unavailable Format</b>
TX Commerce	91.3	KYJC	Adds network: Penfold Communications Network
TX Decatur	91.3	KDKR	Adds network: Penfold Communications Network
TX Ganado	94.9	KHTZ	Returns to the air with Country: <i>Texas Mix 105.3 // KROY 99.7 Palacios &amp; KTWL 105.3 Todd Mission</i>
TX Franklin	103.9	KJXJ	> Sports: <i>ESPN Aggieldand 103.9 [ESPN Radio]</i>
TX Idalou	105.7	KRBL	> Classic Hits: <i>105.7 King FM</i>
TX Karnes City	103.1	KHHL	Returns to the air with Spanish: <i>ESPN Deportes 103.1</i>
TX Lovelady	104.3	KHMR	Returns to the air with <b>Unavailable Format</b>
TX Menard	105.3	KTCY	Returns to the air with Country
TX Taylor	104.3	KLQB	Changes slogan to: <i>104.3</i>
TX Palacios	99.7	KROY	Returns to the air with Country: <i>Texas Mix 105.3 // KHTZ 94.9 Ganado &amp; KTWL 105.3 Todd Mission</i>
TX Shamrock	92.9	KSNZ	Signs on with <b>Unavailable Format</b>
UT Salt Lake City	98.7	KBEE	> Adult Contemporary: <i>B-98.7</i>
VT Middlebury	90.1	WVXM	Returns to the air with Classical: <i>VPR Classical [Classical 24]</i>
VT Westminster	101.9	WKKN	> AAA: <i>The Peak // WTHK 100.7 Wilmington</i>
VT Wilmington	100.7	WTHK	> AAA: <i>The Peak // WKKN 101.9 Westminster</i>
VI Charlotte Amalie	107.3	WVIE	> Talk/Urban AC
WV Craigsville	95.7	WSWW-FM	> News/Talk
WI New London	93.5	WGEE-FM	Changes slogan to: <i>93.5 &amp; 99.7 Duke FM // WDKF 99.7 Sturgeon Bay // W226BD 93.1 Green Bay // W270AJ 101.9 Green Bay</i>
WI Rothchild	100.5	WDTX	Changes network (back to) ESPN Radio
WI Sturgeon Bay	99.7	WDKF	> Classic Country: <i>93.5 &amp; 99.7 Duke FM // WGEE-FM 93.5 New London // W226BD 93.1 Green Bay // W270AJ 101.9 Green Bay</i>
WY Burns	88.5	KIHI	Returns to the air with <b>Unavailable Format</b>
WY Cheyenne	90.3	KWYC	Returns to the air with Religious Teaching: <i>CSN International [Christian Satellite Network]</i>



**HELP!** If you live in the listening area, or DX any of the stations listed with an **Unavailable Format**, please check in and let us know so everyone can update their database.





## LP Stations

CA Biola	104.3	KJOI-LP	Signs on with Adult Standards
CA Modesto	107.9	KPSR-LP	Returns to the air with Variety
CA Simi Valley	99.1	KWSV-LP	Signs on with Religious Teaching
CT Bloomfield	98.7	WGZO-LP	Signs on with Spanish Religious
FL Bradenton	102.1	WOPC-LP	Signs on with Religious Teaching
FL Ridge Manor	102.7	WXIO-LP	Signs on with Variety
IL Chicago	87.7	WRME-LP	> Oldies: <i>87.7 MeTV FM</i>
IL Kankakee	97.5	WAGI-LP	Signs on with Religious Teaching
IN Syracuse	93.7	WRWT-LP	Signs on with Variety
IA Dubuque	98.3	KCRD-LP	Signs on with Religious Teaching: <i>Relevant Radio</i> [EWTN]
IA Ottumwa	106.3	KHIJ-LP	Signs on with Religious Training
KS Bazine	100.1	KZBA-LP	Signs on with Religious Teaching
KY Hyden	102.5	WWBZ-LP	Signs on with Variety
KY Manchester	95.1	WWZB-LP	Signs on with Variety
KY West Liberty	92.5	WEIM-LP	Signs on with Religious Teaching
LA Baton Rouge	106.1	WTQT-LP	> Urban AC: <i>Q-106.5</i> // WIBR-1300 Baton Rouge
ME Waterville	100.7	WTNP-LP	Signs on with Religious Teaching [Three Angels Network]
MO Fayette	94.7	KPIP-LP	Signs on with Variety
NC Wilmington	91.7	WJSI-LP	Signs on with Religious Teaching [Eternal Word Network]
ND Minot	95.9	KFLK-LP	Signs on with Religion: <i>The Flock</i>
OH Cincinnati	105.5	WCXX-LP	Signs on with Classic Rock: <i>Class X Radio</i>
OR Grants Pass	107.9	KJCR-LP	Signs on with Religious Teaching
OR Lapine	107.3	KNCP-LP	Signs on with Variety
PA Greensburg	100.3	WJLW-LP	Signs on with Religious Teaching
SC Bamberg	102.3	WBSC-LP	Signs on with Variety
SC Salem	107.9	WFBS-LP	Signs on with Oldies
SC Spartanburg	92.1	WXPS-LP	Signs on with Religious Teaching
SD Sioux Falls	104.3	KSTJ-LP	Signs on with Religion: <i>The Lamb</i>
TX Blossom	92.7	KISY-LP	Signs on with CHR
TX Marshall	88.1	KFNA-LP	Signs on with Variety
TX San Antonio	96.9	KPPC-LP	Signs on with Religious Teaching
TX Tyler	93.7	KZYY-LP	> Spanish Religious
WI Kenosha	101.5	WIPZ-LP	Signs on with Adult Alternative



## Translator Stations

AZ Flagstaff	104.7	K284BO	> AC: Sunny 100.1 // KVNA-600 Flagstaff
CA Cathedral City	103.9	K280CV	Changes slogan to: <i>103.9 The Breeze</i>
CA Thousand Oaks	103.9	K280DT	> Soft AC: <i>Easy 103.9</i> // KKKU-HD2 92.7 Indio
DE Seaford	96.3	W242AV	> Spanish Variety Hits: <i>Juan</i>
GA Fort Valley	105.1	W286CE	> Urban AC: <i>Kiss 105.1/107.5</i> // WYPZ 107.5 WYPZ
GA Warner Robins	95.5	W238CG	> Gospel: <i>Praise 95.5</i>
IA Sioux City	94.9	K235CA	> News/Talk // KSCJ-1360 Sioux City
IA Waverly	105.1	K286CI	> Oldies // KCFI-1250 Cedar Falls
MI Gaylord	92.1	W221CA	Changes slogan to: <i>Catholic Light For Northern Michigan</i>
MN Moorhead	96.9	W245CM	> Rhythmic CHR: <i>96.9 Hits-FM</i> // KLTA-HD2 98.7 Moorhead
NJ Collinswood	97.1	W246AQ	> Spanish CHR: <i>Super Q</i> // WPEN-HD3 97.5 Burlington
NJ Atlantic City	92.5	W223CO	Signs on with News/Talk // WOND-1400 Pleasantville
PA Erie	104.3	W282BR	> Classic Hip-Hop: <i>104.3 The Vibe</i> // WXKC-HD2 99.9 Erie
PA Harrisburg	95.3	W237DE	> Country: <i>95.3 Nash Icon</i> // WHGB-1400 Harrisburg
TN Johnson City	92.3	W222AG	Changes slogan to: <i>Jamz 92.3 and 103.9</i> // WXIS 103.9 Erwin
TX Lubbock	98.5	K253BD	> Alternative: <i>98.5 The Edge</i> // KJDL-1420 Lubbock
TX Pleasanton	107.1	K296GK	> News/Talk // KTSA-550 San Antonio
WV Huntington	94.1	W231BS	> Sports: ESPN 94.1 // WRVC-930 Huntington
WI Green Bay	93.1	W226BD	> Classic Country: <i>93.5 Duke FM</i> // WGEE-FM 93.5 New London // WDKF 99.7 Sturgeon Bay // W270AJ Green Bay [a quad-plex?]
WI Green Bay	101.9	W270AJ	> Classic Country: <i>93.5 Duke-FM</i> // WGEE-FM 93.5 New London // WDKF 99.7 Sturgeon Bay // W226BD 93.1 Green Bay



