

## THE WORLDWIDE TV-FM DX ASSOCIATION

Serving the UHF-VHF Enthusiast

THE VHE 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, BRUCE HALL, DAVE JANOWIAK AND MIKE BUGAJ.

> Editor and publisher: Mike Bugaj Treasurer: Dave Janowiak Webmaster: Tim McVey Editorial Staff:, Victor Frank, George W. Jensen, Jeff Kruszka Keith McGinnis, Fred Nordquist, Matt Sittel, Doug Smith, Adam Rivers, Jason Koralja and John Zondlo, Our website: www.anarc.org/wtfda ANARC Rep: Jim Thomas, Back Issues: Dave Nieman, APRIL 2004



Finally! For those of you online with an email address, we now offer a quick, convenient and secure way to join or renew your membership in the WTFDA from our page at: <u>http://fmdx.usclargo.com/join.html</u>

Dues are \$25 if paid to our Paypal account. But of course you can always renew by check or money order for the usual price of just \$24. Either way, it's still a bargain!

## VUDS ON A CD!

Every VUD from Jan 1980 to December 1989 is on this disk. You'll need Adobe Reader to read them. Why have a

box of old VUDs taking up space when you can have this. **It's yours for just \$8.00 per disk.** Send your check or money order for \$8.00 to WTFDA, P.O. 501, Somersville, CT 06072. Make it payable to Dave Janowiak.

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Ah YES! April! And if you look closely you'll find that FM News is back, this time edited by Adam Rivers, and it looks great!

Keith McGinnis is in the middle of a move, so FM North will return next month.

We have a recent membership list this month, so check it out for members near you.

And...the financial report. We're not doing badly at all. Good news. Enjoy this issue!

# OMAHA 2004

THE 80S ON CD

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Mike Hawk and Matt Sittel welcome you to Omaha for the 2004 WTFDA Convention. You'll be staying at the **Park Plaza Regency Lodge** with a central Omaha location near 108th and Pacific just off of I-680. Additionally, they have promised that we can assemble antennas on-site during the convention. You can reach the hotel at (402)397-8000. Please call the hotel for rates and tell them you're with the WTFDA. Be there!





P.O. Box 501, Somersville, CT USA 06072 MIKE BUGAJ MBUGAJ@SNET.NET

#### APRIL 2004

"I am the eye in the sky, looking at you. I can read your minds." Famous words from a song a few years back, the title of which escapes me right now but nevertheless, I know what many of you are thinking. **YOU WANT SKIP**! Well, so do I. We've had a long dry spell over the winter and right now many of us are ready to throw a brick through the nearest CRT. Well, put that brick down! The worst is over. In just a few weeks we'll be seeing reports of E skip and possibly some tropo as we shake ourselves free of winter and spring weather patterns take over. Keep watching the weather maps and check out Bill's Hepburn's internet tropo maps daily.

#### MEMBERS AND MORE

Paypal yielded some surprises this month. We found a new membership from **Juan Gualda** who lives in Ft. Pierce, FL and a rejoin from fellow CT resident **John Kosinski** of Stamford. Welcome in Juan and welcome back John! Thanks for using Paypal!

We've got plenty of renewals this month. Now to take a deep breath and try to say all these names before I turn blue: Gerard Hart (NY), Ryan Grabow (NY), Robert Fischer (AK), Harry Hayes (PA), John Broomall (GA), Nathaniel Ely (WI), David Cox (AL), Dave Nieman (NY), Barry Shinall (IA), Bill Draeb (WI), Dan Oetting (DE), Paul Crego (NY), David Legler (MN), Mike Reid (ON), Aaron Mitterling (IN), Joe Perge (OH), Andrew Mackenzie (NY), Gary Hickerson (OK), Allan Dunn (MA) and Glen Hale (KY). Thank you everyone for hanging around and for your vote of confidence in the WTFDA.

#### VUDS OF THE 1980S ON CD

We have had enough CD orders at this time to reach the "break-even" point, which means that we have our expenses covered and any monies we receive after 3/14 will go into the club treasury.

If you have been in the WTFDA a short time and never got to see what the VUDs were like in past years, this is your chance. The 1980s contained some great technical articles, some great DX and some neat construction projects. See elsewhere in this VUD for pricing and ordering information.

## AND EVEN MORE PERKS!

Yes I know it's even harder to believe but look what we have for you! Thanks to **Jim Thomas** we are able to offer you official WTFDA window clings! Clings are the things your favorite Crazy Lube oil change place puts on the inside of your car windshield with the date of your next oil change. Stick it on and it sticks; peel it off and it's off.

The official WTFDA window cling consists of the WTFDA logo plus our website URL. It comes in red and yellow. Take one of these clings, peel off the backing and stick it on the inside of your car's rear window. Rub the air bubbles out and presto! The cling is on to stay and everyone who looks at it will know your car belongs to a WTFDA member. It also helps you find your car in a crowded parking lot if you are like me and forget where you put it.

We are offering these clings for the ridiculous low price of just **\$2.00** *each*.

Stick one of these on your car and let everyone know you're a proud WTFDA member!

As usual, make your check or money order out to Dave Janowiak and send it to WTFDA, P.O. Box 501, Somersville, CT 06072.

Have more than one car? Buy one for each! Put one on the kitchen door! Stick one on your dog!

Want permanent decals instead? Permanent white decals are also available. You get two of these for \$2.00. These decals may take longer for you to receive as they will be made *as ordered*. Just remember, if you need to remove these permanent decals you'll need a putty knife and elbow grease.

If you order, please specify either removable clings or permanent decals. Don't make us guess!

#### AN INTERESTING LETTER

Here's a very recent letter received from veteran DXer **Bill Draeb**(WI) to prove that this isn't called the Mailbox for nothing. Bill writes, "I just renewed for another year. I've been a member since 1/68 (Jan 1968, the 2<sup>nd</sup> issue). I dragged my feet in joining and missed the

first issue but got one later on. I still have all of them.

Looking at past issues I would like to see something different on the covers besides coverage maps. Enclosed are copies of some of the covers drawn by Harry Hayes and Wanda Prus. They were always interesting to look at and get a charge out of. Perhaps someone could do some more of those if they are artistically inclined (Bill included some samples).

The new "WX-DX" column sounds promising. What I would like to see included, though, is an address for DXers to send their reports to other than an internet website or in addition to it. Right now I don't have a computer or the internet so reporting is made more difficult if I had something to report.

I haven't sent in any reports in a while, perhaps this year.

P.S. Does the WTFDA still have boxers for sale? I could use some to store my VUDs."

Wow. I have plenty to comment on here. Let's start with coverage maps.

Bill's question about CMs made me go back and check every VUD issue I've published. As of the April 2004 VUD, I've published 32 issues. And of those 32 issues, four of them had coverage maps on the cover and one of those was a NOAA map. That's 12% of them if my math is right. So, you folks have not been looking at a huge amount of CMs on the VUD covers.

My personal preference is to see photos on VUD covers, especially now that we have the ability to do them and have them look decent for a change. I thought Jeff Lehman's antenna photo a couple of issues back was fantastic! This month's cover is almost too cool for words.

Times are changing. Kodak is leaving the 35mm market. Many of us poor folk can afford digital cameras now. Take advantage of that! Keep a camera in your car and when you're out driving and see something interesting TAKE A PHOTO of it and either mail it or email it to me. Suggestions: a tower, a building, a station's news vehicle, an FM station's van. You name it. Your only limitation is your imagination! You can do what Jeff or Paul did, helping the club and becoming famous at the same time.

I do have other coverage maps to use but I'd rather put them inside the VUD somewhere unless they are really exceptional like the WBYO CM from last month.

As far as cartoons on the front cover, well I'd rather not go there. They served their purpose back in the 70s and 80s, but with the technology now available to us I think we can do better and present a more professional product. However, if there is anyone out there who's a decent cartoonist and wants to submit something to me, go right ahead. I'd like to see it. Regarding WX-DX, I've emailed the column's editor about your request. We will see what we will see.

As far as VUD boxers, no we don't have them. I suppose if there were some demand for it the BoD could consider it. At the moment I don't see a demand. I use cardboard boxes myself. Crude, but they work.

So much is written about the internet and email and websites that some of you folks who aren't online might feel left out. Our goal here is to make sure that you off-liners are as informed as the on-liners. You folk are just as important to us as anyone else and will always be. Don't forget that.

Thanks for taking the time to write, Bill.

#### THE MAN FROM FT. PIERCE

Here's a note from our newest member, Juan Gualda. Juan writes: " A little about myself..married, no kids. I reside in Ft. Pierce, FL. I am the PD of WGNX-FM and WTTB-AM in Vero Beach, FL. I have DXed since I was about 10 years old. I joined the NRC when I was 12 years old and have been a member on and off since. I *really* have gotten into TV-FM DX in the past 15 or 20 years so I figured it made sense to join the WTFDA.

Besides DXing, my other hobbies are internet radio, watching Miami Hurricanes Sports and listening to Frank Sinatra. Oh, and I like to make beer (What a coincidence! I like to listen to Frank (Zappa) and I like to *drink* beer! Amazing! –mike)

My receiver is a Carver TX-11A for FM (not modified, but someday) and Win TV-D computer card and a GE TV for TV DX.

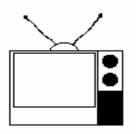
I am waiting for help putting my antenna up so I can TV DX again. By the way, thanks for the advice on the Win TV-D. I bought it new in the box for \$88 on eBay (good deal – mike). It works great except I am only using an indoor bowtie antenna now until I get my antenna on the roof replaced. I am very impressed with the Win TV-D. Thanks for the heads up." (You're welcome. Glad to help –m)

#### MORE IBOC IN BOSTON

**Jeff Lehmann** reports on 3/1 "More bad news from here in the Boston area. Within the past couple days 91.9 WUMB, 92.9 WBOS, and 96.9 have turned on the IBOC. These are in addition to 93.7 WQSX and 105.7 WROR that were already running it. Keith and I are getting ready to kiss FM DXing goodbye if this continues. It was nice while it lasted. (it should be an interesting summer –mike)

#### LAST BUT NOT LEASED

That just about does it for this month. Take care and see you all next month. -Mike



TV News

Douglas E. Smith 1385 Old Clarksville Pike Pleasant View, TN 37146-8098 w9wi@w9wi.com http://www.w9wi.com

## April 2004

Abbreviations								
AF		Applied For (a	a new station)	PG	Power cha	inge	granted	
Aux			kup) transmitter	PR			requested	
cc		Callsign char		QC			uency??) ch	ange on the
		3	5	× -	air			5
CL	(	City-of-licens	e change	QG	Channel c	han	ge granted	
DE		License/perm		QR			ge requested	
FC			(?format??) change	RE			eviously-disn	
FTP		Failure to Pro	· · · · ·	ROA	Request o			,
GA			ndment (to table of channel		Off the air			
-		allotments)		-		<b>、</b> -	- /	
LC		License to Co	over	STA	Special Te	empo	orary Authorit	V
NS	I	Permit grante	ed for new station	XC			e changed	,
NW		New station of		XG			e change gra	inted
PA	I	Proposed Arr	nendment	XR			e change rec	
PC			r tower height) change on				Ũ	
		the air						
News:								19kw/501m
(full-power and	aloc	stations in I	bold face; LPTV and	Fa	yetteville	36	KFFS-CA	PR>150kw; PG
			-power digital stations		yetteville		KEGW-LP	QR from ch. 64
in <i>bold italics</i>	0	alar type, run			, <b>.</b>			150kw; CC
Alabama:	•)							from K64FO
Birmingham	27	WBUN-CA	CC fm W27CM	Hir	ndsville	40	K59ES	QR from ch. 59
Hamilton		W46DF	PC<10.2kw					142kw
Louisville	-	WGIQ	PR<4180kw/	Но	t Springs	23	K23GT	QG fm K44EV
	-0		262m	-	1 0-			34.9k <b>w</b>
Scottsboro	27	W27CV	QG fm W64BJ,	Lit	tle Rock	11	KTHV	drops DA
0001100010			11.1kw	Lit	tle Rock	44	KWBF-DT	NS 1000kw/
Alaska:								485m,
Anchorage	6	KYES-DT	PR<277m,					34-47-45/
,	•		61-20-11/					92-29-44
			149-30-47	Sp	ringdale	4	KJBW-CA	CC fm K15DR;
Anchorage	8	K08NS	AF dismissed		-			PR<2.1kw
Anchorage		NEW-LP	AF dismissed	<u>Ca</u>	<u>lifornia:</u>			
	40,			Ba	kersfield	36	KBFK-LP	PC>150kw
	42,			Ba	kersfield	41	NEW-LP	AF dismissed
	49,			Ba	nning	67	K33HU	QR from ch. 33
	69							9.97kw
Homer	4	K04JH	PR>3kw	Ca	liente	43	NEW-LP	AF dismissed
			dismissed	Ch	ico	28	KKPM-CA	PR<129kw
Hope	9	NEW-LP	AF dismissed	Clo	overdale	17	NEW-LP	AF dismissed
Ketchikan		K17GX	NS 6.9kw					(3Abn)
Seward		K40HQ	NS 150kw		reka		NEW-LP	AF dismissed
Arizona:					en Arbor		K21HA	AF dismissed
Casas Adobes	20	K64BV	QR from ch. 64,	Ind			K06MB	PR>3kw
			10kw		and Empire		KHTV-LP	QC from ch. 48
Concho	12	KWSJ-LP	CC from	Los	s Angeles	63	KADY-1	NS 87kw;
			K12PR					PR<50kw
Holbrook	38	K38IK	NS 5kw		s Angeles		KNLA-LP	QC from ch. 68
Kingman		K16GB	NS 100w	Ma	ricopa	38	KNXT-LP	QR from ch. 57
Phoenix	44	KPHE-LP	QG from ch. 19					150kw
Pinta		NEW-LP	AF dismissed		rtinez		K49HV	NS 5kw
Prescott		K20IA	AF dismissed		tional City		K61GH	PR<70w
St. Johns		NEW-LP	AF dismissed	Pa	lermo	4	K51BP	QR from ch. 51
Tacna		NEW-LP	AF dismissed					3kw
Arkansas:				Pa	Im Desert	9	K55FI	QR from ch. 55
Bentonville	26	K14IT	QR from ch. 14,					1.5kw
-	-		150kw		Im Springs		K20HZ	NS 1.46kw
El Dorado	43	KEJB	NW 5000kw/		rterville		KVVG-LP	PR<14kw; PG
			530m,	Ric	lgecrest	41	K41GO	QC fm K63AH
			33-04-41/					2.38kw
			92-13-41; UPN	Sa	cramento	21	KMAX-DT	PR>850kw/
Fayetteville	9	KAFT-DT	QG fm ch. 45,					581m
-	-		<i>,</i>					

Salinas3 KMMD-CAPG<90w; PC	
5	1000kw/263
San Francisco 40 K40HO QG from Islamorada 48 W48DE	PG<15kw NS 20kw
K52IQ, 35kw	(WEYS-22)
Temecula 12 K12PO QC from Key West 18 W18DE	AF dismissed
K47FL, 1kw Key West 19 W19CV	NS 2kw
Colorado: Key West 44 W44AC	PC>3.9kw
Basalt 33 K33HY NS 2.1kw Lake City 15 WJXE-LP	
Breckenrdge 26 K26GY PC>360w	66, 150kw
Breckenrdge 8, NEW-LP AF dismissed Lake City 33 W33CI	QG x W39BZ, 150kw
Buena Vista 9 K09XS NW 20w Miami 25 WIMP-CA	
Denver 41 KRMT PR>2223kw Miami 49 W54BB	QR from ch. 50,
Denver 45 KHDT-LP CC fm K45HH	75kw
Denver 51 KCEC-DT NS 900kw/233, New Port 48 WZRA-C/	,
<b>39-43-58</b> / Richey	from Oldsmar;
105-14-08 Durango 20 KRMU-DT PG>46kw/130 Orange Lake 8 W08DT	PG PG>3kw
<i>m</i> , Orient City 15 W15CL	QC from
37-15-46/	W59AJ, 49kw;
107-53-58	CL from
Durango 47 K47IT NS 6kw (TBN)	Matecumbe
Grand 17 KRMJ-DT PR<65kw/409 Orlando 4 WFOL-LF	,
Junction m, Orlando 14 WRDQ-D	
<b>39-03-58/</b> <b>108-44-43</b> Panama City 8 W08DX	<i>, drop DA</i> AF dismissed
Grand 18 KRMJ PR<105kw/409 Panama City 14 WDWY-L	
Junction 39-03-58/ Panama City 15 W15CK	NS 40kw
<b>108-44-43</b> Panama City 48 W48DG	NS 5kw
Grand 51 NEW-LP AF dismissed Sebring 5 WOCX-C	
Junction Tallahassee 24 WTLF-D	
Holyoke 29 NEW-LP AF dismissed Pagosa 43 K43GT QC from	30-29-40/ 84-25-03
Pagosa 43 K43GT QC from Springs K56DO, 440w Tampa 18 WSVT-LF	
Powderhorn 4 K04PW NS 18w	from
Red Cliff 28 K28HI NW 20w; CL	Bradenton; PC
from Tampa 46 WVEA-LF	P QC from ch. 61,
Breckenridge &	75kw
Dillon Williston 56 NEW-LP	AF dismissed
Steamboat42 K42GMAF dismissedGeorgia: Albany41 W41CT	AF dismissed
SpringsAlbany41 W41CTConnecticut:Atlanta10 WXIA-DT	
Bridgeport 42 WSAH-DT NS 1000kw/ Atlanta 19 WGCL-D	
164, Atlanta 20 WTBS-D	
41-16-44/ Atlanta 39 WSB-DT	PR>1000kw/
73-11-08	301m, DA
rescindedBlairsville28 WDWW-LHartford6 WRNT-LPCC xWMLD-LPColumbus19 NEW-LP	.P CC x W28CV AF dismissed
Hartford 38 WHCT-LP PG>150kw Cumming 28 W28CV	CL from
Hartford 45 WEDH-DT PR>465kw/505	Blairsville
	QG x W52CL
<b>41-42-13</b> / Macon 50 W50DA	P FC; sold to
72-49-57 Savannah 32 WHDS-LF	
72-49-57Savannah32 WHDS-LFHartford50 WRDM-LPQG from ch.	WGGS-16
Hartford50 WRDM-LP72-49-57Savannah32 WHDS-LFQG from ch.QG from ch.44, 50kwWillacoochee41 WWPD-L	WGGS-16
72-49-57         Savannah         32 WHDS-LF           Hartford         50 WRDM-LP         QG from ch. 44, 50kw         Willacoochee         41 WWPD-L           New Britain         35 WVIT-DT         PR 250kw/434         Hawaii:         Hawaii:	WGGS-16 P CC x W41CQ
T2-49-57Savannah32 WHDS-LFHartford50 WRDM-LPQG from ch. 44, 50kwWillacoochee41 WWPD-LNew Britain New Haven35 WVIT-DT 10 WTNH-DTPR 250kw/ 434 Granted DAHawaii: Hilo34 K34HC	WGGS-16
72-49-57         Savannah         32 WHDS-LF           Hartford         50 WRDM-LP         QG from ch. 44, 50kw         Willacoochee         41 WWPD-L           New Britain         35 WVIT-DT         PR 250kw/434         Hawaii:         Hawaii:	WGGS-16 P CC x W41CQ PR<11.2kw;
Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LF QG from ch. 44, 50kwNew Britain New Haven35 WVIT-DT 10 WTNH-DTPR 250kw/ 434 Granted DAHawaii: Hilo41 WWPD-L 44 K34HCDelaware: Georgetown11 W11CY 51 W51DQAF dismissed NS 1kwHilo47 NEW-LP Honolulu	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>T NS 1000kw</b> /
Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LF MillacoocheeNew Britain New Haven35 WVIT-DT 10 WTNH-DTPR 250kw/434 Granted DAHawaii: HiloHawaii: AK 34HCDelaware: Georgetown11 W11CY 51 W51DQAF dismissedHilo47 NEW-LP AF dismissedMillsboro7 W07DKAF dismissedHilo43 KWBN-D	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>T NS 1000kw</b> / <b>577,</b>
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Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LF WillacoocheeNew Britain New Haven35 WVIT-DT 10 WTNH-DTPR 250kw/ 434 Granted DAWillacoochee41 WWPD-L Hawaii: HiloDelaware: Georgetown11 W11CY St W51DQAF dismissed NS 1kwHilo47 NEW-LP HonoluluMillsboro Talleyville7 W07DK S3 W53CPAF dismissed QG fm W55BT, 18.1kwHilo48 K48IY Idaho: BoiseDistrict of Columbia: Washington49 W49CKQG fm W63BP, S9.2kw; CL fm Annapolis,MDWailuku Idaho Falls48 K48IY Idaho FallsFlorida:UUUUUUFlorida:UUUUU	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>7 NS 1000kw/</b> <b>577,</b> <b>21-23-45/</b> <b>158-05-58</b> NS 5kw CC x K35GE AF dismissed NS 5kw
Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LFNew Britain New Haven35 WVIT-DT 10 WTNH-DTPR 250kw/ 434 Granted DAWillacoochee Hawaii: Hilo41 WWPD-L Hawaii: Hilo44 K34HCDelaware: Georgetown11 W11CY S1 W51DQAF dismissed NS 1kwHilo47 NEW-LP Honolulu43 KWBN-DMillsboro Talleyville7 W07DK S3 W53CPAF dismissed QG fm W55BT, 18.1kwHilo48 K48IY HonoluluDistrict of Columbia: Washington49 W49CK S9.2kw; CL fm Annapolis,MDWailuku Boise48 K48IY Boise48 K48IY BoiseFlorida: Bradenton18 WSVT-LPPC>150kwMackay15 K15GL	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>7</b> NS 1000kw/ 577, 21-23-45/ 158-05-58 NS 5kw CC x K35GE AF dismissed NS 5kw QG from
Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LF WillacoocheeNew Britain New Haven35 WVIT-DT 10 WTNH-DTQG from ch. 44, 50kwWillacoochee41 WWPD-L Hawaii: Hilo34 K34HCDelaware: Georgetown11 W11CY 51 W51DQAF dismissed NS 1kwHilo47 NEW-LP Honolulu43 KWBN-DMillsboro Talleyville7 W07DK 53 W53CPAF dismissed QG fm W55BT, 18.1kwHilo47 NEW-LP Honolulu48 K48IYDistrict of Columbia: Washington49 W49CKQG fm W63BP, 59.2kw; CL fm Annapolis,MDWailuku Haho Falls28 K28II Idaho Falls59 K0NS-LP Fort MyersFlorida: Fort Myers18 WSVT-LP 6 WLZE-LPPC>150kw QG from ch.Mackay15 K15GL	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>7</b> NS 1000kw/ 577, 21-23-45/ 158-05-58 NS 5kw CC x K35GE AF dismissed NS 5kw QG from K17CY
Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LFNew Britain New Haven35 WVIT-DT 10 WTNH-DTPR 250kw/ 434 Granted DAWillacoochee Hawaii: Hilo41 WWPD-L Hawaii: HiloDelaware: Georgetown11 W11CY S1 W51DQAF dismissed NS 1kwHilo47 NEW-LP HonoluluGeorgetown51 W51DQ S3 W53CPAF dismissed QG fm W55BT, 18.1kwHilo47 NEW-LP HonoluluDistrict of Columbia: Washington49 W49CKQG fm W63BP, S9.2kw; CL fm Annapolis,MDWailuku48 K48IY Idaho: BoiseFlorida: Bradenton18 WSVT-LP 6 WLZE-LPPC>150kw QG from ch. 65, 3kwPocatello15 KPIF	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>7</b> NS 1000kw/ 577, 21-23-45/ 158-05-58 NS 5kw CC x K35GE AF dismissed NS 5kw QG from K17CY NW
Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LF WillacoocheeNew Britain New Haven35 WVIT-DT 10 WTNH-DTQG from ch. 44, 50kwWillacoochee41 WWPD-L Hawaii: Hilo34 K34HCDelaware: Georgetown11 W11CY 51 W51DQAF dismissed NS 1kwHilo47 NEW-LP Honolulu43 KWBN-DMillsboro Talleyville7 W07DK 53 W53CPAF dismissed QG fm W55BT, 18.1kwHilo47 NEW-LP Honolulu48 K48IYDistrict of Columbia: Washington49 W49CKQG fm W63BP, 59.2kw; CL fm Annapolis,MDWailuku Haho Falls28 K28II Idaho Falls59 K0NS-LP Fort MyersFlorida: Fort Myers18 WSVT-LP 6 WLZE-LPPC>150kw QG from ch.Mackay15 K15GL	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>7</b> NS 1000kw/ 577, 21-23-45/ 158-05-58 NS 5kw CC x K35GE AF dismissed NS 5kw QG from K17CY
Hartford50 WRDM-LP72-49-57Savannah32 WHDS-LFNew Britain New Haven35 WVIT-DT 10 WTNH-DTQG from ch. 44, 50kwWillacoochee41 WWPD-L Hawaii: Hilo44 K34HCDelaware: Georgetown11 W11CY 51 W51DQAF dismissed MillsboroHilo47 NEW-LP Honolulu43 KWBN-DMillsboro Talleyville7 W07DK 53 W53CPAF dismissed QG fm W55BT, 18.1kwHilo47 NEW-LP Honolulu48 K48IYDistrict of Columbia: WashingtonWa9 W49CKQG fm W63BP, 59.2kw; CL fm Annapolis,MDWailuku48 K48IY Idaho Falls869ISFlorida: Bradenton18 WSVT-LP 6 WLZE-LPPC>150kw QG from ch. 65, 3kwPocatello15 KPIFFort Walton Beach50 WFGX-DT VFGX-DT QR fm ch. 25, 1000kw/221m, 30-23-46/QR fm ch. 25, 1000kw/221m, 30-23-46/Pocatello15 KPIF	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>7</b> NS 1000kw/ 577, 21-23-45/ 158-05-58 NS 5kw CC x K35GE AF dismissed NS 5kw QG from K17CY NW 5000kw/327 42-51-50/ 112-31-10
Hartford50 WRDM-LP72-49-57 QG from ch. 44, 50kwSavannah32 WHDS-LF WillacoocheeNew Britain New Haven35 WVIT-DT 10 WTNH-DTPR 250kw/ 434 Granted DAWillacoochee41 WWPD-L Hawaii: Hilo44 K34HCDelaware: Georgetown11 W11CY S1 W51DQAF dismissed NS 1kwHilo47 NEW-LP Honolulu43 KWBN-DMillsboro T alleyville7 W07DK S3 W53CPAF dismissed QG fm W55BT, 18.1kwHilo47 NEW-LP Honolulu48 K48IYDistrict of Columbia: Washington49 W49CK A 9 W49CKQG fm W63BP, S9.2kw; CL fm Annapolis,MDWailuku Haho: Boise48 K48IY AS KUNS-LP BoiseFlorida: Bradenton18 WSVT-LP AN WzEL-LPPC>150kw QG from ch. 65, 3kwMackay15 K15GLFort Walton Beach50 WFGX-DT QR fm ch. 25, 1000kw/221m,QR fm ch. 25, 1000kw/221m,Pocatello15 KPIF	WGGS-16 P CC x W41CQ PR<11.2kw; PG AF dismissed <b>7</b> NS 1000kw/ 577, 21-23-45/ 158-05-58 NS 5kw CC x K35GE AF dismissed NS 5kw QG from K17CY NW 5000kw/327 42-51-50/ 112-31-10

