

# DX MONITOR

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INTERNATIONAL  
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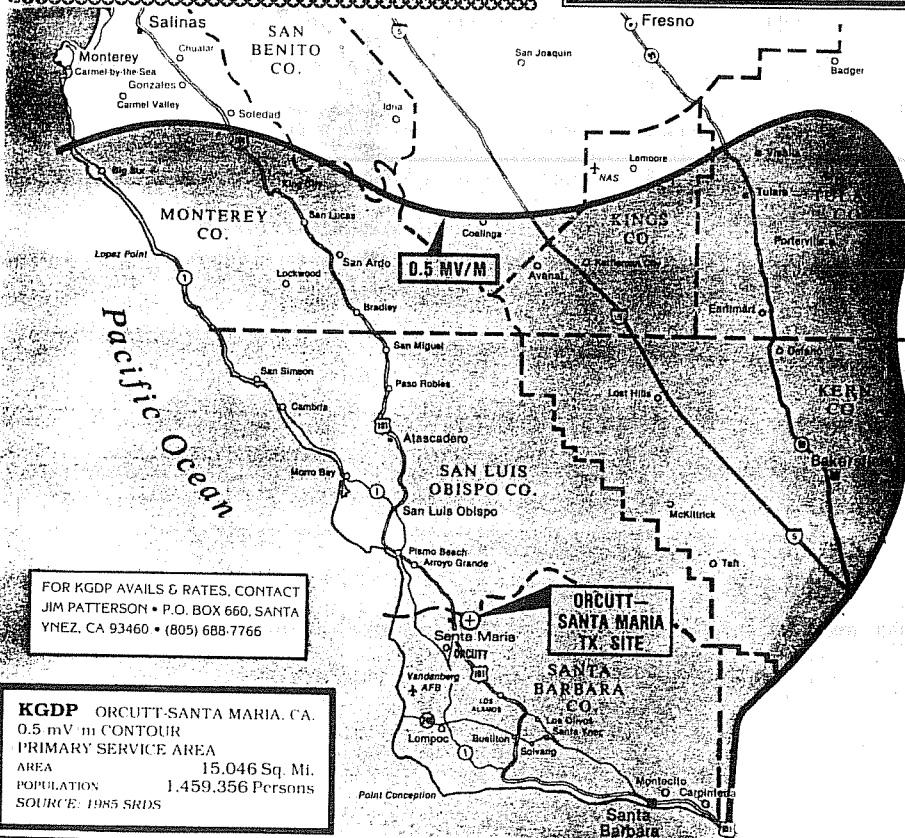
## Flash Tips

**KGDP-660** in Orcutt-Santa Maria, CA will hit the air soon. Jim Hilliker says they will be on in 30-60 days, per a phone call to them. They'll be 10/1kw w/3 towers at the Santa Maria city landfill. Format is religion w/morning news blocks. Glen Kippel sent a coverage map for them, part of which is reproduced below. Jim says their addr is POB 420, Santa Ynez, which differs from the one below.

**WBZ-1030** had a fire at their transmitter site, causing a temporary change in their pattern. See the story on page 8 for details.

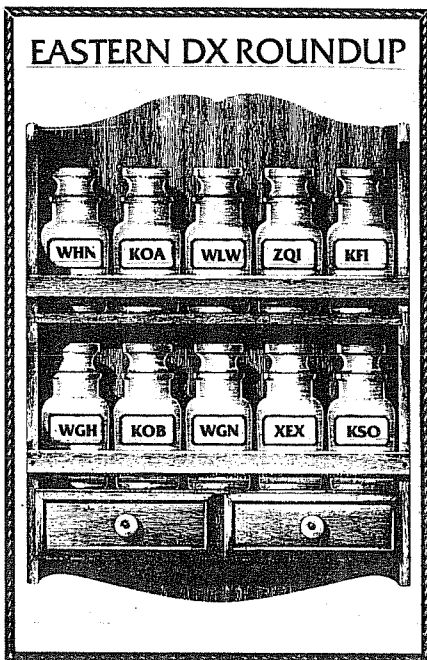
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FOR KGDP AVAILS & RATES, CONTACT  
JIM PATTERSON • P.O. BOX 660, SANTA  
YNEZ, CA 93460 • (805) 688-7766

**KGDP** ORCUTT-SANTA MARIA, CA.  
0.5 mV m CONTOUR  
PRIMARY SERVICE AREA  
AREA 15,046 Sq. Mi.  
POPULATION 1,459,356 Persons  
SOURCE: 1985 SRDS



**Editor:** Tim Kridel  
 Box 147  
 Middle Island, NY 11953

**Deadline:** Saturdays  
 All times are Eastern...

Greetings! We've got a new contributor to EDXR this week, so let's have a hearty hello for Lynn Hollerman of Huntsville, AL! Watch out, Winnepeg! Huntsville may become the new BCB DX capital of this continent! Now, onto this week's DX...

- (RB-NY) Raymond Bauernhuber  
 141-12 243 Street  
 Rosedale, NY 11422  
 Sony IGF-2010, shotgun loop
- (LH-AL) Lynn Hollerman  
 1237 Willowbrook Dr., Apt. 5  
 Huntsville, AL 35802  
 DX-302, 30' longwire
- (KVJ-GA) Karl V. Jeter  
 2115 Scarbrough Road  
 Stone Mountain, GA 30088  
 HQ-150, assorted beverages
- (TK-NY) Yer editor  
 Bearcat DX-1000, Palomar  
 loop, two 130' longwires
- (JDS-AL) J.D. Stephens  
 3605-8 Chasewood  
 Huntsville, AL 35805  
 Panasonic RP-B300, 30' 1-wire  
 -----