— FM and AM SIMULCASTS —

				<u>Is heard on:</u>
AL	Tuscaloosa	96.9	W245BR	WACT-1420 Tuscaloosa with Adult Contemporary
DE	Seaford	96.3	W242AV	WJWL-900 Georgetown with Spanish Variety Hits
LA	Baton Rouge	106.1	WTQT-LP	WIBR-1300 Baton Rouge with Urban AC: Q-106.5
GA	Adel	92.1	WDDQ	WSFB-1490 Quitman with Talk
IA	Sioux City	94.9	K235CA	KSCJ-1360 Sioux City with News/Talk
MI	Alpena	88.9	WGZR	WIDG-940 St. Ignace with Religion: <i>Catholic Light For Northern Michigan</i>
MI	East Tawas	91.3	WGJU	WIDG-940 St. Ignace with Religion: <i>Catholic Light For Northern Michigan</i>
MI	Gaylord	92.1	W221CA	WIDG-940 St. Ignace with Religion: <i>Catholic Light For Northern Michigan</i>
NJ	Atlantic City	92.5	W223CO	WOND-1400 Pleasantville with News/Talk
NJ	Canton	101.7	WJKS	WDEL-1150 Wilmington, Delaware with News/Talk
NC	Asheboro	99.9	W260CG	WZOO-710 Asheboro, NC with Classic Hits: <i>99.9 The Zoo Classic Hits</i>
OH	Girard	94.7	W234CH	WGFT-1330 Campbell with Urban AC: <i>Star 94.7</i>
PA	Harrisburg	95.3	W237DE	WHGB-1400 Harrisburg, PA with Country
TX	Lubbock	98.5	K253BD	KJDL-1420 Lubbock with Alternative
TX	Pleasanton	107.1	K296GK	KTSA-550 San Antonio with News/Talk
WV	Huntington	94.1	W231BS	WRVC-930 Huntington with Sports



— TRANSLATOR STATION AFFILIATIONS —

		<u>Power (Watts) / Ant Ht</u>		<u>Relays:</u>
OH	Cleveland	93.7	W229CG	27 / 89 KLOV 89.3 Winchester, Oregon
NC	Brevard	97.5	W248CI	8 / 25 # WLFJ-FM 89.3 Greenville, North Carolina

**Translator power levels are in Watts;  
Antenna heights are HAAT, except where noted # when the height is AGL**

— NEW BOOSTER STATIONS GRANTED —

		<u>Power (kW)/Ant Ht(*)</u>		<u>Licensee:</u>
CA	Menifee	101.3	KATY-FM1	.5 DA (140°) / 27 All Pro Broadcasting, Inc.
UT	Provo	107.9	KUDD-FM5	1.75 (345°) / 27 Broadway

**\* - Antenna Heights for Booster stations are AGL**

— NEW LPFM STATION GRANTS —

		<u>Power (Watts)/Ant Ht</u>		<u>Licensee:</u>
AL	Anniston	106.3	CP	29 / 55 Center of Hope, Inc.
AL	Fairhope	89.9	WYFR-LP	100 / 30 Fairhope Radio
AL	Fairhope	96.7	WNPG-LP	100 / 20 Front Porch Media
AL	Jacksonville	103.5	CP	100 / (-) 31 The Jacksonville Church of Christ
AL	Montgomery	94.5	CP	25 / 59 AFRAMSouth
AR	Fayetteville	98.7	KDIV-LP	100 / 28 Voice of Diversity
CA	El Cajon	101.1	CP	9 / 84 La Meaestra Family Clinic
CA	Redlands	94.3	KHSH-LP	100 / (-) 1 Calvary Chapel of Redlands d/b/a Packinghouse Christian FWP
CA	Sacramento	93.3	KZHP-LP	42 / 46 Process Theatre, Inc.
CA	San Diego	101.1	CP	50 / (-) 19 Positive Hope Inc.
CA	West Sacramento	92.9	CP	30 / 54 West Sacramento Neighbors Fair
FL	Brandon	101.9	CP	19 / 68 Brandon Community Broadcasting Inc
FL	Fort Myers	90.5	CP	90 / 32 Dunbar Gospel Association of Southwest Florida, Inc.
FL	Kissimmee	104.5	CP	100 / 27 TVMision Corporation
FL	Miami	98.7	CP	47 / 44 Radio Voz Mundial Inc
FL	North Port	97.5	CP	100 / 30 Community Broadband Radio Association, Inc.
FL	Oakland Park	101.9	WOIB-LP	80 / 30 The Omega Church International
FL	Orlando	99.7	CP	100 / 25 Awakening/Art & Culture
FL	Sanford	98.5	CP	58 / 40 Spring Meadows Broadcasting, Inc.
FL	Sanford	99.7	CP	76 / 35 Ministerio R.M., Inc.
FL	Tampa	105.1	WWZT-LP	100 / 30 Latino Heritage Organization, Inc.
FL	Titusville	93.7	CP	90 / 32 Greater Blessed Assurance Apostolic

FL Winter Park	101.5	WPFA-LP	39 / 48	Running with Time Communication, Inc.
GA Atlanta	103.7	CP	14 / 79	The Church in Atlanta
GA Lawrenceville	102.7	CP	36 / 50	Somar Communications Inc.
GA Norcross	96.5	WWXR-LP	100 / 30	J.A.S. Community Radio Inc.
GA Powder Springs	103.7	CP	35 / 49	Trinity Chapel, Inc.
GA Snellville	98.1	CP	68 / 37	C.A.M. Community Radio Inc.
LA Lafayette	93.1	CP	29 / 54	Lafayette Parish School System
LA Metarie	92.9	CP	100 / 27	Crescent City Christian School
MA Haverhill	97.9	WHAU-LP	24 / 61	Public Media of New England, Inc.
MA Worcester	102.9	CP	3 / 185	Pride Productions, Inc.
MA Lawrence	98.1	WGUA-LP	17.2 / 71	St. Patrick Parish Lawrence Educational Radio Association
MN St. Paul	97.9	KQEP-LP	90 / 32	New Culture
MS Tupelo	93.9	CP	33.5 / 51	Snuggle Buddy, Inc
MS Vicksburg	96.9	WVMK-LP	8 / 102	State of Maryland, MDOT, Maryland Transit Admn.
MT Garryowen	91.1	KODH-LP	100 / (-) 4	Center Pole, Inc
NC Durham	90.3	CP	34.2 / 50	Ministerio Guerrero De Jesucristo
NC Raleigh	<sup>3</sup> 106.5	CP	90 / 32	Columbus Club of Raleigh, Inc.
NC Raleigh	<sup>3</sup> 106.5	CP	90 / 32	Corporation for Educational Advancement
OH Hillsboro	92.1	CP	100 / 29	Hope Radio of Hillsboro
OK Edmond	99.3	KZUC-LP	13 / 82	UCentral Student Radio - University of Central Oklahoma
OK Purcell	93.9	KQTR-LP	39 / 48	City of Purcell
OR Grants Pass	96.5	CP	100 / (-) 99	Edgewater Christian Fellowship
OR Grants Pass	107.9	KJCR-LP	100 / (-14)	WTL Communications, Inc.
PA Philadelphia	<sup>1</sup> 92.9	WGGT-LP	45 / 45	G-Town Radio
PA Philadelphia	<sup>1</sup> 92.9	WRGU-LP	45 / 45	Germantown United Community Development Corporation
PA Philadelphia	<sup>1</sup> 92.9	WRLG-LP	45 / 45	Germantown Life Enrichment Center
PA Phoenixville	98.5	CP	41 / 41	Tri-County Community Programming Fund
PR Mayaguez	107.9	CP	100 / 8	Iglesia Evangelica Sion, Inc.
SC Sandy Springs	104.3	WZFN-LP	47 / 44	Spreading Cheer
TN Knoxville	<sup>2</sup> 103.9	CP	32 / 53	Appalachia Community Fund
TN Knoxville	<sup>2</sup> 103.9	CP	32 / 53	The Neighborhood Center
TN Knoxville	<sup>2</sup> 103.9	CP	32 / 53	United Mountain Defense
TX Baytown	92.5	CP	20 / 67	Iglesia Cristo Viene of Baytown, Inc.
TX Conroe	94.9	CP	29 / 55	Fuente De Vida - Conroe, Inc.
TX Conroe	106.1	CP	6.6 / 113	City of Conroe
TX Conroe	106.3	CP	36 / 50	Gracia Abundante
TX Corpus Christi	100.3	CP	30.9 / 53	Solid Rock Worship Center
TX Houston	101.5	KHSX-LP	80 / 19	His Sanctuary Ministries Usa International, Inc.
TX Houston	101.7	KQEU-LP	100 / 30	NTD Public Media
TX Leon Springs	97.9	KCJV-LP	100 / 9	Hispanic Heritage Radio Network
TX Odessa	94.1	CP	100 / 7	Iglesia Del Camino, La Verdad, Y La Vida, Inc.
TX Richardson	95.7	CP	36 / 50	University of Texas at Dallas Amatuer Radio Club
TX Sachse	95.7	CP	9 / 100	Iglesia Casa De Oracion y Alabanza AG
TX San Antonio	96.5	CP	100 / 28	Educacional Mty
TX San Antonio	99.1	CP	100 / 30	Escuela Radial JS
TX Tyler	104.9	KJID-LP	49 / 43	Iglesia De Dios Jesucristo Manantiales De Vida
TX Waco	90.5	CP	10 / 92	Amistad Baptist Church (ABC)
VA Charlottesville	<sup>4</sup> 92.3	CP	21 / 63	Blue Ridge Free Media
WI Stanley-Boyd-Cadott	96.5	WASB-LP	100 / 29	All Saints Catholic Parish