Preston	42	K42GN	NS 1.8kw	Alexandria	26	KLPA-DT	NW 76kw/413m
Soda Springs	30	NEW-LP	AF dismissed	Baton Rouge	48	K48IT	QG x K58GB,
Soda Springs	35	K35HD	NS 1.135kw				12.9kw
Swan Valley	40	K40HN	NS 49kw	De Ridder	39	NEW-LP	AF dismissed
Twin Falls	53	K53IL	AF dismissed	Hammond	42	NEW-DT	NS 1000kw,
Illinois:							29-58-41/
Champaign	15	WICD	FC to ABC				89-56-26
Chana	46	WBKM-LP	CC x W46DN	Haynesville	69	K69HO	CL from El
Chicago	31	WFLD-DT	PR>690kw,				Dorado, AR
			drop DA; PG	Lake Charles	7	KPLC	XC 30-23-46/
Chicago	47	WTTW-DT	NW 150kw/				93-00-03
			474m (aux)	Lake Charles	-	K45HY	NS 4kw
Decatur		WAND	FC to NBC	Lake Charles		K69IX	NS 50.61kw
Freeport		WIFR-DT	PR>100kw/176	Monroe		KNOE-DT	NW 1kw/518m
Mt Vernon		WPXS	FC: Daystar	Monroe		KMNO-LP	PC>18.2kw
Quincy		W26DA	NS 2kw	New Iberia	19	K19FR	QG x K49DE,
Rochelle		NEW-LP	AF dismissed		-		40.6kw
Rochelle		WMKB-LP	CC x WGNW	New Iberia	8	W08DT	PR>3kw; CL
Rochelle	40	W40BW	NS 300w;				from Orange
			PR>150kw;		~ .		Lake, FL
			PG; PR<25kw	New Orleans		WHNO-DT	NW 17kw/254m
Rochelle	55	W55DF	PR<80kw;PG;	New Orleans	28	K28IL	QG x K59DG,
			then PG<50kw				150kw
Rochelle	• •	W61DT	PR>150kw	New Orleans	49	WPXL	PG>5000kw/28
Rockford	16	WTVO-DT	NW 196kw/	<b>.</b>	~ 4		8
			201	Shreveport	31	K31HO	QG x K59GO,
Springfield		WICS	FC to ABC	<b>-</b>			50kw
Springfield	55	WRSP-TV	drops DA	Tullos	44	K44HN	NS 1kw
Indiana:							(KEJB-43)
Columbia		W27CT	PR>148kw	Maryland:	40		
Evansville	36	W36DF	QG fm W56DN,	Hagerstown	16	WJAL-DT	PA to Silver
E	44		13.5kw	Caliahum	<u></u>		Spring <u>denied</u>
Evansville	41	WTSN-LP	QG from ch.	Salisbury		NEW-LP	AF dismissed
E a lub a valua	~~		63, 13.2kw	Massachusett		WBPX-DT	NC 200km/
Fairbanks		WKMF-LP	CC x W32CW	Boston	32	WDFX-DI	NS 300kw/
Fort Wayne	43	W43CF	QC from ch. 66,				292,
			4.4kw				42-18-27/
Com	EC		DD. E000law/AC				71 10 07
Gary	56	WYIN	PR>5000kw/46	Dittofiald	1		71-13-27
Gary	56	WYIN	8	Pittsfield	4	WNYA-DT	AF 4.15kw/
Gary	56	WYIN	8 41-52-44/	Pittsfield	4	WNYA-DT	AF 4.15kw/ 397,
Gary	56	WYIN	8 41-52-44/ 87-38-08	Pittsfield	4	WNYA-DT	AF 4.15kw/ 397, 42-37-31/
-			8 41-52-44/ 87-38-08 dismissed				AF 4.15kw/ 397, 42-37-31/ 74-00-38
Indianapolis	46	WTHR-DT	8 41-52-44/ 87-38-08 dismissed <i>PG</i> <265 <i>m</i>	Springfield	11	WWLP-DT	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw
<i>Indianapolis</i> Terre Haute	46		8 41-52-44/ 87-38-08 dismissed		11		AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL,
<i>Indianapolis</i> Terre Haute <u>Iowa:</u>	<b>46</b> 34	<b>WTHR-DT</b> W34DD	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG	Springfield	11	WWLP-DT	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from
<i>Indianapolis</i> Terre Haute <u>Iowa:</u> Cedar Rapids	<b>46</b> 34 <b>52</b>	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b>	8 41-52-44/ 87-38-08 dismissed <i>PG</i> <265 <i>m</i> PR>100kw; PG <i>PG</i> <350kw	Springfield	11	WWLP-DT	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT,
<i>Indianapolis</i> Terre Haute <u>Iowa:</u>	<b>46</b> 34 <b>52</b>	<b>WTHR-DT</b> W34DD	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw	<b>Springfield</b> Springfield	11	WWLP-DT	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from
<i>Indianapolis</i> Terre Haute <u>Iowa:</u> <i>Cedar Rapids</i> Spencer	<b>46</b> 34 <b>52</b> 52	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44)	<b>Springfield</b> Springfield <u>Michigan:</u>	<b>11</b> 34	<b>WWLP-DT</b> WESA-LP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake	<b>46</b> 34 <b>52</b> 52 40	WTHR-DT W34DD KCRG-DT K52IZ K40CO	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ	<b>Springfield</b> Springfield	<b>11</b> 34	WWLP-DT	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30
<i>Indianapolis</i> Terre Haute <u>Iowa:</u> <i>Cedar Rapids</i> Spencer	<b>46</b> 34 <b>52</b> 52 40	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ	8 41-52-44/ 87-38-08 dismissed <i>PG</i> <265 <i>m</i> PR>100kw; PG <i>PG</i> <350 <i>kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw	<b>Springfield</b> Springfield <u>Michigan:</u>	<b>11</b> 34	<b>WWLP-DT</b> WESA-LP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake	<b>46</b> 34 <b>52</b> 52 40	WTHR-DT W34DD KCRG-DT K52IZ K40CO	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ	<b>Springfield</b> Springfield <u>Michigan:</u>	<b>11</b> 34	<b>WWLP-DT</b> WESA-LP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake	<b>46</b> 34 <b>52</b> 52 40 57	WTHR-DT W34DD KCRG-DT K52IZ K40CO	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44)	<b>Springfield</b> Springfield <u>Michigan:</u>	<b>11</b> 34 <b>46</b>	<b>WWLP-DT</b> WESA-LP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute	<b>46</b> 34 <b>52</b> 40 57 40	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR	8 41-52-44/ 87-38-08 dismissed <i>PG</i> <265 <i>m</i> PR>100kw; PG <i>PG</i> <350 <i>kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw	<i>Springfield</i> Springfield <u>Michigan:</u> Bay City	<b>11</b> 34 <b>46</b>	<i>WWLP-DT</i> WESA-LP 960710KZ	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake	<b>46</b> 34 <b>52</b> 40 57 40	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN)	<i>Springfield</i> Springfield <u>Michigan:</u> Bay City	<b>11</b> 34 <b>46</b> 51	<i>WWLP-DT</i> WESA-LP 960710KZ	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute	<b>46</b> 34 <b>52</b> 52 40 57 40 41	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed	<b>Springfield</b> Springfield <u>Michigan:</u> Bay City Gladstone	<b>11</b> 34 <b>46</b> 51	<b>WWLP-DT</b> WESA-LP <b>960710KZ</b> W51DP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake <u>Kansas:</u> Chanute Dodge City	<b>46</b> 34 <b>52</b> 52 40 57 40 41 54	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ K40CO K57JL K40HR K40HR K41II	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated	<b>Springfield</b> Springfield <u>Michigan:</u> Bay City Gladstone	<b>11</b> 34 <b>46</b> 51 32	<b>WWLP-DT</b> WESA-LP <b>960710KZ</b> W51DP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia	<b>46</b> 34 52 52 40 57 40 41 54 43	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ K40CO K57JL K40HR K40HR K41II K54JC	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed	Springfield Springfield Michigan: Bay City Gladstone Ironwood	<b>11</b> 34 <b>46</b> 51 32 17	<b>WWLP-DT</b> WESA-LP <b>960710KZ</b> W51DP W32CV	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21)
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City	<b>46</b> 34 <b>52</b> 52 40 57 40 41 54 43 27	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K40HR K41II K54JC NEW-LP	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette	<b>11</b> 34 <b>46</b> 51 32 17	<b>WWLP-DT</b> WESA-LP <b>960710KZ</b> W51DP W32CV W17CS	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Chanute Dodge City Emporia Garden City Great Bend	<b>46</b> 34 <b>52</b> 52 40 57 40 41 54 43 27	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K40HR K41II K54JC NEW-LP K27HW	8 41-52-44/ 87-38-08 dismissed <i>PG</i> <265 <i>m</i> PR>100kw; PG <i>PG</i> <350 <i>kw</i> NS 2.8 <i>kw</i> (KPTH-44) QC x K47FZ NS 20 <i>kw</i> (KPTH-44) NS 8 <i>kw</i> (TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed <b>PC</b> <326 <i>m</i> , 38-58-42/	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon	<b>11</b> 34 <b>46</b> 51 32 17 52	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Chanute Dodge City Emporia Garden City Great Bend	<b>46</b> 34 <b>52</b> 52 40 57 40 41 54 43 27	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K40HR K41II K54JC NEW-LP K27HW	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed <b>PC&lt;326m</b> ,	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste.	<b>11</b> 34 <b>46</b> 51 32 17 52	<b>WWLP-DT</b> WESA-LP <b>960710KZ</b> W51DP W32CV W17CS	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Chanute Dodge City Emporia Garden City Great Bend	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b>	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K40HR K41II K54JC NEW-LP K27HW	8 41-52-44/ 87-38-08 dismissed <i>PG</i> <265 <i>m</i> PR>100kw; PG <i>PG</i> <350 <i>kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed <b>PC</b> <326m, 38-58-42/ 94-21-02 NS 1.5kw	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie	<b>11</b> 34 <b>46</b> 51 32 17 52	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW KMCI K33HZ	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed <b>PC&lt;326m,</b> <b>38-58-42/</b> <b>94-21-02</b> NS 1.5kw (TBN)	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota:	<ul> <li>11</li> <li>34</li> <li>46</li> <li>51</li> <li>32</li> <li>17</li> <li>52</li> <li>8</li> </ul>	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW <b>KMCI</b> K33HZ K36HB	8 41-52-44/ 87-38-08 dismissed <i>PG&lt;265m</i> PR>100kw; PG <i>PG&lt;350kw</i> NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea	<ul> <li>11</li> <li>34</li> <li>46</li> <li>51</li> <li>32</li> <li>17</li> <li>52</li> <li>8</li> <li>56</li> </ul>	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ NEW-LP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW KMCI K33HZ	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP,	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria	<ul> <li>11</li> <li>34</li> <li>46</li> <li>51</li> <li>32</li> <li>17</li> <li>52</li> <li>8</li> <li>56</li> <li>44</li> </ul>	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ NEW-LP K44GH	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55	WTHR-DT         W34DD         KCRG-DT         K52IZ         K40CO         K57JL         K40HR         K41II         K54JC         NEW-LP         K27HW         KMCI         K33HZ         K36HB         K55JZ	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ NEW-LP K44GH K44HE	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn)
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW <b>KMCI</b> K33HZ K36HB	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55,	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ NEW-LP K44GH	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55	WTHR-DT         W34DD         KCRG-DT         K52IZ         K40CO         K57JL         K40HR         K41II         K54JC         NEW-LP         K27HW         KMCI         K33HZ         K36HB         K55JZ	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ NEW-LP K44GH K44HE	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita Kentucky:	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55 5	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW <b>KMCI</b> K33HZ K36HB K55JZ KCTU-LP	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55, 3kw	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva Mankato	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44 47	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ NEW-LP K44GH K44HE K47IV	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then reinstated
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55 5 2,	WTHR-DT         W34DD         KCRG-DT         K52IZ         K40CO         K57JL         K40HR         K41II         K54JC         NEW-LP         K27HW         KMCI         K33HZ         K36HB         K55JZ	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55,	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva Mankato St. James	<ul> <li>11</li> <li>34</li> <li>46</li> <li>51</li> <li>32</li> <li>17</li> <li>52</li> <li>8</li> <li>56</li> <li>44</li> <li>47</li> <li>32</li> </ul>	WWLP-DT         WESA-LP         960710KZ         W51DP         W32CV         W17CS         W52DB         WGTQ         NEW-LP         K44GH         K47IV         NEW-LP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then reinstated AF dismissed
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita Kentucky: Jamestown	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55 5 2,11	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW KMCI K33HZ K36HB K55JZ KCTU-LP NEW-LP	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55, 3kw AF dismissed	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva Mankato	<ul> <li>11</li> <li>34</li> <li>46</li> <li>51</li> <li>32</li> <li>17</li> <li>52</li> <li>8</li> <li>56</li> <li>44</li> <li>47</li> <li>32</li> </ul>	WWLP-DT WESA-LP 960710KZ W51DP W32CV W17CS W52DB WGTQ NEW-LP K44GH K44HE K47IV	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then reinstated AF dismissed QG from
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Kansas: Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita Kentucky:	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55 5 2,11	<b>WTHR-DT</b> W34DD <b>KCRG-DT</b> K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW <b>KMCI</b> K33HZ K36HB K55JZ KCTU-LP	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55, 3kw AF dismissed NW 906kw/	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva Mankato St. James Willmar	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44 47 32 34	WWLP-DT         WESA-LP         960710KZ         W51DP         W32CV         W17CS         W52DB         WGTQ         NEW-LP         K44GH         K44HE         K47IV         NEW-LP         K34HO	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then reinstated AF dismissed QG from K52GK
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita Kentucky: Jamestown Paducah	<b>46</b> 34 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55 5 2,11	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW KMCI K33HZ K36HB K55JZ KCTU-LP NEW-LP	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55, 3kw AF dismissed	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva Mankato St. James	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44 47 32 34	WWLP-DT         WESA-LP         960710KZ         W51DP         W32CV         W17CS         W52DB         WGTQ         NEW-LP         K44GH         K47IV         NEW-LP	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then reinstated AF dismissed QG from K52GK QG from
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita Kentucky: Jamestown Paducah Louisiana:	<b>46</b> 34 52 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55 5 2, 11 <b>32</b>	<ul> <li>WTHR-DT</li> <li>W34DD</li> <li>KCRG-DT</li> <li>K52IZ</li> <li>K40CO</li> <li>K57JL</li> <li>K40HR</li> <li>K41II</li> <li>K54JC</li> <li>K54JC</li> <li>NEW-LP</li> <li>K33HZ</li> <li>K36HB</li> <li>K55JZ</li> <li>KCTU-LP</li> <li>NEW-LP</li> <li>NEW-LP</li> <li>MPSD-DT</li> </ul>	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55, 3kw AF dismissed NW 906kw/ 492	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva Mankato St. James Willmar	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44 47 32 34	WWLP-DT         WESA-LP         960710KZ         W51DP         W32CV         W17CS         W52DB         WGTQ         NEW-LP         K44GH         K44HE         K47IV         NEW-LP         K34HO	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then reinstated AF dismissed QG from K52GK
Indianapolis Terre Haute Iowa: Cedar Rapids Spencer Storm Lake Storm Lake Storm Lake Chanute Dodge City Emporia Garden City Great Bend Lawrence Pittsburg Pittsburg Topeka Wichita Kentucky: Jamestown Paducah	<b>46</b> 34 52 52 40 57 40 41 54 43 27 <b>38</b> 33 36 55 5 2, 11 <b>32</b>	WTHR-DT W34DD KCRG-DT K52IZ K40CO K57JL K40HR K41II K54JC NEW-LP K27HW KMCI K33HZ K36HB K55JZ KCTU-LP NEW-LP	8 41-52-44/ 87-38-08 dismissed PG<265m PR>100kw; PG PG<350kw NS 2.8kw (KPTH-44) QC x K47FZ NS 20kw (KPTH-44) NS 8kw(TBN) AF dismissed & reinstated AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed AF dismissed PC<326m, 38-58-42/ 94-21-02 NS 1.5kw (TBN) NS 4kw QG x K21AP, 49.9kw QC from ch. 55, 3kw AF dismissed NW 906kw/	Springfield Springfield Michigan: Bay City Gladstone Ironwood Marquette Muskegon Sault Ste. Marie Minnesota: Albert Lea Alexandria Geneva Mankato St. James Willmar	<b>11</b> 34 <b>46</b> 51 32 17 52 <b>8</b> 56 44 44 47 32 34	WWLP-DT         WESA-LP         960710KZ         W51DP         W32CV         W17CS         W52DB         WGTQ         NEW-LP         K44GH         K44HE         K47IV         NEW-LP         K34HO	AF 4.15kw/ 397, 42-37-31/ 74-00-38 PR>10kw QG fm W12CL, CL from Granby CT, 45kw PR<1600kw/30 6 43-28-24/ 83-50-41 AF dismissed & reinstated NW 15.9kw (KQDS-21) PG<8.9kw QC x W58CU, 21.7kw; CL x Big Rapids PC<288m, DA AF dismissed PG>1.2kw NS 8kw (3Abn) NS 10kw; then dismissed; then reinstated AF dismissed QG from K52GK QG from

Grenada	28	W28BP	PG>150kw
Jackson	-	WBMS-CA	
Marten		NEW-LP	
Meridian		NEW-LP	
Natchez	44	W44CE	FC; sold to
			KEJB-43
Prairie	55.	NEW-LP	AF dismissed
	56		
Starkville		W24CY	NS 2kw (TBN)
Starkville		W32DB	AF dismissed
Starkville	32	VV JZDD	
<b>—</b> .	~ .		& reinstated
Tupelo		NEW-LP	AF dismissed
	40		
Tupelo	68	K68GQ	NS 15kw (TBN)
Missouri:			
Chillicothe	46	K46HP	AF dismissed
Chinicouno			& reinstated
Columbia	44		
Columbia		KZOU-LP	CC x K11SN
Columbia		NEW-LP	AF dismissed
Hannibal	23	K23GU	NS 1kw
Jefferson	34	K34HP	NS 4kw
Kirksville	48	K48IR	AF dismissed
Moberly	46	NEW-LP	AF dismissed
New		K30HT	NS 630w
Bloomfield	50		
Osage Beach	40		GA
			•••
Rolla		K16FE	PG<9.8kw
Springfield	27	KDEB-TV	
			7
			37-13-08/
			92-56-56
St. Joseph	21	KTAJ-DT	PR>1000kw/31
•			7 dismissed
St. Louis	16	K64DT	QR x ch. 64 but
	10		dismissed
St. Louis	40	K40FF	
	40	N4VFF	FC: Daystar
Montana:	-0		
Arminton		NEW-LP	AF dismissed
		NEW-LP NEW-LP	AF dismissed
Arminton			
Arminton Big Sky	46		AF dismissed
Arminton Big Sky Billings	46 7	NEW-LP	AF dismissed & reinstated AF dismissed
Arminton Big Sky Billings Billings	46 7 23	NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed
Arminton Big Sky Billings Billings Billings	46 7 23 48	NEW-LP NEW-LP NEW-LP K48IQ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw
Arminton Big Sky Billings Billings Billings Bozeman	46 7 23 48 13	NEW-LP NEW-LP K48IQ NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman	46 7 23 48 13 34	NEW-LP NEW-LP K48IQ NEW-LP K34FI	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman	46 7 23 48 13 34 36	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman	46 7 23 48 13 34 36 47	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman	46 7 23 48 13 34 36 47 52	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman	46 7 23 48 13 34 36 47 52	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus	46 7 23 48 13 34 36 47 52 56	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls	46 7 23 48 13 34 36 47 52 56 7	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon	46 7 23 48 13 34 36 47 52 56 7	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls	46 7 23 48 13 34 36 47 52 56 7	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls	46 7 23 48 13 34 36 47 52 56 7 43	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre	46 7 23 48 13 34 36 47 52 56 7 43 7	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena	46 7 23 48 13 34 36 47 52 56 7 43 7 34	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena Kalispell	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56,
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena Kalispell	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena Kalispell	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56,
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena Kalispell	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38 15	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena Kalispell Lakeside	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38 15 4	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K34HL NEW-LP K36DJ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena Kalispell Lakeside	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38 15 4	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K34HL NEW-LP K34HL NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6,
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Havre Helena Kalispell Lakeside	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38 15 4	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K34HL NEW-LP K34HL NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Lakeside	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38 15 4 30	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Lakeside Lewistown Polson	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38 15 4 30 31	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K56DJ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson	46       7       23         48       13       34         34       36       47         52       56       7       43         7       34       38       15         4       30       31       52	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K56DJ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson Poplar Sidney Van Morman	46       7       23         48       13       34         34       36       47         52       56       7       43         7       34       38       15         4       30       31       52	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K56DJ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson Poplar Sidney Van Morman <b>Nebraska:</b>	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K34HL NEW-LP K56DJ NEW-LP K06MQ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson Poplar Sidney Van Morman	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K56DJ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson Poplar Sidney Van Morman <b>Nebraska:</b>	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K34HL NEW-LP K56DJ NEW-LP K06MQ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson Poplar Sidney Van Morman <b>Nebraska:</b>	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56         24       24	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K34HL NEW-LP K56DJ NEW-LP K06MQ	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed <b>NW 287kw</b> /
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson Poplar Sidney Van Morman <u>Nebraska:</u> <i>Alliance</i> Bassett	46 7 23 48 13 34 36 47 52 56 7 43 7 34 38 15 4 30 31 52 56 24 30	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K06MQ K31HX K52JJ NEW-LP K06MQ K31HX	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed <b>NW 287kw/</b> <b>440</b> AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Havre Helena Kalispell Lakeside Lewistown Polson Poplar Sidney Van Morman Nebraska: Alliance Bassett Broken Bow	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56         24       30       31         52       56       24	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K06MQ K31HX K52JJ NEW-LP K06MQ K31HX	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed <b>NW 287kw/</b> 440 AF dismissed AF dismissed
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Great Falls Lakeside Lewistown Polson Poplar Sidney Van Morman Nebraska: Alliance Bassett Broken Bow Mullen	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56         24       30       31         52       56       24	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K06MQ K31HX K52JJ NEW-LP K06MQ K31HX K52JJ NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed <b>NW 287kw/</b> <b>440</b> AF dismissed AF dismissed NS 12kw
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Great Falls Lakeside Lewistown Polson Poplar Sidney Van Morman <u>Nebraska:</u> <i>Alliance</i> Bassett Broken Bow Mullen North Platte	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56         24       30       52         430       31       52         56       24       30	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K56DJ NEW-LP K56DJ K31HX K52JJ NEW-LP K30HQ K31HX K52IW K44HP K30HV	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 1kw AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed <b>NW 287kw/</b> 440 AF dismissed AF dismissed AF dismissed NS 12kw NS 12kw NS 8kw (TBN)
Arminton Big Sky Billings Billings Bozeman Bozeman Bozeman Bozeman Columbus Fallon Great Falls Great Falls Great Falls Great Falls Lakeside Lewistown Polson Poplar Sidney Van Morman Nebraska: Alliance Bassett Broken Bow Mullen	46       7       23         48       13       34         13       34       36         47       52       56         7       34       38         15       4       30         31       52       56         24       30       52         430       31       52         56       24       30	NEW-LP NEW-LP K48IQ NEW-LP K34FI K36HC K47IW NEW-LP NEW-LP NEW-LP NEW-LP K34HL NEW-LP K56DJ NEW-LP K56DJ NEW-LP K06MQ K31HX K52JJ NEW-LP K06MQ K31HX K52JJ NEW-LP	AF dismissed & reinstated AF dismissed AF dismissed NS 7.08kw AF dismissed PR>7.8kw; PG NS 1kw NS 5kw AF dismissed AF dismissed AF dismissed NS 150kw petition to revoke AF dismissed NS 150kw petition to revoke AF dismissed QR from ch. 56, 1.32kw; CL from Polson AF dismissed QR x ch 6, 250w; CL fm Finley Point NS 940w NS 10w AF dismissed <b>NW 287kw/</b> <b>440</b> AF dismissed AF dismissed NS 12kw

