



VHF-UHF DIGEST

The Magazine for TV and FM DXers

December 2015



Photo taken in Oranjestad, Aruba by Mike Bugaj

2016 CONVENTION ANNOUNCED

MEXICO'S LAST ANALOGS TO SHUT OFF THIS MONTH

IS YOUR TV DX AUTOMATED YET?

PUT AN HDHOMERUN TUNER ON YOUR CHRISTMAS LIST

The Official Publication of the Worldwide TV-FM DX Association



METEOR SHOWERS

Geminids

DEC 4 - 16

Ursids

DEC 17 - 23



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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, GREG CONIGLIO, KEITH MCGINNIS AND MIKE BUGAJ.



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The Mailbox

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December 2015

Hi! I hope everyone had a good Thanksgiving! If you are working, I hope you had a four day holiday out of it.

October and November are the slowest months of the year for new members and renewals. Our only recent renewal comes from Leslie Green in Louisiana, and we thank him for his support of the WTFDA.

MEXICO ANALOG SHUTOFF

There is only one more month left until the apagón of apagóns on December 31st. But there are little shutoffs along the way. Raymie's Blog on the WTFDA forums lists these dates along with the cities affected:

December 11: San Felipe BC; Allende/Salttillo/Parras Coah.; Celaya/León Gto.; Qro.; Agua Prieta/Caborca Son.

December 16: Isla de Cedros BC; Northern Coahuila; Jalisco except Puerto Vallarta; most Mich.; San Luis Potosí SLP; Cananea Son.; San Fernando Tamps.

December 17: Central Mexico; Telex in Agua Prieta/Caborca, Son.

December 22: Some Chih., Cd. Acuña Coah., Dgo., FCP/Chetumal Q. Roo, Matehuala SLP, NW Son., Zac.

But wait! On December 22 there are even more now:

Chihuahua: Cd. Camargo, Cd. Delicias, Nuevo Casas Grandes, San Buenaventura

Coahuila: Cd. Acuña

Durango: Guadalupe Victoria, San Pedro, Santiago Papasquiaro, Durango

Quintana Roo: Felipe Carrillo Puerto and Chetumal

San Luis Potosí: Matehuala

Sonora: Arizpe, Naco, Sonoyta and Puerto Peñasco

Zacatecas: Nochistlán, Fresnillo, Jalpa, Sombrerete, Valparaíso, Zacatecas, Concepción del Oro, Tlaltenango

Whatever hasn't gone off by December 22nd will go off on December 31st. But wait again! Raymie posted this on November 26th..." The Senate will take up on Monday an initiative to allow public broadcasters to continue in analog through 2016.

The debate will include the Communications and Transport and Legislative Studies Committees of the Senate.”

And even more...” *"In the event that, by the anticipated shutoff dates for analog television by coverage area, or by December 31, 2015, the current permitholders that operate television stations with an ERP less than or equal to 1 kW on VHF or 10 kW on UHF, are not transmitting digital television signals, and/or the penetration level mentioned in paragraphs 3 and 4 of this article has not been reached whether it be in a region, locality or the whole country, the IFT must establish a program so that the population can continue receiving this public service in the general interest, until the permitholders begin digital transmissions and/or the penetration levels mentioned in this article are reached."*

-Transitory Article 19, Ley Federal de Telecomunicaciones y Radiodifusión

Raymie says “We are a little over a month out from the analog shutoff date for the rest of Mexico. Could some analog stations remain? Gabriel Sosa Plata thinks so, citing penetration issues, missing shadows, and the question of unready state networks.”

So, it's not over until it's over.

MORE CONVENTION INFO

2016 IRCA-NRC-WTFDA-DecalcoMania

The WTFDA will join the members of the NRC, IRCA, DecalcoMania and other AM/FM/TV Dxers on September 9th through the 11th, 2016 in Kansas City MO. It will be held at the Hyatt Place Kansas City Airport, 7600 NW 97TH Terrace.

Information on registration will be made available starting in January. Rates are \$99.00 per night for 1 to 3 persons per room plus taxes and fees. Plan to arrive on Thursday for 3 nights. Convention ends Sunday noon. Free airport transfers and breakfast each morning. Registration: \$55 per person which includes a free Friday evening pizza party and Saturday evening banquet. Checks made payable to NATIONAL RADIO CLUB and sent to ERNEST J WESOLOWSKI, 13312 Westwood Lane, Omaha NE 68144-3543. Please mention which clubs you belong to for club treasury info. Dale Hamm W5LN and Ernie are your host. 73's neerniew@yahoo.com

FIRST CALL FOR PAPERS: SHARING YOUR IDEAS

Have you had some fun DX experiences you'd like to share with the rest of the DX community? Ideas for new techniques or antenna-design? Thoughts about ways to make the hobby even better?

The Kansas City Joint DX Convention (NRC/WTFDA/IRCA) will be a good place to do that. We're thinking about restructuring our “tech talks” programs to include less formal presentations with the longer “papers”.

If you don't have enough for a full-blown talk, we'd still like to hear your ideas, so consider this your first opportunity to express your interest in doing so. Regardless of the length of your comments, we can support your presentation with full audio and video playback as well as slide projection,

Please let me know if you have some Dx-related ideas you'd like to contribute!

Mark Durenberger: mark4@durenberger.com

MEMBERS AND MORE

Pat Dyer reports that he underwent gallbladder surgery on October 24th and has been home recuperating since the 29th of October. Get better soon, Pat.



Eugene Hinton reports that K296GH 107.1 in Porterville, CA just went on the air recently. This is a little ten watter relaying KUPW (Air One Christian Rock). Rumor says there is an Air2 network in the works that plays negative hits but remember it's just a rumor.

TV Dxers are beginning to DX unattended and get their logs instantly posted on the internet for everyone to see. If that method sounds like a good way to DX the DTVs, check out the thread on the WTFDA Forums at <http://forums.wtfda.org/showthread.php?2763-Automated-DTV-scanning-and-logging-web-page>. This topic is “stuck” to the top of the DX Equipment Forum. You need an HDHomeRun tuner, a computer and an internet connection for this to work. Those who use this method say it's a great help in logging stations they would usually miss by going to bed at night or being away from home when tropo is around. You decide.

That is it for December. Merry Christmas everyone and we hope everyone has a wonderful holiday season! -Mike



TV News

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December 2015

Abbreviations:

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

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)



Puerto Rico
Luquillo

20 **W20DQ** NW 15kw, 18-19-53/ 65-41-11 (Ramon A. Hernandez)



USA



Alabama

Birmingham	46	WUOA-LP	PR<12kw; PG; CC from W46DK
Montgomery	4	W04DR	PR>2kw, 32-57-37/86-44-19



Alaska

Nenana	8	K08OV	XC 64-34-39/149-04-40
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Arizona

Oro Valley 16 K16EO DC



Arkansas

Jonesboro 45 K45CD PC<2kw, 35-53-25/ 90-40-25; PR>3kw, 35-12-53/90-11-41 (Marion)



California

Camarillo 44 KUHD-LD DC 1kw, 34-14-40/ 118-40-26

Eureka 11 KEET PR 38.2kw/ 551m, 40-43-42/ 123-58-17

Keyes 47 KFMS-LD PR>6kw, 37-29-27/ 120-52-23 (Turlock); PG

Los Angeles 34 KMEX-DT NW 40kw/225m, 34-09-50/ 118-11-45 (aux)

Ontario 29 KFTR-DT NW 40kw/225m, 34-09-50/ 118-11-45 (aux)

Palm Springs 36 KVES-LD PC<10w, 33-48-07/ 116-13-27

Redding 10 KMCA-LD PR>125w, 40-32-35/ 122-30-00

Sacramento 45 K45HC DR 2kw

San Francisco 27 KTSF NW 348kw/ 409m, 37-41-15/ 122-26-01 (aux)



Connecticut

Hartford 48 WRNT-LP DC 8kw



Florida

Key West 49 WKIZ-LP PR<2.2kw
Sebastian 24 WDOX-LD PR>6kw; PG
Wabasso 33 W33DB PR>15kw, 27-01-30/ 80-10-42



Georgia

Augusta 16 WRDW-CD CC from WBEK-CD
Cleveland 28 WDWL-LP XR 33-48-26/ 84-20-21
Dublin 21 W21DA PR>10kw, 32-44-57/ 83-33-34; PG
Gainesville 24 WVND-LD QR from 31, 500w, 34-16-20/ 84-02-55; QG; QC
Swainsboro 43 W43CY PR>6kw, 32-24-24/ 82-03-44



Illinois

Jacksonville 49 WEEJ-LD XR 39-38-12/ 89-43-18
Rockford 17 WIDN-LD PR>6kw
Rockford 22 W22EE PR<6kw
Rockford 24 W24EB PR>6kw
Rockford 40 W40DF PR>6kw
Springfield 23 W23DX PG>15kw, 38-34-28/ 90-19-31



Indiana

Evansville 27 W27DH PR>6kw; PG
Evansville 33 W33CU PG>6kw, 37-36-50/ 88-52-20
Lafayette 31 W31DP NW 10kw, 40-45-56/ 87-03-05 (DTV America); XR 40-23-14/ 86-50-44
Terre Haute 43 WSWY-LP CC from W43BV