<sup>1</sup> - Share time/Transmitter agreement: G-Town - 150 hours/week; GUCDC - 9 hours/week; GLEC - 9 hours/week; a fourth CP is listed in the FCC's database, but hours are not included in the applications of the other three

<sup>2</sup> - Share time/Transmitter agreement: TNC - 145 hours/week; UMD - 11 hours/week; ACF - 12 hours/week

<sup>3</sup> - Share time/Transmitter agreement: CCR - 0200 -1400 Sunday - Saturday; CEA - 1400 - 0200 Sunday

<sup>4</sup> - Application reinstated and approved after being initially dismissed

## — APPLICATIONS FOR NEW LPFM STATIONS —

			<u>Power (Watts)/Ant Ht</u>	<u>Applicant:</u>
FL Cape Coral	107.7	APP	63.6 / 38	Get a Life! Foundation, Inc.
FL Fort Lauderdale	92.7	APP	13 / 63	Hollywood Brothers Helping Others, Inc.
FL Fort Lauderdale	101.9	APP	100 / 30	American Network Media Inc
FL Lake Mary	100.7	APP	100 / 29	Lake Mary Community Radio Inc
FL Longwood	105.5	APP	71 / 36	BJR Community Radio Inc
FL Miramar	102.1	APP	83.4 / 33	All Media Services of America Inc
FL Orlando	92.9	APP	100 / 28	Azalea Park Community Radio Inc



FL Orlando	99.9	APP	100 / 27	Musica Sublime Inc.
FL Orlando	104.7	APP	100 / 27	Hunters Creek Education Radio
GA Douglasville	102.1	APP	18.2 / 69	Unlimited Recovery Broadcasting Inc
GA Valdosta	104.7	APP	100 / 28	Echo Broadcasting Network, Inc.
NY Ocean Beach	104.7	APP	100 / 9	Fire Department of Ocean Beach, Inc
PR Moca	93.7	APP	35.7 / 49	Behind the Sound Corp.
TX Brownsville	96.5	APP	10.3 / 91	94.9 Media Foundation, Inc
TX Dallas	92.1	APP	100 / 28	Casa deRescate Inc.
TX Sugarland	98.3	APP	79.7 / 34	Positive Broadcasting Company
WI Milwaukee	101.7	APP	100 / 22	Alive MKE

LPFM power level is in Watts; antenna height is HAAT, except where noted \* when it is AGL

**— LPFM PETITIONS FOR RECONSIDERATION SUBMITTED —**

AL		FL Fort Lauderdale	101.9	OH Garfield Heights	95.9
AR Bentonville	97.7	FL Jacksonville	98.5	PA Philadelphia (7 MX apps)	92.9
AR Rogers	97.7	FL Palm Bay	105.7	PR Mayaguez	107.9
AR Springdale	98.9	GA Valdosta	103.5	TX Corpus Christi	100.9
CA Los Gatos	92.9	IL Rockford	103.5	VT West Brattleboro	106.7
CA Santa Clarita	101.5	NY Farmingville	104.7		
DC Washington	94.3	OH Columbus	96.7		
FL Cocoa	93.1				

**— INFORMAL OBJECTIONS FILED AGAINST LPFM APPLICATIONS —**

CA West Sacramento	92.9	FL Orlando	98.5	WA Napavine	92.9
FL Cocoa	93.1	FL Tampa	107.9		
FL Kissimmee	104.5	FL Tampa	101.5		
FL Lake Mary	99.7	FL Tampa	107.9		
FL Longwood	99.7	NC Durham	90.3		
FL Lutz	101.1	TN Knoxville (3 apps)	<sup>1</sup> 103.9		
FL Miami	98.7	TX Sachse	95.7		
FL Orlando	96.1	TX Waco	90.5		

<sup>1</sup> - Competing applications

**— LPFM APPLICATIONS DISMISSED —**

CA Santa Fe Springs	101.5	MS Tupelo	<sup>2</sup> 93.9	OR Sweet Home	96.7
CA Los Gatos	92.9	OH Cincinnati	103.1	OR Sweet Home	103.1
CO Denver	103.9	NY Manorville	104.7	PA Eagleville	98.5
FL Altamonte Springs	99.7	NC Raleigh	<sup>2</sup> 106.5	PA Lansdale	<sup>2</sup> 98.5
FL Cape Coral	107.5	OR Albany	105.3	PR Mayaguez	<sup>2</sup> 107.7
FL Fort Myers	<sup>1</sup> 107.7	OR Bend	94.9	TN Knoxville	<sup>2</sup> 103.9
FL Ft. Myers	<sup>1</sup> 107.7	OR Bend	95.3	TX Arlington	95.5
FL Lutz	101.1	OR Brownsville	97.3	TX Brownsville	94.9
FL Miami	101.1	OR Cascadia	98.1	TX Brownsville	96.5
FL Palm Bay	105.7	OR Cascadia	105.3	TX Corpus Christi	<sup>2</sup> 100.3
FL St. Petersburg	96.3	OR Lebanon (2 apps)	92.7	TX Dallas	92.9
GA Augusta	104.9	OR Madras	94.9	TX Odessa	100.7
GA Douglasville	103.7	OR Seal Rock	107.3	TX Richardson	<sup>2</sup> 95.7
GA Gainesville	105.5	OR Silverton	102.5	WI Waukesha	101.1
GA St. Simons Island	105.3	OR Sweet Home	92.5		

<sup>1</sup> - Competing applications

<sup>2</sup> - Lost to a competing applicant [see New LPFM Station Grants]