Sidney			
Oldricy	52	K52IV	AF dismissed
Thedford	-	K59IF	AF dismissed
Valentine		K31HM	NS 20kw
Whitman	52	NEW-LP	AF dismissed
Nevada:	-		
Carson City	32	K57CV	QR from ch. 57,
	2		15kw
Las Vegas	2	KVBC-DT	NW 27.7kw/ 384
Las Vegas	13	KTNV	NS 67.6kw/
Las Vegas	23	K23GX	<b>568m (aux)</b> QG x K67GB, 87kw
Nixon	56	K56IG	NS 18.7kw (KRXI-11)
Pahrump	67	NEW-LP	AF dismissed
Verdi		K30HY	QG x K15CT, 800w
Winnemucca	5	K05LR	NS 3kw
New Hampshi	-		
Concord		W17CV	NS 5.6kw
Concord	33	WPXG-DT	NW 100kw/ 344
Merrimack	60	WNEU	944 PC>5000kw
Nashua New Jersey:		WYCN-LP	PG>120w
Newark	13	WNET	PR 123kw/
Howark	10		405,
			40-44-54/
_	_		73-59-10
Secaucus	9	WWOR-TV	
			360, 40,44,54/
			40-44-54/ 73-59-10 (aux);
			PR 121kw/
			407m for main
<u>New Mexico:</u>			
Albuquerque	38	K38IM	QG x K17DD,
			45.4kw
Black Laka	6	KOGMS	
Black Lake Buchanan	6 53		PG>80w AF dismissed
Black Lake Buchanan	-	K06MS NEW-LP	PG>80w AF dismissed
	53, 54		
Buchanan	53, 54 22	NEW-LP	AF dismissed NS 10kw AF dismissed
Buchanan Clovis	53, 54 22 31 44	NEW-LP K22GZ NEW-LP K44GD	AF dismissed NS 10kw AF dismissed QC x K67FP
Buchanan Clovis Clovis	53, 54 22 31 44	NEW-LP K22GZ NEW-LP	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47,
Buchanan Clovis Clovis Crownpoint Hobbs	53, 54 22 31 44 45	NEW-LP K22GZ NEW-LP K44GD K47CF	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces	53, 54 22 31 44 45 48	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas	53, 54 22 31 44 45 48 28	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg	53, 54 22 31 44 45 48 28 36	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas	53, 54 22 31 44 45 48 28 36	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg	53, 54 22 31 44 45 48 28 36 18	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco	53, 54 22 31 44 45 48 28 36 18 34	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve	53, 54 22 31 44 45 48 28 36 18 34	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m</b> ,
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve	53, 54 22 31 44 45 48 28 36 18 34	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m,</b> <b>33-21-44/</b>
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b>	53, 54 22 31 44 45 48 28 36 18 34 27	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m,</b> <b>33-21-44/</b> <b>104-31-25</b>
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b>	53, 54 22 31 44 45 48 28 36 18 34 27 45	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m,</b> <b>33-21-44/</b> <b>104-31-25</b> NS 1kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep	53, 54 22 31 44 45 48 28 36 18 34 27 45	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m,</b> <b>33-21-44/</b> <b>104-31-25</b>
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep Springs	53, 54 22 31 44 45 48 28 36 18 34 27 45 52	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m,</b> <b>33-21-44/</b> <b>104-31-25</b> NS 1kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep Springs Sheep Springs	53, 54 222 31 44 45 48 28 36 18 34 27 45 52 58	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV K45HX NEW-LP K58HX	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m</b> , <b>33-21-44/</b> <b>104-31-25</b> NS 1kw AF dismissed NS 1kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep Springs Sheep	53, 54 222 31 44 45 48 28 36 18 34 27 45 52 58	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m</b> , <b>33-21-44/</b> <b>104-31-25</b> NS 1kw AF dismissed NS 1kw NS 2.23kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep Springs Sheep Springs	53, 54 222 31 44 45 48 28 36 18 34 27 45 52 58 46	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV K45HX NEW-LP K58HX	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m</b> , <b>33-21-44/</b> <b>104-31-25</b> NS 1kw AF dismissed NS 1kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep Springs Sheep Springs Sheep Springs Socorro Taos <b>New York:</b>	53, 54 22 31 44 45 48 28 36 18 34 27 45 52 58 46 30	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV K45HX NEW-LP K58HX K46HY K30HS	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m,</b> <b>33-21-44/</b> <b>104-31-25</b> NS 1kw AF dismissed NS 1kw NS 2.23kw (KRWG-22) NS 16.6kw
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep Springs Sheep Springs Socorro Taos	53, 54 222 31 44 45 48 28 36 18 34 27 45 52 58 46	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV K45HX NEW-LP K58HX K46HY K30HS	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m</b> , <b>33-21-44/</b> <b>104-31-25</b> NS 1kw AF dismissed NS 1kw NS 2.23kw (KRWG-22) NS 16.6kw <b>GA from ch. 4</b> <b>over</b> <b>objections of</b> <b>WABC &amp;</b>
Buchanan Clovis Clovis Crownpoint Hobbs Las Cruces Las Vegas Lordsburg Pensaco Reserve <b>Roswell</b> Sheep Springs Sheep Springs Sheep Springs Socorro Taos <b>New York:</b>	53, 54 222 31 44 45 48 28 36 18 34 27 45 52 58 46 30 7	NEW-LP K22GZ NEW-LP K44GD K47CF K46DH K28IR K36GA K18HA K34HS K34HS KRPV K45HX NEW-LP K58HX K46HY K30HS	AF dismissed NS 10kw AF dismissed QC x K67FP QR x ch. 47, 16.7kw QC x ch. 46, 150kw NS 6.7kw QC x K59CM QG x ch. 6, 8kw NS 908w (KRWG-22) <b>PR&lt;397kw/28</b> <b>m</b> , <b>33-21-44/</b> <b>104-31-25</b> NS 1kw AF dismissed NS 1kw NS 2.23kw (KRWG-22) NS 16.6kw <b>GA from ch. 4</b> over objections of

Binghamton Cobleskill	41	W06CC W41CV	NS 16w NS 900w	Bridgeport		WVTX-CA	PR<37kw; CC x WDBW-CA
Cobleskill Easton		W57DS WNYA-CA	NS 10kw PR>150kw	Cleveland <i>Cleveland</i>		WJW <i>WJW-DT</i>	PC 236kw/ 333 <i>NW 625kw</i> /
Elmira	6	W06CD	NS 250w				317
Elmira	30	W30AA	FC; sold to	Dayton		WDTN	FC to NBC
			Clear Channel (to WIVT	Dayton <i>Dayton</i>		WKEF <i>WDTN-DT</i>	FC to ABC PG>1000kw/32
			ABC?)	Dayton	50	WDIN-DI	3
Endicott	53	W53CR	NS 690w	Toledo	19	WTVG-DT	- PG>795kw;
Gouverneur	9	NEW-LP	AF dismissed				NW
			(Canadian	Oklahoma:	-0		
Ithaca	52	WNYI	objection) NW 26kw/-94m	Ardmore	53	KCYH-LP	NW 3kw; CC from K53IH
Innaou	02		42-25-47/	Ardmore	64	NEW-LP	AF dismissed
			76-29-49	Elk City	31	K31HJ	QG x K54CM,
New York	5	WNYW	PR 30kw/	Louton	25	K25IC	9.98kw NS 250w
			439m, 40-44-54/	Lawton <i>Muskogee</i>		KWBT-DT	PA dismissed
			73-59-10; AF	Tulsa		KLOT-LP	QR from ch. 25,
			50kw/ 367m	_			25kw
New York	7	WABC-TV	(aux) PR 123kw/	<u>Oregon:</u> Ashland	62	KFBI-LP	PR>1.3kw; PG
New TOTK	1	WABC-IV	405,	Bend		NEW	GA
			40-44-54/	Eugene		KEPB-TV	PG>340kw/403
			73-59-10	-			44-00-07/
New York	11	WPIX	PR 123kw/ 405,	Lakoviow	7	K07NR	123-06-53
			405, 40-44-54/	Lakeview Madras/		K07NK K56BV	PC>1.11kw QR from ch. 56,
			73-59-10	Culver	00	10021	2kw
New York	65	WNYX-LP	QG x ch. 23,	Madras/	32	K58BK	QR from ch. 58,
Diattabreb	20	WCFE-DT	10kw <b>PR&lt;60kw</b> /	Culver Modroo/	20	K63CC	2kw QR from ch. 63,
Plattsbrgh	30	WGFE-DI	737m	Madras/ Culver	30	ROSCC	2kw
Port Jervis	26	W26DB	NS 100w (10w	Madras/	45	K69BI	QR from ch. 69,
		W32DC	on ch. 32);	Culver			1.7kw
		W34DI W42CX	PR>150kw on channels 42 &	Medford	18	K18GB	PR>12.6kw; PG
		W420A W46DQ	59	Merlin	33	K33GJ	PR ?? (Public
	52	W52DW					Notice says
		W55DK			40		1492kw?)
Poughkeepsie		W59EA W42AF	PC>19.3kw	Pendleton Portland		KORX-CA KPXG-LP	PG>84.8kw PR>105kw; PG
Rochester		WBXO-LP	QC from ch. 15,	Rainier		K21HG	NS 2.2kw
			16kw	Pennsylvania:			
Rochester	61	960228KF	AF dismissed (WXXI-21)	Bethlehem	9	WBPH-DT	NS 3.2kw/ 284m
Troy	35	WNGN-LP	PG<38kw	Clearfield	3	WPSX-TV	PC 42.4kw/
Utica		WVVC-LP	CC x W27BJ				395
Utica	30	WUTR-DT	NW 50kw/	Erie Erie		WFXP-DT	NS 850kw/ 276
North Carolina	a:		227m	Erie	30	WSEE-TV	PC>291m, 42-02-16/
Asheville		WJJV-LP	QG from ch.				80-03-44
			25, 95.9kw	Johnstown	34	WJAC-DT	PR>1000kw/38
Buxton	50	NEW-LP	AF 1kw reinstated	Mansfield	13	W43CJ	<b>6</b> NS 1kw (TBN)
Buxton	50	W50DC	AF dismissed	Mt. Pocono		NEW-LP	AF dismissed
Goldsboro		WHFL-LP	QG x ch. 56	Phila.		WCAU-DT	NW 560kw/
Hickory		WHKY-TV	PC>1285kw/40				377,
Manteo Raleigh		K59ID WWIW-LP	NS 10.8kw QG from ch.				40-02-30/ 75-14-11
Raleigh	41		66, 64kw	Pittsburgh	16	WQEX	granted
Raleigh	5	WRAL-TV	NW (aux,	-			permission to
			facilities not	Dittaburgh	40		drop DA
Reidsville	39	WXIV-LP	listed) QR from ch. 14,	<i>Pittsburgh</i> Pittsburgh		WPGH-DT W47VC	<b>PG&lt;303m</b> QG x W65CG,
		····· <b>-·</b>	7kw	Ū	••		11.3kw
North Dakota:				Pittsburgh		WPXI-DT	PR>1000kw
Bismarck Grand Forks	-	NEW-LP NEW-LP	AF dismissed AF dismissed	York	47	WPMT-DT	NW 933kw/ 385
Minot	-	KMCY-DT	NS 500kw/	Rhode Island:			300
			216; requests	Providence		WSBE-DT	PG>268m
Minat	40		<b>DA</b> AF dismissed	South Carolin			NUAL 4001
Minot <b>Ohio:</b>	40	NEW-LP	AF UISITIISSEU	Charleston	49	WITV-DT	NW 400kw/ 521

Murrells Inlet		WGSI-CA	PG>3kw; CL x Myrtle Beach	-
South Dakota: Edgemont Murdo Phillip Pierre Rapid City Sioux Falls	56 54 52 43 <b>15</b> <b>23</b>	K56IN K54JB NEW-LP K43IP KCLO-TV KCSD-TV	PC>85m, 43-34-28/ 96-39-19	Cor Cor Cor Cro De l Den
Watertown	42	K42FI	FC to KDLT-46 (NBC)	Der
<u>Tennessee:</u> Gatlinburg Hendersn- ville		WDWZ-LP <b>WPGD-DT</b>	CC x W28CS <b>PG&gt;264kw/417</b> , <b>36-16-03</b> /	<i>ei f</i> Ei p
Holladay	62	W62CJ	<b>86-47-44</b> CL from Jackson	Fort Fort
Jackson <b>Knoxville</b>		W22BR WVLT-TV	PG>150kw PC>510m, 35-59-44/ 83-57-23	Free Gal
Knoxville	26	WATE-DT	NW 930kw/ 529	Gal
Memphis		W15CH	QG x W57CG, 116.2kw	Geo <i>Har</i>
<i>Nashville</i> Nashville		<b>WNAB-DT</b> WJNK-LP	<b>PR&lt;367<i>m;</i> PG</b> PR>35.8kw; PG	Har
Nashville	42	W42CR	QC x W52CT, 25kw; FC to Telefutura	Hun Jal Jun
Nashville		WNPT-DT	NW 44.8kw/ 411	Ker
Nashville Texas:	48	W48DF	QG x W36AK, 19.9kw	Lare Lare
Abilene	38	K38IB	AF dismissed	La \
Abilene		K49HT	NS 30.99kw, site closer to Stephenville	
Abilene		K49HW	NS 500w	
Abilene		KTXF-LP	CC x K05LO NS 6.97kw	1 ;++1
Alice Alpine		K42GL NEW-LP	AF dismissed	Little
Amarillo		NEW-LP		Lub Mas
Amarillo		K46HQ	NS 100w	Mas
Amherst <i>Austin</i>		NEW-LP <i>KLRU-DT</i>	AF dismissed NW 700kw/ 358	Mat Mul
Beaumont	12	K13YO	<b>(5 programs)</b> AF dismissed	Pari
Big Spring		K44HS	NS 8.1kw	Pari
9-6-19			(TBN)	Ran
Brownfield		K30HR	NS 11kw	San
Canyon		NEW-LP	AF dismissed	San
Cedar Hill	56	KBFW-LP	QR x ch. 69, 112.5kw; CL x	Smi Son
Conroe	49	КРХВ	Gainesville PR>5000kw/58	Tex
			9 29-34-15/ 95-30-37	Tuli
Conroe	55	KTBU	95-30-37 dismissed PR>5000kw/55	Tyle
			3	Uva
			30-13-53/	Vict
			95-07-26	Vict
			reinstated;	Wic

			PR>597m, DA dismissed
Corpus Christi	13	KRIS-DT	AF 160kw/291m
Corpus Christi			CC from K33HL
Corpus Christi			NW 1kw
Crockett	10, 45	NEW-LP	AF dismissed
Decatur		KMPX-DT	PR>544m
De Leon Denison		NEW-LP NEW-LP	AF dismissed AF dismissed
Denton		KDTN-DT	NW 1000kw/
			494 <i>m</i> ,
			32-32-36/ 96-57-32
El Paso	15	KFOX-DT	90-57-52 PG>604m
El Paso		K48IK	QC from
Tart Davia	E 4		K46DH, 150kw
Fort Davis Fort Worth		K54JD KVFW-LP	AF dismissed QC from ch. 65,
			112.5kw
Freer	53, 58	NEW-LP	AF dismissed
Galveston		KTMD	PG>5000kw/59
			7 29-34-15/ 95-30-37
Galveston	48	KTMD-DT	PG<1000kw
George West	29	K29GH	NS 25kw
Harlingen		KLUJ-DT	PR<200kw
Harper	17	NEW-LP	AF 7.5kw dismissed but
			reinstated
Hunt		NEW-LP	AF dismissed
Jal		K59IE	AF dismissed
Junction Kerrville		K56IF KVHC-LP	AF dismissed NW 7.71kw
Kress		K41CA	PG<930w
_aredo		NEW-LP	NS rescinded
_aredo	34	KLMV-LP	QR from ch. 68, 100w
_a Vernia	46	KQVE-LP	PR 55.35kw.
			CL to San
			Antonio dismissed,
			Mexican
			objection
_ittlefield _ubbock		K29GE NEW-LP	NS 870w AF dismissed
_ubbock _ubbock		K44HH	NS 5kw (TBN)
Mason		NEW-LP	AF 2.5kw
			dismissed but
Vason	56	K56IE	reinstated AF dismissed
Vatador		K45FE	QG from ch. 64
Mullin	31	NEW-LP	AF 18kw
			dismissed but reinstated
Paris	13	K13YP	AF dismissed
Paris		K16FY	NS 50kw
Randado		NEW-LP K43IQ	AF dismissed
San Angelo San Angelo		K45HW	NS 980w NS 980w
Smith Hill		K13YN	AF dismissed
Somerville	30	K30HU	QG from
Texarkana	5,	NEW-LP	K35DI, 50kw AF dismissed
Tulia	66 25	K25CP	PG<960w; CL
			from Kress
Fyler		K20DL	QR from ch. 20, 18.5kw
Jvalde /istorio		K56IO	NS 999w
∕ictoria ∕ictoria		K39HB K49IE	NS 9.89kw NS 1kw
Nichita Falls		NEW-LP	AF dismissed
-	-		

Wichita Falls Wichita Falls	-	K40HZ NEW-LP	NS 1kw AF dismissed
Wickett Wolfforth	13	K13YT <b>KUPT</b>	NS 3kw <b>PR&gt;142kw/256</b>
Utah:			
Brian Head Bullfrog		K35HG K15GN	NS 75w NS 600w
			(KUED-7)
Cedar City		K16FZ	NS 3.79kw
Cedar City		K17GS	NS rescinded
Delta	45	K45GE	QC fm K68BQ, 2.6kw
Hanna	3	К03НМ	NS 5.2w
Heber/Midway	39	NEW-LP	AF dismissed
Helper		K31HL	NS 1.73kw
Henrieville		K22GP	NW 10w
Huntsville		K43IY	NS 6kw
Hurricane	21	K21GW	NS 340w (KUED-7)
Logan	68	K68GP	AF dismissed
Mount		K57HK	QC from ch. 57,
Pleasant			1.8kw
Park City <b>Price</b>	23 <b>3</b>	K23GP	PR>95kw; PG
Price	3	KUTF-DT	NS 9.4kw/658m
Price	23	K23GW	NS 1.73kw
Roosevelt		K45GN	QC fm K06DY,
			1.12kw
Rural Summit	22	K22DM	PG>990w;
County	04	KOACK	already on
Salina	24	K24GK	NS 143w (KUWB-30)
Samak	31	K31HH	NS 140w
Santa Clara		NEW-LP	AF dismissed
Ticaboo	9	K09XT	NW 80w
			(KULC-9)
Tooele	63	K20ER	QR from ch. 20,
Vernal	33	NEW-LP	1.13kw AF dismissed
	55		Al ulamiaaeu
vermont:			
<u>Vermont:</u> Burlington	30	W30BL	PR>30kw
Burlington Burlington	39	WBVT-LP	PR<60kw
Burlington	39		PR<60kw <b>PC&lt;1820kw/68</b>
Burlington Burlington Hartford	39 <b>31</b>	WBVT-LP <b>WNNE</b>	PR<60kw PC<1820kw/68 4
Burlington Burlington	39 <b>31</b> 2	WBVT-LP	PR<60kw <b>PC&lt;1820kw/68</b>
Burlington Burlington <b>Hartford</b> Manchester	39 <b>31</b> 2 19	WBVT-LP WNNE WVBK-CA	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52,
Burlington Burlington <b>Hartford</b> Manchester Monkton St. Albans	39 <b>31</b> 2 19	WBVT-LP WNNE WVBK-CA W19BR	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw
Burlington Burlington <b>Hartford</b> Manchester Monkton St. Albans <u>Virginia:</u>	39 <b>31</b> 2 19 49	WBVT-LP WNNE WVBK-CA W19BR W52CD	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw
Burlington Burlington <b>Hartford</b> Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville	39 <b>31</b> 2 19 49 13	WBVT-LP WNNE WVBK-CA W19BR W52CD W13DD	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed
Burlington Burlington <b>Hartford</b> Manchester Monkton St. Albans <u>Virginia:</u>	39 <b>31</b> 2 19 49 13	WBVT-LP WNNE WVBK-CA W19BR W52CD	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/
Burlington Burlington <b>Hartford</b> Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville <b>Charlottesvill</b> <b>e</b>	39 31 2 19 49 13 13 19	WBVT-LP WNNE WVBK-CA W19BR W52CD W13DD 860410KP	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/ 78-28-52
Burlington Burlington Hartford Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville Charlottesvill	39 31 2 19 49 13 13 19	WBVT-LP WNNE WVBK-CA W19BR W52CD W13DD	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/ 78-28-52 QC fm W21AQ,
Burlington Burlington Hartford Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville Charlottesvill e Hampton	39 31 2 19 49 13 19 51	WBVT-LP WNNE WVBK-CA W19BR W52CD W13DD 860410KP W51DO	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/ 78-28-52 QC fm W21AQ, 50kw
Burlington Burlington <b>Hartford</b> Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville <b>Charlottesvill</b> <b>e</b>	<ul> <li>39</li> <li>31</li> <li>2</li> <li>19</li> <li>49</li> <li>13</li> <li>19</li> <li>51</li> <li>45</li> </ul>	WBVT-LP WNNE WVBK-CA W19BR W52CD W13DD 860410KP W51DO WNLO-CA	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/ 78-28-52 QC fm W21AQ,
Burlington Burlington Hartford Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville Charlottesvill e Hampton Norfolk	<ul> <li>39</li> <li>31</li> <li>2</li> <li>19</li> <li>49</li> <li>13</li> <li>19</li> <li>51</li> <li>45</li> </ul>	WBVT-LP WNNE WVBK-CA W19BR W52CD W13DD 860410KP W51DO	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/ 78-28-52 QC fm W21AQ, 50kw PC>139kw
Burlington Burlington Hartford Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville Charlottesville Hampton Norfolk Richmond <u>Washington:</u>	<ul> <li>39</li> <li>31</li> <li>2</li> <li>19</li> <li>49</li> <li>13</li> <li>19</li> <li>51</li> <li>57</li> </ul>	WBVT-LP WNNE WVBK-CA W19BR W52CD W13DD 860410KP W51DO WNLO-CA WCVW	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/ 78-28-52 QC fm W21AQ, 50kw PC>139kw PR<50kw/293 m
Burlington Burlington Hartford Manchester Monkton St. Albans <u>Virginia:</u> Charlottesville Charlottesville Hampton Norfolk Richmond <u>Washington:</u> Longview	<ul> <li>39</li> <li>31</li> <li>2</li> <li>19</li> <li>49</li> <li>13</li> <li>19</li> <li>51</li> <li>45</li> <li>57</li> <li>17</li> </ul>	WBVT-LP WVBK-CA W19BR W52CD W13DD 860410KP W51DO WNLO-CA WCVW	PR<60kw PC<1820kw/68 4 PR<5w; PG PR>60kw QR from ch. 52, 30kw AF dismissed PR>326m, 37-59-03/ 78-28-52 QC fm W21AQ, 50kw PC>139kw PR<50kw/293 m NS 2.2kw
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Huntington	13	<b>WOWK-TV</b>	PC 114.8kw/ 414m, 38-30-21/ 82-12-33
Huntington	34	WPBY-DT	NW 60.1kw/ 378
Lewisburg	8	WVNS-DT	QG from ch. 48,
Morgantown	33	WNPB-DT	3.68kw/577m NW 108kw/ 441
<u>Wisconsin:</u> Arpin	57	W57DR	NS 14kw
Coloma	48	W48DB	(WFXS-55) QC fm W64AU,
Eau Claire <i>Janesville</i>		K23HC <b>WBUW-DT</b>	43-03-03/
Kenosha	40	WPXE-DT	89-29-13 NW 830kw/358, 43-05-44/
Madison	15	WMTV	87-54-17 PR 891kw/415m
Madison	19	WMTV-DT	PR>56kw/387 m
River Falls	47	W47CW	QG fm W55AP, 1kw
Washington	18	W18CU	QC fm W55AO, 1.64kw; CL from Sister Bay
Wausau <u>Wyoming:</u>	14	K14MB	NS 250w
Casper	13	KCWY	PC>10.25kw/ 534m
Casper Cheyenne		NEW-LP K13YR	AF dismissed QG fm K08NK, 3kw
Cheyenne Cheyenne Cheyenne Cheyenne Cody	44 47 50	K40HP K44HF K47IU K50HX K43IZ	NS 10kw NS 9.1kw NS 20kw NS 5kw NS 405w
Cody Gillette Gillette Laramie Laramie Rock Springs Teton Village	19 45 25 48 41	NEW-LP NEW-LP K45IB NEW-LP K48IN K41IJ K04NR	(KULR-8) AF dismissed AF dismissed NS 1kw AF dismissed NS 50kw NS 7kw QR from ch. 4, 300w but already
Torrington	52	NEW-LP	dismissed AF dismissed
<u>Guam:</u> Tamuning	26	KTKB-LP	CC x K26HK
<u>Puerto Rico:</u> Aguadilla	32	WELU	PG 7.1kw/ 317m
Aguadilla	34	WELU-DT	PR<605m, 18-09-06/
Mayaguez <b>Ponce</b>		NEW-LP <b>WTIN</b>	66-59-23 AF dismissed FC to relay WAPA-4
Ycamuy	45	NEW-LP	AF dismissed