Iowa

Fort Dodge	28 K28NF	PR>6kw, 42-16-13/ 93-56-32
Fort Dodge	36 K36MR	PR<6kw, 42-16-13/ 93-56-32



Kansas

Topeka	16 KAJF-LD	PR>15kw, 39-00-56/ 94-30-24
Topeka	22 KMJC-LD	PC>340w, 38-57-13/ 95-16-11; PR>1.1kw, 38-37-21/ 94-59-13



Kentucky

Bowling Green	32 WKUT-LD	PR<6kw; PG
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Minnesota

Alexandria	18 K18DG	DR
Bemidji	30 K30DK	CX
Grand Rapids	29 K29EB	DG 14.909kw
Minneapolis	43 KMBD-LD	PC<10kw



Mississippi

Clarksdale	45 W45ED	PR>15kw, 34-59-22/ 89-51-45 (Olive Branch)
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Missouri

Joplin	18 K18JV	PR<6kw; PG
Joplin	20 K20KY	PR<6kw, 37-04-43/ 94-14-20; PG
Joplin	26 K26KY	PR<6kw; PG
Joplin	27 K27LA	PR<6kw, 37-04-43/ 94-14-20; PG
Joplin	39 K39LL	PR<6kw; PG
Joplin	45 K45LR	PR<6kw, 37-04-43/ 94-14-20; PG
Joplin	47 K47NH	PR<6kw, 37-04-43/ 94-14-20; PG



Montana

Kalispell	34 KMJD-LD	CC from K34MJ
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Nebraska

Lincoln	34 KQLD-LD	PR>10kw, 41-04-15/ 96-13-31 (Gretna)
Omaha	17 KYNE-TV	PR 21.5kw/ 284m, 41-18-32/96-01-33



North Carolina

Charlotte	16 WCEE-LP	DC 15kw, 35-15-06/ 80-41-12
Fayetteville	22 WIRP-LD	PR>15kw, 35-58-39/ 78-48-57
Lumberton	47 WPEM-LD	DC 10kw, 34-40-26/ 79-02-21



Ohio

Canton	21 W21DI	PG>2kw
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Oklahoma
Ardmore

44 KWRW-LP CC from K44BQ



Oregon
Coos Bay

15 K15KF DC from K46AS, 5kw



Pennsylvania
Pittsburgh

30 WBPA-LP PR<1.1kw, 40-25-07/
80-02-44



South Carolina

Florence	14 W14EB	XR 34-33-25/ 80-26-39
Florence	19 W19DX	PR<6kw, 34-00-03/ 79-34-50
Florence	22 W22EQ	PR>6kw, 34-00-03/ 79-34-50; PG
Florence	35 WUCV-LD	XR 34-33-25/ 80-26-39
Myrtle Beach	23 WLDW-LD	XR 33-43-33/ 79-46-58



South Dakota

Aberdeen	24 K24DT	DR 737w
Rapid City	23 KEVN-LD	PC>15kw, 44-04-00 / 103-15-01



Tennessee
Lebanon

18 W11BD AF 15kw, 36-16-04/ 86-47-44; DCC for analog 11 (Richland Tower, Joelton)



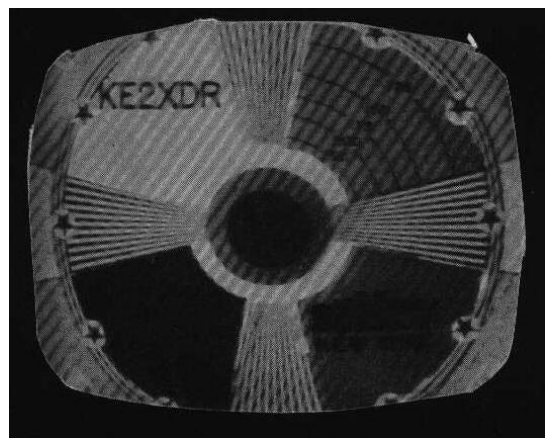
Texas

Amarillo	15 KCIT	PC<455m
Austin	20 KADF-LD	DC 15kw
College Station	34 KZCZ-LD	PR>15kw, 31-24-45/ 97-12-39
College Station	41 K41LT	XR 30-29-02/ 97-38-47 (Round Rock); XG
Dayton	5 KTDJ-LD	PC>3kw, 29-46-36/ 94-54-27
Huntsville	31 KHXL-LD	AF 10kw, 30-22-06/ 95-42-29 ; DCC for analog
Midland	32 KFAW-LD	CC from KKSB-LD
Woodville	4 KAHO-LD	PC>3kw, 29-49-33/ 95-22-35



Wisconsin

Milwaukee 38 WTSJ-LP CC from WBWT-LP



FM Facilities Report

December 2015

Check FM Database at <http://db.wtfda.org> for technical data, formats, slogans and RDS Data for Individual Stations not shown in this Monthly Report.

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

AL	Bay Minette	106.9	W295AP	XR 30-25-59/87-13-09
AL	Birmingham	103.1	W276BQ	XG 33-29-02/86-48-21
AL	Chelsea	106.1	NEW-lpfm	QR from 95.1
AL	Fish Pond	96.5	W243AP	W243AP PR>250w,34-44-19/86-31-56
AL	Fort Rucker	103.9	WDBT	CC from WLDA
AL	Hope Hull	93.7	WLDA	CC from WDBT
AL	Mooreville	96.5	W243AP	PC >250w, 34-37-36/86-53-44; CL from Fish Pond
AL	Notasulga	90.3	W212AP	FC; sold to Educational Media Foundation
AL	Oxford	99.1	W256BH	PC <58w, 33-40-53/85-48-57
AL	Pollard	92.3	W222BR	XG 30-34-58/87-17-21
AL	Tuscaloosa	96.1	W241BT	NW 250w, 33-09-36/87-30-54
AL	Warrior	106.3	W292EI	NW 250w, 33-46-31/86-36-10
AK	Anchorage	99.7	NEW	AF 3w/-121m, 61-05-47/149-49-19
AK	McGrath	89.5	KSKO-FM	NW 90w/-25m, 62-57-29/155-35-49
AK	Palmer	95.5	KNLT	NW 51kw/-277m ,61-41-41/149-15-54
AK	Seward	90.7	KSVJ	PC<-527m, 60-06-07/149-26-14
AB	Peace River	96.9	CKUA-FM-5	PG<22kw/156m
AB	Sylvan Lake	88.3	NEW	AF denied for economic reasons
AZ	Desert Ridge	92.9	KDWR-LP	CC for NS
AZ	Flagstaff	94.5	KOII-LP	CC for NS
AZ	Flagstaff	107.1	KLJX-LP	NW -42m, 35-11-30/111-39-17
AZ	Phoenix	101.9	K270BZ	XG 33-20-05/112-03-40
AZ	Wickenburg	103.1	K270BA	QR from 101.9, 120w, 33-57-56/112-45-02
AR	Bryant	93.3	KKSP	PG 22kw/107m, 34-44-37/92-19-07
AR	Clarendon	104.1	KBRI	PR>24kw/102m, 34-40-30/91-12-47; amendment from 17.5kw/119m
AR	Clarksville	97.5	KQLO-LP	NW 100w/-5m, 35-27-46/93-26-58
AR	Fordyce	100.7	K210EA	QR from 89.9
AR	Hermitage	107.9	NEW	NS 6kw/100m, 33-24-15/92-08-09
AR	Hot Springs	88.7	K204DI	PR>34w
AR	Prescott	99.7	K205CQ	QR from 88.9
BC	Houston	96.1	NEW	AF 3.5w/897m, 54-26-09/126-39-27; to relay CFNR-FM 92.1