**— OTHERNEWS —**

AK Akiachak	92.7	CP	New Class D station granted with .5 kW/15 m at 60-54-36/161-25-57 [Yupitit School District]
AZ Parker	93.9	KRIT	Is silent
AZ Somerton	99.9	CP	New Class C3 station granted with 25 kW/62 m at 32-38-31/114-33-34 [Campesinos Sin Fronteras]
AR Fort Smith	101.9	K270BR	Changes CoL from Jenny Lind, etc

CA Aetna Springs, etc	91.9	KLVR-FM1	License cancelled; call deleted per licensee's request
CA Barstow	101.3	CP	New Class A station granted with 2.7 kW/151 m at 34-51-22/117-02-59 [Point Five LLC]
CA Chico	90.5	K213EH	Changes CoL from Durham/Chico
CA Colfax	91.9	KJPT	License cancelled; call deleted
CA El Paso De Robles	97.1	K246BO	Changes CoL from Atascadero
CA Kettleman City	89.9	KWDS	Is silent
CA Las Flores Canyon	104.7	KCAQ-FM5	Signs on with 1.1 kW/38 m, 31-01-14/118-25-23
CA Pine Hills	89.7	KIPE	Is silent
CA San Francisco	105.3	KITS-FM3	License cancelled; call deleted per licensee's request
CA San Ramon	97.3	KLLC-FM1	License cancelled; call deleted per licensee's request
CO Crook	88.7	KVEE	Is silent
DE Dover	98.3	W252CH	License cancelled; call deleted
FL Hollywood	101.1	WDKK-LP	Changes requery from 103.1 and changes CoL from North Dade [station has yet to sign on]
FL Lakeland	96.7	W244BJ	Changes CoL from Frostproof
FL Spring Hill	103.9	W280DK	Changes CoL from Brooksville
FL Winter Park	92.7	WRXW-LP	Changes CoL from Goldenrod [station has yet to sign on]
GA Augusta	98.9	W255AS	Changes CoL from Thomson
GA Kingston	100.3	W262CD	Changes CoL from Rome
HI Hana	96.3	KOKO-LP	Changes frequency from 95.7
ID Island Park	102.9	KOUW	Is silent
ID Lapwai	105.5	K288EU	Changes CoL from Lewiston, Idaho & Clarkston, Washington
ID Rexburg	106.3	KGTM	Changes frequency from 98.1
ID Shelley	98.1	KQEZ	Changes frequency from 106.3
ID Twin Falls	102.1	KYUN	Changes frequency from 106.7 and CoL from Kimberley
IA Des Moines	94.1	KGVC-LP	License cancelled; call deleted per licensee's request
IL Belleville	97.5	W248CH	Changes CoL from Mascoutah
IL Collinsville	105.7	KPNT	Changes CoL from St. Genevieve, Missouri
IL West Salem	93.7	WOWA	Changes frequency from 101.1 [station has yet to sign on]
IN Wanatah	88.5	WTMK	Changes CoL from Lowell
IN Warsaw	93.9	WIOE-LP	Changes frequency from 98.3 and is silent
IA Asbury	98.7	CP	New Class A station granted with 3.5 kW/133 m at 42-  24-16/90-34-12 [Canton Seventh-Day Adventist Church]
IA Des Moines	94.1	KGVC-LP	License Cancelled; call deleted per licensee's request [this gives leaves KDRA-LP, which shared the frequency with KGVC-LP, the opportunity to operate fulltime on the channel]
IA Keosauqua	102.1	CP	New Class C3 station granted with 25 kW/100 m DA at 40-51-28/91-56-51 Fairfield Youth Advocacy, Inc.]
IA Malvern	107.7	KIMI	Changes CoL from Sidney
KY Paducah	102.5	W273CH	Changes CoL from Mayfield
MI Grand Rapids	93.3	K227CG	Changes CoL from Hastings
MI Rochester Hills	90.3	KDTI	Changes frequency from 89.9 and changes CoL from Sheridan
MS Drew	95.3	WDTL	New Class A station granted with 6 kW/100 m at 33-44-17/90-39-29 [Fuss, Fenty L]
MO Kansas City	99.3	K257DZ	Changes CoL from Butler
MT Conrad	97.5	KHSI-LP	Changes frequency from 97.3
NV Gerlach	91.5	KFBR	Fines \$1500 for failure to file renewal application in a timely manner
NV Hawthorne	91.9	KELC	Is silent
NM Chama	91.7	KYOL	Is silent
NM Milan	101.9	KZNM	Is silent
NM Shiprock	96.5	KNDN-FM	Is silent
NM Tohatchi	101.5	CP	New Class C2 station granted with 2.25 kW/595 m at 35-54-37/108-46-26 [The Navajo Nation]
NY Fair Haven	106.5	WKRH	Changes CoL from Minetto
NY Farmingdale	105.5	WDBA-LP	Changes CoL from Bethpage [station has yet to sign on]
NY Nunda	100.9	W265BX	License cancelled; call deleted per licensee's request
NY Southampton	88.3	WPPB	Fined \$10,000 for failure to retain all required documentation in the public inspection file
NC Asheville	99.9	W260CG	Changes CoL from Burlington
NC Ransour	105.9	W290CJ	Changes CoL from Liberty [station has yet to sign on]
NC Wake Forest	103.5	WSHP-LP	Changes frequency from 96.5
OK Tulsa	107.7	K299BL	Changes CoL from Kiefer
PA Hazleton	99.3	WCDH-LP	License cancelled; call deleted per licensee's request
PA Meyersdale	102.3	WHYU-LP	Changes CoL from Elk Lick Township
PA Troy	99.9	W260AN	Changes CoL from Mainesburg
PR Juana Diaz	103.3	WVJP-FM1	License cancelled; call deleted per licensee's request

PR Mayaguez	99.1	WYKQ-LP	Is silent
PR San Lorenzo	93.3	W227CV	Changes CoL from Arroyo
SC Anderson	107.7	W299BK	Changes CoL from Royston
SC York	102.3	WTPJ-LP	Changes CoL from Clover
TX Blanket	104.7	KQMJ	Signs on with Regional Mexican
TX Blossom	92.7	KISY-LP	Signs on with CHR
TX Canadian	104.1	K281CF	Changes CoL from Dalhart [station has yet to sign on]
TX Colleyville	102.5	KRQP-LP	Changes CoL from Euless [station has yet to sign on]
TX Cotulla	105.7	KECL	Is silent
TX Deweyville	96.9	K245BT	Changes CoL from Buna [station has yet to sign on]
TX Iowa Park	96.3	KXXN	Is silent
TX San Antonio	107.1	K296GK	Changes CoL from Pleasanton
TX Wellington	97.5	KZWE-FM	License cancelled; call deleted
UT St. George	95.3	KDXI-LP	Is silent
WA Oak Harbor	103.3	CP	New Class C3 station granted with 1.55 Kw/397 m at 48-21-55/122-16-03 [Sunnylands Broadcasting, LLC]
WA Spokane	99.3	K257FX	Changes CoL from Couer d'Alene, Idaho
WV Buckhannon	92.1	WVWC	Is silent
WY Burns	88.5	KIHI	Changes frequency from 88.9

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**NEWS ITEMS:**

**! Ice brings down Tennessee tower**

Saturday morning (2/21/2015) began with huge chunks of ice falling off the tower and smashing big holes in the roof of the transmitter building for WIHG 105.7 Rockwood and W270BI 101.9 Crosswood. As water poured onto the equipment, the stations went off the air. Then, a few hours later, the weight of the ice took an even bigger toll when the top half of the 1,014-foot tower came down. The stations, which cover an area west of Knoxville, directed listeners to their webcasts. At the deadline, the FCC database shows NO record of STA activity

**! LPFMs to dot Pacific Northwest**

More than a thousand new low-power FM stations are being built as part of the FCC's expansion of the service, and the Seattle area may have a greater number of additions than most big cities. KING-TV reports more than a dozen new LPFMs are being constructed in the area. "It can actually become a community radio station rather than one of many internet radio stations that has a specific mission," Hollow Earth Radio personality Gabriel Schubiner tells the station.