(JDS-1) J.D. Stephens  
 DXing w/ a Sears car radio, whip antenna

- 560 WFIL PA, Philadelphia 1-5 2100 Good w/ rock oldies w/ Brad Pierce. Ad for condos in Aspen. (RB-NY)
- 560 WIND IL, Chicago 1-3 0510 Talknet w/ Dr. Reuben, ads for Pepto Bismol, Charles Schwab, Jr Achievement promo. Fade @ 0520 w/ no ID. Tentative. (LH-AL) (WVOC Columbia, SC? -TK)
- 590 WKHX GA, Atlanta 12-29 1822 Fair w/ "Kicks AM 590." Local spots, promo for American Country Countdown. (JDS-AL)
- 600 WRBC TN, Memphis 1-3 0505 Nx, ID, into big band mx. (LH-AL)
- 680 UNID 1-8 1723 Fair, weak w/ traffic, ad for Bobby Murray Chevy, Paul Harvey's "Rest of the Story." Ad for Raleigh Office Supply. Thought it may be WCNN, but ad may put it more as WPTF. (TK-NY)
- 750 WSB GA, Atlanta 1-5 2120 Poor/fair w/ hvy QRN/QSB, w/ listener call-in show discussing racial problems. (RB-NY)
- 850 WEEU PA, Reading 1-2 2000 Vpoor w/ WHDH, others, w/ ABC nx, Juice Newton song w/ YL DJ. IDs, local ads. (TK-NY) (OOOPS! Excuse the order!)
- 840 WHAS KY, Louisville 1-5 2125 Good w/ "Fashion Post" ad, call-in about accrued vacation benefits. (RB-NY)
- 840 WHGH GA, Thomasville 1-1 1630 NEW STATION w/ urban contemp format, local ads. Confirmed as WHGH per a subsequent reception @ 1300 on 1-3 w/ black gospel format. Spoke w/ Curtis Thomas who sez WHGH has been on since 12-15. Address is: POB 2218; Thomasville, GA; 31799. Runs 10 kW, audible in day-time on my south beverage. (KVJ-GA)
- 920 CFIS QU, Levis 1-5 2135 Good w/ FF, ID as "CFIS." AC mx, incl "Just Like Heaven" in EE. (RB-NY)
- 930 KWOC MO, Poplar Bluff 12-23 2221 Good o/ WKCT, w/ PSAs for local utility service, MO Hwy Patrol. "KWOC radar wx" w/ YL. (JDS-AL)
- 930 UNID 1-1 1613 Excel @ times, but QSB, w/ ads, 50s 60s 70s mx. ID as "KOST Coast AM 930." One ad ment Dover. Possibly WYUS-Milford, DE; as Dover is nearby. Help!! (TK-NY)
- 950 WBKH MS, Hattiesburg 12-22 1746 Good w/ many local spots incl Woody's Quick Stop. Tide forecast, concert promo, "It's 52 @ WBKH, Hattiesburg." (JDS-AL)

EDXR...translated into 62 languages weekly...read in over 115 countries...

950 WQBE WY, Charleston 12-18 1710 Surfaced briefly w/ "Your wx stn- WQBE" by man, then gone. (JDS-1)

960 KCGS AR, Marshall 12-22 1755 Good o/ KZIM, w/ "KCGS Action Nx," s/off by YL ID as "We are your inspiration stn in the southern Ozarks." No SSB. (JDS-1)

980 WAFP MS, McComb 1-2 1906 CNN nx, jazz program. (KVJ-GA)

1030 WBZ MA, Boston 1-5 2155 Good w/ listeners calling in to discuss their nasty habits. (RB-NY)

1030 WNOW NC, Mint Hill 12-18 1708 Good in WBZ null, w/ wx, traffic, spots for WBTB-TV. ID as "Your Christian stn, WNOW." (JDS-AL)

1070 WIBC IN, Indianapolis 12-18 1653 Good w/ local spots, "WIBC color radar wx." "WIBC, the official wx stn," into Neil Diamond song. (JDS-AL)

1080 WFIV FL, Kissimmee 1-2 1740 S/off after C&W mx. Complete studio, xmtr link info. (KVJ-GA)

1080 WSSI MS, Carthage 12-21 1635 "Central MS's WSSI," AdCon mx, local ads. (KVJ-GA)

1080 WVCG FL, Coral Gables 12-21 1705 "The all new WVCG," "Money Line" talk program, spot for Jeweler advertising \$10K Rolex watches "for only \$6995." (KVJ-GA) (Only \$6995... -TK)

1080 UNID 1-2 1758 Strong on south beverage w/ strange-sounding FP (possibly "patois"). Several ads, incl one ment "Sunset Avenue." Possibly WVCG w/ foreign lang program? (KVJ-GA) (Ideas, anyone? -TK)

1090 WKII FL, Port Charlotte 1-2 1751 "Stardust" nostalgia format, IDs as "W-K-eleven." 1800 s/off ment studios, offices, xmtr in Punta Gorda, and a 0715 s/on. (KVJ-GA)

1100 KKLL MO, Webb City 12-20 1744 Gospel, Christian mx, promo for relig program. (KVJ-GA)

1110 WBCA AL, Bay Minette 12-22 1738 Vstrong w/ no sign of WBT or KPAB, w/ spot for AL Wholesale Housing, into "Swap and Shop" @ 937-5260. (JDS-AL)

1110 WBT NC, Charlotte 1-5 2205 Vgood w/ "Hello Henry Telephone Talk Show" @ 1-800-338-0323. (RB-NY)

1130 WWHF FL, Bartow 12-21 1713 Local nx, wx w/ Alan Archer. Program "Insights and Outrages" w/ stn prez Tom Thornburg. (KVJ-GA)

1140 WRVA VA, Richmond 1-5 2210 Fair/poor w/ national nx, "WRVA Moneyline." (RB)

1140 WSAO MS, Senatobia 12-18 1852 Strong o/ WRVA, w/ local building supply spot, many PSAs. "Magic mx master here on WSAO." (JDS-1)