BC	Hudson's Hope	103.1	NEW	NS 124w/-159m, to replace CBXU AM & relay CBYG-FM Prince George
CA	Anza	96.3	KOYT-LP	XR 33-34-48/116-39-23
CA	Anza	96.3	KOYT-LP	PG<-50m, 33-34-48/116-39-23
CA	Banning	102.1	K217BJ	QC from 91.3, 6w, 34-02-16/116-48-49
CA	Bridgeport	100.5	K209AW	QR from 89.7, 38-05-19/119-10-34
CA	China Lake	94.7	K288AX	QR from 105.5
CA	Chualar	93.1	KXSM	PR <1.4kw/178m, 36-27-51/121-17-52
CA	Citrus Heights	99.5	KLVB	PG 3.3kw/137m, 38-38-53/121-05-51
CA	Crescent City	101.1	KFUG-LP	CC from KFDG-LP
CA	Dunsmuir	104.9	K285GV	QG from K288BH-105.5, 20w, 41-13-21/122-17-50
CA	El Dorado Hills	103.3	K278CA	QR from 103.5, 14w, 38-43-11/120-59-22; CL from Folsom
CA	El Dorado Hills	104.5	K282BK	QR from 104.3, 35w, 38-43-11/120-59-22; CL from Placerville
CA	Encinitas	102.1	KLVJ	CC from KPRI
CA	Fort Bragg	100.9	K265DB	XR 39-27-54/123-45-28
CA	Halloran Springs	101.7	K269GK	QG from K272FN-102.3,
CA	Halloran Springs	101.7	K272FN	K272FN QC from 102.3, 10w
CA	Hanford	104.5	KOOH-LP	CC for NS
CA	Julian	100.1	KPRI	CC from KLVJ
CA	Lak Isabella	95.7	NEW	NS 61w/831m, 35-42-21/118-33-31
CA	LaQuinta	101.7	KKLQ-LP	CC for NS
CA	Mendocino	101.9	KUNK	QR from 92.7, 3kw/132m, 39-27-54/123-45-28
CA	MTecito	99.1	KXFM	PR<1.3kw/427m, 34-22-19/119-25-13; CL from Santa Maria
CA	Palmdale	100.7	K264BQ	XG 34-32-51/118-12-57
CA	QuartzHill	104.7	K284CD	PR <8w, 34-32-50/118-12-47
CA	San Andreas	89.3	KLRS	CC from KARQ
CA	San Francisco	102.5		AF 332kw/332m, 36-00-00/139-59-56 (this frequency is not available for use in San Francisco; 332kw is more power than can be authorized; and the specified coordinates are nearly 1,600km off the coast...)
CA	San Francisco	104.1	K281BU	K281BU PR>80w, 37-41-15/122-26-01
CA	San Marcos	107.9	NEW-xltr	AF (dismissed)
CA	San Marino	92.7	K224EY	NW 10w/431m, 33-44-52/118-20-10
CA	Santa Cruz Island	99.3	K257FZ	NS 100w/400m, 34-00-09/119-38-52
CA	Santa Margarita	92.9	K225BQ	XG 35-21-37/120-39-16
CA	Shasta Lake	92.7	NEW	NS 285w/452m, 40-39-15/122-31-12
CA	Twentynine Palms	107.7	KCDZ	PR>10kw/89m
CA	Vallejo	89.5	KZCT	PR >1kw/12m, 38-06-59/122-16-04
CA	Victorville	89.5	KLXD	CC from KXRD
CA	West Point	103.7	KQBM-LP	QC from 103.9
CA	Wofford Heights	98.1	NEW	NS 77w/822m, 35-42-21/118-33-31
CO	Aspen	106.7	K294CU	NS 10w/234m, 39-13-15/106-48-48
CO	Golden	95.3	K268CK	QR from 101.5, 75w dismissed ROA

CO	Granby	100.7	K264BO	NW 240w, 39-47-42/105-45-47
CO	Holyoke	99.5	K203EK	QR from 88.5
CO	Hugo	92.3	KKHI	CC from KMOW
CO	Lake City	97.3	NEW	NS 1.022kw/242m, 37-59-43/107-19-17
CO	Loma	102.5	KCDC	CC from KDVC
CO	MTrose	93.3	K228EV	QR from 93.5, 250w, 38-28-08/107-53-07; CL from Cimarron
CO	MTrose	100.1	K262BT	QR from 100.3, 250w, 38-28-08/107-53-07
CO	Oak Creek	100.1	K258CJ	QR from 99.5, 23w, 40-27-05/106-45-04
CO	Pueblo West	92.3	K223CB	QC from 92.5, 38-46-22/104-59-32; CL from Colorado Springs
CO	Steamboat Springs	98.9	KTYV	PR >2.1kw/543m, 40-27-16/106-44-34; amendment from 2.5kw/500m
CO	Yuma	99.9	K207EG	QR from 89.3
CT	Middlefield	91.9	W220CE	PR>10w
CT	Terryville	105.3	WJYC-LP	NW 18m,41-40-45/72-59-38
CT	Westport	102.5	W273CN	PR>150w, 41-14-29/73-27-13;
DE	Dover	103.3	W277AH	FC; sold to Educational Media Foundation
DE	Seaford	96.3	W242AV	PG>250w
FL	Brandon	100.1	WYPW-LP	PR 39m
FL	Coconut Creek	104.7	WYUN-LP	NW30m, 26-13-29/80-08-06
FL	Coconut Creek	104.7	WYUN-LP	PG 30m, 26-13-29/80-08-06; NW
FL	Daytona Beach Shores	99.5	WLOV-FM	PG>5.7kw/102m
FL	Eatonville	103.7	W279CO	XR 28-36-20/81-25-05
FL	Fort Myers	96.9	WINK-FM	NS 12.2kw/103m, 26-29-16/81-55-46 (aux)
FL	Haines City	92.7	W224CF	PG 250w, 28-04-31/81-49-19
FL	Immokalee	92.1	WAFZ-FM	NW 370w/60m, 26-24-34/81-25-48 (aux)
FL	Jacksonville Beach	101.9	W270CD	PR>120w, 30-16-34/81-33-51
FL	Kissimmee	97.1	W246CK	PR >250w, 28-22-01/81-23-13
FL	Kissimmee	93.7	WNKQ-LP	NW42m, 28-20-39/81-23-50
FL	Miami	94.5	WVGK-LP	PR> 26m, 25-53-27/80-19-32
FL	Miami	99.1	WEDR	PC92kw/309m, 25-57-30/80-12-44
FL	Miami	94.5	WVGK-LP	PG>26m, 25-53-27/80-19-32
FL	Nassau Village	104.9	W285FE	PR>250w, 30-29-48/81-46-52; amendment to change site
FL	Orlando	94.1	W231CT	XG 28-41-21/81-20-57
FL	Orlando	93.5	W228DF	PR<200w, 28-33-11/81-36-01; CL from Four Corners
FL	Palm Beach	97.9	WRMF	PG>413m, 26-34-29/80-14-32
FL	Punta Rassa	97.7	WTLQ-FM	NS 8.2kw/103m (aux)
FL	Sebring	101.3	W214BA	QC from 90.7,10w
FL	St. Augustine	100.9	W264CQ	PR>250w, 29-57-57/81-28-36; amended to add frequency change from 100.7
FL	St. Augustine	100.9	W264CQ	QR from 100.7, 250w, 29-57-57/81-28-36; amendment to add frequency change
FL	Tallahassee	105.3	W233AQ	QC from 94.5, 220w
FL	Vero Beach	105.3	WVRO-LP	NW 43m, 27-37-12/80-25-01
FL	West Palm	101.5	W268CF	PR>50w, 26-40-54/80-11-37; amendment to remove frequency change to 90.9

FL	West Palm Beach	104.7	W284CR	FC; sold to Educational Media Foundation
FL	Williston	102.7	W274BT	PR <205w
FL	Winter Garden	99.7	WDDT-LP	NW67m, 28-33-11/81-36-01
GA	Americus	97.1	W246DF	QG from W244CY-96.7, 55w, 32-05-03/84-14-35
GA	Americus	97.1	W246DF	NW_55w, 32-05-03/84-14-35
GA	Buford	89.7	W209CD	PC<19w, 34-00-02/84-05-16
GA	Jeffersonville	94.3	W232BM	CX, off over a year
GA	Lavonia	92.1	WLHR-FM	PG5.7kw/103m
GA	Macon	94.7	W234CQ	QG from W290AO-105.9,
GA	Maysville	100.9	NEW	NS 6kw/99m, 34-20-09/83-39-06
GA	McRae	98.9	W201DB	QR from 88.1, 19w,
GA	St. Simons Island	92.7	WMOG	PG>7kw
GA	St. Simons Island	92.7	WMOG	PR>19.5kw/113m, 31-10-09/81-32-14
GA	Tignall	105.3	WSGC-FM	CC for NS
GA	Winder	101.1	W266BW	XR 33-47-51/84-20-02 dismissed ROA
HI	Kailua	94.5	K233DC	PG<10w, 19-43-28/155-55-10
HI	Lihue	88.9	KHJC	PC<2kw/110m, 22-00-17/159-21-38
HI	Lihue	90.3	K212GE	PC>50w, 22-00-17/159-21-38
ID	Coeur d'Alene	100.3	K262CR	NS 4w/452m, 47-43-54/116-43-45
ID	Coeur d'Alene	91.9	K220BX	CX
ID	Coeur d'Alene	92.5	K223AN	K223AN PR>88w
ID	Coeur d'Alene	94.9	K278BX	K278BX QR from 103.5
ID	Driggs	94.7	K234CM	NW 16w/589m, 43-42-42/111-20-56
ID	Ketchum	88.5	KDPI	QC from 89.3, 105w/638m, 43-39-41/114-24-07
IL	Chicago	98.3	W252AW	PR>250w, 41-56-03/88-04-22
IL	Chicago	88.1	WSSD	CX, off over a year
IL	Dixon	101.7	WRCV	NS_350w/53m,_41-49-38/89-29-11(aux)
IL	Freeport	105.7	WQJT-LP	CC fo rNS
IL	Minier	99.7	W262AK	QC from 100.3, 5w
IL	Normal	92.1	W221CY	PG >250w, 40-30-40/88-57-15
IL	Shelbyville	94.1	W234CE	QR from 94.7, 200w
IL	Stonington	107.1	W296CT	PR >27w, 39-32-38/89-16-29
IL	Taylorville	96.7	W298BM	QR from 107.5, 10w
IL	Waukegan	92.5	W223CG	QG from W221DD-92.1, 170w, 42-28-29/87-50-45
IN	Evansville	102.5	WCRY-LP	CC for NS
IN	Goshen	97.7	WSSM	XC 41-36-13/85-55-46
IN	Greenfield	102.9	W275BD	XC 39-45-36/86-00-22
IN	Jasper	93.1	WTJW-LP	NW 75m, 38-22-26/86-56-21
IN	Merrillville	92.7	W224CZ	NS10w,41-27-31/87-19-13
IN	Monticello	94.5	W233BT	PR>27w ,40-45-01/86-47-03
IN	Morristown	88.1	WJCF-FM	PG <930w/111m,39-42-22/85-29-41