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**Thanks to Shawn Axelrod, Tim Noonan, Ron Purdue, Ralph Strobel, Dan Sys, Radio Insight, and Upper Midwest Broadcasting for news.**

**If you hear any changes occur on your FM dial, share the news! 73**

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**We need pictures for the VUD covers!**

We're always trying to mix it up when we choose photos for the front of the *VHF-UHF Digest*. If you'd like your photo to be considered we invite you to post it on the WTFDA Forums, look for "VUD Cover Photos" under Members Only General Chat. [Here's a link to it](#) (you'll need to be logged in).

Some ideas:

- Screenshots or RDS readouts of your catches
- Your equipment or antennas
- DX related vacation photos

Please only post photos you've taken or have permission to use, and describe what we're seeing.

Don't worry if you don't see it used for a while, we may come back to it during a slow part of the year.

**Thanks!**



# PHOTO NEWS



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April 2015

Sorry, no column last month due to work constraints, and also because there haven't been many photos posted on the Forums or sent to me. We pick up with a few photos from this dismal winter season from the prolific Ed Phelps NN2E of Otis, KY:



KYTX-18 Nacogdoches, TX  
507 mi Tropo seen 2-18-15



WYES-11 New Orleans, LA  
482 mi Tr seen 2-10-15



KIMT-42 Mason City, IA  
510 mi Tr seen 12-10-14  
*Boy, they really know how  
to party in N. Iowa! - jk*

73's, JEFF



## DX Bulletin Board Loggings

for March 1st thru 27th, 2015

[wtfdadxbb.vci.net](http://wtfdadxbb.vci.net)

Date/Time (UTC)	Message
Mar 25 14:06	Tr Little Rock 270 mi. is about it this morning de Ed W-KY EM56
Mar 25 03:30	Tr KBTW 40/4 Port Arthur TX 560 mi de Ed W-KY EM56
Mar 25 02:53	Tr KTVE 27/10 El Dorado AR 335 mi de Ed W-KY EM56
Mar 23 20:06	FWIW 94.1 WVIC Jackson, MI is now WWDK "The Duke" C&W, just heard legal ID de Jeff ON EN93fo
Mar 22 13:13	Tr K38HE-D 38 West Plains MO 188 mi. A new one. de Ed W-KY EM56
Mar 22 03:23	Ms 93.9 KSOU Sioux Center, IA RDS 743 mi de Jeff ON EN93fo
Mar 22 02:53	Tr KHBS 21/40 Fort Smith AR 368 mi de Ed W-KY EM56
Mar 22 02:52	Tr A few Little Rock DTVs 270 mi de Ed W-KY EM56
Mar 21 21:03	Tr 101.1 WIXX Green Bay, WI jingle ID 326 mi de Jeff ON EN93fo
Mar 21 20:46	Ms 99.5 KHAZ Hays, KS C&W / RDS 995 mi de Jeff ON EN93fo
Mar 21 19:44	Ms 93.1 KRCS Sturgis, SD ad "...cowabunga Sturgis and Rapid City..." 1095 mi de Jeff ON EN93fo
Mar 21 19:30	Tr WXVT 15 Greenville MS 253 mi de Ed W-KY EM56
Mar 21 18:57	Memphis & Nashville each hv a 5 & 25... and, at one time, a ch 50 de Ed W-KY EM56
Mar 21 14:46	Tr all KC dtv's peaking the meter like locals @ 130 miles de Jim-T MO EM37
Mar 21 14:40	Tr WAGV 51/44 Harlan KY 281 mi de Ed W-KY EM56
Mar 21 14:40	Tr 14, probably KOCW Hoisington KS 40kw but won't decode de Jim-T MO EM37
Mar 21 14:37	Tr dtv's into central KS, won't decode :- ( de Jim-T MO EM37
Mar 21 14:37	Tr WJHL 11 Johnson City TN 352 mi de Ed W-KY EM56
Mar 21 14:27	Tr WLFG 49/68, Grundy, VA 307 mi. de indysteve IN EM69
Mar 21 14:13	Ms 88.9 WNSC Rock Hill, SC 30 sec burst talk / RDS 606 mi de Jeff ON EN93fo
Mar 21 14:07	Tr KTVE 27/10 El Dorado AR 335 mi de Ed W-KY EM56
Mar 21 14:02	Tr WDBD 40 Jackson MS 335 mi de Ed W-KY EM56
Mar 21 13:03	Tr WEMT 38/39, Greeneville, TN 325 mi. de indysteve IN EM69
Mar 21 06:59	Tr WCIQ 7 Mt Cheaha AL 275 mi de Ed W-KY EM56
Mar 21 06:49	CALL CHANGE... WCFT 33 Tuscaloosa is now WSES de Ed W-KY EM56
Mar 21 06:44	Tr a few Birmingham area DTVs @ 250-ish mi de Ed W-KY EM56
Mar 21 05:44	Tr KOTV 45/6 Tulsa 405 mi de Ed W-KY EM56
Mar 21 03:36	Tr KFSM 18/5 Fort Smith AR 325 mi de Ed W-KY EM56
Mar 21 03:35	Tr KSPR 19/33 Springfield MO 250 mi de Ed W-KY EM56
Mar 18 22:48	Au starting to hear *weird sounds* on 88.1, very brief fade ups of signals. Not Ms de Jim-T MO EM37



**Mar 18 22:45** Au muf 4 - 1st sign - Northern ON ch 2/3 vid carriers "fattening" - Hearst 4 appearing - de WRH ON FN03  
**Mar 18 02:24** Au ... wait a minute... 55.26 (ch2+) vid car w lots of warble... de Ed W-KY EM56  
**Mar 18 01:26** Au is weak now - de WRH ON FN03  
**Mar 18 00:35** Au 90.1 unid "... Public Radio", definite CDT time zone check - de WRH ON FN03  
**Mar 18 00:13** A DTV 5 carrier a full 2 kHz lower than the others - de WRH ON FN03  
**Mar 17 23:54** Au 3+ CITO Timmins, ON - 376 mi - distorted but listenable audio relog // CFTO - de WRH ON FN03  
**Mar 17 23:22** Au 8+ CJOH-8 Cornwall, ON - tentative audio - de WRH ON FN03  
**Mar 17 23:14** Au 4- CITO-3 Hearst, ON - 484 mi - au regular w/eTalk audio - de WRH ON FN03  
**Mar 17 22:39** Au 12 muf - wide DTV carrier u/CHEX - de WRH ON FN03  
**Mar 17 22:30** CHBX-2 audio now loud & basically understandable - de WRH ON FN03  
**Mar 17 22:27** Au 4z 4+ "fat" video carriers - likely Sydney NS & Brandon MB - de WRH ON FN03  
**Mar 17 22:04** Au 89.3 on top of WCOM Silver Creek, NY. de Jon ON FN03  
**Mar 17 22:04** FM empty channels crushed by Au hash - de WRH ON FN03  
**Mar 17 22:03** Au 11 DTV carrier - de WRH ON FN03  
**Mar 17 15:22** Au 2= CHBX Sault Ste Marie, ON - 332 mi - relog - distorted audio - no video seen - de WRH ON FN03  
**Mar 17 15:06** Au some hints of ch 4 Hearst, ON carrier - de WRH ON FN03  
**Mar 17 04:46** Tr WATE 26/6 Knoxville 258 mi de Ed W-KY EM56  
**Mar 17 04:35** Tr WVLT 30/8 Knoxville 257 mi de Ed W-KY EM56  
**Mar 17 03:02** Tr - WAMR-107.5 Miami FL 501mi / WXDJ-106.7 Ft Lauderdale 499 mi - both SS de Fred SC FM03af  
**Mar 17 02:45** Tr WMIA-93.9 MY-FM / WMGE-93.9 SS - Miami Beach 502 miles - de Fred SC FM03af  
**Mar 17 02:22** Tr - WPBF-16 Tequesta FL 422 mi de Fred SC FM03af  
**Mar 17 02:03** Tr - 325 mi - strong - Central FL - 18 Jax-Orlando DTVs decoded with 7' uhf dish AT GROUND LEVEL!-pointed south (being re-screened/etc) de Fred SC FM03af  
**Mar 16 12:19** Tr Autoscan got WDSI 40 Chattanooga at about 11:30 last night 345 mi de MikeG IN EM69  
**Mar 16 10:00** Tr WAGV 51/44 Harlan KY 281 mi de Ed W-KY EM56  
**Mar 16 04:32** Tr WTLW 44 Lima OH 356 mi de Ed W-KY EM56  
**Mar 16 03:58** Tr WTVQ 40/36 Lexington KY 240 mi. Been quite a while since I last saw it. de Ed W-KY EM56  
**Mar 16 03:38** Tr WFWA 40/39 Fort Wayne 344 mi. "PBS39HD" de Ed W-KY EM56  
**Mar 16 03:23** Tr WANE 31/15 Fort Wayne IN 343 mi de Ed W-KY EM56  
**Mar 16 02:51** Tr WLF1 11/18 Lafayette IN 265 mi de Ed W-KY EM56  
**Mar 16 02:35** Tr a few Indy area DTVs starting to surface @ 240-ish mi de Ed W-KY EM56  
**Mar 15 14:51** Ms 90.9 KJWR Windom, MN again Christian music, RDS PS: KJWR-FM 683 mi de Jeff ON EN93fo  
**Mar 15 14:23** Tr WUVG 48/34 Athens GA 312 mi de Ed W-KY EM56  
**Mar 15 13:49** Tr WLOV @ 340 mile de Jim-T MO EM37