1150 CHSJ NB, St. John 1-3 1607 Fair/good o/ WHDH w/ ment of NB, then ID "...on CHSJ" by man. (TK-NY)

1170 WBRW NJ, Somerville 1-8 0615 Noted on earlier than usual w/ storm info. (TK-NY)

1180 WHAM NY, Rochester 1-2 2233 Strong w/ Talknet w/ Dr. Reuben. Ads for Easy Quit, Pepto-Bismol. (LH-AL)

1190 WOWO IN, Ft. Wayne 1-2 2243 Strong w/ Ft. Wayne Comets vs Flint Spirits hockey. IDs, ads, post-game show. (LH-AL)

1190 WOWO IN, Ft. Wayne 1-5 2220 Good w/ Talknet. (RB-NY)

1250 WEMP WI, Milwaukee 12-20 2159 Poor w/ "The oldies channel puts the fun back into rock n roll. The oldies channel is WEMP, Milwaukee." (JDS-1)

1250 WGHB NC, Farmville 12-19 0030 Good w/ s/off "On behalf of the staff and management of WGHB, good night," SSB. (JDS-1)

1260 KTTS MO, Springfield 1-2 1840 C&W mx, "Radio ranch" slogan. Is this call change or an actual facility swap w/ KGBF? (KVJ-GA) (Call change, according to vol 25/#8 "Broadcasting Info." -TK)

1260 WIBV IL, Belleville 1-2 2300 Back/forth w/ WNDE, w/ SIU Edwardsville Cougars vs Missouri-Rolla basketball game. Ad for Dodge Colt, Chrysler ad; phone #, ID. (LH-AL)

1260 WNDE IN, Indianapolis 1-2 2306 Fading in/out w/ classic oldies like "CA Dreamin'" and "Precious & Few." ID "...on supergold" w/ Mike Hardy. (LH)

1270 WSPR MA, Springfield 1-8 1700 Good/fair o/ others w/ AP nx, local nx w/ Bill Brady, stocks, sports, wx. "Supertalk" echo ID. (TK-NY)

1300 WFBR MD, Baltimore 12-20 1901 Vpoor u/ WAVZ, w/ talk or nx program. Definite ID. (TK-NY)

1300 UNID 12-27 2044 SS stn w/ ment of Church of God. Phone # given as 879-7070. (JDS-AL) (Readers?? -TK)

EDXR...the beacon in the DX fog...

- 1330 UNID 12-23 1750 Peaking briefly w/ "K-rock" ID. DJ's name was Bill, PSA for Army, wx @ 1755. (JDS-AL)
- 1340 WTIF GA, Tifton 12-22 0706 End of nx, Shoney's/WTIF Birthday Club show. Much wanted here. (KVJ-GA)
- 1340 WTYS FL, Marianna 12-22 0700 Mixing w/ WTIF @ times, w/ "WTYS Morning Magazine" show. CBS nx/sports, birthday show. (KVJ-GA)
- 1350 WGIA GA, Blackshear 12-29 1758 Good w/ promo for 24hr prayer line. S/off by YL "Gl35 is WGIA Blackshear, Waycross," w/ ment of Christian Media Network. ID by man as "South GA's amazing AM," off @ 1800. No SSB. (JDS-AL)
- 1370 KDTH IA, Dubuque 12-19 2227 Fair w/ "That's the 1370 KDTH sportscenter update, I'm Bob..." Jx, then fade. (JDS-1)
- 1400 WCLB GA, Camilla 1-2 2145 G&W mx, "1400 WCLB" w/ female annrc. Beleave 1st time heard here since switch from 1220. (KVJ-GA)
- 1440 WZYX TN, Cowan 12-31 2115 "Franklin Co.'s #1 radio stn." Unn here but noted unusual s/ off time. (KVJ-GA)
- 1520 WWKB NY, Buffalo 1-5 2300 Fair/poor w/ nx, Talknet re Mario Cuomo. (RB-NY)
- 1530 WCKY OH, Cincinnati 1-2 2224 Strong w/ Talknet w/ Dr. Reuben, ID. (LH-AL)
- 1530 WCKY OH, Cincinnati 1-5 2310 Good w/ Talknet. (RB-NY)
- 1550 CBE ON, Windsor 1-6 2100 Poor/fair w/ pop mx, nx, commentary on shellfish ban. Mod/heavy QRM, QRN, QSB. (RB-NY)
- 1580 CBJ QU, Chicoutimi 1-6 2130 Fair w/ nx, talk, mx. (RB-NY)

Good turnout this week...My 930 UNID really has me intrigued, but I doubt that it's a real K-call...J.D., your 1330 UNID as "K-rock" sounds very familiar, but I can't quite place it...Best of DX to all...73s de TK...

# IRCA SportsCentre

DEADLINES: 1/23, 1/30, 2/6, 2/20, 3/7

Dale Park  
1516 Hinman Av #705  
Evanston IL 60201-4659

Hi there! I was in the middle of packing when some hot radiosports info came in, so this brief edition of the SportsCentre is written to share this with you. If your information on who's doing play-by-play of whom for what is just as hot, send it in to the address above, or call me at (312) 864-8359 2100-2400 ELT (no collects, please). All right, let's follow the bouncing ball...