IN	New Albany	101.9	W270CR	PR >150w,38-21-55/85-50-24; CL from Okolona, Ky.
IN	Paoli	95.3	WUME-FM	PR>6kw
IN	Spencer	100.3	W208BT	QR from 89.5,
IA	Ames	89.7	K208FV	QR from 89.5
IA	Clinton	92.5	KXJX-LP	PC>27m, 41-51-35/90-12-17
IA	Des Moines	94.5	K233BT	XC 41-35-35/93-37-48
IA	Des Moines	100.7	K264CD	NW 99w,41-35-35/93-37-48
IA	Des Moines	98.9	KFMG-LP	QC from 99.1, 26m
IA	Des Moines	95.3	K238BM	QR from 95.5,250w,41-38-20/93-48-27
IA	Eagle Grove	101.3	K213EP	QR from 90.5
IA	Montezuma	89.7	KVCI	CC from KRNF
IA	Ottumwa	88.9	K205CA	FC; sold to Educational Media Foundation
IA	Waterloo	97.1	KBDJ-LP	CC for NS
KS	Emporia	90.7	KPOR	FC; sold to Educational Media Foundation
KS	Hoyt	90.9	K215DM	PG>39w
KS	Parsons	92.1	K219LA	QR from 91.7, 10w
KY	Bowling Green	93.9	W233BV	QR from 94.5,10w
KY	Harlan	106.7	W294BF	XG 36-48-05/83-22-37
KY	Madisonville	93.9	WK TG	AF 7.9kw/109m, 37-21-31/87-29-45 (aux)
KY	Madisonville	93.9	WK TG	NS 7.9kw/109m, 37-21-31/87-29-45(aux)
KY	Paducah	103.3	W277CH	XR 37-08-33/88-39-02; CL from Woodlawn
KY	Paintsville	98.3	WGWD-LP	NW 178m, 37-47-44/82-48-03
LA	Bastrop	99.1	K202DD	QC from 88.3
LA	Baton Rouge	101.1	W266CD	PR<99w, 30-25-56/91-11-07
LA	Cameron	107.1	KMCZ	PR<1.3kw/23m, 29-47-49/93-19-04
LA	Clinton	91.9	WWRA	PG >25kw/81m
LA	Hornbeck	101.7	NEW	NS 4.3kw/108m, 31-09-46/93-16-16
LA	Oak Grove	104.1	KLCJ	PR>6kw/94m, 30-00-11/93-05-05
LA	Rosepine	104.1	NEW	NS 2.7kw/112m,31-00-17/93-16-40
LA	Timberlane	105.7	K289AM	PC>250w, 29-55-12/90-01-28
ME	Benedicta	89.3	WRPB	PC >3kw/168m,46-01-27/68-15-10
ME	Saco	105.1	W286CU	PG>19w
ME	Waterville	99.7	W259BY	NW 190w,44-29-21/69-39-07
MD	Fruitland	107.7	WKHI	PR>23kw/105m
MD	Loch Lynn Heights	95.9	WKTZ-FM	PG 1.5kw/202m,39-24-37/79-17-15; CL from Grafon,WV
MD	Newark	94.9	NEW	NS 4.7kw/113m, 38-21-41/75-15-10
MD	Takoma Park	94.3	WOWD-LP	PR 20w/67m,38-58-28/77-00-3
MD	Takoma Park	94.3	WOWD-LP	PG 67m,38-58-28/77-00-38
MA	Chicopee	98.7	WYHV-LP	CC for NS
MA	Pittsfield	103.3	W277CJ	PG100w,42-26-52/73-15-19
MI	Alpena	102.7	W274BN	XG 45-02-00/83-28-51

MI	Ann Arbor	88.3	WCBN-FM	PR>3.1kw/60m, 42-14-35/83-44-14
MI	Eagle	88.5	WJOM	PG> 25kw
MI	Holly	94.1	W232BH	QC from 94.3, 19w, 42-42-07/83-26-44
MI	Ludington	103.9	WLCV-LP	CC for NS
MI	Manistee	107.7	W299CB	QG from W300CG-107.9
MI	Manistee	107.7	W300CG	QC from 107.9
MI	Muskegon	96.5	W243BH	PG>3w, 43-10-30/86-13-48
MI	Muskegon	96.5	W243BH	PC>3w, 43-10-30/86-13-48
MI	Orchard Lake	89.3	WBLD	PC>44w/43m, 42-34-11/83-21-40
MI	Russellville	97.3	W249CL	QR from 97.7, 80w,
MI	South Haven	92.1	W219DG	QR from 91.7, 38w
MI	Whitehall	103.9	W227AS	QR from 93.3, 60w,43-20-04/86-20-45
MN	Blackduck	104.5	KBUN-FM	CC from WQXJ
MN	Deer River	92.7	W224CG	NW 250w/18m,47-19-47/93-47-36
MN	Duluth	90.9	W215CG	PR >99w,46-47-20/92-07-04
MN	Jackson	105.7	KUXX	CC from KRAQ
MN	Lakeville	97.9	KEFE-LP	NW 29m,44-43-01/93-13-42
MN	Mankato	103.1	K276EH	PR>250w,44-07-40/94-02-03; CL from Blue Earth
MN	Perham	99.5	KPRW	PR<99m, 46-33-21/95-27-45
MN	Pipestone	99.3	K257FP	PC >250w,43-59-45/96-20-45
MN	Red Lake	105.3	NEW	AF 100kw/192m, 47-49-55/95-25-01
MN	St. Paul	95.3	KZGO	CC from KNOF
MN	St. Paul	99.1	K256CO	NS 38w,45-02-54/93-02-25
MN	Staples	94.7	K234CQ	QG from K287BR-105.3; CL from Park Rapids
MN	Staples	94.7	K287BR	QC from 105.3; CL from Park Rapids
MN	Winona	95.3	KGSL	CC from KAGE-FM
MN	Winona	101.1	KRIV-FM	CC from KHME
MS	Leland	102.1	WIQQ	QR_from_102.3,_12kw/145m,_33-28-10/90-50-30;_amendment_from_9.4kw/162m
MS	Macon	99.3	W203BN	QR from 88.5
MS	Magee	96.9	WSMP-LP	PG>28m, 31-52-26/89-43-54
MS	Meridian	99.7	W259BP	PR>250w, 32-18-43/88-41-33
MS	Pearl	93.9	WJAI	PR>135m
MS	Pocahontas	103.9	WYAB	PR>6kw/96m, 32-24-27/90-09-03
MS	Summit	93.5	NEW	NS 6kw/97m, 31-17-07/90-19-10
MO	Columbia	90.5	KMUC	CC from KWWC-FM
MO	Columbia	98.3	NEW	NS 8.4kw/123m, 38-57-19/92-16-20
MO	Columbia	90.5	KMUC	PC>1.65kw/46m, 38-56-26/92-19-13; FC to classical
MO	Doniphan	99.1	KCRR-LP	CC for NS
MO	Kirkville	91.5	KEFL	PG >20kw/107m
MO	Kirkville	106.3	KRFR-LP	PR 46m,40-11-55/92-35-41
MO	Kirkville	106.3	KRFR-LP	PG_46m, 40-11-55/92-35-41