**Mar 15 13:48** Tr WLOV 16/27 West Point MS (relog) de Jim-T MO EM37  
**Mar 15 13:43** Tr WGCL 19/46 Atlanta 312 mi de Ed W-KY EM56  
**Mar 15 13:42** Tr scatter from all directions now, Tulsa, Little Rock, KC all strong (anything under 200 miles!) de Jim-T MO EM37  
**Mar 15 13:08** Tr WABG 6/32 Greenwood MS @ 312 miles trying to make an appearance, ant. heading straight at them (relog) de Jim-T MO EM37  
**Mar 15 12:56** Tr ch4z w weak SS audio... think it's WUVM-LP Atlanta w Azteca America de Ed W-KY EM56  
**Mar 15 12:46** Tr WGNM 45 Macon GA 395 mi. Now we're startin' to make a little progress. :-)) de Ed W-KY EM56  
**Mar 15 12:38** Tr WSB 39/2 Atlanta 314 mi de Ed W-KY EM56  
**Mar 15 12:27** Tr WBMA-LD 40/58 Birmingham 250 mi de Ed W-KY EM56  
**Mar 15 12:19** Tr WIIQ 19/41 Demopolis AL 310 mi de Ed W-KY EM56  
**Mar 15 12:18** Tr a few Birmingham area DTVs @ 250-ish mi de Ed W-KY EM56  
**Mar 15 12:12** Tr WPCH 20/17 Atlanta 312 mi de Ed W-KY EM56  
**Mar 15 12:05** Ms 90.9 KJWR Windom, MN RDS 683 mi de Jeff ON EN93fo  
**Mar 15 12:04** Ms 90.9 KTBG Warrensburg, MO RDS 715 mi de Jeff ON EN93fo  
**Mar 15 06:05** Tr WVLT 30/8 Knoxville 257 mi de Ed W-KY EM56  
**Mar 15 06:02** Tr WATE 26/6 Knoxville TN 258 mi de Ed W-KY EM56  
**Mar 15 05:14** Displays as, "WNBKD1" de Ed W-KY EM56  
**Mar 15 05:13** Tr WNBK-LD 16/39 Jackson TN 84 mi. A new one. de Ed W-KY EM56  
**Mar 15 04:42** Tr Memphis & Nashville are stronger than stink rite now de Ed W-KY EM56  
**Mar 15 04:18** Tr WTVF 25/5 Nashville TN @ 372 miles NEW! de Jim-T MO EM37  
**Mar 15 04:01** Tr KARZ 44/42 Little Rock 270 mi de Ed W-KY EM56  
**Mar 15 03:09** Tr WPSD 32/6 Paducah KY just popped up @ 242 miles de Jim-T MO EM37  
**Mar 15 02:08** Tr WPBM-CD 46/31 Scottsville KY 132 mi de Ed W-KY EM56  
**Mar 15 01:58** Some of the 100 to 200 milers are starting to QRM each other. I was afraid of this. de Ed W-KY EM56  
**Mar 15 01:57** Tr WBXX 20 Crossville TN 235 mi de Ed W-KY EM56  
**Mar 15 01:08** Tr WKSO 14/29 Somerset KY 202 mi de Ed W-KY EM56  
**Mar 15 00:40** Tr Louisville, KY (180 mi) DTVs quite strong... gotta start somewhere de Ed W-KY EM56  
**Mar 14 22:35** AL beacons showing up on the APRS map into MO (KC area) now de Jim-T MO EM37  
**Mar 14 22:30** Es back in at 1820edt HIJB-2z Dom Rep w/TA logo UR - also 6m beacon HI8W de Fred SC FM03af  
**Mar 14 21:48** [21:31] should read Haiti-2z -- Es gone now de Fred SC FM03af  
**Mar 14 21:31** Es Haiti-2+ still in with strong signal - with music video - StOrm logo UR de Fred SC FM03af  
**Mar 14 21:18** Es warning - suddenly Haiti-2z all by itself -with rolling movie credits - then StOrm ID (1115 mi) de Fred SC FM03af

**Mar 13 14:06** Ms 93.9 WNCB NC Cary - Carolina's new country B93.9 de Saul ON FN04  
**Mar 12 14:01** Tr KDSM 16/17, Des Moines, IA @ 391 mi. has been in most of the morning. Wish I had his DX location. de indysteve IN EM69  
**Mar 12 12:46** Tr ... strong, Summer-like, Tr clutter from 100 to 200 mi out. de Ed W-KY EM56  
**Mar 12 03:55** Tr KLRT 30/16 & KARZ 44/42 Little Rock AR 270 mi de Ed W-KY EM56  
**Mar 10 20:24** Ms ch 2 bmg 30 deg. Canada? car ad & then gone de Ed W-KY EM56  
**Mar 10 20:18** Tr 669.264 (47++ vid-car) bmg Indy. Probably WBXI-CA. Randomly shifts freq a few cycles back & forth. de Ed W-KY EM56  
**Mar 10 20:08** Tr weak DTV 3 pilot (60.31) bmg E... WBRA Roanoke? de Ed W-KY EM56  
**Mar 10 19:53** Ms hearing several pings on lo-ch vid-car freqs...still a few analogs left in Es / Ms range. de Ed W-KY EM56  
**Mar 10 15:07** Tr - very good into GA - 107.5-WRWR Cochran GA ID/The All-New Kiss 105.1/107.5 209 mi (NEW) de Fred SC FM03af  
**Mar 10 04:22** Tr - strong - central FL again tonight out to 325 mi - nothing new de Fred SC FM03af  
**Mar 10 04:05** Es 88,5 unid to south with AFR religion de Jeff ON EN93fo  
**Mar 10 03:53** Es still in on ch 2- CHBX 2- CTV with Northern Ont Weather de Fred SC FM03af  
**Mar 10 03:53** My first ever March Es on FM de Jeff ON EN93fo  
**Mar 10 03:52** Es 89.7 WUSF FL RDS de Jeff ON EN93fo  
**Mar 10 03:51** Es 89.1 WSMR FL RDS de Jeff ON EN93fo  
**Mar 10 03:51** Es to south, MUF 91.1 de Jeff ON EN93fo  
**Mar 10 03:50** Es 88.9 WWIO Brunswick, GA Classical RDS de Jeff ON EN93fo  
**Mar 10 02:45** Es ch 3+ CTV likely CITO Timmons ON - also receiving a 6m ham in Toronto ON de Fred SC FM03af  
**Mar 10 02:30** Es Ch 2+ Global - CJCH5 Sheet Harbour NS? also hearing 6m beacon due north of Toronto (Bellevue QC de Fred SC FM03af  
**Mar 9 03:44** Tr - Central FL - Orlando/Daytona Beach and out to Stuart FL WAVW-92.7 at 411 mi - nice to see tropo after enduring long frigid spell de Fred SC FM03af  
**Mar 7 19:44** Ms a few pings on ch2z bmg Mex. de Ed W-KY EM56  
**Mar 2 22:15** Tr scatter Tulsa dtv's bouncing meter @ 160 miles (no decode tho') de Jim-T MO EM37  
**Mar 1 14:37** Ms 106.5 WDAF Liberty, MO 860 mi., RDS with calls and Country, prev Es in '98 when KCIY and jazz de Dave-N PA FN01qx  
**Mar 1 07:12** Au 3+ CITO Timmins, ON - 376 mi - hash, crackly audio - de WRH ON FN03  
**Mar 1 06:54** some Au on FM - de WRH ON FN03  
**Mar 1 06:52** Au 8 MUF - dt pilot on 5, wk dt pilot on 8 - de WRH ON FN03  
**Mar 1 06:49** Ms 92.9 KMXN Osage City, KS C&W/RDS previous Es 803 mi de Jeff ON EN93fo  
**Mar 1 06:49** Au 4 MUF - hash, carriers on 4- and 4+ - de WRH ON FN03