Canada:			& reinstated
Alberta:			
Jasper	5	CBXT-4	PG<50w/ -55m, XG
Ontario:			
Toronto	44	CJMT-DT	AF 15kw/304m, 43-38-56/ 79-22-55
Toronto	64	CFMT-DT	AF 15kw/304m, 43-38-56/ 79-22-55
Toronto	69	CJMT-TV	QC from ch. 44
<u>Quebec:</u> Montreal Trois- Rivieres		CIVM-TV CIVC-TV	PG<889.5kw PG<651.8kw

Thanks to Eric Bueneman, Jeff Kruszka, K.M. Richards, and Saul Chernos for information appearing elsewhere in this month's column.

My apologies for the extreme abbreviation this month. There was a <u>lot</u> of FCC activity, and the length of the column was getting out of hand. Hopefully the LPTV coordinates will be back next month, though I have a bad feeling the high levels of LPTV activity will continue for awhile.

I'm pretty sure "Ycamuy", Puerto Rico is a typo. There is a town of "Camuy" on the island, and I'm sure that's where this LPTV station plans to operate.

The five change requests in the New York City area (WNYW-5, WABC-7, WWOR-9, WPIX-11, and WNET-13) reflect the permanent moves of these stations to the Empire State Building. They had been operating there under special temporary authority, since the 9/11 attacks.

KUTF-3 is already operating an analog facility on the same site and channel. Note two new channels added to the DTV assignment table, in Missouri and Oregon.

The KPLC-7 towers collapsed in March. The new tower was immediately adjacent to the old one, and when the old tower collapsed it took the new one with it. Luckily (amazingly!) nobody was hurt. The station has returned to the air temporarily from a short tower at the studio. Presumably the tower site change listed in this month's column is moot, if said tower no longer exists...

There's a fair amount of low-band 3,000-watt LPTV activity this month. A station in Kansas has moved from channel 55 to 5; one in Florida has received permission to move from 65 to 6; another on channel 4 in Florida has been granted a power increase from 40 watts to 3,000; and a permit has been issued for a new 3-kw station on channel 5 in Nevada. Additionally, a channel 51 station in California has requested a move to channel 4 with 3kw.

There's also a new DTV station on the air on channel 2 in Las Vegas; and new station WNYA-51 in western Massachusetts has applied for a 4kw DTV facility on channel 4.

We're approaching the E-skip season – and all of this new low-band activity will be Es-DX-able. Good luck!

(if I ever see the term "Es-DX-able" in print again, I'll never forgive myself<grin>!)

## This Month's Cover

You must admit this one is a little different. It began with a renewal by Paul Mitschler, now living in Albuquerque. The renewal had a letter done in glossy photo paper with the image behind the print. Cool, I thought. Not only was the TV on the cover, it was also on the envelope.

A short time later an envelope arrived with a bunch of pictures. I picked one, scanned it and made it into a cover.

What you see is a 1939 B&W television. I have no idea how Paul got the WTFDA address to look as it does. It actually looks like it's on the CRT. Thanks Paul!



TELECUBANACAN SANTA CLARA CITY, CUBA, CHANNEL 5 Thanks to Jesus Perez for this photo.





NS: new station granted

NW: new station signs on



QC: frequency changed occurred QG: frequency change granted

RA: silent stations returns to the air

XC: transmitter site change occurred

SC: slogan change or update

SI: station is silent

SOA: signed on air

OSA: one step application granted for change

RE: station requests an extension on permit

XA: dismissed amendment to FM allocations

RX: station requests replacement of expired permit

PA: proposed amendment change to FM allocation table

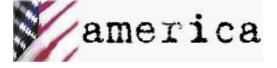
PC: power change on the air (> = increase, < = decrease)

PG: power change granted (> = increase, < = decrease)

#### ABBREVIATIONS:

AFA: American Family Association

- CC: call letter change
- CL: city of license change
- CX: a construction permit has been cancelled
- C1, C2, etc.: a change in status to that FM license class DA: directional antenna
- DE: station has been deleted
- FC: format change
- GA: granted amendment to the table of FM allocations
- GE: granted extension of construction permit
- GX: granted replacement of expired permit
- LC: license to cover filed (ready to come on the air)
- MC: multiple-city ID
- NC: no change yet on a reported change or permit
- ND: non directional antenna
- NO: not on the air



#### ALABAMA:

Arab: WAFN-FM 92.7, PC>1.45kw

Dadeville: WZLM 100.3, QG from 97.3, 2.2kw/167m

Gardendale: WODL 97.3, PG>6.2kw/404m, 33-29-04/86-48-25; CL from Homewood

Goodwater: WSSY-FM 97.5, PG 5.1kw/108m, 33-01-42/85-59-23; CL from Talladega

Jemison: WEZZ-FM 97.7, PG>3.1kw/140m, 32-58-12/86-43-04; CL from Clanton

Muscle Shoals: WVNA-FM 105.5, PC 4.4kw/118m, 34-40-27/87-42-48

Pelham: WXMT-LP 105.5, calls for new station

Thomaston: WAYI 97.7, PG>3.7kw/129m, 32-26-33/87-46-04



#### ALASKA:

Anchorage: KASH-FM 107.5, PC>299m, 61-20-11/149-30-48 Kasilof: KWMD 90.7, QR from 90.5, 6kw-V/1m, 60-31-58/151-04-52

Kasilof: KWVK 88.9, QR from 89.5, 6kw-V/1m, 60-31-58/151-04-52

#### ARIZONA:

Bacavi: KBWV-LP 101.5, NW ?w/384m, 35-15-19/110-39-35 Bisbee: KBRP-LP 96.1, call for new station Cottonwood: KZGL 95.9, PG>21kw/799m, 34-41-11/112-07-02 Green Valley: KTZR 97.1, CC from KWFM

Oro Valley: KCMT 102.1, PR>81m

Parker: KVEZ 99.3, CX, DE (off air over 12 months) Tucson: KPTY-LP 100.3, calls for new station

#### ARKANSAS:

Heber Springs: KAWW 100.7, FC to AC "Diamond 100.7" Jonesboro: KPHW-LP 97.9, calls for new station Marianna: KAKJ 105.3, PR 6kw/100m, 34-47-20/90-47-08 Mena: KENA 102.1, PC 12.5kw/143m, 34-32-42/94-18-21 Mena: KRMN-LP 101.1, NW ?w/7m, 34-36-42/94-13-44 Pangburn: KSMD 99.1, FC to news-talk Rogers: KDUA-LP 96.5, calls for new station

CALIFORNIA: Cambria: KOTR 94.9, CC to KPYG, FC to AAA // KPIG 107.5 "The Pig"

XG: transmitter site change granted

Real American Country

Carlsbad: KOCL 95.7, CC to KUSS, FC to country "US95.7" Chowchilla: KNTO 93.3, PR>4.6kw/114m, 36-59-14/120-12-21

Clovis: KZFO 92.1, flips to regional Mexican "Que Onda", CC to KOND

Cochalla: KPSH 90.9, SOA with religious Essex: KWHY 98.9, PR>9kw/348m Grass Valley: KCEE 103.3, PG>530w/336m Hollister: KBTU 93.5, CC to KOTR Laytonville: KJCU 89.9, NW 130w/110m, 39-26-35/123-43-58

Laytonville: KHKL 91.9, PG 110w/689m, 39-41-38/123-34-43

Lenwood: KHDR 96.9, PG>244m Los Angeles: KXOL-FM 96.3, PG 27.5kw/204m, 34-09-50/118-11-46 Merced: KIBG 106.3, CC to KHPO, FC to classic rock "The Hippo' Merced: KGDM-LP 107.5, calls for new station Modesto: KEJC 93.9, FC to regional Mexican as "Que Buena", PR>3.95kw/123m, 37-39-00/121-01-24 Nevada City: KYRR-LP 93.3, PG 109m, 39-18-57/120-56-29 Palanda: KHTN 104.7, CL from Los Banos Paradise: KRGR-LP 107.1, calls for new station Placerville: KZSA 92.1, CC to KRLL Roseville: KXOA 93.7, SC to "Howard 93.7" (yes, after Howard Stern), CC to KHWD



Salinas: KEBV 97.9, FC to oldies San Diego (Tijuana): XHHCR 99.3 FC to oldies "Kool 99.3" San Diego (Tijuana): XHMORE 98.9 FC to R&B "98.9 More FM'

San Francisco: KISQ 98.1, PC 75kw/310m Shafter: KRFR 93.1, PC 4kw/123m, 35-28-21/119-01-40 Shafter: KQZQ 89.5, calls for new station Sonoma: KSVY 91.3, calls for new station Yuba City: KXCL 103.9, RA with 80s oldies Yucca Valley: KYOR 106.9, CC to KDGL, FC to classic hits "The Eagle"

#### COLORADO:



Aspen: KSPN 103.1, PR>2.7kw/547m, 39-27-14/106-55-21 Brighton: KAMV-LP 101.9, calls for new station Canon City: KSTY 104.5, PR>25kw

Durango: KMZG-LP 96.1, calls

for new station Eagle: KEAE-LP 107.9, calls for new station Eaton: KLCQ 88.9, SOA with K-Love contemporary Christian

Glenwood Springs: KKCH 92.7, PG>55.2kw Granby: KRKM-FM1 106.3, NW 400w, 40-02-24/105-56-11 Grand Junction: KPRN 89.5, PG>20kw/402m

Greeley: KUNC-FM 91.5, PC 81kw/211m, 40-38-31/104-49-03

Gypsum: KLRY 91.3, SOA with K-Love cont. Christian Longwood: KCDC 90.7, CC to KGUD "K-Good" Meeker: KAYW 98.1, PR>379m, 40-11-45/107-56-00

Norwood: KRYD 104.9, PR>24kw/510m, 38-18-57/108-11-47

Parachute: KPCT-LP 106.7, NW ?w/-302m, 39-26-12/108-04-06

Rocky Ford: KJQY 95.5, PR>224m, 37-54-08/104-16-00 Timnath: KKHI-FM 105.5, PR>58kw/371m, 40-37-03/105-19-40

#### DELAWARE:

Milford: WXPZ 101.3, CC to WNCL, FC to oldies as "Kool 101.3"

#### FLORIDA:

Apopka: WPYO 95.3, FC to R&B "Power 95.3" (Orlando), PG>12kw/144m, 28-34-27/81-27-46; CL to Maitland Brooksville: WRRR-LP 102.7, NW ?w/26m, 28-32-08/82-

28-30 Callaway: WMXP 103.5, CC to WAKT-FM

Cocoa Beach: WFKS 104.1, PG<96kw

Dade City: WTMP 96.1, FC to rhythmic oldies "Jammin Oldies 96.1"

Gainesville: WERF-LP 95.7, PR<26.2m

Gracefill: WTOT 101.7, FC to talk "Lets Talk 101.7" Immokalee: WCTI-LP 107.9, CC to WCIW-LP

Key Largo: WORZ-LP 104.3, calls for new station

Key West: WAVQ 88.3, PR>37kw-H/100kw-V/83m, 24-39-34/81-32-19

Lafayette: WEGT 99.9, PC 5.5kw/90m, 30-29-42/84-13-51 Live Oak: WMLO-LP 97.1, NW ?w/23m, 30-16-00/82-59-14 Madison: WXHT 102.7, PC>19kw/115m, 30-38-23/83-26-52 Merritt Island: WCPL-LP 95.5, calls for new station Miami: WDNA 88.9, PR>6.28kw/349m, 25-32-24/80-28-07 Monticello: WFRF 105.7, RA simulcasting WFRF-AM,

contemporary Christian

New Port Richey: WLPJ 91.5, PC 16.5kw/93m, 28-16-58/82-42-43

Ocala: WITG-LP 104.7, NW ?w/37m, 29-11-31/82-04-27 Orlando: WSHE 100.3, CC to WEBG, SC to "Big 100", PG>100kw

Panama City: WJTF 89.9, NW 100kw/32m, 30-10-05/85-40-30

Panama City: WLHR 107.9, PG<98.5kw, CC to WPFM-FM



Pensacola: WBGP 98.7, FC to country "Cat Country", CC to WYCT

St. Augustine: WSOS-FM 94.1, PR 25kw/92m, 29-57-57/81-28-36

St. Catherine: WKFA 89.3, PR>90m, 28-32-23/82-04-48 St. Petersburg: WBBY 107.3, CC to WXGL, SC to "The Eagle"

Summerfield: WJRN-LP 95.9, calls for new station Summerland Key: WPIK 102.5, FC to hot AC//WAVK Tallahassee: WBZE 98.9, PC<99.2kw

Trenton: WDJY 101.7, CC to WDVH-FM

Wakulla County: WHTR-LP 96.9, calls for new station Yankeetown: WXOF 96.3, FC to classic hits

#### GEORGIA:

Blackshear: WKUB 105.1, PG>50kw

Bowdoin (Atlanta): WMAX 105.3, FC to talk "Real Radio 105.3"



Buford: WLKQ 102.3, FC to classic hits Dawson: WMRZ 98.1, PA from class A to C3 Elberton: WWRK 92.1, CC to WSGC-FM Folkston: WOKF 92.5, FC to rhythmic oldies "Jammin Oldies 92-5", CC to WFJO (Jacksonville) Glennville: WCGN 106.3, CC to WOAH, FC to R&B Meigs: WQLI 92.3, granted CL from Pelham Pavo: WWSG 90.5, CC to WNKL Pinehurst: WQXZ 98.3, PA from Cordele Quitman: WSTI-FM 105.3, PG>25kw/97m Ringgold: WSGC 101.9, CC to WTUN Valdosta: WWRQ-FM 107.9, PC>50kw/82m Valdosta: WWET 91.7, PG 430w-V/26m Yates: WWBM 89.7, NW 1kw/98m, 33-27-47/84-53-35

#### HAWAII:

Keaau: KIHH 105.1, CC to KBGX

#### IDAHO:

Driggs: KCHQ 102.1, RA with country "Go Country", PC>4kw-H/579m, 43-42-42/111-20-56 Idaho Falls: KPLV 105.5, CC to KTHK, FC to country "The Hawk' Kamiah: KMEI-LP 97.3, PC>-79m, 46-12-46/115-59-19 Rigby: KKLU 89.5, CC to KLRU Rupert: KKMV 106.1, QR from 92.5, 25kw/761m, 42-20-06/113-36-15

#### **ILLINOIS:**

Chicago: WDRV 97.1, PR<8.3kw Chicago: WNUA 95.5, NS 3.1kw/482m, 41-52-44/87-38-08 (aux)



Clinton: WHOW-FM 95.9, RA with AC Eureka: WRVP 98.5, CC to WPIA Glasford: WPPY 101.1, CC to WVEL-FM Godfrey: WLCA 89.9, PR>1.5kw/120m, 38-56-57/90-11-47 Highland: WVIV-FM

103.1, PG 3.4kw/135m Jerseyville: WMLL 104.1, CC to WRDA, FC to standards "Red @ 104.1"

Joliet: WLLI 96.7, FC to AC "Star 96.7", CC to WSSR Lake Villa: WCLV-LP 101.5, CC to WLGS-LP Marion: WDDD-FM 107.3, CL to Johnson City denied Morris: WBEQ 90.7, PG 1.45kw/143m, 41-17-09/88-25-49, signs on //WBEZ 91.5 Chicago Morris: WYXX 103.1, FC to standards, CC to WCSJ-FM, PG>6kw Pekin: WPIA 98.5, FC to Christian hits "Hope 98.5" Round Lake Heights: WRLR-LP 101.5, calls for new station Shelbyville: WHBW-LP 93.7, calls for new station St. Joseph: WGNJ 89.3, PG 50kw/140m, 40-05-16/87-53-42 Streator: WYYS 106.1, PR>6kw Urbana: WRFU-LP 104.5, calls for new station INDIANA: Brazil: WSDM-FM 92.7, GA from 97.7 Boonville: WYXY 107.1, FC to contemporary Christian Charlestown (Louisville KY): WEGK 104.3, FC to classic country "Eagle 104.3" Cloverdale: WSPM 89.1, FC to religious (Indianapolis) Columbia City: WSHI 106.3, FC to soft AC "Sunny 106.3" Evansville: WNIN-FM 88.3, PC 16kw/263m, 37-59-01/87-16-13 Evansville: WNIN-FM 88.3, NS 21.5kw/225m (aux) Greencastle: WSPV 90.5, signs on with contemporary Christian, NW 15kw-V/133m, 39-41-19/86-42-03, CC to WIKL Huntington: WXKE 102.9, FC to standards "The River" (Fort Wayne) Jasper: WKJR 91.7, PR 2.6kw/84m, 38-25-23/86-49-47 Seymour: WQKC 93.7, NW 1.85kw/65m, 38-58-33/85-53-21 (aux)

South Bend: WUBS 89.7, PR>1.3kw/89m, 41-40-36/86-15-08

Spencer: WSKT 97.7, GA from 92.7

#### IOWA:

Adel: KIHS 88.9, PG<500w/63m, 41-36-09/94-02-55 Asbury: WJOD 103.3, PR<8.7kw/123m, 42-30-10/90-42-24 Boone: KBGG-FM 98.3, AF 28kw/114m, 41-49-51/93-43-53 (aux)

Council Bluffs (Omaha NE): KQKQ 98.5, shifts to Modern CHR with heavy emphasis on 90s hits, "Q98-5" DeWitt: KGYS-LP 92.5, calls for new station Emmetsburg: KEMB-LP 94.1, calls for new station Fairfield: KIIK 95.9, FC to Hot AC "Hot 96 FM" Madrid: KLRX 96.1, CC to KNWM

Madrid: KLKX 90.1, CC to KNWM Osceola: KJJC 106.9, CC to KNWI Pleasantville: KPBC-LP 94.1, calls for new station Stuart: KKRF 107.9, PC<94.kw/150m, 41-27-43/94-29-19 Waterloo: KFMW 107.9, XC 42-24-02/91-50-36

#### KANSAS:

Dodge City: KVPC-LP 100.5, calls for new station Enterprise: KBMP 90.5, PG 35kw/109m, 39-10-02/97-23-59



Medicine Lodge: KSNS 91.5, PC>48kw Wichita: KEYN-FM 103.7, PC>98kw

**KENTUCKY:** 

Bowling Green: WGGC 95.1, PA from Glasgow

Frankfort: WKYW 104.9, FC to country "Classic Country" Georgetown: WRVG-FM 89.9, FC to contemporary Christian "K-Love", sold to K-Love network

Hopkinsville: WHOP-FM 98.7, PR>189m, 36-55-41/87-32-50

Lawrenceburg: WKYL 102.1, PC>6kw

Madisonville: WKTG 93.9, AF 5.5kw/100m, 37-21-31/87-29-45 (aux)

Somerset: WKII 102.3, CC to WHMJ

Valley Station: WRVI 105.9, AF 890w/141m, 38-07-09/85-56-20 (aux)

Williamsburg: WEZJ-FM 104.3, PC>6.2kw/200m

#### LOUISIANA:

Alexandria: KOUZ 89.9, CC to KLXA

Alexandria: KZMZ 96.9, FC to classic rock "96-9 Rocks" Baker: WJNH 107.3, FC to classic country "Country Legends 107-3"

Benton: KSYR 92.1, FC to AC "Sunny 92.1" Franklin: KFMV 105.5, PR>6kw/93m

Hammond: WBBE 103.3, NW 50kw/273m, 30-24-03/90-50-40 (aux)

Lake Arthur: KVEE 107.3, CC to KJMH

Monroe: KOUS-LP 96.3, PG>31m, 32-26-04/92-06-17

Oil City: KVMA-FM 107.9, PR<24.5kw/163m, 32-29-36/93-45-55; CL from Magnolia AR

Shreveport: KRUF 94.5, PG 100kw/508m, 32-39-57/93-55-58

#### MAINE:



Fairfield: WCTB 93.5, FC to classic hits "The River" Rumford: WLOB 96.3, PG<36kw/443m, 44-15-06/70-25-24

Searsport: WFZX 101.7, simulcasting WNSX's new format

Winter Harbor: WNSX 97.7, FC to classic rock "The Fox"

#### MARYLAND:

Crisfield: WBEY 96.9, PR 1.4kw/113m, 38-01-45/75-45-05 Frederick: WYPF 88.1, now simulcasting WYPR 88.1 Ocean City: WEES-LP 107.9, NW ?w/75m, 38-24-59/75-03-24

Prince Frederick: WVSJ-LP 99.9, calls for new station

#### MASSACHUSETTS:

Amherst: WMUA 91.1, PC 450w/39m, 42-23-37/72-31-21 Boston: WERS 88.9, PR>5.3kw dismissed

Boston: WJMN 94.5, PC 9.2kw/353m

Easthampton: WBEC-FM 105.5, PA from Pittsfield

Fairhaven: WFHN 107.1, PC 5.4kw/105m, 41-38-25/70-55-03

Great Barrington: WBCR-LP 97.7, calls for new station

Nantucket: WNAN 91.1, PC>2.3kw/64m

S. Yarmouth: WOCN 103.9, PC>5.5kw/104m, 41-41-26/70-11-21



Westborough: WAAF 107.3, PR<3.8kw/243m, 42-23-02/71-29-37; CL from Worcester

#### MICHIGAN:

Bay City: WHNN 96.1, PR>451m, 43-33-11/83-41-28 dismissed

Benton Harbor: WVBH-LP 88.3, calls for new station Carrollton: WTCF 100.5, CC to WXQL, FC to rhythmic oldies "Kool 100.5"