MO	Poplar Bluff	94.1	K231BM	PC>250w, 36-45-59/90-28-52
MO	St. LAs	104.5	K283CI	PG <99w,38-38-09/90-11-45; CL from Highland, Ill;CC from W283CA
MO	Troy	103.1	K279CA	QR from 103.7,22w
MO	Troy	103.1	K279CA	QR from 103.7, 11w; amendment from 22w
MT	Billings	94.7	K234CP	QG from K235BO-94.9,250w,45-45-57/108-27-24; CL from Columbus
MT	Canyon Creek	107.9	K300CR	PG >250w
MT	Columbus	90.5	KMTJ	PR>1kw/369m, 45-11-40/109-20-30
MT	Kalispell	104.3	K284CC	QR from 104.7, 250w
MT	Kalispell	102.3	KANB-LP	PG<-63m, 48-14-31/114-22-17
MT	Kalispell	102.3	KANB-LP	PR<-63m, 48-14-31/114-22-17
MT	Lewistown	92.1	K220IU	QR from 91.9, 47-04-16/109-24-32
MT	Lima	100.9	NEW	NS 85kw/314m,44-55-25/112-55-45
MT	Missoula	94.9	KYSS-FM	AF3.2kw/629m, 46-48-08/113-58-21 (aux)
MT	Missoula	104.1	K281BK	XC 46-48-30/113-58-38
MT	Missoula	94.9	KYSS-FM	NS 3.2kw/629m, 46-48-08/113-58-21(aux)
MT	Seeley Lake	88.7	K201EF	QR from 88.1, 75w, 47-09-54/113-31-50
MT	Shelby	99.5	K205FH	QR from 88.9
NE	Lincoln	91.9	K220GT	XR 40-48-41/96-42-09
NE	Ogallala	99.7	KOGA-FM	AF26.4kw/73m (aux)
NE	Ogallala	99.7	KOGA-FM	NS 26.4kw/73m(aux)
NE	Plattsmouth	95.5	K236BY	QR from 95.1, 41-07-09/95-59-58
NV	Mesquite	90.9	KAIZ	CX, license
NV	North Las Vegas	94.9	K235CL	PR>75w, 36-17-42/115-16-50
NV	Owyhee	97.3	NEW	NS 1.5kw/751m, 41-44-08/116-03-44
NH	Exeter	97.1	W246BP	PR>200w, 43-01-38/70-52-51; CL from Sanford, Me.
NH	Rochester	105.9	WMEX-LP	PC>47m, 43-16-42/71-01-34
NH	Whitefield	99.1	WNYN-FM	PG<450w
NH	Atlantic Highlands	105.5	W288BM	CX, grant rescinded
NH	Bridgeton	102.5	WCNU-LP	NW -4m, 39-25-40/75-14-18
NH	Edison	105.9	NEW-xltr	AF dismissed
NH	Fort Lee	103.1	W276AQ	PR>99w
NH	Franklin Township	92.7	W224CW	PR>145w, 40-28-45/74-28-30
NH	Manahawkin	93.9	W230CJ	NS 13w/102m, 39-42-56/74-17-31
NH	Point Pleasant	95.9	WRAT	PG 1.45kw/146m,40-09-57/74-01-56
NH	Teaneck	89.1	WFDU	PC >3kw/195m
NH	Toms River	97.3	NEW-xltr	AF Dismissed (WYRS)
NH	Wood Ridge	94.3	WSBP-LP	NW 20m, 40-51-23/74-05-25
NM	Carlsbad	90.3	KLXC	CC from KARQ
NM	Cloudcroft	97.9	KTMN	PG<4.7kw
NM	Dexter	102.5	KALN	QG from 96.1,112m
NM	Las Cruces	91.5	KRUX	PC>3kw

NM	Las Vegas	107.1	KMDS	CC for NS
NM	Las Vegas	107.1	KMDS	NW 6kw/-68m,35-34-48/105-12-59
NM	Roswell	95.7	NEW	AF 6kw/100m, 33-23-57/104-22-30; amendment from 102.5 with 50kw/115m
NY	Binghamton	89.7	W209CI	XC 42-03-22/75-56-39
NY	Fenner	90.5	WXXE	FC; sold to SUNY
NY	Flanders	94.1	W233BX	QR from 94.5, 100w, 40-51-18/72-46-11
NY	Fort Greene	95.1	W236CH	PG>27w, 40-45-09/73-58-06
NY	Hauppauge	96.5	W243DM	NW38w, 40-52-03/73-08-57
NY	Medina	100.3	W262CQ	QG from W207BD-89.7, 250w, 43-19-08/78-29-48
NY	New Rochelle	103.1	W276BV	PR>85w, 40-54-44/73-46-55; CL from Greenwich, Conn.; amendment from 3w
NY	Redwood	88.5	WBTS-LP	NW
NY	Riverhead	102.1	W271BZ	PR >250w,40-51-08/72-45-55; CL from Tiana
NY	Vestal	102.5	W273AB	PR>100w ,42-05-12/76-01-42; C Lfrom Owego
NC	Asheboro	99.9	W260CG	XR 35-43-34/79-49-45
NC	Bethania	96.3	W242CCXR	36-04-26/80-15-18
NC	Cary	103.3	WSHP-LP	PR 49m, 35-47-09/78-47-34;PG
NC	Cary	103.3	WSHP-LP	PG 49m, 35-47-09/78-47-34
NC	Chapel Hill	107.9	W300CE	PG>250w
NC	Franklin	104.9	W285FD	QG from W286CW-105.1, 113w ; CL from Alarka
NC	Hendersonville	101.7	W269CW	NW 19w, 35-23-55/82-29-33
NC	Murfreesboro	101.3	W214BJ	QR from 90.7, 10w
NC	Old Fort	99.9	WKSF	NS 6.4kw/329m, 35-31-39/82-29-49 (aux)
NC	Raleigh	106.7	WSMU-LP	PG 33m
NC	Raleigh	101.9	WKRP-LP	PR>8m
NC	Raleigh	101.9	WKRP-LP	PR>9m dismissed; going for 8m instead
NC	Raleigh	106.7	WSMU-LP	PC 33m
NC	Rolesville	98.1	W251CA	NW 250w, 35-56-25/78-28-45
NC	Rolesville	98.7	W254AS	XC 35-56-26/78-28-45; CL from Louisburg
NC	Tryon	101.5	W268BS	NW 10w,35-16-00/82-14-3\$
NC	Winterville	107.5	W298BX	XR 5-32-39/77-21-25; CL from New Bern
OH	Ashtabula	98.3	WYBL	PG 4.7kw/110m, 41-51-14/80-41-21
OH	Bucyrus	92.3	W222CC	XR 40-48-26/82-58-15; CL from Mansfield
OH	Cincinnati	105.5	WCXX-LP	PR 118m, 39-10-47/84-23-54
OH	Cincinnati	105.5	WCXX-LP	PG 118m, 39-10-47/84-23-54
OH	Cincinnati	105.5	WCXX-LP	PR 118m, 39-10-47/84-23-54 dismissed
OH	Lancaster	104.5	W283BO	XC 39-44-09/82-35-51
OH	Lorain	93.7	WSAV-LP	PR>46m, 41-25-29/82-08-58
OH	Youngstown	88.5	WYSU	NW 2.25kw/40m, 41-06-33/80-39-03(aux)
OK	Bristow	105.7	K289BK	PR <170w,35-52-13/96-22-18CX ROA; reMEs 250w at old site
OK	Broken Bow	104.9	KIBE	PR<700w/54m, 34-02-01/94-44-35
OK	Broken Bow	104.9	KIBE	PG<700w/54m, 34-02-01/94-44-35

OK	Shawnee	107.1	KOGD-LP	CC for NS
OK	Tulsa	105.7	K289CC	XG 36-06-25/95-47-13
ON	Elk Lake	89.7	CBCG-FM	PR>116w/54m
ON	Ridgetown	91.3	NEW	AF 60w/9m,42-26-24/81-53-15 withdrawn from 11/18 hearing & will be rescheduled
OR	Aloha	97.9	KLVP	NW 11kw/309m(aux)
OR	Altamont	94.9	NEW	NS 1.8kw/653m,42-05-50/121-37-59
OR	Bend	106.1	K237FE	QR from 95.3, 250w, 44-04-38/121-19-49; CL from Prineville
OR	Cave Junction	88.5	K203CI	FC; sold to Educational Media Foundation
OR	Coos Bay	91.7	K219CK	FC; sold to Educational Media Foundation
OR	Manzanita	88.9	KQMI	PR>90w/326m, 45-44-39/123-56-23; amendment from 135w
OR	Manzanita	97.5	NEW	NS 110w/-47m, 45-41-03/123-52-50
OR	Mill City	94.9	KYAC-LP	PC> -59m,44-45-06/122-31-41
OR	Milton	99.7	K261BS	QC from 100.1, 170w,45-59-23/118-10-31
OR	Powell Butte	106.7	K291BL	QR from 106.1
OR	Prairie City	102.9	NEW	PR <100w/-208m,44-27-57/118-42-20
OR	Prineville	101.3	NEW	NS 15.9kw/591m, 44-23-33/120-20-44
OR	Salem	96.7	K244FG	QG from K242AB-96.3, 130w ,44-51-14/123-07-20
OR	Silverton	97.9	NEW-xltr	AF dismissed
OR	Sweet Home	107.1	KLVU	PC 9.8kw/725m
OR	The Dalles	101.5	KDOA	PR 155w/599m,45-42-43/121-07-02
OR	The Dalles	101.5	KDOA	PG 155w/599m, 45-42-43/121-07-02
OR	The Dalles	101.5	KDOA	NW 155w/599m, 45-42-43/121-07-02
PA	Aston	98.5	WNUW-LP	NW 69m,39-52-39/75-27-21
PA	Butler	88.7	W257DK	QR from 99.3, 13w,40-52-28/79-54-11
PA	Jeannette	97.9	W250AU	PG <10w,40-23-06/79-41-35
PA	New Holland	95.3	W237DC	PG>250w
PA	Wilkes-Barre	99.9	W260AY	PR>250w, 41-11-11/75-51-33; CL from Harveys Lake
PA	Youngsville	88.5	WYVL	PG >2.5kw/130m,41-54-07/79-15-41
PR	Caguas	90.9	WODB-LP	PR<-120m, 18-14-08/66-02-12
RI	Bradford	107.7	WWRX	PC 1.05kw/170m, 41-27-39/71-55-46
RI	Providence	101.1	WPVD-LP	CC for NS
SC	Aiken	101.9	WASD-LP	CX; off over a year
SC	Columbia	106.3	W292EU	PG>250w, 34-02-38/80-59-51
SC	GrayCourt	90.5	WHQB	CC for NS
SC	Hodges	105.3	WZKQ-LP	CX, off over a year
SC	Irmo	91.7	W219CY	PR>250w, 34-07-07/80-56-13
SC	Orangeburg	99.7	W258CP	QC from 99.5, 33-45-46/80-49-23
SC	Swansea	103.9	WHXT	PG 17.5kw/120m,33-48-34/81-02-56
SD	Parkston	92.1	KZKK	QG_from_105.1,_100kw/106m,_43-42-12/97-59-50
SD	Rapid City	89.9	KJRC	PC>25kw/485m
SD	Redfield	99.9	K207EB	QR from 89.3