## Fox, Other Groups Join Pro-Auction Ranks

Fox along with Tribune, Univision and Ion met with FCC Chairman Tom Wheeler, officially acknowledging their interest in selling spectrum in the FCC incentive auction next year by offering suggestions on how the auction should be conducted.

Written by Harry A. Jessell for *TV News Check* [Feb 9, 2015]

Source: <http://www.tvnewscheck.com/article/82850/fox-other-groups-join-proauction-ranks>



Fox and three other large TV station groups officially declared their interest in selling spectrum in the FCC incentive auction next year, visiting FCC Chairman Tom Wheeler and other agency officials last week with advice on how to make the auction most attractive to broadcasters, according to the groups' description of the meeting filed with the FCC last Friday.

Joining Fox were Ion, Univision and Tribune. Together, they said, their TV stations account for more than five billion MHz-pop of spectrum.

The broadcasters said that the just-completed AWS-3 auction, which raised nearly \$45 billion, demonstrated the value of "simplicity and clarity" in auction rules.

To encourage broadcasters to offer spectrum for sale, the broadcasters called for the same simplicity and clarity in the rules for the reverse auction the FCC plans to use to buy broadcast spectrum.

That means, the broadcasters said, that the rules should:

--State clearly – prior to the deadline for submission of reverse auction applications – a 126 MHz clearing target.

--Provide greater clarity and transparency with respect to reverse auction pricing, including the "dynamic reserve price" concept introduced in the Auction Comment Public Notice.

--Enhance opportunities for channel sharing through greater flexibility, including the ability to enter into channel sharing arrangements following the conclusion of the auction.

Such actions would make the auction potentially more lucrative for broadcasters. Executives for Fox and Ion had previously expressed interest in participating in the auction, but the Feb. 4 meeting with Wheeler is still significant.

Prior to the session, the Expanding Opportunities for Broadcasters Coalition, comprising mostly companies that have bought stations for the purpose of selling them in the incentive auction, had been alone in arguing for auction rules favorable to broadcasters.

"Our coalition is delighted to see the cavalry coming over the hill to assure a successful auction," said Coalition Executive Director Preston Padden.

The day after the broadcasters met with Wheeler, NAB President Chairman Gordon Smith telephoned the chairman to tell him that the trade association agreed with them, according to an FCC filing.

The NAB is "expanding its advocacy towards helping the commission shape and improve the reverse auction," he said. "In particular, NAB hopes to help the Commission ensure adequate broadcaster participation by making the auction as simple, clear and market-based as possible."



Smith comments reflect a change in NAB strategy confirmed by the association's TV board at a meeting in Fort Lauderdale, Fla., two weeks ago.

Smith also told Wheeler that the NAB looks forward to a "prompt resolution" of the lawsuit that the NAB filed against the FCC plan to repack the TV band after the reverse auction to make the recovered spectrum more attractive to wireless carriers.

The NAB is concerned that the repacking plan will reduce the coverage of stations that choose not to participate in the auction and continue in the broadcasting business.



## DTV Interference, Repacking and the FCC

**TVTechnology**

Written by Bob Kovacs for *TV Technology* [Feb 20, 2015]

Source: <http://www.tvtechnology.com/news/0086/dtv-interference-repacking-and-the-fcc/274626>

ALEXANDRIA, VA.—After working for decades in the wide-open spaces of hundreds of megahertz of spectrum, broadcasters will soon be forced into less than half of its traditional frequency allocation. They might end up getting less than one-third.

As stations squeeze into the remaining channels—and leaving aside the discussion about the cost and effort to do this retuning—chances for serious interference will multiply. There are many different kinds of interference and none are good, and all hold risks to broadcasters in terms of viewer coverage and viewing experience.

Charles W. Rhodes is a much-respected expert in television transmission and interference, and even has his own laboratory to test receivers and other components for operational performance. Rhodes is a regular columnist for **Broadcast Engineering Extra's** sister publication, *TV Technology*.

**BE Extra:** As the TV spectrum shrinks and goes through repacking, what is the single most important concern with respect to DTV interference? Assuming less spectrum is permanent, is there a reasonable interference fix?

**Rhodes:** After the UHF band is truncated, there will be between six and 23 UHF channels remaining. There will be no changes to the VHF bands, except that there will be more stations in the VHF bands. The number of channels remaining in the UHF band will be determined by two factors given in my Feb. 4th column in *TV Technology* magazine, ("[Eleven FCC Scenarios for The 600 MHz Band Plan](#).") How many stations will remain on-the-air after repacking is another unknown, but it is obvious to me that the number of stations per channel will increase. With that increased density of stations, there will be more signals and hence more possibilities for interference.

The FCC recognized two kinds of interference to ATSC signal reception: co-channel interference (CCI) and adjacent channel interference (ACI). Other interference mechanisms are well known to TV engineers. These are caused by the presence of one or several strong signals that are offset in frequency from the desired ATSC signal by more than one channel. The proposed 600 MHz band plan includes guard bands to minimize such interference, provided that there is one and not more than one strong undesired signal on nearby channels. With two or more strong undesired signals, you have a whole new ball game, one which the FCC has not to date taken into account.

Recently, two major stakeholders have filed comments with the FCC over these additional interferences. ([The Consumer Electronics Association](#) and [CTIA: The Wireless Association](#)) Both urge the FCC to get more facts about the effect on broadcasters of these additional interference mechanisms. The problem is, until the outcome of the spectrum auctions are known, it may be impossible to determine the extent of additional interference to the more than 100 million ATSC receivers and converter boxes now serving the public.

**BE Extra:** Is the FCC paying enough attention to potential DTV interference issues? What can be done to get the FCC to understand the problem and take it seriously?

**Rhodes:** The FCC concluded in 1995 that interference from an undesired signal other than CCI or ACI would not be a problem. They have continued steadfastly to hold that view. I believe that the FCC technical staff understands these problems, which are well known in the technical literature (IEEE Transactions on Broadcasting, and IEEE Transactions on Consumer Electronics and in TV Technology magazine).

**BE Extra:** There have been a couple of tests of proposed over-the-air ATSC 3.0 systems. Do you have any sense if these will be better/worse/same with regard to interference concerns?