## \*\*NATL. BASKETBALL ASSN.\*\*

### BOSTON CELTICS Johnny Most, Glenn Ordway

550 WDEV-VT	980 WCAP-MA	1250 WARE-MA	1370 WDEA-ME	1440 WFTQ-MA\$
560 WHYN-MA\$	990 WNTY-CT*	1270 WTSN-NH	1380 WNAQ-CT	1450 WKXL-NH
590 WEEI-MA	1160 WSKW-ME <sup>1</sup>	1280 WEIM-MA	WNRI-RI*	1470 WMMW-CT
600 WFST-ME*	1200 WKOX-MA	1290 WKNE-NH	1400 WILLI-CT\$	1480 WSAR-MA
610 WGIR-NH	1230 WKHT-CT	1340 WDME-ME+	WIDE-ME	1490 WPOR-ME
620 WZON-ME\$	WERI-RI	WNBH-MA	WHMP-MA	WMRC-MA
900 WQXA-ME	WJOY-VT	WBRK-MA+	WTSL-NH	WEJM-NH
920 WHJJ-RI	1240 WHAI-MA+	KRAM-NV	WLTN-NH	1510 WNLC-CT
		1350 WGH-VA		
		-FM-		
92.7 WOXC-ME	97.1 WRVT-VT	99.9 WTHI-IN	100.1 WQVR-MA	103.1 WDME-ME+
93.5 WMCM-ME	98.3 WHAI-MA+	100.1 WFLQ-IN	101.7 WRCZ-MA+	107.1 WBFL-VT
	98.5 WTVL-ME		101.9 WCIB-MA	

NOTE: 1. Has moved from 1150 kHz and changed calls from WQMR per team.

### PORTLAND TRAILBLAZERS Bill Schonely, Geoff Petrie

620 KGW-ORS	1110 KBND-OR	1340 KIHR-OR	1400 KBCH-OR	1450 KLBM-OR
880 KMFR-OR	1230 KZZR-OR#	KBBR-OR	1430 KYKN-OR	1490 KBKR-OR
920 KGAL-OR	1240 KQEN-OR	1380 KSRV-OR	1440 KODL-OR	KLOG-WA
930 KAGI-ORS	1280 KDUK-OR	1400 KNND-OR#	1450 KFLS-OR	1590 KTLI-OR+
		KJDY-OR#		
		-FM-		
92.9 KAST-OR	99.3 KQFM-OR <sup>1</sup>	100.1 KUMA-OR <sup>2</sup>	102.5 KYQT-OR	107.7 KUMA-OR
	100.1 KUMA-OR <sup>1</sup>		104.1 KTLI-OR+	

NOTES: 1. Translator in Heppner. 2. Translator in Milton-Freewater.







# WESTERN DX ROUNDUP

2301 PACIFIC AVE., ABERDEEN WA 98520

**DEADLINES: Each Tuesday**

**REPORTERS FOR THIS ISSUE:**

- (CM) Curtis McMenamin-2917 Georgia St.-Vallejo, CA 94591  
GE Superadio, SM-1
- (5P) Dale Park-DX'ing at home in Honolulu, HI  
Sony ICF-6700W, Delco car radio
- (SR) Skip Robb-23701 S. Western #12-Torrance, CA 90501  
FRG-7, Radio West loop
- (RW) Robert Wien- 1309 Dentwood Dr.-San Jose, CA 95118  
GE Superadio, GE long-range portable, SM-2
- (ØW) John Wilkins-4385 Hoyt St. #205-wheat Ridge, CO 80033  
R1000, R390A, 4' loop

**\*\*\*\*\*  
OF SPECIAL INTEREST:**

- 990 KKSBB CA, Santa Barbara 1/4 1030-1045 faded up nicely in KKIS null with several local spots. Currently running 1kw days, 120w nights, has CP granted for 5kw days/1kw nights, currently putting up new towers. Call change, ex-KELS. (RW-CA)
- 1390 KMDK CO, Denver per phone call to station, will s/on with all Health format on Jan. 25. Mostly phone-in stuff, also features from Mutual & others. Hours will be 0800-2000 ELT with 5kw. Address is 108 Monroe St., Denver 80206. Ex-KPPL. (ØW-CO)

- 540 KSHO CA, Hesperia 12/28 0100 coming in fair, "This is KKG0 Los Angeles" then heard the weather for Los Angeles area. (CM-CA)
- 560 \*KSPO\* CA, San Francisco 1/4 0436 with periods of OC, TT. (RW-CA)
- 580 CKY ME, Winnipeg 1/4 0318 good in QRM with modern version of "California Dreamin'", "woman DJ with weather ("High of minus 26..."), more pop music. Not too common. (ØW-CO)
- 600 KHTE CA, Redding 12/29 0630 loud in KKLQ null way over CJOR with ID "Classic California Country, KHTE." (RW-CA)
- 620 KTAR AZ, Phoenix 1/3 2400 coming in good. DJ gave KTAR ID, "This is Newstalk 62, KTAR Phoenix." (CM-CA)
- KIPA HI, Hilo 12/22 1715 airing NBC Entertainment's "Steve Allen Show" apparently live, followed by Talknet. Per GM Buddy Rogers, KIPA is now mostly network talk, NBC affil., no longer ABC. Rogers says relay xmtr across from Ke'ahole Airport will s/on in Jan. and Na'alehu relay will come on probably in summer. (5P-HI)
- 650 KORL HI, Honolulu still relays KLHI-FM 101.1 Maui. Per station, it feels their present leasing agreement is not illegal. (5P-HI)
- 670 KPUA HI, Hilo still using CNN logo to introduce its newscasts but CNN news not heard. (5P-HI)
- 720 (KUAI) HI, Eleele 12/14 1100 noted off the air, still off at 1205 recheck. Per station, due to the winter rains the xmtr tubes got wet from condensation on Sun. night & the xmtr went down at s/on today. Returned to air at 1500. Sked still 1000-0500 daily, extended by one hour to 0600 Sat./Sun. EST; Sunday local sked is 1100-0400. (5P-HI)
- 760 KGU HI, Honolulu now running Talknet, almost all live. ABC Talkradio now on 1500-1900 & 0600-1000. (5P-HI)
- 780 WJAG NE, Norfolk 12/24 0906 "News Watch AM," with area news, weather, ads. Poor with fades, WBEM/KROW/KAZM QRM. New, NE #34. (ØW-CO)
- 930?\*KSEI\*?ID, Pocatello 12/29 0613 susp. loud with TT in KRTH null over CJCA. (RW-CA)
- 940 (KDEO) HI, Waipahu 12/29 0610 noted off 0610 & 0649 recheck. Hope Doug Lamerson got more than KPFE or 72R out of this; I sure didn't! (5P-HI)(He probably got KJR-950 slop, as I believe he was in Seattle then.--NH)