Cass City: WIDL 92.1, PR>17.5kw/119m, 43-39-59/83-04-29; CL from Caro

Charlevoix: WWCZ 90.9, CC to WTCK



Eagle: WJOM 88.5, PR>10kw-V/88m, 42-48-32/84-47-06 Good Hart: WJOG 91.3, PR 5.45kw-V/203m, 45-30-29/85-02-10 Grand Rapids: WOOD-FM 105.7, AF

99kw/177m, 42-44-14/85-37-16 (aux)

Manistique: WPIQ 99.9, NW 6kw/46m, 45-58-13/86-11-06 Mt. Pleasant: WQOS-LP 98.9, calls for new station Newberry: WNBY-FM 93.7, PR>50kw/141m, 46-21-32/85-10-30

Norton Shores: WMBC-LP 100.9, NW ?w/38m, 43-09-52/86-17-30

Rogers Heights: WAQQ 88.1, calls for new station Sault Ste. Marie: WYSS 99.5, PG>100kw/77m Sault Ste. Marie: WSUE 101.3, PR<100kw/67m, 46-26-16/84-22-42

MINNESOTA: Austin: KNSE 90.1, signs on //KNOW 91.1 Bemidji: KKBJ-FM 103.7, PC>146m

Breckenridge: KLTA 105.1, flips to AC "FM 105.1" (Fargo ND)



Duluth: KDAL-FM 95.7, PG<221m, 46-47-15/92-07-21 Fergus Falls: KCMF 89.7, NW 2.7kw/66m, 46-19-12/96-05-32

Glenwood: KMGK 107.1, PR>25kw/100m, 45-44-39/95-08-05

Hibbing: WTBX 93.9, PR<162m, 47-22-24/93-00-48 Moorhead: KXBQ-LP 95.9, calls for new station Park Rapids: KDKK 97.5, PR>194m, 46-55-51/95-00-27 Springfield: KNSG 94.7, FC to AC St. Louis Park: KUOM-FM 106.5 and KDXL 106.5 (sharetime), PG>77m, 44-56-46/93-19-27 Willmar: KKLW 90.9, signs on with K-Love cont. Christian

MISSISSIPPI:

Brookhaven: WBKN 92.1, PR 3.4kw/92m, 31-33-49/90-26-27

Collins: WKNZ 107.1, FC to modern AC "The Zone" (Hattiesburg)

Hattiesburg: WUSW 103.7, FC to rock "103.7 The Fox" Jackson: WDBT 95.5, CC to WHLH Jackson: WUSJ 96.3, PR>391m



Kosciusko: WJTA 91.7, FC to AFR Okolona: WACR-FM 103.9, PR<120m, 34-12-18/88-41-49; CL from Columbus Picauyne: WKSY 106.1, PR 28kw/201m, 30-31-17/90-01-12 Pickens: WYJS 105.9, FC to black

gospel "Praise 105.9", CC to WOAD West Point: WKBB 100.9, FC to news-talk, PG 10kw/157m, 33-40-43/88-48-18

MISSOURI:

Bowling Green: KPCR 94.1, CC to KPVR Centralia: KSDC-LP 94.9, NW ?w/31m, 39-14-45/92-12-38 Cuba: KNLQ 91.9, NW 5kw/76m, 38-02-14/91-23-04, signs on with southern gospel DeSoto: KDJR 100.1, PC<2kw/106m Garden City: KFME-FM 105.1, NW 69kw/349m, 39-05-26/94-28-18



Houston: KUNQ 99.3, RA with classic country Ironton: KYLS-FM 95.9, PC<3.1kw/198m Monroe City: KWBZ 107.5, FC to classic hits, PC>10kw/100m Salem: KCVX 91.7, signs on with contemporary Christian,

NW 40kw/64m, 37-36-16/91-32-46

#### MONTANA:

Belgrade: KSCY 96.7, CC to KISN Big Sky: KBZM 104.5, PG 5kw/1017m, 45-16-41/111-26-57 Bozeman: KGLT 91.9, PC>12kw/261m, 45-57-25/111-22-11

Great Falls: KEHT 100.3, CC to KLSK

Great Falls: KGFC 88.9, PR 5.7kw/84m

Plentywood: KZLP-LP 104.1, calls for new station Sidney: KGCX 93.1, PR>100kw/110m, 47-51-51/103-57-27

#### NEBRASKA:

Bennington: KRQC 93.3, FC to classic country "US 93-3" Cozad: KAMI 104.5, CC to KCVN

Crete: KSLI 104.1, dropped "Kiss format", new format coming



Grand Island: KXLJ 88.3, CC to KKLU Holdrege: KMTY 97.7, PC<77m, 40-26-26/99-23-59 Imperial: KADL 102.9, PG 300w/68m,

40-30-45/101-38-39

Omaha: KGBI-FM 100.7, PR>368m, 41-03-01/96-11-33 Ord: KNLV-FM 103.9, PG>30kw/194m, 41-34-17/98-55-21 Plattsmouth: KCTY 106.9, FC to 80s/90s hits "Retro 106.9" (Omaha)

NEVADA:

Carson City: KWNZ 97.3, CC to KZTQ; FC to rock Fallon: KAVS-LP 93.9, calls for new station Garderville-Minden: KGVM 99.1,



PR>25kw Moapa Valley: KBHQ 104.7, simulcasting KDOX 1280 Las Vegas Reno: KNHK 92.9, CC to KURK Sun Valley: KYWD 93.7, CC to KWNZ, FC to rhythmic CHR

<u>NEW HAMPSHRE:</u> Dublin: WFCB-LP 100.3, calls for new station Hillsboro: WTPL 107.7, PG>1.25kw/217m, 43-09-17/71-

47-44 Jackson: WEVJ 99.5, NW 4.7kw/52m, 44-10-30/71-10-07

Lebanon: WVFA 90.5, signs on with religion Londonderry: WLLO-LP 102.9, NW ?w/12m, 42-55-08/71-

23-51

#### NEW JERSEY:

Bridgeton: WSNJ 107.7, signs off air, to reappear at 107.9 Canton: WJKS 101.7, PR



800w/155m Eatontown: WHTG 106.3, PC 1.1kw/161m, 40-16-41/74-04-51

Newark: WHTZ 100.3, NS 13.5kw/281m, 40-45-22/73-

59-12 (aux)

Union Township: WKNJ 90.3, PG>20w/48m, 40-41-35/74-15-44

#### **NEW MEXICO:**

Albuquerque: KFLQ 91.5, PR<20kw/1232m

Belen: KVLK 90.9, NW 10kw-V/49m, 34-23-44/107-00-42 Cloudcroft: KNMB 96.7, AF 190w/22m, 33-23-06/105-39-41 (aux)

Grants: KXXQ 100.7, signs on with country Grants: KDSK 92.7, PR 1kw/820m, 35-15-11/107-35-46

Hobbs: KROZ-LP 105.9, calls for new station Mesquite: KELP-FM 89.3, NW 3kw/56m, 32-05-05/106-44-

01 Tatum: KTUM 107.1, signs on with classic rock //KIDX

NEW YORK

Brighton: WZNE 94.1, AF 1kw/120m, 43-09-17/77-36-10 (aux)

Brockport: WMJQ 105.5, FC to K-Love contemporary Christian, PR>6kw/100m, 43-09-51/77-47-02 Cape Vincent: WBDR 102.7, FC to country "Kix 102.7", targeting Kingston ON



Calverton-Roanoke: WXXP 105.3, CC to WDRE Clifton Park: WDCD 96.7, CC to

WPTR Cortland: WDRX-LP 100.7, calls for new station

Frankfort: WKLL 94.9, FC to

standards, CC to WTLB-FM Garden City: WLIR 92.7, CC to WZAA, FC to Spanish //WCAA 105.9

Hampton Bays: WBON 107.1, CC to WLIR, FC to modern rock "The Box"

Jamestown: WMHU 101.9, CC to WHUG

Kingston: WKHV-FM 103.9, calls for new station Lake Luzerne: WBAR 94.7, PR>940w/253m

Lake Success: WKTU 103.5, NS 13.5kw/281m, 40-45-22/73-59-12 (aux)

Malta: WNYQ 105.7, PG 4.8kw/112m, 42-52-44/73-51-47; CL from Queensbury, PA from A to B1 Manilus: WAQX-FM 95.7, NW 20kw/44m, 43-00-25/76-05-

38 (aux)

New York: WWPR 105.1, WAXQ 104.3, WLTW 106.7, all NS 13.5kw/281m, 40-45-22/73-59-12 (auxiliary TX's) Oneonta: WJIH-LP 95.9, calls for new station Queensbury: WCQL 95.9, PG>380w/388m, 43-25-12/73-45-39; CL from Glens Falls



Ravena: WRCZ 94.5, PR>6kw/100m, 42-33-15/73-52-07 Rochester: WRMM 101.3, WCMF 96.5, WPXY 97.9 all: AF 1kw/120m, 43-09-17/77-36-10 (auxiliary tx's)

Rome: WRBY 102.5, FC to hot AC "Mix 102.5" (Utica), CC to WUMX

Scotia: WKRD 93.7, CC to WEGQ, FC to classic country "The Eagle" (Albany)

Smithtown: WMJC 94.3, shifts toward modern rock Syracuse: WLTI 105.9, NS 1.5kw/8m, 43-03-36/76-07-54 (aux)

Webster: WDCZ 102.7, CC to WRCI (Rochester) Westhampton: WDRE 98.5, CC to WBON

#### NORTH CAROLINA:

Aurora: WFPF 104.5, PR 4.2kw/120m, 35-18-09/76-34-00 Calabash: WYNA 104.9, FC to hot AC "Cool 104.9 and 100.7"//WGTN, PG>50kw/53m, 33-51-23/78-36-02 Farmville: WGPM 94.3, CC to WWGL Harrisburg: WCHH 92.7, FC to urban AC "Q92-7", CC to WQNC, picks up Tom Joyner Hatteras: WYND 97.1, PC>59kw/170m Kinston: WZBR 97.7, CC to WWNF Marble: WPTP-LP 95.1, calls for new station Moyock: WBHH 92.1, FC to soft AC "Lite FM", CC to WCDG Old Fort: WKSF 99.9, granted CL from Asheville Oriental: WNBR 94.1, CC to WWEA Roanoke Rapids: WRTP-FM 90.1, PR>11kw/154m Rocky Mount: WSAY 98.5, CC to WDWG Topsail Beach: WWTB 103.9, is silent Washington: WCZI 98.3, FC to soft AC, CC to WMUM Williamston: WCBZ 103.7, CC to WRHD

#### NORTH DAKOTA:

Bismarck: KBFR 91.7, NW 780w/106m, 46-49-38/100-46-28 Harwood: KDJZ 100.1, PR>40kw/100m, LIC modified to noncommercial Kindred: KFAB 92.7, PG 25kw/100m, 49-36-38/96-41-03

OHIO:

Ashville: WFCB 93.3, CC to WLZT, FC to soft AC "Lite" Athens: WEAK-LP 106.7, NW ?w/24m, 39-18-59/82-10-02 Beavercreek: WXEG 103.9, NS 1.5kw/133m, 39-43-36/84-12-23 (aux) Bellefontaine: WPKO 98.3, PG>1.75kw

Cadiz: WCDK 106.3, FC to classic rock "The River" Caledonia: WYNT 95.9, GA from Upper Sandusky Canton: WRQK-FM 106.9, XR 40-49-22/81-25-40 Dayton: WGXM 98.1, deleted



#### East Liverpool: WOGF 104.3, PG>23.5kw

Gahanna-Columbus: WCVO 104.9, SC to "The River" Georgetown: WAXZ 97.7, PR>6kw/100m, 38-46-50/83-51-55 Greenville: WDJO 106.5, FC to smooth jazz, CC to WDSJ Huber Heights: WOXR-LP 97.1, CC to WSWO-LP Lima: WNHC-LP 104.1, calls for new station Miamisburg: WFCJ 93.7, NS 50kw/72m (aux) Oxford: WOXY 97.7, PR>5.4kw/100m, 39-30-44/84-38-09 Shadyside: WEEL 95.7, FC to top 40 "Kiss", CC to WVKF Toledo: WKKO 99.9, XC 41-40-05/83-27-11 Troy: WOKL 96.9, PG>5.9kw/98m, 39-56-49/84-11-29 Union City: WTGR 97.5, FC to country "The Tiger' Zanesville: WJFZ-LP 104.1, calls for new station

#### OKLAHOMA:

Altus: KKVO 90.9, PR>4kw/250m, 34-58-39/99-24-35 Enid: KZIX-LP 101.5, calls for new station Grandfield: KWKL 89.9, NW 11kw-V/152m, 34-16-19/98-25-30

Healdton: KICM 97.7, PR 10kw/156m, 34-20-57/97-27-24 Lahoma: KXLS 95.7, PR>29.4kw/131m, 36-32-13/98-00-39 Seminole: KXTH 89.1, NW 2.3kw-V/118m, 35-12-53/96-44-26

Tahlequah: KEOK 101.7, PG>25kw/87m

#### OREGON:

Astoria: KJAC 88.7, calls for new station Bend: KPOV-LP 106.7, calls for new station Brookings: KSEP-LP 99.9, calls for new station Burns: KBWR-LP 98.1, NW ?w/-21m, 43-35-18/119-03-21 Canyonville: KPOL-LP 106.9, calls for new station Glide: KLBG-LP 92.3, calls for new station Harrisburg: KHRB-LP 92.3, NW ?w/2m, 44-16-21/123-10-15

John Day: KSPL-LP 98.1, calls for new station Klamath Falls: KKLJ 88.9, PR>110w/667m, 42-04-06/121-58-13

Medford: KLDZ 103.5, PR 100kw/146m, 42-17-13/123-00-15 Molalla: KRSK 105.1, PC<21kw/470m, 45-31-21/122-44-45 Monmouth: KSND 95.1, FC to AAA



Newport: KSHY-LP 94.3, NW ?w/36m, 44-39-10/124-03-09 Oakridge: KMKR 88.5, calls for new station, NW 400w-H/-392m, 43-44-27/122-26-50

Portland: KWJJ 99.5, SC to "The Wolf" Portland: KINK 101.9, AF 90kw/441m (aux)

Portland: KRRC 97.9, QC from 104.1, 4m

Portland: KUPL-FM 98.7, PC 11kw/362m (aux)

Roseburg: KRBG 88.1, CC to KMPQ

Roseburg: KLLF-LP 106.7, NW ?w/67m, 43-12-24/123-21-47

Veneta: KEUG 105.5, RA with Hot AC "105-5 Bob FM" Welches: KZRI 90.3, PG 235w-V/531m 45-20-01/121-42-45

#### PENNSYLVANIA:

Bloomsburg: WFYY 106.5, SC to "Y106-5" Brookville: WWJL-LP 95.9, calls for new station Carbondale: WCWI 94.3, FC to standards//WNAK 730, CC to WNAK-FM

Carlisle: WRKZ 102.3, FC to country "Red 102.3", CC to WCAT

Erie: WMCE 88.5, PG>750w/152m, 42-05-25/79-56-37 Fairview: WUSE 93.9, PC 6kw/91m, 42-01-36/80-07-18 Freeland: WKRZ 98.5, CL granted from Wilkes-Barre



Harrisburg: WRVV 97.3, PG<15kw/260m Hershey: WCAT 106.7, FC to Top 40 "Cool Pop 106.7", CC to WCPP Hollidaysburg:

WMAJ 104.9, FC to rock "Rocky 104.9", CC to WRKY Johnstown: WMTZ 96.5, NS 8.1kw/111m (aux) Linesville: WMVL 101.7, PG 1.4kw/169m Middletown: WZXM 88.7, calls for new station Philadelphia: WLDW 96.5, CC to WRDW; SC to "Wired 96.5"

Philadelphia: WMMR 93.3, NS 18kw/252m (aux) Philadelphia: WXTU 92.5, PR 15kw/277m Pittsburgh: WJJJ 104.7, CC to WPGB

Scranton: WGGY 101.3, PC>365m Starview: WHBO 92.7, CC to WSJW; FC to smooth jazz Tuckhannock: WCWY 107.7, CC to WBZR, simulcasting WC07-103 9

Tyrone: WGMR 101.1, shifts to Top 40 "The Revolution"

#### SOUTH CAROLINA:

Chester: WBT-FM 99.3, PC 7.7kw/182m, 34-47-30/81-16-06 Columbia: WARQ 93.5, SC to "Rock 93.5"



Folly Beach: WYBB 98.1, FC to active rock '98X' Gaffney: WAGI-FM 105.3, PC>374m, 35-24-52/81-46-31 Georgetown: WXJY 93.7, PC<96m, 33-16-05/79-17-49 Greenwood: WHZK-LP 97.7, calls for new station Kiawah Isl. (Charleston): WCOO

105.5, FC to classic hits "The Bridge" Kingstree: WWKT 99.3, FC to R&B oldies "Old School 99.3" (Sumter) Murrells Inlet: WYEZ 94.5, PR 12kw/145m

New Ellenton: WAJY 102.7, FC to contemporary Christian "Joy FM" (Augusta GA), PC>4.3kw/118m, 33-30-49/81-38-03 North Myrtle Beach: WNMI-LP 98.7, NW ?w/29m, 33-52-32/78-37-09

Summerton: WLJI 98.3, PR 2.45kw/159m, 33-47-06/80-21-50

Sumter: WICI 94.7, FC to hot AC "Mix 94.7" Wedgefield: WIBZ 95.5, PG>4.6kw/114m

#### SOUTH DAKOTA:

Rapid City: KLGH 88.3, calls for new station

#### TENNESSEE:

Columbia: WAYM 88.7, PC15.5kw/243m, 35-55-20/86-42-46 Crossville: WPBX 99.3, PR 6kw/55m

Elizabethton: WPJO 99.3, CC to WTZR, FC to modern rock "Z-Rock" (Tri-Cities) Gainesboro: WENV-LP 97.3, calls for new station

Germantown: WMPS 107.5, FC to CHR/Pop "Q107.5", CC to WHBQ-FM



Jackson: WMXX-FM 103.1, PC>42kw/164m Jamestown: WSAB-LP 92.5, NW ?w/120m, 36-25-51/84-58-03

Jasper: WJCR-LP 94.9, calls for new station Lawrenceburg: WLLX 97.5, PR 2.3kw/100m, 35-15-18/87-19-30 (aux)

Lexington: WZLT 99.3, FC to AC

Lobelville: WFGZ 94.5, FC to contemporary Christian "The Dove'

Martin: WCMT-FM 101.7, PG 22kw/94m, 36-29-00/88-57-10 Vonore: WTRL-LP 106.9, NW ?w/59m, 35-34-19/84-15-23

#### TEXAS:

49-32

Abilene: KVVO-LP 94.1, calls for new station Abilene: KHYS 100.7, FC to classic rock "100.7 The Eagle" Allen: KESN 103.3, PC 98kw/606m, 33-32-08/96-49-54 Austin: KMFA 89.5, NW 32kw/287m (aux) Bay City: KZBJ 89.5, PR>35kw/146m, 29-08-58/95-59-14 Bay City: KXGJ 101.7, PR>35kw/450m, 28-48-03/96-07-32

Brookshire: KQLC-LP 107.9, NW ?w/27m, 29-48-48/95-59-13 Brundage: KHIA-LP 97.5, calls for new station Cleveland: KORG-LP 105.3, NW ?w/41m, 30-20-52/95-05-20 Comfort: KCOR-FM 95.1, PG>100kw/282m, 29-50-26/98-



Dallas: KRBV 100.3, PC>97kw/474m, 32-32-36/96-57-32 Dallas: KERA 90.1, PC>100kw/388m Dallas: KLLI 105.3, PC

97kw/474m, 32-32-36/96-57-32 Devine: KSJL 92.5, FC to R&B "Hot 92-5" (San Antonio) Edinburg: KBFM 104.1, FC to rhythmic CHR "Wild 104" (Brownsville)

El Campo: KIOX 96.9, PR>450m, 28-48-03/96-07-32 Elgin: KKLB 92.5, PR>3.5kw/135m, 30-13-07/97-24-03 Fannett: KZFT 90.5, NW 35kw-V/110m, 29-53-33/94-08-06 Galveston: KOVE 106.5, NS 600w/225m, 29-45-26/95-20-19 aux Gonzalez: KQQT 106.3, FC to contemporary Christian "K-Love'

Hillsboro: KBRQ 102.5, AF 890w/144m, 31-30-51/97-11-44 (aux) Hutto: KQJZ 92.1, FC to contemporary Christian "K-Love" Ingleside: KCCG 107.3, CC to KRPX, FC to active rock "107-3 The X"

Jacksboro: KJKB 101.7, PR>100m, 33-19-43/98-16-46

Jasper: KWYX 102.7, PR>50kw/150m

Jasper: KJAS 107.3, PG>8kw

Laredo: KNEX 106.1, PC>54m

Lufkin: KLFK-LP 104.1, calls for new station, NW ?w/26m, 31-20-18/94-41-16

Madisonville: KMVL 100.5, FC to country

Marble Falls: KFGG-LP 101.9, calls for new station

Mercedes: KMAZ 106.3, CC to KHKZ, FC to top 40 "Kiss 106.3"

Midland: KCHX 106.7, FC to AC "Mix 106.7"

Perryton: KEYE 96.1, FC to classic hits

Plainview: KOLF-LP 100.7, NW ?w/29m, 34-11-41/101-42-02 Plainview: KBAH 90.5, PR>75kw/130m, 34-03-58/101-42-16 Point Comfort: KAJI 94.1, RA, simulcasting KZAM 104.7 San Angelo: KYZZ 100.1, PR>50kw/117m

San Antonio: KISS-FM 99.5, PG>453m

Santa Fe: KJIC 90.5, PC>7.7kw/177m

Stamford: KOES 106.9, CC to KLGD

Temple: KRYH-LP 104.7, calls for new station, ?w/52m, 31-05-56/97-21-53

Texarkana: KTXK 91.5, PC>100kw/93m

Waco: KXZY-LP 100.7, calls for new station

Wells: KVLL-FM 94.7, XR 31-24-32/94-50-09 dismissed

#### UTAH:

Blanding: KBDX 92.7, RA with contemporary Christian Brigham City: KRAR 106.9, simul. rhythmic KUUU 92.1 Huntsville: KPEB 103.1, PG 89kw/647m, 40-52-16/110-59-43 Levan: KCFM 96.7, signs on with Spanish "La Tierra" Manti: KMXU 105.1, CC to KNJQ Nephi: KMDG 103.9, CC to KUDE

N. Odgen: KNKL 88.7, signs on with K-Love cont. Christian Park City: KPCW 91.9, PR>120w/647m, 40-36-34/111-28-49 Provo: KZHT 94.9, CC to KMXU and then KHTB, FC to

modern rock "The Blaze" Randolph: KWKD 102.3, CC to KMDG and then KDUT, FC to regional Mexican "La Grand"



Salt Lake City: KISN 97.1, CC to KZHT, former 94.9 format moves to 97.1 as "97.1 ZHT"

Vernal: KLCY-FM 105.5, PG 3.3kw/518m, 40-32-16/109-41-57

#### VERMONT:

Hyde Park: WYTC-LP 89.1, calls for new station Lyndonville: WLYN-LP 106.7, calls for new station Randolph: WRAN-LP 100.1, NW ?w/120m, 43-57-20/72-36-18

Saint Johnsbury: WKXH 105.5, PC>1.25kw Warren: WMRW-LP 95.1, calls for new station

#### VIRGINIA:

Cape Charles: WROX 96.1, PR 23kw/220m

Charlottesville: WUMX 107.5, FC to smooth jazz, CC to WCJZ

Exmore: WROX-FM 96.1, CL granted from Cape Charles Front Royal: WFQX 99.3, PC>6kw/100m, 39-03-56/78-22-58

Midlothian: WJMA-FM 98.9, PR>7.3kw/183m, 37-36-52/77-30-56; CL from Orange, simulcasting country WCUL 103.1

Petersburg: WARV 100.3, simulcasting oldies WBBT-107.3 Poqouson: WKOC 106.1, CC to WPYA, PR 1.7kw/153m, 37-04-24/76-17-33, CL from Exmore, FC to Hot AC/Classic hits hybrid "Bob FM"