**Rhodes:** I cannot comment on ATSC 3.0 tests, as I have not been involved.

**BE Extra:** Channel 37 (608-614 MHz) has been set aside for radio astronomy and other scientific measurements and research. Will repacking change interference into Channel 37? Is the FCC still considering moving this radio astronomy function to a different channel?

**Rhodes:** The FCC would face many difficulties in any re-allocation of Channel 37. Although the number of radio astronomy sites is small, there are some 2,700 hospitals with wireless telemetry operating on Channel 37. These wireless telemetry applications involve patient monitoring, which requires the highest possible standards of reliability. Any significant increase in TV stations on Channel 36 or 38 or any use of those frequencies by cellular providers could result in patients dying.

I am sure the FCC will not re-allocate Channel 37, but I am concerned with the possibility of sharing that vital channel with unlicensed transmitters. That must not be permitted.

**BE Extra:** Is there anything that broadcasters can do today to get maximum coverage and minimize interference with other broadcasters?

**Rhodes:** Maximizing coverage while minimizing interference are mutually contradictory objectives. Could DTV receivers be designed to be more robust to interference within the present state-of-the-art? Probably they could, but at what cost? The question today is moot in my opinion, as the public has well more than 100 million ATSC receivers. My own laboratory has about 22 modern receivers and 25 NTIA-approved converter boxes, and these receivers can and do provide excellent reception now. However, will they provide it after repacking with the resulting spectrum congestion?

**BE Extra:** Is there anything else we should know regarding DTV interference and TV spectrum repacking?

**Rhodes:** Broadcasters should be aware that interference is minimized by co-siting of stations that otherwise can, because of their assigned channels, cause interference. This applies to interference

between stations not on the same channel. Unfortunately, co-siting of DTV towers and cellphone towers is impossible. However, if interference between stations is minimized by co-siting, there will be more headroom for interference from LTE signals to DTV reception.

The locations of many functioning TV transmitter sites were selected decades ago, and engineers have not had to deal with transmitter siting during these decades. Therefore, many engineers today may not understand the importance of co-siting to reduce interference. It works for ACI and it will work for interference between stations separated by more than one channel, which I still call “taboo-channel Interference.”

2	42	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	11	A	B	11	A	B	700 MHz UL	:					
3	48	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	7	A	B	C	11	A	B	C	700 MHz UL	:				
4	60	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	9	A	B	C	D	11	A	B	C	D	700 MHz UL	:				
5	72	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	11	A	B	C	D	E	11	A	B	C	D	E	700 MHz UL	:				
6	78	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	7	A	B	C	D	E	F	11	A	B	C	D	E	F	700 MHz UL	:			
7	84	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	3	A	B	C	D	E	F	G	11	A	B	C	D	E	F	G	700 MHz UL	:		
8	108	21	22	23	24	25	26	27	28	29	30	31	32	11	A	B	3	37	3	C	D	E	F	G	H	11	A	B	C	D	E	F	G	H	700 MHz UL	:		
9	114	21	22	23	24	25	26	27	28	29	30	31	7	A	B	C	D	3	37	3	E	F	G	H	I	11	A	B	C	D	E	F	G	H	I	700 MHz UL	:	
10	126	21	22	23	24	25	26	27	28	29	9	A	B	C	D	E	F	3	37	3	G	H	I	J	11	A	B	C	D	E	F	G	H	I	J	700 MHz UL	:	
11	138	21	22	23	24	25	26	27	11	A	B	C	D	E	F	G	H	3	37	3	I	J	K	11	A	B	C	D	E	F	G	H	I	J	K	700 MHz UL	:	
12	144	21	22	23	24	25	26	7	A	B	C	D	E	F	G	H	I	J	3	37	3	K	L	11	A	B	C	D	E	F	G	H	I	J	K	L	700 MHz UL	:
		UHF TV Channels 21 - 26						Broadband Downlink Channels A-J										K & L		Broadband Uplink Channels A - L																		

These are the eleven scenarios for the 600 MHz Band Plan of the FCC.



## HPA 2015: ATSC 3.0 Prototypes Expected in 2016

Written by Deborah D. McAdams for *TV Technology* [Feb 12, 2015]

Source: <http://www.tvtechnology.com/article/hpa--atsc--prototypes-expected-in-/274513>



INDIAN WELLS, CALIF.—Prototype ATSC 3.0 receivers may appear as early as next year, according to Skip Pizzi of the National Association of Broadcasters. Pizzi was among the executives on the annual broadcast panel at Hollywood Post Alliance Tech Retreat this week.

“A number of key requirements are being fulfilled,” he said. “The target is to get a candidate standard out later this year. Prototypes might start showing up in 2016.”

ATSC 3.0 represents a redesigned method of delivering television signals over the air. The Advanced Television Systems Committee group assigned to develop it was formed in 2011, a little more than a year after the Federal Communications Commission proposed auctioning off up to 40 percent of the broadcast TV spectrum for wireless broadband. That initiative is on track to take place in 2016 and will leave an unknown amount of spectrum for broadcasting.

Technically, broadcasters are stuck with the current ATSC standard until the FCC says otherwise, and the agency has given no indications it will do so. Mark Aitken of Sinclair said broadcasters have to push for it.

“The FCC has claimed a level of indifference with respect to the standard,” he said. “They have said they’re not going to hold off their auction off for it to happen. There’s a massive collective effort within broadcast community... We’ve had breakthroughs within ATSC, and can bring portions of the standard to [Capitol] Hill,” where lawmakers are working on a rewrite of the 1996 Telecommunications Act.

“The rules will change, but broadcasters will have to come together to bring opportunities to consumers that are not available today. If you want a true competitor to AT&T and Verizon, this is an opportunity for broadcasters to come forth and be a true competitor in wireless services.”

Richard Friedel of Fox said it would behoove the FCC to adopt ATSC 3.0.

“This allows spectrum-sharing, which is one of the FCC’s auction criteria,” he said. “I think it’s to the FCC’s advantage to use this. It allows broadcasters to get rid of more spectrum.”

Over-the-air throughput would be 30 percent better than the current ATSC format, Pizzi said. “We would move from 19.3 Mbps up to 25 Mbps range or higher” in a 6 MHz channel.

The standard covers 4KTV using high efficiency video coding—HEVC—algorithms, and possibly 22.2-channel audio. Audio codecs have been submitted by Dolby, DTS and the MPEG-H Audio Alliance of Fraunhofer, Technicolor and Qualcomm.

Pizzi said one goal of ATSC 3.0 is to send a one signal that adapts to different types of content and reception conditions, from TVs in the home to smartphones to in-vehicle video systems. Another is to appeal to the international market, which would enable more uniform development of both transmission and receiver equipment.

As the market stands, there are zero receivers for ATSC 3.0, which departs entirely from the current standard. Aitken said to build services people want, then they will come. And rather than waiting for chipsets to be integrated into TV sets, thumb drive-sized adapters similar to Chromecast units could be subsidized by broadcasters and distributed on a market-by-market basis.

“There’s also a conceptual philosophical view that needs to be brought to the table, and that’s convergence,” Aitken said. “3.0 is a convergence technology, where you have HTML 5 and IP coming together. At the center of this will be MPEG Media Transport, the MPEG standard that succeeds MPEG-2.

“It’s about taking content across multiple physical platforms and bringing them together for the viewer. It brings ability for broadcasters to compete with targeted personalized advertising opportunities.”

Mario Vecchi of PBS said the industry had to take a macro approach, as well.

“The evolution from 1.0 to 3.0 and the spectrum auction has to be looked at in the context of where is our business going in the future. We need to understand what the consumer wants in terms of formats and distribution methods, and then put this in the context of that new world and what’s happening with the auction, with WiFi, fiber-to-the-home... And how do we respond? To focus on one particular issue in isolation isn’t appropriate.”

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