TN	Cordova	106.5	WCVD-LP	QG from 106.7, 50m, 35-23-56/89-53-21
TN	Gallatin	100.7	W264CR	NW
TN	Lawrenceburg	102.5	W273CU	QG from W276CY-103.1, 230w
TN	Morristown	97.9	W250BR	XG35-58-23/83-12-49
TN	Powell	102.5	WMPU-LP	CC for NS
TN	Waynesboro	100.7	WWON-FM	PC>6kw/94m,35-18-30/87-44-42
TX	Alpine	88.5	NEW	NS 47kw/404m, 30-33-50/104-09-42
TX	Barstow	88.3	NEW	AF dismissed
TX	Benavides	94.3	KXTM	PG>13.5kw/74m,27-35-09/98-24-59
TX	Brownsville	100.7	NEW	NS 130m,25-57-49/97-31-12
TX	Brownsville	96.5	NEW-lpfm	NS 30m,25-57-49/97-31-12
TX	Clarendon	91.5	K218FI	PG>250w, 34-56-08/100-53-22
TX	Cotulla	100.7	NEW	NS 500w/26m,28-25-58/99-14-01
TX	Crosbyton	100.7	NEW	AF 9kw/133m,33-40-41/101-06-14
TX	Crystal Beach	101.5	KSTB	CX
TX	Cuney	99.7	NEW	NS 2kw/176m, 32-03-40/95-18-50
TX	De Soto	96.7	K244FC	PR<99w, 32-35-02/96-57-48; CL from Ennis
TX	Decatur	93.1	K226CG	PC>62w, 33-10-50/97-33-37
TX	Dilley	95.3	KVWG-FM	PR >750w/25m, 28-41-05/99-10-46; amendment from 1kw & to remove frequency change to 94.7
TX	Dumas	90.7	K291AQ	QR from 106.1; amendment from 90.9 but later amended again to 106.3
TX	Early	106.7	NEW	NS 6kw/88m, 31-46-21/98-52-41
TX	El Indio	95.1	NEW	NS 6kw/22m, 28-30-21/100-18-41)
TX	Encinal	99.7	NEW	AF 6kw/93m, 28-00-21/99-09-31
TX	Encinal	105.1	NEW	NS 6kw/60m,
TX	Garwood	97.3	NEW	AF 6kw/97m,29-32-04/96-35-40
TX	Goldthwaite	107.3	NEW	NS 3kw/129m, 31-26-23/98-33-04
TX	Guthrie	98.3	NEW	AF 1kw/47m, 33-37-08/100-19-17
TX	Happy	93.7	K229BY	PC>250w, 34-40-30/101-50-17; CL from Tulia
TX	Hawley	101.7	NEW	NS 3kw/75m, 32-34-53/99-42-50
TX	Hebbronville	104.3	NEW	NS 5.7kw/102m,27-19-00/98-40-05
TX	Hereford	102.5	K219LO	QR from 91.7
TX	Hico	106.5	NEW	NS
TX	Horizon City	91.5	NEW	PR>2.3kw/18m, 31-49-22/106-08-15; amendment to change site
TX	Houston	106.1	K291CE	PR <190w,29-44-56/95-28-55;CL from Sugar Land
TX	Houston	104.5	K283CH	PG <99w,29-45-30/95-22-03;Cl from Alvin
TX	Jacksonville	95.1	NEW	AF 2.45kw/160m, 31-58-53/95-16-55
TX	Jacksonville	95.1	NEW	NS 2.45kw/160m, 31-58-53/95-16-55
TX	Junction	107.3	NEW	AF 13kw/140m,30-20-35/99-35-17
TX	Killeen	95.1	KMYB-LP	PR 42m,31-05-01/97-44-18
TX	Knox City	106.5	NEW	AF 25kw/91m,33-35-31/99-47-38

TX	Lake Jackson	107.5	KGLK	AF 95kw/481m, 29-17-16/95-13-53(aux)
TX	Llano	96.3	NEW	NS 25kw/84m, 30-58-46/98-40-51
TX	Lockney	98.9	KBYL	CX,off over a year
TX	Lometa	98.5	NEW	AF 2kw/100m,31-13-12/98-23-50
TX	Marathon	89.3	NEW	AF dismissed
TX	Marfa	88.7	NEW	AF dismissed
TX	Mason	104.1	NEW	NS 50kw/146m,
TX	Matagorda	106.1	NEW	AF 25kw/86m,28-48-41/95-56-15
TX	Matagorda	106.1	NEW	NS 25kw/86m, 28-48-41/95-56-15
TX	McAllen	105.9	KCZN-LP	CC for NS
TX	McAllen	94.1	K231CL	PR>15w, 26-15-19/98-09-41
TX	Memphis	104.5	NEW	AF 500w/52m, 34-43-30/100-32-11
TX	Mertzson	101.1	NEW	AF 45kw/120m
TX	Meyersville	100.1	NEW	NS 6kw/73m, 28-52-29/97-21-43
TX	Moody	99.1	NEW	NS 3kw/133m
TX	Muleshoe	93.3	NEW	AF 100kw/83m,34-00-44/102-56-21
TX	Oakwood	94.5	NEW	NS 6kw/83m, 31-38-46/95-48-38
TX	Paducah	94.7	NEW	NS 25kw/72m, 34-02-10/100-18-56
TX	Palacios	100.7	NEW	AF 6kw/83m, 28-41-12/96-08-21
TX	Palacios	100.7	NEW	NS 6kw/83m, 28-41-12/96-08-21
TX	Pearsall	103.3	NEW	NS 6kw/100m
TX	Port O'Connor	91.9	KHPO	PG>35kw
TX	Presidio	106.3	NEW	AF 9kw/429m,29-46-04/104-09-39
TX	Quanah	98.1	NEW	NS 25kw/60m, 34-18-55/99-44-49
TX	Redford	88.7	NEW	AF dismissed
TX	Richland Springs	107.7	NEW	AF 3kw/83m,31-18-22/99-05-00
TX	Roaring Springs	93.3	NEW	AF 6kw/100m,34-00-06/100-51-46
TX	Roaring Springs	97.7	NEW	AF 25kw/100m,33-57-50/100-46-40
TX	Roby	105.9	NEW	NS 6kw/99m, 32-45-00/100-12-12
TX	Rocksprings	106.1	NEW	AF 6kw/88m, 30-00-30/100-12-48)
TX	Rocksprings	106.1	NEW	NS 6kw/88m, 30-00-30/100-12-48
TX	Sachse	95.7	KYNC-LP	NW 76m,33-00-07/96-22-20
TX	Sanderson	102.7	NEW	AF 100kw/145m,30-09-00/102-24-09
TX	Sanderson	105.1	NEW	AF 34kw/140m,30-09-00/102-24-09
TX	Soncy	92.3	K222CL	XG 35-12-17/101-50-02
TX	Spring	101.5	KLJJ-LP	QR from 95.1, 31m, 30-10-59/95-27-11;QG
TX	Spur	99.9	NEW	AF 50kw/144m,33-39-39/100-57-29
TX	Sulphur Springs	91.1	KGPF	PC>1.9kw/37m, 33-07-19/95-36-19
TX	Sunset Valley	92.5	KVLR	PR>10kw/156m,30-17-54/97-49-55