Powhatan: WBBT 107.3, flips to oldies "Oldies 107.3" Richmond: WFMC-LP 102.9, calls for new station Roanoke: WMGR-FM 104.9, PG>14.5kw

Vinton: WZZI 101.5, FC to oldies (Roanoke)

VirginiaBeach: WWHV 102.1, PC>100m, 36-45-07/76-08-57



Williamsburg: WYOU-LP 103.5, calls for new station Windsor: WJCD 107.7, FC to soft AC "Lite FM"//92.1 Moyock NC

#### WASHINGTON:

Amanda Park: KQHS-LP 105.5, calls for new station Basin City: KZLN 97.5, CC to KHTO



Deer Park: KAZZ 107.1, PR>25kw/100m Ellensburg: KXLE 95.3, PC 51kw/129m, 47-09-49/120-47-

Mabton: KLES 98.7, FC to spanish R&B, rock "Tekila" Republic: KETL-LP 100.5,

calls for new station

Seattle: KYPT 96.5, FC to classic alternative "K-Rock", CC to KRQI

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Spokane: KYRS-LP 95.3, NW ?w/30m, 47-31-58/117-26-20 Tacoma: KBTC-FM 91.7, CC to KXOT

WEST VIRGINIA: Benwood: WVJW-LP 94.1, LC dismissed Berkeley Springs: WDTF-LP 107.9, NW ?w/47m, 39-36-18/78-13-01 Bethlehem: WVKF 105.5, FC to oldies, CC to WUKL Buckhannon: WVPW 88.9, PC>259m Charleston: WKWS 96.1, SC to "The Wolf" Fairmont: WVFR-LP 99.7, calls for new station Gary: WHQX 107.7, PC>8.6kw/172m, 37-08-01/81-35-42; CL from Cedar Bluff, VA New Martinsville: WXCR 92.3, FC to classic rock Parkersburg: WHBR-FM 103.1, PG 2.1kw/171m, 39-21-00/81-33-56 Parkersburg: WAUA 89.5, PR<322m Salem: WVBL-LP 99.9, calls for new station Summersville: WMLJ 90.5, PR>11kw/315m

#### WISCONSIN:

Ashland: WRNC-LP 97.7, calls for new station Berlin: WBJZ 104.7, FC to country Eau Claire: WIEC-LP 102.7, calls for new station Fond Du Lac: KFIZ 107.1, CC to WFON Goodman: WMVM 90.7, PC>9kw/48m, 45-46-27/88-24-28 Marinette: WLWR-LP 107.7, PC>31m Neillsville: WPKG 92.7, signs on with Hot AC "Spankin' New 92.7 FM" Sauk City: WCJZ 96.3, CC to WMAD, FC to modern rock "Mad Radio" (Madison) Sturtevant: WEXT 104.7, SC to "The Wolf" Sun Prarie: WMAD 92.1, CC to WXXM, FC to hot AC "Mix 92.1", PG>3.7kw/125m, 43-10-10/89-15-38 Wausau: WDEZ 101.9, PC>98.5kw/329m Wausau: WHRM 90.9, PC>81kw/329m Wausau: WYCO 107.9, CC to WLRK

#### WYOMING:

Buffalo: KSLW-LP 99.5, NW ?w/-48m, 44-20-52/106-42-10 Cheyenne: KRRR 104.9, PC>25.5kw/35m, 41-08-04/104-41-32 Evanston: KOTB 106.1, PG 89kw/649m Gillette: KXXL 103.9 signs on with classic rock Pine Bluffs: KREO 105.3, PC>6kw/76m Teton Village: KJHR-LP 100.1, calls for new station

#### Some news and notes:

Bubba The Love Sponge and Clear Channel have severed ties, and the controversial shock jock will be off the air, at least for now, at WXTB (98X/Tampa), WJRR/ Orlando, WPLA and (Planet 93.3/Jacksonville). Howard Stern has also been pulled off all Clear Channel stations.

- In Hartford, from 10pm-2am Monday-Thursday, WKSS flips to alternative as "Channel 957"

-The Harrisburg market becomes more overcrowded with mainstream music as Citadel flips WCAT-FM to CHR as "Cool Pop 106.7", while moving WCAT's country format up the dial to 102.3. WHKF, WNNK, WLAN, WYCR all play similar music in Harrisburg.



- The death of 22-year old CHR KQKQ in Omaha happened on March 11<sup>th</sup>, as "Sweet 98.5" dropped the CHR

format. Another heritage CHR going down the tubes. What's wrong with CHR these days? Too much urban? It goes Modern AC as "Q98-5".

-Memphis finally gets CHR again as The Pig 107.5 flips to CHR as "Q107.5", taking the prestigious WHBQ call letters.

Welcome to the new version of FM news. I am your new editor, Adam Rivers. A big whatup to Mike for giving me this opportunity to help out the club, most importantly to Doug Smith for helping me with all of the technical data from the FCC which I otherwise would have no clue about; and to everyone else for taking the time to read this

I am always open to contact no matter what way you have to reach me; if you'd like you can email me at redsoxdxer417@hotmail.com; IM me on AOL at XxPatsRule417xX (for the two time champion New England Patriots), or send me a snail mail at the address above. Whatever way it is, I hope to do as best as I can serving the club with FM news. I'm looking for a lot of feedback on this first issue.

A lot of stuff in this column is retroactive to the last date that the column was published, therefore we've got a lot more than usual. Like the Red 104.1 format change in St. Louis happened on January 1<sup>st</sup>, but is still in this edition of FM news.



SATELLITE NEWS

GEORGE W. JENSEN 4604 ANTANNA AVE, Baltimore, MD 21206-4220 SCISATMAN@AOL.COM

The biggest events taking place in recent months are the dropping of West Coast feeds by major programmers - at least from the analogue side. AMC7 - most audio subcarriers have been dropped except WOKIE at 7>50 on XPDR 5 Satcom C4 - drop - XPDR 6 -The History Channel - West XPDR 24 - Country Music Television will move to Galaxy 10 XPDR 17 soon. Add - XPDR 101 - Starz Kids - West. XPDR 601 is now color bars only - not Bloomberg Galaxy 1 - XPDR 1 - Comedy Central West

- DROP. XPDR 6 - SPIKE West to be dropped. Add - 157 - Starz Kids - East Satcom C3 - XPDR 600 - Delete Bloomberg - only color bars and tests now Galaxy 13 has replaced Galaxy 9 and also has a Ku Band component called Horizons 1. Add XPDR 122 and 124 - Starz HDTV E and W

**Galaxy 5** -Delete XPDR 12 - Discovery West and Audio Subcarrier 6 6.43 -Brother Staires Radio Network the Overcomer

Galaxy 10 - XPDR 17 - Nickelodeon West will be dropped soon and be replaced by

Country Music Television. On the Ku side -The Jason Project has reappeared on XPDRs 100, 200, 300 and 400 with the Panama Project. I have never seen any programming on this venture - does anybody know what this is G-Star 4 at 105 West has been replaced by new AMC 2 - have no details as yet. Galaxy 4 - Ku - XPDR 643 - Game Show Network noted here -still on Galaxy 11 6666XPDR 6 **Telstar 6** - XPDR 7 - now Ten Exxxstacy VC2, XPDR 7 - PBS, XPDR 14 - delete Exxxstacv VC2 Galaxy 11 - Delete the following - XPDR 605 - KJLA and XPDR 606 - KXLA , and Crawford Communications barker on 800. Add the following - 601 - Bloomberg and 800 Blue Highways (NO it is not a porn channel). AMC 2 at 85 West has moved to Galaxy 9 slot and has been replaced here by AMC 9 which is both C and Ku Band (I think). That sums it up for this month - hope to see you in 30. Good DX and "73"s



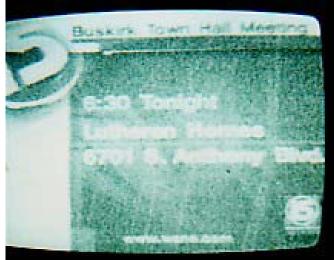


Jeff Kruszka, Editor 5024 S. Braxton Ave. Baton Rouge, LA 70817 jkruszka@bellsouth.net

April 2004

Here's some fantastic tropo photos from Roy Barstow of Teaticket, MA:





WXMI-17 Grand Rapids, MI 767 mi Tr seen 8/21/03 @0105 ET *"Wow! – jtk"*  WANE-15 Ft. Wayne, IN 755 mi Tr seen 8/21/03 @1000 ET







WAVY-DT-31 Portsmouth, VA 448 mi Tr seen 6/2/03 @1930 ET

WTKR-DT-40 Norfolk, VA 441 mi Tr seen 6/2/03 @2345 ET



Roy was very proud of his DX to the west on the evening of August 21, 2003 – he took 65 shots of the 3 stations printed! He even sent me a videotape. A rare event indeed, Roy! I know the feeling. I experienced the same when I received North Carolina by tropo last May.

And now one more photo, this is one of the first 7 ft. dish antennas made (circa mid-70's), owned by Roy. Roy personally screened it with regular window screen. It was on a 70 ft. Triex tower until one day, unfortunately, a storm broke the lower rotor housing and it sailed <u>70 feet</u> during a winter storm. What a shame!



73's,

JEFF

#### ATSC PRIMER Part VII DOUG SMITH

#### Special Temporary Authority:

As the transition table shows, a small majority (56%) of DTV stations on the air at the end of July 2003 were operating with special temporary authority. Almost always, this meant the station was operating at reduced power.<sup>1</sup> The amount of power reduction varies wildly. Just as an example, on channel 7 KOCO-DT Oklahoma City holds a STA for 10kw/35m; their full-power construction permit calls for 34kw/430m. At the same time and on the same channel, KTTW-DT Sioux Falls holds a STA for 20w/96m; their full-power CP calls for 65kw/126m. (and yes, that's <u>20 WATTS</u> on the STA.) A typical STA is that held by WPSD-DT Paducah, Kentucky, which calls for 4.47kw/74m on the studio-transmitter link tower at their offices in Paducah. WPSD's permanent DTV facility will be on their existing analog tower, running 906kw/492m. Network-affiliated stations in the 30 largest markets are <u>not</u> allowed to take advantage of STAs. They're required to build at full-power immediately.

STAs can be much less expensive than full-power operations. A FCC review of transition quotes a letter from Harris Corp.<sup>2</sup> claiming that it could equip a small-market station with a 500-watt DTV facility for less than \$160,000. Modest power increases could run up to \$625,000. Obviously that's still a <u>lot</u> of money, even for a TV station!

Right now, DTV allotments are being protected from interference on the assumption that stations are running full power. For example, no station that would interfere with WPSD's 906kw coverage will be authorized – even though WPSD-DT cannot be received through much of that area due to their temporary low power.

This interference protection will not be maintained forever. Originally, a deadline of the end of 2004 was set for commercial stations to begin full-power DTV operation. Stations still operating on reduced power at that time would be protected from interference only within their actual coverage area – not the area covered by the unbuilt higher-power facilities. Non-commercial stations got another year.

In this year's review of the DTV transition, the Commission agreed to suspend this deadline. They have promised to establish a new deadline during 2004 – and in any case, this deadline will be no later than the end of transition.

#### "City-grade" signal:

STAs must still provide a city-grade signal across the city of license. See the table below:

	Channels 2-6	Channels 7-13	UHF
Digital (initial)	28dBu	36dBu	41dBu
Digital (final)	35dBu	43dBu	48dBu
Analog <sup>3</sup>	74dBu	77dBu	80dBu

dBu means decibels above 1 microvolt per meter. DTV stations are required to comply with the increased "final" figures by the end of 2004 for commercial stations, the end of 2005 for non-commercial outlets.

Obviously, the definition of a "city-grade" signal is <u>much</u> weaker for digital than it is for analog. Some DTV stations have been built at a considerable distance from the associated analog station. WPXE-DT Kenosha, Wisconsin is located on a community tower on the north side of Milwaukee, roughly 25 miles north of their analog transmitter. WNPX-DT Cookeville,

<sup>1</sup>In a few cases STAs are for full-power operation on a different channel from the one originally alloted; temporary authority is necessary to use this channel pending its permanent assignment.

<sup>2</sup>A major manufacturer of broadcast equipment.

<sup>3</sup>To some degree these figures are "apples and oranges". Analog coverage is determined using the "F(50,50)" curves – the signal strength a station will have at 50% of locations 50% of the time. Digital coverage uses "F(50,90)" - 50% of locations <u>90%</u> of the time.

For example, consider reception of WCIQ-7 Mt. Cheaha, Alabama (316kw/610m) at a receiver 100km from the transmitter. The F(50,50) curves predict that WCIQ will deliver a 64dBu signal at this location. F(50,90) methods predict 56dBu at this location.

Tennessee transmits from a tower on the northwest side of Nashville, roughly <u>70</u> miles west of their city of license<sup>45</sup>.

#### LPTV:

LPTV stations do not get a second channel for digital. They may choose to switch to digital operation on their existing channel if they choose. To my knowledge WTHC-LP (channel 42) in Atlanta is the only LPTV to do so so far. Since there are no multiple-ownership regulations for LPTV, it is possible for a LPTV station to buy a second station and operate one as analog and the other digital. I have seen no indication that the FCC will <u>ever</u> ban analog operation by LPTVs. Maybe after transition, some full-power DTV stations will buy LPTVs to simulcast their signals in analog for viewers without digital sets?

While no specific date has been set, LPTV stations operating on channels 52-69 are on notice that their days are numbered. LPTV stations operating on channels to be used by full-power digital operations are also to be "bumped". Congress' creation of a "Class A Television Service" will protect LPTV stations qualifying for this service from being "bumped" by future digital stations, but Class A stations are still secondary to the digital facilities of <u>existing</u> full-power stations. Thousands of these LPTV stations have already filed for permission to move to lower channels. Many of these applications have already been granted, and indeed many stations are already operating on their new channels<sup>6</sup>. A few LPTVs will not be able to find a new channel and will have to go off the air.

#### Simulcast & receiver requirements:

There are a couple of miscellaneous FCC regulations regarding transition that don't fit into any of the other categories...

Stations are required to simulcast at least 50% of their analog programming on their digital station. This requirement increases to 75% on April 1<sup>st</sup>, 2004, and to 100% on April 1<sup>st</sup>, 2005. The regulations state these requirements will be repealed when the analog station is closed.<sup>7</sup>

Transition requirements have also been imposed on TV <u>receivers</u>. DTV tuners are required in new TV sets according to the following schedule:

Date	Receivers
July 1 <sup>st</sup> , 2004	50% of 36" and larger receivers.
July 1 <sup>st</sup> , 2005	All 36" and larger receivers; 50% of 25"-35"
	sets.
July 1 <sup>st</sup> , 2006	All 25" and larger receivers.
July 1 <sup>st</sup> , 2007	All 13" and larger receivers; all "reception
	devices" such as VCRs.

<sup>4</sup>WNPX-DT just <u>barely</u> meets the 41dBu figure from this location. They're running 733kW ERP and are on top of the tower at that site – there is no way they can increase their signal by 7dB from that location. In theory they'll have to move at the end of 2004, barring changes in the rules. (which their licensee has requested)

My guess is if the rules aren't changed, they'll change the city of license. A place like Mt. Juliet, Gladeville, or Gallatin will receive an 80dBu signal from their existing analog station on channel 28 and 48dBu from their DTV transmitter in Nashville. And since there's another TV station (WCTE-22) licensed to Cookeville, the channel 28 allotment can be moved without deleting Cookeville's only service.

<sup>5</sup>The 7dB increase in city-grade signal requirements applies to STAs as well.

<sup>6</sup>Some, however, have been rather slow about it. One LPTV station in Nashville didn't file for a new channel until after a new DTV signed on on the same channel. <u>Both</u> stations operated simultaneously on channel 36 for a week or two before the LPTV shut down pending a move to channel 48.

<sup>7</sup>I hope so!

# Eastern TV-DX

Matthew C. Sittel 15013 Eureux St. Bellevue, NE 68123 mcsittel@cox.net

#### April, 2004

## May, 2004 column deadline: Apr. 12

Eastern TV-DX is for reporters from the following states: AL, CT, DE, FL, GA, IN, KY, MA, MD, ME, MI, NC, NH, NJ, NY, OH, PA, RI, SC, TN, VA, VT and WV, plus Washington, DC. Also for reporters from the following Canadian provinces: NB, NF, NS, ON, PEI and PQ. Overseas reports welcome!

It's been a quiet start to 2004, judging from the lack of reports to this column! But skip season is just around the corner, so hopefully our screens will be filled with DX signals soon.

 Doug Smith, W9WI, Pleasant View, TN
 w9wi@earthlink.net<br/>http://www.w9wi.com

 1/12 Es<br/>0840 unIDs briefly to ch. 5, ch. 3 NBC & PBS<br/>former w/wx (41 degrees) and CST time
 2/12 Es<br/>1134 WFSB
 3 CT Hartford, CT weather

Saul Chernos, 57 Berkeley St., Toronto, ON M5A 2W5 (416) 364-0725 scher

schernos@sympatico.ca

<u>10/11/2003 tr (TO-Blu</u>	<u>ffs)</u>	0712 WBRE	28	PA	Wilkes-Barre, NBC
0650 WNPA 19	PA Jeanette	0715 WOLF	56	PA	Hazleton, Fox
0655 <u>WWPX</u> 60	<u>WV</u> Martinsburg, // 64	0720 WDCA	20	DC	Washington
0655 WQPX 64	PA Scranton, // 60	0730 <u>WPSX</u>	3	PA	Clearfield, PBS
0704 WPCB 40	PA Greensburg, // 47	12/28 tr (TO-Dow	/ntow	<u>/n)</u>	
0704 WKBS 47	PA Altoona, // 40	1030 CITY2	65	ON	Ottawa, // CITY-57
(Cornerstone)		1030 CFMT2	60	ON	Ottawa, // CFMT
0710 WVIA 44	PA Scranton, PBS	(Omni 1)			

Nice bit of tropo at the Scarborough Bluffs in eastern Toronto, to round out the year. WV is a new state for me for TV. Using various portable TVs with 5-inch screens, and a two-bay antenna that I can easily carry to the edge of the Bluffs, which overlook Lake Ontario to the south and southeast. 73s, Saul

#### Charles Gauthier, St-Lambert, PQ

#### tvfmdx@yahoo.ca

Equipment: JVC AV-20120 20" TV, JVC HR-S3800U SVHS VCR, Antennacraft 32 element VHF-UHF-FM antenna at 30' AG, CM9510A rotor, RG6 coax, Tin Lee MQ7-CH2S6P switchable notch trap for ch. 2 and 6, 20dB indoor "Provo" amplifier for UHF, Radio Shack FM trap.

<u>11/22/2003 tr</u> 1005 WPXG	21	NH	Concord	195	0250 0330	WSAV <u>WUND</u>			Savannah Columbia	1015 678
<u>11/24 tr</u>					12/28	tr				
0000 WUTV	29	NY	Buffalo	316	0105	WXXI	21	NY	Rochester	257
0005 WCDC	19	MA	North Adams	199	0105	WUHF	31	NY	Rochester	257
<u>12/14 Es</u>					2/12/2	2004 Es				
0210 WEDU	3	FL	Tampa	1309	1345	WTVY	4	AL	Dothan	1201
0230 WESH	2	FL	Daytona Beac	h 1218						

# WESTERN TV DX

VICTOR FRANK 12450 SKYLINE BLVD. WOODSIDE, CA 94062-4554 Victor.frank@sri.com



Dennis Park Smith, 3605 San Remo Drive, Santa Barbara, CA 93105-2523 (805)687-7803

This report is for Leap Year February 2004. Southern California coastal tropo conditions on TV-FM to San Diego/Tijuana (200mi/ 320km) did not exist most of the time, typical of this time of year when stormy unstable weather keeps stable air layers from forming.

Feb 1 –11: Feb 12: None (Feb 2 rain) Poor Feb 13 morning Feb 13 evening Feb 14-29: None Poor None (Periods of rain)

We haven't been over to Wasco lately, but were just informed of a late-February burglary at the Wasco house, as of this writing in early March. We are about to go over there to see what is damaged and missing, so more on that next time.

Best of DX to All.

Dennis

## Denon TU1500 RDP RDS Tuner



The Denon TU1500RD is my DX tuner of choice these days. RF performance is wonderful, and changing the IF filters (there are four of them) for better selectivity is very easy. It handles my high RF environment ( < 5 miles from 2 100 KW FMs ) better than any receiver I've ever tested. I like this tuner so much that I sold my Onkyo T9090II.

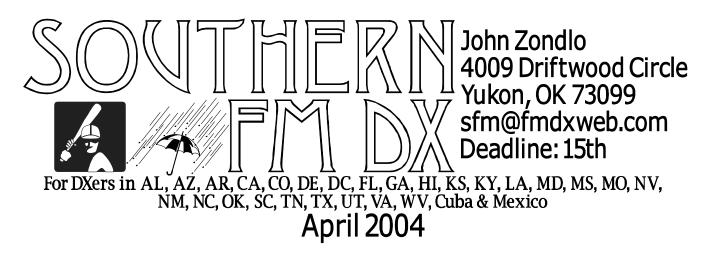
I notice that Denon now calls this tuner the TU1500RDP. Apparently the added "P" stands for "professional." Other than the name change, I can't see any difference between it and the older TU1500RD.

When you open the TU1500RD it looks like a gutless wonder inside... That's because most

of the components are surface mounted on the "underside" of the circuit board. There are very few components mounted on the "top" of the circuit board.

The TU1500RD does not automatically switch from narrow to wide IF mode while tuning. But it does have selectable Auto / Manual tuning mode. I always run mine in manual because in auto it wants to "scan" to the next fairly strong signal it finds (which is annoying). In manual it tunes "normally" in 100 KHz steps. However, in manual mode it won't do stereo. I think that's kind of odd, but it doesn't bother me for DX work. In either auto or manual, it retains whatever IF setting (wide or narrow) that you've selected. –Girard Westerberg

(Note: This Denon tuner currently retails for about \$300 on the internet, although one WTFDA member has been able to purchase one of these tuners on eBay for slightly over \$100.)



**Doug Smith** - W9WI - 1385 Old Clarksville Pike - Pleasant View, TN 37146-8098 - w9wi@w9wi.com - www.w9wi.com

<u>11/9 Gw</u> 1855 <u>W214BQ</u> 90.7 TN Brentwood, ID for several other KAWZ translators 28 <u>date unknown Gw</u> <u>WAYQ</u> 88.3 TN Clarksville, "Way FM" sometimes // WAYM-88.7 14 <u>2/12 Es</u> 1134 <u>WGBH</u> 89.7 MA Boston, calls 941



John Zondlo – 4009 Driftwood Circle – Yukon, OK 73099 – CST – All new

Akai AT-VO4 tuner (modified w/2 110 filters), APS-9B antenna w/Channel Master 9521A rotor at 16', Conrad RDS Manager

12/29 Es			
1952 WJGO	102.9	FL	Tice, calls
2008 WLLD	98.7	FL	Holmes Beach, r, "Wild"
	97.1		Holiday, r, "97-X"
2026 WTLT			Naples, local spots
2050 WSJZ			Sebastian, smooth j
2100 WNRW	98.5	FL	San Carlos Park, "The News Station"
<u>1/7 Es</u>			
1710 XHDNG			Durango, ads, "La Tremenda"
1717 XHMZT	93.1	SN	Mazatlan, baseball promo, local ads
<u>1/26 Es</u>		<b>.</b>	<b>. .</b>
	100.9	SN	Ciudad Obregon, "Maxima FM"
<u>2/1 Es</u>		<b></b>	
	101.3	SN	Los Mochis, "Stereo Uno"
<u>2/2 Es</u>	00 F	~	
			Culiacan, "La Comadre"
			Culiacan, "Exitos"
1933 XHNW			
1940 XHBL	91.9	SN	Culiacan, local mentions, spots



#### From the Editor

Looks like things have been pretty quiet all around this winter. The Es in February was a welcome surprise here. Trops started picking up a bit in March, but nothing spectacular. See y'all next month!



#### Beyond FM Beyond TV USA – CANADA Weather Radio Monitoring

Submit weather band loggings and weather radio news to Jason Koralja at: <u>jklbi01@hotmail.com</u> (Subject: WXDX)

## April 2004

#### Weather Radio Frequencies

WX1	162.550 MHz	WX6	162.500 MHz
WX2	162.400 MHz	WX7	162.525 MHz
WX3	162.475 MHz	WX8*	161.650 MHz
WX4	162.425 MHz	WX9*	161.775 MHZ
WX5	162.450 MHz	* =	Canada Only

#### NEWS: Feb. 5 to Mar. 4

FREQUENCY CHANGE - Dixon, MO - WNG648 has moved from 162.425mHz to 162.500mHz.