- 1000 KVSD CA, Vista 1/4 0425 finally heard call change, ex-KML0, not heard in interim calls. ABC Talkradio, ID as "AM 1000, KVSD." Very weak but steady in KOMO null, but gone by about 0500. Heavy AU conditions, unID SS behind KVSD, prob. Colombia. (RW-CA)
- 1020 (KTNQ) CA, Los Angeles 12/29 0615 noted off again. (RW-CA)
- 1130 KRDU CA, Dinuba 12/31 1700 coming in very good with relig. music, then a nice ID "KRDU Dinuba." (CM-CA)
- 1140 KCMJ CA, Palm Springs 1/1 1830 poor, fading in & out with KRAK (playing country music--"Northern California's #1 Country Station"). (SR-CA)
- 1210 KPRZ CA, San Marcos 1/1 2134 "Insight For Living," relig. Good reception during daytime or night from Torrance. (SR-CA)
- 1290 \*KHSL\* CA, Chico 1/4 0725 good with TT, ID, in KEEN null just before s/on. (RWCA)
- 1330 CJYM SK, Rosetown 12/31 0000 Broadcast News, then "Coast to Coast" syndicated pop music program. Good on peaks, long fades. New. (ØW)
- 1340 KTOQ SD, Rapid City 1/5 0255 Music Country Net; 0300 ID & NBC News. Fair over QRM with local KDEN on usual MM SP. (ØW-CO)
- KMTW NY, Las Vegas 1/4 0625 call change, ex-KRAM. Way on top over KMAK with ID "We're the heart and soul of rock and roll, 1340, KMTW, Las Vegas." R&B type format, ex-C&W. (RW-CA)
- 1370 KWRM CA, Corona 1/2 2009 country music fair in "Radio KEEN" null also with C&W. (SR-CA)
- 1460 (KULA) HI, Kailua per station, they will s/on sometime in 1988 but no exact date given by the harried receptionist that I reached. (SP)
- 1470 KNY CA, Los Angeles 1/4 0739 noted KNX spur or image thru XERCN OC, good signal! Was KNX feeding XERCN their signal, possibly???(RW)
- 1510 KGA WA, Spokane 1/2 1900 with sports, fading in & out. On the hour could just make out KNSE ID during a fade in KGA. (SR-CA)
- 1590 KMTI UT, Manti 12/31 1808 program note for "Saturday Night Gold," local ads. Good with KRXV-1600 splatter partially nulled. (ØW)

#### UNIDs:

- 540 12/28 0300 coming in very poor. CEK/KNAK both off the air. Heard under KSHO with what sounded like country music. Looped east. Ideas? (CM)
- 650 1/3 0030 coming in very poor. Heard with Mexican music then into unID Spanish program. Faded in & out then gone. Any ideas? (CM-CA)
- 710 1/3 0300 coming in fair-good off and on. Heard with Spanish programming. Looped east. Sounded like Cuban music. KFIA off air. **\*\*** Possibly WAQL but I don't know? Anybody know what this could be? (CM)
- 730 UNID in Spanish looping E-W, maybe KSVN finally changed to KXEQ, SS? IDs as "Radio Mexicana." Rough in QRM. Heard "UPI Radio Noticias" one eve at 1855. (ØW-CO)
- 920 1/4 1006 UNID fading up over KORK/KQLO with KNEW precariously nulled. ID as "Classic Gold, AM 92." Either KVEC or KKAM? (RW-CA)
- 930 UNID Spanish station looping N-S 1/7 1903. Ranchera music, woman DJ with requests. Suspect U.S. rather than Mexican. KCCC maybe? (ØW-CO) (Maybe the new KRIA-TX.--NH)

This week we welcome Skip to WDXR. We hope to hear from you often! Sort of a short column this week..wonder where everyone is. ♡

Newsday, January 11, 1988, via Tim Kridel.  
Has anyone noted any changes in their signal?

**\*\***This might be Cuba, which has a high power outlet on 710, which sometimes is hrd here.

## Town Hears a Hull Lot of Hubbub

Hull, Mass. (AP) — Anne Scully picks up her telephone and hears Diana Rosa singing "Stop! In the name of love." News and talk shows resound from her bedroom radiator.

All over this seaside town 25 miles south of Boston residents are hearing voices. From the radiators. From the plumbing. From ovens and toasters.

It's all courtesy of a pair of high-powered radio transmitting towers down the street.

"It's a pain in the neck to listen to voices that are not of your choosing. I call it an invasion of privacy," Scully, 69, said Saturday.

"It comes through my pipes downstairs when I'm washing clothes," said Frances Gentilucci, 31, a neighbor of Scully. Her 8-year-old daughter, Jennifer,

plugged in an empty tape recorder and out came the voice of a disc jockey reminiscing about golden oldies.

The pair of 520-foot transmitting towers for 50,000-watt radio station WBZ in Boston have stood in Hull for years, interfering with phone calls and scrambling television reception. But a fire in an equipment shack at the base of one of the antennas in early November seemed to worsen the problem.

Eddie de la Fuente, a WBZ technician working at the transmitter site, said it could be some time before repairs reduce the newly intensified interference. The fire threw one of the two antennas off the air, he said. The two usually work in tandem to direct the signal to 38 states. But with one out of action, the lone antenna sends a signal in a wider sweep over Hull, intensifying the interference.



# DX WORLDWIDE EAST

JIM HALL  
240 BYRON RD.  
PITTSBURGH, PENN.  
15237, U.S.A.