TX	Turkey	96.7	NEW	AF 6kw/94m,34-23-28/100-53-01
TX	Uvalde	107.7	KXUV-LP	CC for NS
TX	Waxahachie	96.7	K244FC	XG 32-22-44/96-45-54; CL from Ennis
TX	Winnie	98.9	K256CC	QR from 99.1, 99w,29-51-43/94-17-46; CL from BeauMT
UT	La Verkin	102.3	KUTQ	CC from KCDC
UT	Milford	105.5	NEW	NS 43kw/854m,38-19-05/112-53-00
UT	Toquerville	104.1	NEW	NS 100kw/322m, 37-05-41/113-11-06
VA	Culpeper	95.3	W237CA	PR>178w
VA	Harrisonburg	103.3	W224CH	QR from 92.7, 38-26-40/78-44-04
VA	Harrisonburg	107.5	W298BR	PR<5w, 38-26-40/78-44-04
VA	Hillsville	99.7	WXJX-LP	CC from WWSO-LP
VA	Norton	106.3	WNVA-FM	PR 35w/587m,36-53-53/82-37-21
VA	Norton	106.3	WNVA-FM	PG>157w/587m,
VA	Richmond	103.3	WBDB-LP	CC for NS
VA	Vinton	101.5	WVMP	PC>1.2kw/198m, 37-15-01/79-56-00
WA	Aberdeen	104.1	K281CG	QG from K280GE-103.9,250w
WA	Camas	102.5	KIEV-LP	CC from KCVD-LP
WA	Fall City	91.9	K220HD	CX, off over a year
WA	Raymond	106.1	K291BY	NW 250w, 46-41-44/123-46-17
WA	Sequim	91.5	KSQM	PC 2.05kw/-62m
WA	Sequim	102.9	K272ER	QR from 102.3
WA	Twisp	107.1	KVSG-LP	NW 100w/-183m,48-21-49/120-07-20
WA	Walla Walla	89.7	KWWS	KWWS PC>16kw/408m
WV	Matewan	106.7	WVKM	PG <770w/278m,37-42-16/82-12-50
WV	Ripley	90.7	WLKV	PG <2.5kw/88m,38-48-29/81-43-05
WI	Black River Falls	91.3	W214BS	QR from 90.7
WI	Eau Claire	89.1	W206AH	PR<19w, 44-46-38/91-28-29
WI	Eau Claire	89.1	W206AH	FC; sold to Educational Media Foundation
WI	Janesville	96.3	W242CM	NS 170w/15m, 42-38-50/89-03-22
WI	Madison	95.5	WWMV-LP	CC for NS
WI	Marshfield	100.3	W262AX	FC; sold to Wisconsin ECB, to relay WLBL 930
WI	Marshfield	100.9	W262AX	QR from 100.3, 160w, 44-36-48/90-02-14
WI	Medford	102.7	W220DY	QR from 91.9
WI	Milwaukee	104.1	WXRW-LP	NW 22m, 43-04-03/87-54-03
WI	Neillsville	92.1	W220DR	QR from 91.9, 5w
WI	Platteville	89.1	WSSW	PC 130w/132m, XR30-25-59/87-13-09
WI	Sheboygan	101.5	W268BR	XR 43-43-14/87-44-01

PHOTO NEWS



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December 2015

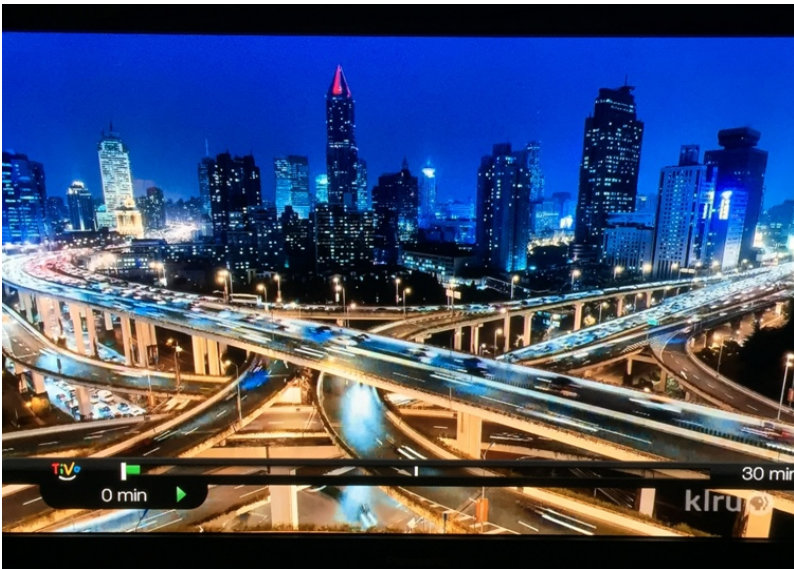
Mike Perron of Eunice, LA connected his antennas to his Tivo during a tropo opening to TX in October and got some very nice photos. Most of the reporting at the time was about wildfires in the area. Hmm... wonder if that had anything to do with the ducting? Danny and I remember how wildfires in Mexico seemed to correlate with a month-long tropo opening way back when.



KCWX-5 Fredericksburg, TX
388 mi Tr seen 10-16-15



KENS-39 San Antonio, TX
366 mi Tr seen 10-16-15



KLRU-22 Austin, TX
320 mi Tr seen 10-16-15



KEYE-43 Austin, TX
320 mi Tr seen 10-16-15
"in for over 3 hours"



WOAI-48 San Antonio, TX
366 mi Tr seen 10-16-15

Happy Holidays! JEFF

DTS Cites Power of OTA Radio in iBiquity Buy

Written for *RadioWorld* by Susan Ashworth [September 2, 2015]

Source: <http://www.radioworld.com/article/dts-cites-power-of-ota-radio-in-ibiquity-buy/276990>



According to DTS, its [pending acquisition of iBiquity Digital](#) is prompted by the strength of the HD Radio market and what the buyer sees as significant opportunities to expand its audio offerings into the automotive, home and mobile environments.

“DTS has long been at the forefront of the highest quality audio technology, and we saw a similar spirit at iBiquity, [where we saw] an opportunity to revolutionize traditional AM/FM broadcasting and capitalize on broadcast radio’s ongoing digital upgrade,” said Jon Kirchner, right, chairman and CEO of DTS, during a morning conference call. DTS grew out of the cinema sound market, and its current offerings include surround-sound codecs and implementations in consumer gear like Blu-ray players and car audio.

“This transaction extends our reach into the global and growing digital radio broadcast market. We believe broadcast radio has interesting opportunities for expansion in home and mobile markets.”

iBiquity’s penetration of HD Radio technology in the North American automotive market was a compelling factor in the \$172 million acquisition, DTS said. On the station side, about a fifth of licensed full-power FM stations have adopted HD Radio, but iBiquity estimates that those account for about three-quarters of U.S. listening, and says it has been making inroads in smaller-market stations as well. Meanwhile each of the 36 major auto brands serving the U.S. market is offering HD Radio on some of their vehicles, and DTS expects the majority of North American vehicles to be equipped over time.

The company also pointed to the power of traditional over-the-air broadcast to provide compelling content and entertainment to listeners. Citing increasing costs that consumers face in using broadband for entertainment, “free over-the-air broadcast radio — upgraded to digital with HD Radio — has an important place in the range of options,” said Kirchner. “This was a natural fit for us,” he said.

Bob Struble, president/CEO of iBiquity, echoed that theme. “I view this as a strong vote of confidence for terrestrial AM and FM broadcasting,” he told Radio World during a phone interview. DTS, he said, is “a state-of-the-art tech company that has looked long and hard at the business we’re developing, one that is based solely on AM and FM radio, and come to the conclusion we’re a valuable asset that they want to have as part of their company.”



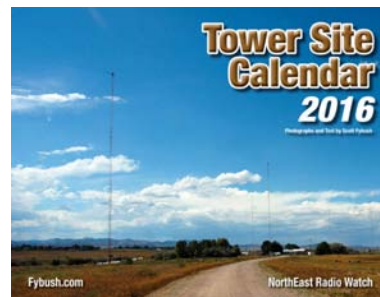
CALENDAR READY TO ADORN ENGINEERS' WALLS EVERYWHERE

Tower Site Calendar marks 16th year of publication

CONTACT: Lisa Fybush, 585-442-5411 (lisa@fybush.com or scott@fybush.com)

ROCHESTER, NY – It started as a lark in 2002. Scott Fybush, the publisher of NorthEast Radio Watch, had so many tower photos that he launched a new feature, “Tower Site of the Week.” Its readers suggested a calendar highlighting tower photos.

Sixteen editions later, Fybush’s annual *Tower Site Calendar* has become a must-have item for radio and TV lovers everywhere.



“Some people may think all radio towers look alike, but the *Tower Site Calendar* shows every year that that’s not the case,” says Fybush, who has worked in radio and television news for more than two decades. “Engineers are notoriously underappreciated for the hard work they do. The calendar is one way I can help show some recognition for their design and maintenance of the infrastructure that allows all of us to have easy access to radio, TV and cellphones.”

The 2016 edition, now shipping from the Fybush Media store (fybush.com/shop) features thematic page designs, durable coil binding and pictures taken from Fybush’s travels all over North America and beyond. Some of the highlights this year:

- **WWV and WWVB.** The National Bureau of Standards’ Fort Collins, Colorado site.
- **WIOD in Miami.** The “Wonderful Isle of Dreams” station signed on in 1926.
- **WBTA in Batavia, New York.** One of the last pre-World War II AM stations.
- **A tower farm in Grimsby, Ontario.** The site overlooks Lake Ontario and the Queen Elizabeth Way.
- **South Mountain, above downtown Phoenix.** Home of the city’s TV and most FM stations.
- **WAKR.** The voice of Akron, Ohio since 1940.
- **The former Blaw-Knox site of KWAC, Bakersfield, California.** The station turns 60 this year.
- **KSGF, Springfield, Missouri.** A former mobile AM station, settled here in the 1930s.
- **Atlantic City’s broadcast towers.** The site off US 30 includes WPG, named for the “World’s Play Ground.”
- **The former WBZA, Springfield, Massachusetts.** Demolished in 2011.
- **WABC in Lodi, New Jersey.** This tower overlooks the Satin Doll, used as the location for the “Bada Bing” in *The Sopranos*.
- **WYSB, Rutland, Vermont.** A fixture since the late 1950s.
- **The Empire State Building.** A broadcast facility since its construction and home to nearly all of New York City’s FM and TV signals.