#### DX LOGGINGS (Jan.18 to Feb. 15)

No DX loggings were submitted this month. Loggings for February should be submitted before April 15<sup>th</sup>.

#### COLUMN NEWS

I want to feature YOUR TOWN as the listening site of the month! Please send me YOUR <u>*non-dx*</u> loggings before April 15 using the format below.

#### LOCATION OF THE MONTH

A monthly feature highlighting weather radio reception around the country during normal reception conditions.

#### St-Lambert, QC:

Frequency	Station	City	Quality
162.400	KIG60	Burlington, VT	Strong
162.400	XLR411	Trois-Rivieres, QC	Fair
162.425	WWG50	St-Johnsbury, VT	Good
162.450	XLM300	Montreal, QC	Strong
162.475	XLR412	Sherbrooke, QC	Fair
162.550	XLM300	Montreal, QC	Strong

(Submitted by Charles Gauthier, St-Lambert, QC)

#### WEATHER RADIO LINKS

www.weatherradio.info

www.nws.noaa.gov/nwr/



## **CLING TO ME!**

It won't cling to you but it will cling to glass. Stick this cling on the inside of a car window or a window in your home. Let everyone know you're a WTFDA member! Just **\$2.00 each** for a removable cling. We'll even mail it to you in your next VUD!

Send your check or money order for \$2.00/ea (payable to Dave Janowiak) to WTFDA, P.O. Box 501, Somersville, CT 06072. Specify red or yellow clings.

FINE PRINT: Permanent decals are available upon request for \$2.00 a pair (two). PLEASE SPECIFY REMOVABLE CLINGS OR PERMANENT DECALS WHEN ORDERING.

## WTFDA 2003 FINANCIAL REPORT

Opening balance on January 1, 2003	\$6,310
Receipts:	
Revenue from dues, samples, guides, and miscellaneous	\$7,868
Expenses:	
VUD publishing, subscriptions, and PO box rental	\$7,809
Operating Margin (receipts minus expenses):	+\$59
Closing Balance on 12-31-2003	\$6,369

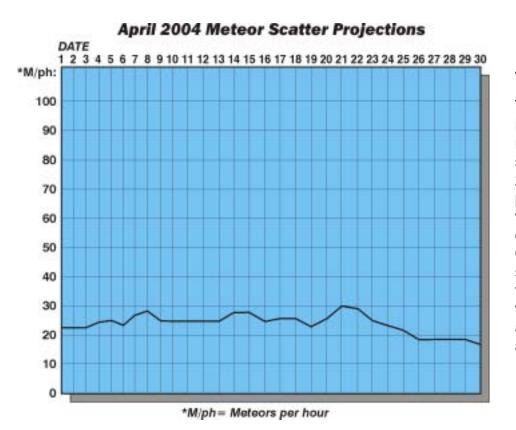
NOTE

The WTFDA realized a small profit of \$59 in 2003. This profit was less than the profit in 2002 due to larger VUDs and less income from TV station guides in 2003.

Submitted 3-1-04 Dave Janowiak WTFDA Treasurer

## METEOR SCATTER GUIDE FOR APRIL 2004

CHART COURTESY OF JIM THOMAS



Jim says:

The only interesting item to notice this month is the Lyrids shower, peaking April 22 @ 02:45 UT.... peak of 10 per hour, with occasional bursts of up to 100 per hour. Other than that, just a slew of tiny showers through the month that will put the hourly average slightly above average.

## WTFDA MEMBERSHIP LIST

AS OF MARCH 8, 2004

Robert E.	Fischer	Fairbanks	AK	4/30/2005	
Les	Rayburn	Helena	AL	4/30/2004	les@highnoonfilm.com
David S.	Cox	Birmingham	AL	3/31/2005	dsc256@bellsouth.net
Todd	Emslie	Sydney	AUS		toddemslie@yahoo.com.au
Eric	Sundius	Sierra Vista	AZ	7/31/2005	esundius@theriver.com
Kevin	Redding	Mesa	AZ	5/31/2005	amfmdx@fastq.com
Rick	Lewis	Phoenix	AZ	6/30/2004	ricklew@shellworld.net
Mike	Femyer	Phoenix	AZ	6/30/2004	mikef1435@hotmail.com
Steve	McDonald	MAYNE ISLAND	BC	7/31/2004	jsm@gulfislands.com
David A	Sinclair	Vancouver	BC	5/31/2004	davidasinclair@yahoo.com
Mike	Cherry	Salt Spring Island	BC	5/31/2005	mcherry@saltspring.com
Howard	Krinsky	Pismo Beach	CA	8/31/2009	howard51@NetZero.net
Albert P.	Gordon	Del Mar	CA	1/31/2005	al.gordon@adelphia.net
Frank E.	Drobny	Valencia	CA	3/31/2005	
Joseph B.	Martin	Los Angeles	CA	7/31/2005	jj13@att.net
Dennis Park	Smith	Santa Barbara	CA	8/31/2004	
S.P.	McGreevy Prod.	KEELER	CA	8/31/2004	mcgreevy@auroralchorus.com
Roderick	Thompson	Sacramento	CA		rodthompson@ix.netcom.com
Chester	Jaffee	Berkeley	CA	12/31/2004	
James	Roggentine	Modesto	CA		zardot2@yahoo.com
Victor	Frank	Woodside	CA	1/31/2005	victor.frank@sri.com
William J.	Higgs	Mountain View	CA	2/28/2005	whiggs@gmapro.net
Wolfgang	Schneiter	CANOGA PARK	CA	12/31/2004	
Alphonse B	Tobia	Newark	CA	6/30/2004	al2@earthlink.net
Steve	Naetzker	RIALTO	CA	4/30/2004	loranimal@mail.com
Kenneth	Alexander	AURORA	CO		kpathai@hotmail.com
James E.	Thomas	Milliken	CO		mrradiohead@netzero.com
Mike	Bugaj	Enfield	CT		mbugaj@snet.net
Bill	Nollman	Farmington	CT		lisa-bill@sbcglobal.net
Mike	Roth	Morris	CT	3/31/2004	mdroth@sbcglobal.net
Brian	May	FAIRFIELD	CT		bsm905@aol.com
John	Kosinski	STAMFORD	CT	2/28/2005	newsrx@macconnect.com
Octavio Couso		Ciudad Habana	CUBA	5/30/2004	octaviocouso@yahoo.es
Jesus	Perez	HABANA-5	CUBA	8/31/2004	jesperale@yahoo.es
Bill	Black	WASHINGTON	DC		billbdc@worldnet.att.net
Daniel	Oetting	NEW CASTLE	DE		d_oetting@hotmail.com
Dave	Bright	Tallahassee	FL		davebright5@hotmail.com
Jim	Gill	Bradenton	FL		jgill002@tampabay.rr.com
Juan	Gualda	FT. PIERCE	FL	2/28/2005	gualdaj@bellsouth.net
Lee	Freshwater	Ocala	FL	8/31/2006	engwtrs@aol.com
Clifford	Rames	Miami ST. PETERSBURG	FL	9/30/2004	crames@att.net
Carlon	Howington		FL	1/31/2005	an ideaman @aal aam
Gary A.	Olson	Sarasota	FL	1/31/2005	govideoman@aol.com
Jeffrey D.	Lockwood	Tallahassee	FL	6/30/2004	lockwoodjdl@cs.com
Howard Kermit D	Fountain_Jr. Reid	Cumming CUMMING	GA GA	8/31/2004 5/31/2004	howardf@mindspring.com
	Rogers	Rising Fawn	GA	3/31/2004	
George Nick	Lombardi	Atlanta	GA	7/31/2003	
James	Snow	Darien	GA	9/30/2005	
Melvin G.	Dishong	Kennesaw	GA	8/31/2003	
John O.	Broomall	CANTON	GA	1/31/2004	johnbroomall@yahoo.com
Neil					
		BAINBRIDGE	GA		
Ulrich	Griffin	BAINBRIDGE	GA GFR	3/31/2004	ngriffin@tfn.net
Ulrich Bob	Griffin Onken	Lorrach	GER	3/31/2004 5/31/2006	ngriffin@tfn.net uli.onken@gmx.net
Bob	Griffin Onken Langridge		GER IA	3/31/2004 5/31/2006 5/31/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net
Bob Jerry	Griffin Onken Langridge Rappel	Lorrach Cedar Rapids	GER IA IA	3/31/2004 5/31/2006 5/31/2004 6/30/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com
Bob Jerry Ben	Griffin Onken Langridge Rappel Cox	Lorrach Cedar Rapids Osceola	GER IA IA IA	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com
Bob Jerry Ben Robert J.	Griffin Onken Langridge Rappel Cox Williams	Lorrach Cedar Rapids Osceola Twin Falls	GER IA IA IA ID	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com
Bob Jerry Ben Robert J. Frank	Griffin Onken Langridge Rappel Cox Williams Aden_Jr.	Lorrach Cedar Rapids Osceola Twin Falls Boise	GER IA IA IA ID ID	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com
Bob Jerry Ben Robert J. Frank Dave	Griffin Onken Langridge Rappel Cox Williams	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS	GER IA IA IA ID ID IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com
Bob Jerry Ben Robert J. Frank Dave Andy	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston	GER IA IA ID ID IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com
Bob Jerry Ben Robert J. Frank Dave	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS	GER IA IA IA ID ID IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com
Bob Jerry Ben Robert J. Frank Dave Andy William Richard	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin Eckberg Porter	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston Dixon WOOD DALE	GER IA IA ID ID IL IL IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004 2/28/2005	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com dxshack@1staccess.net
Bob Jerry Ben Robert J. Frank Dave Andy William Richard Curtis	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin Eckberg Porter Sadowski	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston Dixon WOOD DALE PAXTON	GER IA IA ID ID ID IL IL IL IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004 2/28/2005 7/31/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com dxshack@1staccess.net curtis_sadowski@hotmail.com
Bob Jerry Ben Robert J. Frank Dave Andy William Richard Curtis Jeff	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin Eckberg Porter Sadowski Kadet	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston Dixon WOOD DALE PAXTON Macomb	GER IA IA ID ID IL IL IL IL IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004 2/28/2005 7/31/2004 9/30/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com dxshack@1staccess.net curtis_sadowski@hotmail.com jkadet@macomb.com
Bob Jerry Ben Robert J. Frank Dave Andy William Richard Curtis Jeff Robert L.	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin Eckberg Porter Sadowski Kadet Delaney	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston Dixon WOOD DALE PAXTON Macomb Mt. Vernon	GER IA IA ID ID IL IL IL IL IL IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004 2/28/2005 7/31/2004 9/30/2004 10/31/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com dxshack@1staccess.net curtis_sadowski@hotmail.com jkadet@macomb.com ka9uvy@hotmail.com
Bob Jerry Ben Robert J. Frank Dave Andy William Richard Curtis Jeff Robert L. Steven	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin Eckberg Porter Sadowski Kadet Delaney Branch	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston Dixon WOOD DALE PAXTON Macomb Mt. Vernon CHAMPAIGN	GER IA IA ID ID ID IL IL IL IL IL IL IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004 2/28/2005 7/31/2004 9/30/2004 10/31/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com dxshack@1staccess.net curtis_sadowski@hotmail.com jkadet@macomb.com ka9uvy@hotmail.com sbranch7@aol.com
Bob Jerry Ben Robert J. Frank Dave Andy William Richard Curtis Jeff Robert L. Steven Timothy W.	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin Eckberg Porter Sadowski Kadet Delaney	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston Dixon WOOD DALE PAXTON Macomb Mt. Vernon	GER IA IA ID ID IL IL IL IL IL IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004 2/28/2005 7/31/2004 9/30/2004 10/31/2004 6/30/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com dxshack@1staccess.net curtis_sadowski@hotmail.com jkadet@macomb.com ka9uvy@hotmail.com
Bob Jerry Ben Robert J. Frank Dave Andy William Richard Curtis Jeff Robert L. Steven	Griffin Onken Langridge Rappel Cox Williams Aden_Jr. Allen Bolin Eckberg Porter Sadowski Kadet Delaney Branch Cronin	Lorrach Cedar Rapids Osceola Twin Falls Boise GLENDALE HGTS Charleston Dixon WOOD DALE PAXTON Macomb Mt. Vernon CHAMPAIGN Worth	GER IA IA ID ID IL IL IL IL IL IL IL IL IL	3/31/2004 5/31/2006 5/31/2004 6/30/2004 4/30/2004 7/31/2004 6/30/2004 1/31/2005 5/31/2005 6/30/2004 2/28/2005 7/31/2004 9/30/2004 10/31/2004 6/30/2004 11/30/2004	ngriffin@tfn.net uli.onken@gmx.net rlangrid@infionline.net ww0e@juno.com twister_94@yahoo.com robtwms72@itlink.com n7sok@aol.com allenamy41@cs.com dxshack@1staccess.net curtis_sadowski@hotmail.com jkadet@macomb.com ka9uvy@hotmail.com sbranch7@aol.com

Aaraa	Nitto rlino r	Moreeur		2/24/2005	
Aaron Peter	Mitterling Oprisko	Warsaw Whiting	IN IN	3/31/2005 1/31/2005	mitterling@email.com
James H	Montgomery	Poseyville	IN	5/31/2005	jmmonty@evansville.net
Steve	Rich	INDIANAPOLIS	IN	7/31/2003	srich@indyradio.com
James	Gould	KOKOMO	IN		jhgould@netdirect.net
Ralph M.	Strobel	Muncie	IN	7/31/2004	rstrobel@bsu.edu
Greg	Barker	GREENSBURG	IN	3/31/2005	gregbarker@webtv.net
Ed	Norris	Logansport	IN	12/31/2004	gregbanter e webtvinet
Bob	Timmerman	Ft. Wayne	IN	7/30/2004	bob@timmerman.com
Roosevelt	Crawford	Junction City	KS	8/31/2004	
Paul	Swearingen	Topeka	KS	7/31/2004	plsbcbdxer@aol.com
Ron	Wing	Wichita	KS	8/31/2004	
Dave	Pomeroy	Topeka	KS		zzpomer@washburn.edu
Mike	DeRoo	Roeland Park	KS	6/30/2004	mderoo@kctv.com
Milton C.	Bay	BROOKSVILLE	KY	4/30/2004	cleon@ekns.net
Hale	Glen	GEORGETOWN	KY	2/28/2005	glen.hale@adelphia.net
Girard	Westerberg	Lexington	KY	12/31/2004	gwesterberg@dxfm.com
Jeff	Kruszka	Baton Rouge	LA	6/30/2004	jkruszka@bellsouth.net
Danny	Oglethorpe	Shreveport	LA	5/31/2004	doglethorpe@yahoo.com
Leslie W.	Green	Plaquemine	LA	8/30/2004	
Richard_J.	Cabral	DARTMOUTH	MA	4/30/2004	rick@rjcabral.com
Adam	Rivers	Chicopee	MA	12/31/2004	patriotsrule417@yahoo.com
Alan	Michalek	Springfield	MA	7/31/2004	
George	Mileon	DUXBURY	MA	5/31/2004	georgemi@gis.net
Jeffrey	Lehmann	HANSON	MA	8/31/2004	jlehmann@mediaone.net
Garrett	Wollman	FRAMINGHAM	MA	6/30/2004	
Wallace H.	Dickson	Millis	MA	1/31/2005	hawkwind@webtv.net
Steven	Solomon	Yarmouthport	MA		mcv@makkayradio.com
Bill	Grant	WORCESTER	MA	4/30/2004	wgrant@emrpc.org
Mark	Casey	HAMPDEN	MA		map@map.com
Allan G.	Dunn	Holbrook	MA	3/31/2005	missingmaia@comcast.net
S. Kaimbridge	Hood	N. Beverly	MA	1/31/2005	kaimbridge@programmer.net
Stan	Morss	BOXFORD	MA	8/31/2004	
Peter Q	George	Whitman	MA	5/31/2004	radiojunkie1@yahoo.com
Paul H.	Hansen	Marlborough	MA	2/28/2005	phhansen@ma.ultranet.com
Robert	Rush	HOLYOKE	MA	7/31/2004	
Bill	Smith	Douglas	MA		smith575@yahoo.com
Paul E.	Kinnaly_ Jr.	Dedham	MA	9/30/2004	
Roy	Barstow	Teaticket	MA	7/31/2005	roybarstow@hotmail.com
Keith	McGinnis	Winthrop	MA	6/30/2004	longwave@attbi.com
Morris	Sorensen	Winnipeg	MB	2/28/2005	mosor2002@yahoo.ca.
Joseph	Kureth_ Jr.	Uniontown	MD	3/31/2005	
Charles	Tumosa Mancuso		MD MD	7/31/2004	ctumosa@scmre.si.edu
Gus Jeff	Wolf	CHEVERLY	MD	4/30/2004	
William G.	McGuire	Silver Spring Cheverly	MD	2/28/2005 7/31/2004	williammcguire616@hotmail.com
George W.	Jensen	Baltimore	MD	7/31/2004	scisatman@aol.com
William W	Thompson	Cheverly	MD	4/30/2005	viverett@smart.net
Calvin A.	Glover_Jr.	Baltimore	MD	7/31/2004	ncla@flash.net
Thomas	Yingling_ Jr.	Baltimore	MD		ka3tcc@verizon.net
Alfred A.	Laun III	Temple Hills	MD	6/30/2004	k3zo@arrl.net
Benjamin L.	Greenlaw	Portland	ME	7/31/2004	
Roderick	O'Connor	Southwest Harbor	ME	5/31/2004	
Wayne	Benkinney	Burton	MI	9/30/2004	
Jim	Paige	STERLING HEIGHTS	MI	6/30/2004	
Keith K.	Smith	LANSING	MI	4/1/2004	vgmc@webtv.net
James J.	Nahirniak	Warren	MI	2/28/2005	<b>v</b>
Timothy J.	Clampit	Brooklyn	MI		tjc2@frontiernet.net
Bruce F.	Elving_ Phd.	Esko	MN		FmAtlas@aol.com
Melvyn E.	Larson	Rochester	MN	12/31/2004	
Ronald P.	Purdue	Byron	MN		ronaldpurdue@prodigy.net
Paul	LaFreniere	GRAND MARAIS	MN		plafren@boreal.org
Randall	Trapp	Dodge Center	MN	11/30/2004	
David F.	Legler	Rochester	MN	3/31/2004	
Glen	Boche	South St. Paul	MN	7/31/2004	gboche@msn.com
John	Ebeling	Bloomington	MN		ijebeling@aol.com
JOHN		HERMANTOWN	MN	7/31/2004	ryan317@email.com
Ryan	St. Arnold		1 A A A I	7/31/2004	71117.20047@compuserve.com
Ryan Fred	McCormack_ Jr.	St. Paul	MN		
Ryan Fred Eric S.	McCormack_ Jr. Bueneman	Hazelwood	MO	11/30/2004	n0uiheric@aol.com
Ryan Fred Eric S. David	McCormack_ Jr. Bueneman Flottman	Hazelwood Columbia	MO MO	11/30/2004 7/31/2004	n0uiheric@aol.com deflottman@msn.com
Ryan Fred Eric S. David John R	McCormack_Jr. Bueneman Flottman Tudenham	Hazelwood Columbia Joplin	MO MO MO	11/30/2004 7/31/2004 8/31/2004	n0uiheric@aol.com deflottman@msn.com w0jrp@earthlink.net
Ryan Fred Eric S. David John R Chris	McCormack_Jr. Bueneman Flottman Tudenham Carter	Hazelwood Columbia Joplin Brookhaven	MO MO MO MS	11/30/2004 7/31/2004 8/31/2004 6/30/2004	n0uiheric@aol.com deflottman@msn.com w0jrp@earthlink.net chrispc2@bellsouth.net
Ryan Fred Eric S. David John R	McCormack_Jr. Bueneman Flottman Tudenham	Hazelwood Columbia Joplin	MO MO MO	11/30/2004 7/31/2004 8/31/2004 6/30/2004 7/31/2004	n0uiheric@aol.com deflottman@msn.com w0jrp@earthlink.net

James	Brann	Chapel Hill	NC	1/31/2005	jbrann@webtv.net
Daniel	Bartek_ Jr.	Wahoo	NE	8/31/2005	
Matthew C.	Sittel	Bellevue	NE		mcsittel@cox.net.
Michael	Hawk	OMAHA	NE	6/30/2004	thisisatest22@yahoo.com
Laurence	Weisberg	Manchester	NH	4/30/2004	
Larry	Weil	Salem	NH	10/31/2004	KC1IH@mediaone.net
Joseph A.	Esser	Summit	NJ	7/31/2004	
Joseph	Fela_ Jr.	S. Plainfield	NJ	9/30/2004	pinfella@aol.com
Rick	Shaftan	Sparta	NJ		shaftan@ptd.net
William	Burrows	Gloucester	NJ	6/30/2004	Wabr101@erols.com
Robert P.	Smolarek	High Bridge	NJ	8/31/2004	smolarek@worldnet.att.net
Michael	Temme-Soifer	Mays Landing	NJ	5/31/2004	mtsdx@earthlink.net
James	Alexander	VOORHEES	NJ	6/30/2004	jal965@aol.com
Jason	Koralja	SURF CITY	NJ NJ	4/30/2004	
Ted S. Paul	Liszewski Mount	Paramus	NJ	11/30/2004 6/30/2004	pmount@att.net
Timothy	Johnson	Albuquorquo	NM	5/31/2004	tim1735@aol.com
Paul	Mitschler	Albuquerque ALBUQUERQUE	NM	1/31/2005	1111755@a01.com
Harry	Helms	LAS VEGAS	NV	5/31/2004	ak6c@earthlink.net
Jim	Pizzi	North Las Vegas	NV	3/31/2004	Pizzi_001@msn.com
Michael W	Lapinski	LAKEWOOD	NY	6/30/2004	
Karl J.	Zuk	Katonah	NY		n2kz@arrl.net
Peter	Giacopelli	Massapequa	NY		dypete@aol.com
John	Ridge	Brooklyn	NY	9/30/2004	johnrid@aol.com
George	Hamer	BrooklyIn	NY	10/31/2004	l'
James	Renfrew	Byron	NY	9/30/2004	renfrew@localnet.com
Steven P	Sprachman	Hicksville	NY	8/31/2004	joystespr@webtv.net
Robert	Seybold	Silver Creek	NY	10/31/2004	
Scott	Fybush	Rochester	NY	8/31/2004	scott@fybush.com
John F.	Vervoort	BRONX	NY	5/31/2004	
Ryan	Grabow	MASSAPEQUA	NY	3/31/2004	ryan@egrabow.com
Paul	Crego	Lockport	NY	3/31/2004	pc54m@aol.com
Charles	Burnham	Southold	NY	4/30/2005	cburnham@optonline.net
Owen P.	Wood	Fabius	NY	5/31/2005	
Mike	Lazaro	Guilderland	NY	6/30/2004	ranger@albany.net
Tim	Katlic	PENFIELD	NY	3/31/2004	tkatlic@rochester.rr.com
Guy T.	Falsetti	Lockport	NY		gfalsetti@adelphia.net
Richard	Lucas	ROCHESTER	NY		rlucas@dawnbreaker.com
Andrew	Mackenzie	Greenville	NY NY	3/31/2004	capitalgold@hotmail.com
Jerry Bill	Bond	Rochester Buffalo	NY	5/31/2004 1/31/2120	jlbond1@rochester.rr.com
Richard	Thompson Wertman	Lockport	NY	5/31/2004	rwsvcinc@localnet.com
Eric	Fader	Briarcliff Manor	NY	4/30/2004	fades@earthlink.net
Frederic J	Nordquist	Clay	NY	5/31/2004	nordquis@twcny.rr.com
Gerard	Hart	Niagara Falls	NY	3/31/2004	ghart@adelphia.net
Gregory R	Coniglio	ALDEN	NY	5/31/2004	wgrc@rochester.rr.com
David	Nieman	TONAWANDA	NY	3/31/2004	nieman@localnet.com
Charles	Bernth_Jr.	Eastport	NY	6/30/2004	niteowl4@optonline.net
Robert	Cooper	Mangonui Far North	NZ	1/31/2120	skyking@clear.net.nz
Lawrence R.	Marecki	Cleveland	OH	12/31/2004	
John	Hourigan	WAYNESVILLE	ОН	7/31/2004	jphourigan@msn.com
William R.	Mitchell	Columbus	OH	10/31/2005	eastsyc272@aol.com
Mark	Meece	Franklin	ОН	1/31/2005	radioscan@siscom.net
George C.	Greene	Akron	OH		74367.3305@compuserve.com
Joe	Perge	Newark	OH	3/31/2004	jmperge@yahoo.com
Gary	Siegel		OH	7/31/2005	
Larry Lee	Back	MIDDLETOWN	OH	1/31/2005	
Keith R.	Short	Columbus	OH	10/31/2004	
David	Shapiro	NORMAN	OK	2/28/2006	shapirodavid@earthlink.net
Gary	Hickerson	ARKOMA	OK	5/31/2005	aboutoor@bottoot!
Glenn	Hauser	Enid Yukon	OK OK	8/31/2004	ghauser@hotmail.com fmdxweb@cox.net
John Niel	Zondlo Wolfish	Toronto	ON	7/31/2004 6/30/2004	neil@ican.net
Walter	Patton	North York	ON	7/31/2004	กษาษางสา.118เ
Bruce	Hall	Brantford	ON		dbruceaa@hotmail.com
John	Griffiths	Burlington	ON	5/31/2004	
Roger	Gravelle	St. Thomas	ON	5/31/2004	
	Hepburn	GRIMSBY	ON	3/31/2005	xmj225@rogers.com
William			ON	9/30/2004	
William FJ		Brampton		3/30/2004	
FJ	Issard	Brampton Toronto			schernos@svmpatico.ca
		Brampton Toronto London	ON ON ON	7/31/2006	schernos@sympatico.ca robross@sympatico.ca
FJ Saul	Issard Chernos	Toronto London	ON		schernos@sympatico.ca robross@sympatico.ca gaultd@tricolour.queensu.ca
FJ Saul Robert S	Issard Chernos Ross	Toronto	ON ON	7/31/2006 5/31/2004	robross@sympatico.ca