TIME: GMT/UTC

## I R A N S - A T L A N T I C D X

- 891 t ALGERIA, Alger 0250 12/21 : RTV Alger fr w/AA talk/mx. Throwing a wicked het on 890 -- slop from 890. (Ross-ON)  
1521 t SAUDI ARABIA, Daba BSKSA 0310 12/21 : Good - man w/AA chants - Quran? Nice signal. (Ross-ON)  
1611 t VATICAN, 0321 12/21 : Vatican Radio pr w/man talking - lang not detectable. Het on 1610, and 1610 slop. (Ross-ON) (It's very likely on all three of these that they were Algeria, Saudi, and Vatican, Robert. ed)

## P A N - A M E R I C A N A D X

- 535 GRENADA, St. George's 0334 12/22 : Radio Grenada fr w/male dj in EE w/accnt. Christmas carols mx pgm. Slop from 540. New station/country. (Ross-ON)  
700 JAMAICA, Montego Bay JBC 0100 12/1 : Fr w/man/woman in EE, ments of Montego Bay. Also man w/Birthday wishes to listeners. Under WLW. (Ross-ON)  
720 VENEZUELA, Parlamar YVQL 0230 12/21 : R. Vision Oriente fr w/m tik in SS, poss mx, ments Caracas & Carabobo. With WGN/CHTN. (Ross-ON)  
760 CUBA, Guanabacoa CHBD 0412 12/19 : Weak but good signal u/WJR. "RR" code ID's, clock ticks, nx from R. Reloj. (Wyllie-MA)  
880 CUBA, Pinar del Rio CMAB 0558 12/18 : R. Progreso strong o/WCBS. (Wyllie-MA)  
940 MEXICO, o XEQ 0604 12/18 : Weak, but gd signal u/CBC stn. No ID noted but I'm sure it was them - have hrd it many times. (Wyllie-MA)  
1165 ANTIGUA, St. John's 0207 12/1 : Caribbean Radio Lighthouse fr w/rigs/gospel & man reading from Bible. (Ross-ON)  
1200 CUBA, Palma Soriano 0500 12/2 : Musical tones on hour, man w/ID as "CKMC, este es R. Revolución", ment Cuba. Lively SS pop mx. New, o/WOAI. (Ross-ON)

## DX REPORT FROM BAVARIA (Harms-FRG)

- 870 unID, just a weak het noted here 12/24 0203. (WVL seems likely. ed)  
1030 UNITED STATES, Boston, MA WBZ . Finally a decent logging of this guy. Heard a Christmas message from the WBZ staff, fol/by a telephone call - male ancr & a man on the telephone. I could not catch the topic of the conversation. 12/24 0223-0228. Poor but steady signal. Signal took a deep fade @0228, not even a het was noted. (Good catch, Bill, and nice going on these "Reverse Trans-Atlantic" loggings. ed)  
1210 unID, not much to go on. I heard a man in EE giving current world news at 0231-0232 12/24. I assume this is WCAU, or at least it sounded like them. Fr signal.  
1220 BRAZIL, Rio de Janeiro, Radio Globo. This is the most consistent TA here. Hrd w/m & f in PP, frequent ID's. 12/3 2309. I hear this one virtually every night tried, no challenge at all. (I wouldn't mind logging it here in Pittsburgh, Bill! ed)  
1570 TURKS & CAICOS, Atlantic Beacon 12/13 at 0207 w/male preacher. Fair signal but in slop of the East German on 1575. (Jim, have you heard the East German on 1575 yet? I think it might make it to Nam). (Thanks for this tip, Bill -- no, unfortunately I haven't found it here yet, but I will tune to 1575 a little more often. Portugal & Spain seem to show here in Pgh. on 1575 mostly, with Italy apparently available at a coastal site. George Hakiel or Mark Connelly etc. may have a better chance at East Germany here, but I suppose it should make it inland around xmtr site down before the loud fade-ins of the more westerly Spainiards/Portuguese. I'll let you know. ed)  
1580 ANTIGUA, St. John's relay of VOAI. Finally hrd this one with Caribbean Report 12/13 at 0123. Fr signal but with 1575 slop.

## HELP w/unID's (Suggestions on unID's in DXW-E from Vol. 25 #13, Harms-FRG)

- 747 Yes, Holland. The format fits & I have never heard Bulgaria, a 2nd possibility, w/pop mx.  
846 Agree this must be Italy.  
1089 I'd guess this is BBC Radio 1. The only other possibility would be the East German but I doubt it.  
1116 I have hrd Italy here w/an OC at the time you listed on many occasions, so believe you are right.  
1179 Yup, likely Sweden.  
1304/5 I will check these frequencies for you.  
1386 Well, I don't know where the xmtr site is for this one. I have heard the domestic service from what I thought was Kaliningrad. Unfortunately I did not get it on tape to be 100% sure. On the copy of the QSL card I rec'd, at least the Soviets think

the site is in Kaunas, Lithuanian SSR. However, the WRTH has listed Kaliningrad for a long time. There has been a mini-controversy in SW DX circles about the accuracy of the sites listed on Radio Moscow's QSL's. I heard somewhere the consensus of opinion is that they are about 85-90% accurate & should not be implicitly trusted. However, most SWDXers will count the listed site because that is what the Soviets believe the sites are. I know that this may not help, but at least it is something to think about. (Thanks, Bill. Not much different from Cuba, I suppose. ed)