In addition to the photos, the calendar’s monthly pages include significant dates in radio and television history, as well as civil and religious holidays.

The 2016 calendars cost \$19 each (\$20.55 including sales tax for New York State residents) plus \$3.50 shipping first class or \$6.50 Priority Mail, and can be purchased by check (payable to “Fybush Media”) or money order to 92 Bonnie Brae Avenue, Rochester NY 14618, or at www.fybush.com.

***EDITORS:** Scott has lots of high-resolution calendar images that he would be happy to share. He also loves to talk about radio and TV, so please call or email any time for an interview.*

South Dakota TV News from Northpine

Source: northpine.com [October 26, 2015]

NorthPine.com

TV viewers in Rapid City may not notice any change to their channel lineup when Gray TV divests a station in the market. Though it'll be "moving" the ABC affiliation to a different station from a regulatory perspective, viewers will still find ABC on the same virtual broadcast channel and with the same callsign, according to an [asset purchase agreement](#) recently filed with the FCC. Gray TV will retain the rights to the KOTA-TV callsign and virtual channel 3.1 as part of its sale of the current KOTA-TV license to Legacy Broadcasting. The divestiture is needed because FCC rules prohibit co-ownership of both KOTA-TV, which Gray is buying as part of its purchase of Schurz Communications, and existing Gray FOX affiliate KEVN/7. The new virtual channel 3.1 could originate from either the current KEVN or new low-power station KEVN-LD, one of which will presumably take the KOTA-TV callsign.

The filing also revealed that KOTA-TV satellite KHSD/11 (Lead) will be included in the sale to Legacy, which is a change from Gray's previous statement that it would retain KHSD. Besides the KOTA-TV and KHSD licenses, which will operate under new callsigns, Legacy's purchase also includes the current KOTA-TV and KHSD transmitter sites, KOTA-TV's translator on channel 18 in Rapid City, and the rights to the MeTV and ThisTV affiliations -- all for \$1.

Gray will retain current KOTA-TV satellites KSGW/12 (Sheridan, WY) and KDUH/4 (Scottsbluff, NE), but switch them to relay other Gray stations. KSGW will relay NBC affiliate KCWY/13 (Casper, WY), while KDUH will relay NBC affiliate KNOP/2 (North Platte, NE). In a [revision of its original September filing](#), Gray now says it will apply to change KDUH's community of license to Sidney, NE, legally removing it from the Cheyenne-Scottsbluff market, where Gray already owns KGWN/5 (Cheyenne, WY) and satellite KSTF/10 (Scottsbluff, NE). Sidney is in the Denver market. KDUH would not change its transmission facility as part of the community of license change.

LG 'Very Pleased' With Futurecast 3.0 Test

Written for TVNewsCheck by Harry A. Jessell [July 10, 2015]

Source: www.tvnewscheck.com/article/86802/lg-pleased-with-futurecast-30-test



LG tested three types of its next-gen signals in a mobile environment: Ultra HD, HD and SD, all simultaneously within one channel. The HD and SD signals performed about as well as the old ATSC DTV mobile standard, delivering "clean" signals in 80% and 90% of the locations, respectively. Ultra HD, which is not meant for mobile broadcasts, didn't work nearly as well. Yesterday it demoed the technology for more than 60 engineers in Cleveland, including reception on a bus.



"Excellent," said Wayne Luplow, VP of LG Electronics' Zenith R&D Labs, when asked to score the results of two months of mobile testing of LG's Futurecast next-generation broadcast system in Cleveland. "We are very pleased with the results."

So pleased, in fact, that LG invited some 60 broadcast engineers to Cleveland yesterday to share some of the results and demonstrate the system.

The Futurecast system is one of several vying to be part of the ATSC 3.0 standard now under development by the Advanced Television Systems Committee. Others include OneMedia, DVB, Technicolor, Sony, ETRI, Samsung, NHK and CRC.

Inclusion in the standard not only brings technical bragging rights, but a share of the royalties once the standard is incorporated in transmission gear and receivers.

Luplow said that he anticipates that Futurecast will, in the end, be a big part of the final standard — so big that the system demonstrated in Cleveland and the test results will be “quite comparable” to the final standard.

Proponents of ATSC 3.0 envision a standard that will give them the flexibility to broadcast Ultra HD (4K) programming to fixed receivers as well as HD and SD programming to mobile devices.

The basic tradeoff is between the robustness of the signal and resolution of the programming. The more data assigned to resolution, the fewer will be available to insure good reception.

For the testing, LG, with the aid of GatesAir, refurbished a three-tube IOT transmitter that Tribune’s WJW had last used in 2009 during the analog-to-digital transition. From a tower on a ridge 10 miles south of downtown Cleveland in Parma, Ohio, the transmitter operated on ch. 31 with 430 kw of effective radiated power.

LG tested three signals in mobile environments: 1) an Ultra HD signal at 15.7 mbps; 2) an HD signal at 1.25 mbps; and 3) an SD signal at .59 mbps. The signals ran simultaneously within the one broadcast channel.

The results were compiled from many receive locations, ranging from the city’s concrete canyons to rural areas 50 miles from the transmitter, Luplow said. And many of the locations were challenging, he said. “This is a hilly region — lots of valleys and stuff.”

The Ultra HD failed as expected (it is not meant for mobile broadcasts), yielding a “clean” signal on mobile receivers in only 20% of the locations. However, the HD and SD signals performed about as well as the old ATSC DTV mobile standard, delivering “clean” signals in 80% and 90% of the locations, respectively.

The broadcast engineers got a chance to see the HD signal in action. While riding through the streets of downtown Cleveland on a tour bus, LG displayed the HD signal on monitors within the bus. The signal was received through a 7-to-8-inch whip antenna attached by suction cup to the window and a prototype 19-inch 2U receiver tucked inside a luggage bin.

The signal held up even as the bus rolled down a highway at 50-60 miles per hour.

The engineers also got a look at the Advanced Warning and Response Network (AWARNS) in a demo at Raycom’s CBS affiliate, WOIO. The system, which is to be incorporated into the ATSC 3.0 standard, will allow viewers with a smart TV to click through on-screen alerts to get more information on emergency situations. That information can take the form of text, graphics, maps and video.

“With ATSC 3.0 and AWARNS, the public won’t be dependent on the Internet and local phone service,” said WOIO GM Dominic Mancuso, who hosted the demo.

Unfortunately for LG, a couple of the other demos did not go so well.

LG took the engineers into the basement of the Oswald Building at 1100 Superior Avenue with the intention of showing the “deep-indoor” reception capability of the SD signal using small, simple indoor antennas.

The SD pictures appeared for a minute or two, but then cut off. The Zenith officials speculated that the problem was overworked field programmable gate arrays that were being used as receiver chips.

“It just goes to show anything that can happen, will happen,” said Zenith’s Tim Laud.

Later, during a reception inside the Rock and Roll Hall of Fame, LG set up three receivers so that it could display all three signals side-by-side-by-side. With the aid of a fairly large antenna outside the reception room in the Hall of Fame’s glass enclosed atrium, the Ultra HD and SD signals lit up two of screens. But the third was dark. Once again, a receiver had failed.



SX-110
Receiver

The new ideas in communications are born at Hallicrafters

NEW: SX-110 Receiver. Advanced features and design make the SX-110 an exceptional value for the radio amateur and short wave enthusiast alike. Standard broadcast plus three short wave bands (540 kc-34 mc). Slide rule bandspread dial, calibrated for ham and citizens' bands; built-in "S" Meter, antenna trimmer, crystal filter. Seven tubes plus rectifier.

NEW: R-48 Speaker. (not shown) Perfect match for SX-110. Latest design; uses new $5\frac{1}{2}'' \times 7\frac{1}{2}''$ speaker. Exceptional damping qualities, distortion-free response. Switch for selection of voice or music response.

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S-108



S-38E



S-107

NEW: S-108 Receiver. Exceptional value and performance. Same as SX-110 in frequency coverages but without "S" Meter, antenna trimmer and crystal filter. Built-in speaker. Calibrated slide rule dial; temp. compensated oscillator. Seven tubes plus rectifier. Ideal general coverage receiver.

NEW: S-38E Receiver. Latest version of the world's most popular short wave receiver. Modern new styling, improved circuitry for utmost in performance and dependability. Standard broadcast plus three short wave bands (540 kc-32 mc). Electrical bandspread; slide-rule overseas dial; headset output; built-in speaker.

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