Randy	Miltier	Ashland	OR	7/31/2004	miltier@internetcds.com
John M.	Adams	Seaside	OR	11/30/2004	
Lenny	Goldberg	Ashland	OR	11/30/2004	lenny@cdornotcd.com
Dave	Williams	REDMOND	OR		beansdad@bendcable.com
Robert	Seaman	Hazelton	PA	9/30/2004	seaman robert@hotmail.com
Emily	Keene	UNIONTOWN	PA	2/28/2005	emkeene@helicon.net
John	Zeis	Exton	PA	2/28/2005	
Russ	Edmunds	Blue Bell	PA		wb2bjh@yahoo.com
Harry J.	Hayes	Wilkes-Barre	PA		hjhdesign@aol.com
Dan	Cashin	Havertown	PA	3/31/2004	dcsckp@aol.com
Jeffrey	Kitsko	Latrobe	PA		jjkitsko@home.com
Jon W.	Erdner	Canonsburg	PA		itsasset@aol.com
Steve	Chudoff	Philadelphia	PA	12/31/2006	
Eldon	Geiman	Greencastle	PA		Eldonjoy@yahoo.com
Luis	Franceschi	Ponce	PR	3/31/2004	
Charles	Gauthier	SAINT-LAMBERT	QC		gcharles@look.ca
Shawn	DeCesari	PROVIDENCE	RI		usroute1@cox.net
Franklin David	Austin	Columbia	SC	6/30/2004	DavidAustin@sc.rr.com
Duane	Donovan	Beaufort	SC	5/31/2004	ddonovan@islc.net
Douglas E	Smith	Pleasant View	TN	7/31/2004	w9wi@w9wi.com
Tom	Bryant	Nashville	TN		tjbdx@comcast.net
Stephen H.	Ponder	HOUSTON	TX		n5wbishp@blkbox.com
Pat	Dyer	San Antonio	TX	3/31/2004	pjdyer@swbell.net
Steven C.	Wiseblood	BROWNSVILLE	TX		stevenwisebl@hotmail.com
Michael	Friedel	PASADENA	TX	8/31/2004	N5SRE@swbell.net
Joseph R.	Gragg	Palestine	TX	9/30/2006	NSONE @Swbell:Het
Chip	Kelley	Dallas	TX	7/31/2004	ckelley@metronet.com
James A	Brown Jr	Arlington	VA	3/31/2005	w5drp@aol.com
Edward R.	Cotton	Chesapeake	VA	3/31/2004	would would would be addressed and a second se
Tim	McVey	Warrenton	VA		tkmcvey@erols.com
William	Hein	TOPSHAM	VT	8/31/2004	tkinevey@erois.com
Stanley E	Weisbeck	Spokane	WA	6/30/2004	stanw@rocketmail.com
Peter V.	Taylor	Tacoma	WA		taytac@worldnet.att.net
John	Jefferson	Auburn	WA		jjjj@connectexpress.com>
William H	Lindsay III	Lynwood	WA	7/31/2004	william.h.lindsay@boeing.com
John M	Lentz	Muskego	WI	8/31/2005	dxer@wi.rr.com
Edward	Ritchie_ Jr.	MILWAUKEE	WI		erjr@worldnet.att.net
Bill	Dvorak	Madison	WI	3/31/2004	dxerak@aol.com
Michael	Parks		WI	5/31/2004	
Roderick C.		Amery Madison	WI	9/30/2004	
	Jorgenson	MILWAUKEE	WI	2/28/2004	steady12@earthlink.net
Robert John C.	Steadman		WI		johnmarx@chorus.net
	Marx	Madison	WI	6/30/2004	froehlichpl@wibamail.com
Paul William	Froehlich	LODI	WI		noemichpie wibamail.com
William J.	Draeb	Kewaunee		3/31/2004	
Nathaniel	Ely	Madison	WI	2/28/2005	hudvar@batmail.com
Dave	Janowiak	Greenfield	WI		tvdxer@hotmail.com
John J.	Rieger	S. Milwaukee	WI		johnjrieger@webtv.net
David M.	Wurl	Marshfield	WI	12/31/2004	
James A	lvil	Colliers	WV	4/30/2005	
Donald F.	Niles	Clarksburg	WV	11/30/2004	donniles3627302@webtv.net

Membership count as of 3/8/04: 268.

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## WEAK SIGNAL TECHNIQUES PART II

BOB COOPER

Because there is noise, external noise brought in by the antenna and internal noise generated by the receiving equipment, it is important to understand where the 'thresholds' of noise occur. Or, how weak a signal can be and still be detected on a TV set.

If we employ 'state-of-the-art' masthead pre-amplifiers in each frequency band, and properly install these mastheads directly at the output terminals of the antenna (before the downline begins), the real-world thresholds are as follows:

Band I - minus 37 dBmV/14 microvolts Band III - minus 39 dBmV 11 inicrovolts

#### Bands IV/V - minus 45 dBmV: 5.6 microvolts

To achieve these threshold numbers (the signal level at which you can detect the presence of a 'frame-bar' on the screen) requires a 2.0 dB noise figure masthead at bands I and III, and a 0.5 dB noise figure unit at bands IV/V. Note these are not watchable pictures (not even TASO 6); just detectable signals. Actually measuring signal levels this weak is not possible using conventional installer signal level field strength meters. Knowing these threshold points, however, gives you a 'feel' for where you are when you are surveying a site for possible installation.

#### THE MATH OF MASTHEADS

The quality of the pictures delivered to a customer depends primarily upon the ratio between the signal (the good guy) and the noise (the not-so-good guy). There is only one signal source; the (usually distant) desired transmitter (DT). Recall there are at least two families of noise in our ratio.

1) The noise collected, along with signal, by the antenna, and

2) The noise generated by the receiving system.

When electricity is applied to a circuit, electrons 'move' or flow. When this happens, a series of random pulses is created; pulses of broadband static, as it were; noise. The only way to silence this electron-agitated-pulse train is to turn off the electricity; and cool the circuit itself to a temperature of -273 C; absolute zero. A circuit with no electricity and so cold no electron movement can take place is totally quiet. It is also a very poor amplifier in this state.

If we can't shut it off, and we can't cool it down to absolute zero, well ... we just have to accept noise.

#### REACHING THE REAL-WORLD NOISE THRESHOLD FLOOR

Noise generated within the receiving system (system: 'Masthead through video and audio amplifiers in receiver proper') can be reduced to the system threshold floor by careful selection and installation of a suitable masthead amplifier. Using modern pre-amplifier technology, a masthead noise figure (n/f) as low as 0.5 dB is possible. This represents an improvement of from 15 dB (at band I) to 10 dB (at UHF) over TV receiver noise figures (thresholds) normally established by the (higher noise figure) TV RF tuner stage in the receiver.

Conversely, at band I and III frequencies (4 to 230 MHz), noise originating from man-made sources (such as power lines, combustion engine ignition systems) will very rarely be lower than the equivalent of a 2.0 DB masthead noise figure at an antenna receiving site. As a practical matter, masthead amplifier noise figures lower than 2.0 dB within bands I and III are not useful since the antenna system receives a constant background noise from manmade sources equivalent to a 2 dB noise figure: or more. Only in very remote, rural areas will 'background noise' from manmade (or cosmic) sources be so low as to make a masthead pre-amplifier with a noise figure below 2 dB useful.

At UHF (bands IV and V) frequencies, while it is possible to have background noise as great as 4 to 6 dB. it is equally possible to have antenna sites where the background noise is well below 2DB equivalency. Thus at bands IV and V. space-age GaAs-FET masthead amplifiers with noise figures in the 0.5 dB range can be beneficial. Fortunately as technology has advanced, substances which generate less noise when used as amplifiers have been found. Gallium Arsenide or GaAs is one such substance. GaAs configured as a field-effect-transistor (FET) produces a GaAS-FET and with this as a starting point amplifier circuits which create noise figures in the 0.5 dB and under region are now commonplace through SHF (super high frequencies).

At frequencies below 300 MHz, while some GaAs-FET amplifiers are available, such uses are typically limited to very narrow bandwidth receiving systems where the noise floor can be reduced with selective receiver filtering. For a TV signal occupying a 6.105 MHz bandwidth, a GaAs-FET amplifier at 50 or even 200 MHz is much like installing a Chevy V8 in a V W Bug. You can never realize the potential of the GaAs-FET at these frequencies given the ambient noise levels of the VHF range in a 6.105 MHz bandwidth.

At frequencies above 500 MHz the antenna-induced ambient noise levels (ie., man-made and natural) have diminished to the point that installations in reasonably quiet locales can actually benefit from noise figures under 1 dB; even in a 6.105 MHz demodulated bandwidth.

Alas, whether you are attempting to use a 2 dB noise figure conventional masthead amplifier at bands I and III, or, a 0.5 dB noise figure GaAs-FET pre-amplifier at 600 MHz, there are very important procedures which must be followed.

a) Match Loss. The antenna in your system, whether a single yagi/log or a multipleantenna-stacked array, has a nominal impedance. Your masthead amplifier also has a nominal impedance. The two must be the same (ie., matched) or the impedance mis-match will result in energy (signal voltage) loss in the antenna-to-masthead connection process.

1) Many consumer oriented antennas are 300 ohm. Virtually all properly designed masthead amplifiers are 75 ohms; input and output. The standard practice is to place a 300 ohm *I* 75 ohm (balanced to unbalanced) weatherproof (ie., outdoor) transformer between the antenna and the pre-amplifier.

Ask yourself how do you select your matching transformers? By their price? The packaging? Or, because they come from the same supplier as your antennas?

Most balun matching transformers are installed and seldom considered as potentially <u>very destructive</u> elements in an antenna system installation. Here's what you should be considering.

2) Baluns often use ferrite wound transformers to achieve the impedance adjustment between 300 and 75 ohms.

3) Especially at UHF, unbalance of the 300 ohm side is a common design flaw. When there is a bad match at the 300 ohm side of the transformer, the antenna you are connected to sees a mis-match which creates an undesirable effect known as standing waves (high VSWR) at the antenna output terminal. This mismatch reduces the transfer of energy from the 300 ohm antenna to the 75 ohm side of the matching transformer. It may also create coupling of signal voltage to the antenna support structure and the shield of the 75 ohm coaxial line. None of this is good; signal is lost (without hope of retrieval).

Let's hop to the bottom line. *An out-of-the-catalog matching transformer using ferrite winding cores will lose no less than I dB of signal at 600 MHz; as much as 2.* That's lost signal, as in gone forever. You can reduce this loss to less than 0.2 dB at 600 MHz by carefully sourcing the matching transformers you are forced to use in your systems.

A slightly harder problem to visualize is the physical placement of the masthead amplifier. We all know it is called 'masthead' because it goes on the mast at the head of the system. But how often does this become the bottom of the mast because you didn't think you were going to need/use a masthead, and then once you knew you needed one, well, it was far easier to insert it into the line at the roofline then at the actual antenna!

Here's the harder-to-visualize part.

Any signal loss, no matter how seemingly small, between the output connector on the antenna and the input connector on the masthead amplifier, is lost forever. You will never gain it back, no matter how much amplifier gain you stick in the system after the point of amplifier insertion. How's that true?

Isn't voltage to be lost, and re-gained, at will; with an amplifier? Voltage, yes. Except when we are dealing with a signal + noise to noise ratio (SNR), the signal voltage alone is not the determining factor in the quality of the customer's picture. SNR is a ratio, between the signal the noise. Unless carefully engineered, an amplifier raises the voltage (the 'S' in SNR) and at the same time increases the 'N' as well. Stay tuned.

The noise figure of a planned receiving system is established by the first of the system. We don't count the antenna as a stage but everything between the antenna output and the first active (voltage operated) amplifier is a stage. If we exit the (300 ohm) antenna terminals with a matching transformer and it has 2 dB conversion loss, and then go through what we would like

to think of as a short length of RG-6/U with 1 dB more loss <u>before</u> we plug into the active (masthead) amplifier, there is now 3 dB of signal loss between the antenna output terminals and the masthead input terminal (2 -I- I 3).

If this is a band IV UHF system and a 0.5 dB noise figure GaAs-FET masthead amplifier has been installed, we might expect the system noise figure to be set at 0.5 dB\_by that 0.5 dB GaAs-FET pre-amplifier.

#### Wrong.

The 2 dB matching transformer loss plus the 1 dB makes this example system a 3 dB noise figure receiving system no matter what we do from the masthead amplifier onwards. In fact, the system would produce the same quality pictures with a 2 dB or even 3 dB noise figure masthead amplifier as it will with the 0.5 dB GaAs-FET unit! By not placing the masthead amplifier directly at the antenna system output terminal, you have degraded the system noise figure (ie., threshold of sensitivity) by all of the loss between the output of the antenna and the input to the masthead.

The math behind this valid statement is lengthy but the facts solid; that is why satellite dishes install the LNA (low noise amplifier) right into the feedhorn on the dish; to eliminate all loss between the feed and the LNA (masthead).

And needless to say if you have tried to improve the picture quality on a previously installed home system by tacking on a masthead amplifier at the back of the TV set after 20 or 30 meters of RG-6U between antenna and the TV set and wondered why the improvement was disappointing ... well, now you know.

Let's restate these very important points.

1) Impedance mismatch between the antenna output and the input to the masthead amplifier is lost energy never to be regained. How serious is this? Consider the 3 dB loss in our just-cited example. 3 dB is equivalent to cutting your antenna system in half; ie., the effective gain of your antenna just went down 50% because you gave away 3 dB between the antenna output and the masthead input. Pretty sloppy.

2) Any loss, whether due to impedance mismatch or because you have placed coaxial line between the antenna output and the masthead amp input, is signal lost forever. You cannot get it back in your all-important signal noise to noise equation: the one that counts when monitored on your customer's TV screen!

And this it-should-be-obvious-but additional point. When you have two or more separate antennas to be combined into a single downline (such as separate band I and III antennas, or, a VI-IF to a UHF antenna), what do you suppose happens when you follow the antenna-combiner with a masthead amplifier?

Nothing good, rest assured. If you are installing in an area where you have plenty of margin for error (and giving away signal), continue your unpure habits. But, if you are always fighting for the last dB of signal and routinely joining (combining) antennas before masthead amplifying, change your ways. Here's why.

A two-way splitter employed as a signal combiner joining dissimilar antennas does undesirable things to the impedance seen by the masthead amp; especially if the combiner is closely followed (a meter or less of cable) by the amp. The loss in the combiner is permanent loss never to be recovered. The combined-side that will suffer the most is usually the UHF antenna; normally it will be the weaker of the two (signal) sides (although it could be the VHF side or band III side when combining band I and III antennas). Mismatch effects vary quite unpredictably.

Certainly it is desirable to bring down a single transmission line to the TV set with all signals intact. The purist way of doing this is to:

1) Employ a masthead with two separate inputs; one specifically for UHF, one for VHF (examples: the Fringe Electronics UV1228 or Kingray MHW34T where gain is required at VHF and UHF; the Fringe Electronics WB22V or Kingray MHU34T where only UI-IF gain is required). This eliminates the combiner.

2) Or, although more expensive, employ two separate mastheads (one for each antenna) with a combiner following the mastheads that passes thru-power to both amplifiers, and a power supply capable of powering two mastheads.

Note: If you have plenty of signal to burn, or only require amplified signal because of

subsequent signal splitting/ distribution, skip the masthead altogether and install a multipleoutput distribution amplifier inside the house, powered directly from AC mains.

Which brings us to masthead amplifier gain. How much is enough?

The real purpose of a masthead amplifier is to improve the signal + noise to noise ratio of the received signal(s). This happens only when the noise figure of the masthead is lower than the noise figure of the TV set to follow. and when the gain of the masthead is sufficient to override the noise figure of the TV set (VCR tuner). The computation of how much gain is enough involves taking the known noise figure of the TV tuner VCR tuner, the noise figure plus gain/loss of all subsequent stages (RFTF) in the receiver to the detector, and subtracting any losses such as the loss of the transmission line between the output of the masthead and the input to the tuner. It might require 30 minutes or so to calculate one situation. We can summarize for you.

#### 20DB OF GAIN

This is almost always sufficient gain to establish the noise figure of the masthead (assuming you have not placed loss between the antenna output and the input to the masthead) as the noise figure of the receiving system. There is an exception to this generalized rule; UHF when you have substantial line losses between the output of the masthead and the input to the TV tuner.

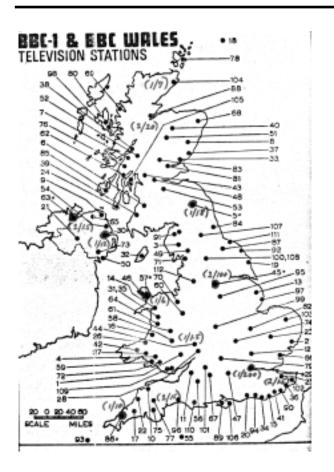
Those losses can be in the form of cable loss (10.4db per 100 metres at channel 40 when using 11 Foam series cable), splitter loss (at least 4 db – perhaps more- for each two-way splitter), or a combination of the two.

Generally speaking, the TV tuner has a noise figure. The masthead voltage gain needs to be no less than 3db greater than the noise figure of the TV tuner after losses between the masthead and the TV tuner have been subtracted.

Keep in mind the masthead voltage gain must be no less than 3db greater than the noise figure of the TV tuner after line and possible split losses between the two if you are to establish the noise figure of the masthead as the new system noise figure.

Warning! If your input signal(s) are strong, it is not advisable to use a masthead amplifier as a substitute for a distribution amplifier. The transistors chosen for masthead units are selected because of their low noise characteristics, not because of their signal handling capabilities. Using a masthead designed for pre-amplification in a medium to strong signal area (with two or more signals available through the masthead) can result in amplifier overload and cross modulation. Conversely, distribution amplifiers (typically offering two to eight bridge outputs) make poor substitutes for masthead amplifiers, lacking the necessary low noise figures and weak-signal amplifying circuits.

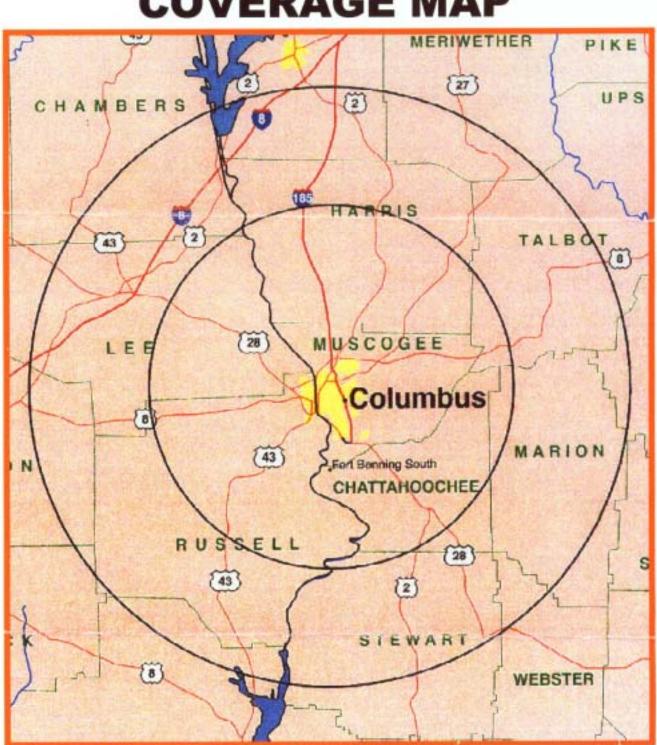
(to be continued)



## ONCE UPON A TIME...

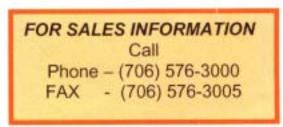
There were actually VHF TV stations in the United Kingdom. Yes, there were! And many of these low band VHF stations were heard here in North America by TV DXers like WTFDAer Bill Grant, who supplied this map of VHF transmitters given to him by the BBC.

What happened to them? Well, they all got pushed to UHF because of interference problems and a super source of overseas TV DX disappeared! Sad, but true. But it *was* true, once upon a time.









(Thanks to Dr. Bruce Elving for the coverage map.)

## Worldwide TV-FM DX Association 2004 Annual Convention Omaha, NE, July 30-August 1, 2004

Make plans now to attend the annual WTFDA convention, hosted this year by Matthew Sittel and Michael Hawk.

Our host location for the event is the Park Plaza Regency Lodge, located at 909 South 107<sup>th</sup> Avenue in Omaha, conveniently located one block east of the I-680 exit at Pacific Street. The hotel room rate for the convention is \$79/night for two doubles or one queen bed. This rate includes a complimentary hot breakfast with waffles made to order. All rooms feature a microwave, refrigerator, coffee maker, iron, in-room safe and radio with CD player. There is also a small business center with internet access. To make your reservations and receive the special rate, the hotel has asked that you call them directly at (402) 397-8000. *Be sure to mention WTFDA to get the \$79 rate; we have a block of rooms set aside for us at this rate!* 

We have received permission from Park Plaza to set up antennas. Feel free to bring along your favorite DX equipment and try it out-hopefully we'll have some DX! Bring along video or audio tapes and photos of your DX to share; we'll have equipment set up to share your catches.

The registration fee for the convention is \$28, which includes the Saturday night banquet on-site at the Park Plaza. You can purchase additional banquet tickets for spouses or other guests at the rate of \$24 per additional meal.

If you plan on attending, please take a moment to fill out the form below and mail it along with check or money order for fees to **Matthew Sittel**, **15013 Eureux St.**, **Bellevue**, **NE 68123**. Registration deadline is June 30, 2004. If you have questions e-mail Matt at <u>mcsittel@cox.net</u> or Mike at <u>thisisatest22@yahoo.com</u>.

We hope to see YOU at WTFDA 2004 Omaha!

## CONVENTION 2004 REGISTRATION FORM

Name :							
Address:							
E-mail: Fee Number Total Registration : \$28 x =	Name :						
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Additional banquet tickets: \$24 x =	Registration :		\$28	x	=		
	Additional banquet tickets:		\$24	x	= _		
Total amount enclosed (check/money order, payable to Matthew Sittel):							

SIGN UP/Renewal form							
Name							
Address	Apt #						
City State/Prov	Zip						
Country Interests: TV() FM() 3	0-50() Weather()						
email address							
Sign me up/renew me for: 1 year () 2 years	() More()						
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Jeff Kruszka, 5024 S. Braxton Ave., Baton Rouge, LA 70817 EASTERN TV DX	jkruszka@bellsouth.net						
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Victor Frank, 12450 Skyline Blvd., Woodside, CA 94062-4554 SOUTHERN FM	victor.frank@sri.com						
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 WEBSITE
 Tim McVey Webmaster http://www.anarc.org/wtfda/
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