1511.8 I will check on this one, too.

☺ Thank you everyone for reporting in to DXWW-E. Thanks also to Charles A. Taylor (P.O. Box 346, Grifton, NC 28530-0346) for a card with some comments. Here's what Charlie had to say: "Re John Wilkins' (and your) hearing of a 'Ay Nacional' ad on XE's, that is 'Hay (name) Nacional'. The word hay (pron. ay) means, more or less 'there are/is' , or 'here are/is' . One would hear 'Hay platanos' (bananas), 'Hay La Prensa' (paper), 'Hay leche fria' (cold milk) etc. from street vendors. Also, re the Cubans on 1040/1160, that's Taino (tah ee noh) not Tiano (rhymes w/piano)." Thanks for pointing these items out Charlie. Still can't figure out the Ay Nacional, but I guess I was trying to Americanize the spelling of Taino, hi. By the way, welcome to DXWW-E, Charlie, and while you're enjoying the weather in the Carolinas, drop us another report soon! A couple other observations from William Wyllie: William heard Cubans on 600/640/660/670/680/710/760 on 12/19/87. Also, an unID on 12/18 on 1520 kHz w/1521-TA het. It had SS mx u/WKKB. Maybe Venezuela, William, or a Colombian. William also heard FF mx on 1540 at 0224 12/21 behind WPTR. Sounds exactly like CHIN-Toronto's ethnic pgmng to me, not from LA. One final note for this weeks' column: This is regarding reporters to DXWW-E - if you would like to report your international DX to DXWW-E, please just drop your loggings in an envelope or on a card and send them to the address at the beginning of the column. Just follow the format you see here.

#### CREDITS:

(Harms-FRG) Bill Harms, Bad Aibling Stn, P.O. Box 961, APO New York, NY 09098  
(NRD-525, three foot high wedge)

(C. Taylor-NC) Charles A. Taylor, P.O. Box 346, Grifton, NC 28530-0346  
(Help w/unID)

(Ross-ON) Robert S. Ross, Box 4373, Stn. C, London, ON CANADA N5W 5J2  
(Kenwood TS430S, Sony 2010, longwire, loop)

(Wyllie-MA) William A. Wyllie, 95 Peck St. Franklin, MA 02038-2217  
(Realistic Modulaire 2200 w/built-in antenna)

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#### PUBLICITY CHAIRMAN REPORT

Bill Harms, Box 961, Bad Aibling Station, APO New York, NY 09098

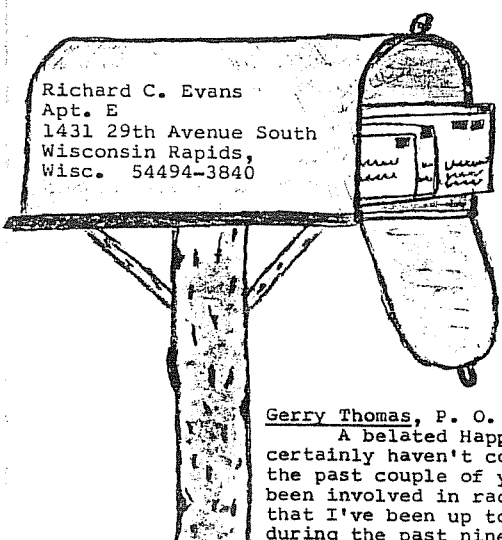
Just a short note to check in and let you know what we are doing to publicize the club. As noted in Karl Zuk's recent President's Reports, the Board of Directors have given informal approval to my proposal to advertise IRCA in publications such as Monitoring Times and Popular Communications. The exact form that these advertisements will take has yet to be decided upon, pending consultation with the President and others who are "in the loop." I wish to publicly thank Karl for the support that he has given me thus far as publicity chairman, specifically his support for my proposal to advertise the club in other publications.

The second thing we are planning to do is to advertise the club on shortwave stations, especially the ones that have DX oriented programs. At this point, we are asking these stations to give a short blurb about our club and what is has to offer. Hopefully we will be able to convert a few SWLer's to MW DXing. Later on, we would like to be able to produce our own SW program, or at the very least, supply one or two of these stations with MW DX related material that can be used on their DX programs. Many other DX (SW and MW) clubs are currently doing this.

Something that we also need to think about at this time is the ANARC Convention this coming summer. Albert Lobel has things pretty well in hand. However, he needs people to volunteer to help represent the club. If you think you would like to help please contact him at P. O. Box 26762, San Diego, CA 92126.

If you have any specific ideas for advertising the club please write to me. I know you have some good ideas and I would love to hear from you.

73's and Good DX!!!! de Bill. *Bill*



Richard C. Evans  
Apt. E  
1431 29th Avenue South  
Wisconsin Rapids,  
Wisc. 54494-3840

## EASTERN DX FORUM

Reports from members living east  
of the Mississippi River

Deadlines: Fridays  
Anniv. issue: 3/11/88

This column typed: 1/10/88

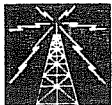
Gerry Thomas, P. O. Box 2036, Pensacola, Florida

A belated Happy New Year to all! I //32513 certainly haven't contributed to this column much in the past couple of years. It's not because I haven't been involved in radio during this time, it's just that I've been up to my ears in Radio Plus+ and, during the past nine months or so, an incredible series of family concerns. Briefly, last March, my daughter suddenly and mysteriously lost central vision in both eyes. This stumped everyone and required our dropping everything and flying her all over the country during the spring and summer seeking expert opinions (consensus---virally induced juvenile macular degeneration). Needless to say, this took great gobs of time and cash and left Radio Plus+ in a state of limbo. Perhaps as a result of the stress, my wife gave very premature birth to a baby boy in April; he didn't make it. Things didn't really begin to settle down until October when we moved our daughter to college to live on campus (she can no longer drive). I'm just now finishing up the Radio Plus+ correspondence and re-orientation. We are still in business but will no longer carry radios, just our own products. The 2010 Sidekick, Superloop, and Phase 2 are in pre-production testing now. If I owe you a letter, please hold on a bit longer; I'm nibbling away at the pile. I can tell that things are beginning to return to normal somewhat because I've been able to log a couple of DX sessions in the past few weeks, hi. Finally, there is some good news around here; my wife became pregnant again in May and we are expecting in February...late night feedings and DXing loom on the horizon, hi. Best to all in '88. 73's...GT.

Tim Kridel, Box 147, Middle Island, New York 11953

Greetings! I have recently returned from my annual Christmas trip to the Show-Me state, which got me the new states of CO, MS, and CA. While traveling south thru IL, I caught KOA-850 coming in quite well on the car radio. When I arrived in New Wells, MO, I tried for them on the Bearcat DX-1000 with a 13½ foot aluminum clothesline, and they were doing very well with a SINPO of 35444. Other catches include KNX-1070, KSTP-1500, WOR-710 (13343 at 1720 CST!), CFRB-1010, KPRC-950, and WKKE-1180. I was listening to a station on 640 kHz at 0526 CST, heard a promo for NPR's "All Things Considered", followed by an ID at 0530 that sounded like "WHLO". Does WHLO have NPR? (Tim, most likely, it's WOI-640 in Ames, IA which is National Public Radio--rce) The usual fuse-box QRN once again made DX difficult, so the noise-blanker was constantly on. I also stopped in at KGIR-960 in Cape Girardeau, MO, to walk-thru a verie for J.D. Stephens. The studios are located about two blocks from the Mississippi, and right next door to KFVS-TV. It wasn't easy explaining to the receptionist what the purpose of DXing is, but she made a photocopy of J.D.'s letter and promised to give it to the PD. So, J.D., let me know how this one pans out. Reports going out to: Koa-Denver, KTCE-Malden, MO, KSTP-St. Paul, MN, KNX-Los Angeles, KAAV-Little Rock, AR, WRJZ-Knoxville, TN, WDAF-Kansas City, KBOA-830-Kennett, MO, WSJP-Murray, KY, KLCN-Blytheville, AR, and WCNC-Middletown, CT. Get your reports out soon! Per a recent Kiplinger Washington Letter, the 22¢ stamp will become a 25¢ stamp, with a 15% to 25% increase in other rates. Supposedly, this will take place next spring around late April. Seems like just the other day when it was 13¢! David Reitz and Karl Zuk - Thanks for the Christmas cards: Has anyone heard when





# Western DX Forum

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IRCA — The #1 Choice of the Broadcast Band DX'er

Editor: Ric Heald • 8539 Bellamy Way • Sacramento, CA 95828 USA • (916) 386-8677

1988 DEADLINES — WEEKLY ON TUESDAY 11 DAYS PRIOR TO PUBLICATION DATE  
ANNIVERSARY ISSUE DEADLINE - 07 MARCH

GLEN KIPPEL, 612 WEST AVE., MERCED, CA 95340

Hello again, everyone. I haven't been doing much of any DX in the past couple of months or so because I fell and wrenched my back to the degree that I ruptured a disc. So I had to spend nearly three weeks in bed and have had to take things easy every since.

A few comments though — local KYOS 1480 format isn't "black" as reported a while ago, but "urban" which means a dance-music format. If you're over 40, just call it disco, and if you're over 60 it's "rock." Anyway, the songs are mostly up-tempo with a heavy beat, repitious lyrics (when they have them, as they're mostly instrumental) and run longer than average, live six or seven minutes. Madera's 1250 ex-KHOT (SS) is now a mix of urban and rock, call it now KQMD.

There was some discussion awhile back about how a distant FM station can be heard instead of a closer one. One factor to take into account is that very few FM transmitters actually radiate a circular horizontal pattern. When you hook an antenna on the side of a metal tower there are always some phasing effects that produce partial nulls in the pattern, often in unexpected directions.

In other news... if you hear an SS with "Cadena de Radio Centro" ID's, it's a new staellite service based in Irving, Texas. The American Radio Relay League has a computer program available that calculates sunrise/sunset times around the world and lots of other stuff. Versions for MS-DOS, CP/M, Commodore C-129, Apple II and Macintosh are available for \$20.

The FCC has announced that since the Bahamas is expected to renounce the NARBA Treaty, US daytimers on 1540 will be permitted to go fulltime.

Speaking of the FCC, Ric, probably what KORL is in trouble with Uncle Charlie about is not a lack of a "public service file" (There ain't no such animal) — but a "Public Inspection File." This must be maintained for public inspection of FCC applications, ownership reports, employment reports (EEO), etc. See section 73.3526 of the Rules.

Well, 73 and have a Happy Groundhog's Day. (Gee, with contracts coming up with county, another obscure holiday to lobby for, hi-RtH.)

GARY LARSON, 2806 LINCOLN, BURBANK, CA 91504 (818) 244-1027

Seems I'm once again back in the fold of IRCA after recently rejoining. Missed a few issues of DXM but still tried MM DX'ing.

Lately 540 KSHO has been simulcasting KKG0 105.1 with jazz, so maybe they ended the show and movie music format. I really thought it sounded good. At night is when a jazz format would probably sound good even on AM. Because I don't have a current domestic log, what power is KSHO running now?

Vacation and holidays here were OK. Am still currently working graves in San Fernando Valley.

I see Paul Swearingen is now settled in Topeka, Kansas. Hope the school position is going fine. Send some newspaper clips of your local high school track this spring. (Does that mean I can get his "BCB DX" license?-hi-RtH.)

I spent 31 December/01 January in a New Year's 10 km run in Encino. For me, a good safe way to begin '88. Tarded traded tapes with several people who requested specific L.A. stations plus Christmas music too. Gary Parton, a friend and former member was in Sacramento to visit the area and taped some stations for me. One was KRAK. Really sounded great. (He shows good taste-RtH.) Also got some KCTC-FM. (Yawn, hi-RtH.)

Interesting story on border radio. Haven't read all of it yet. Really like these AMs to listen to.

More later on. 73.

JIM HILLIKER, P.O. BOX 1499, CARMEL VALLEY, CA 93924-1499 (408) 659-3733

Happy New Year and I hope you all had a wonderful holiday season. When I last checked in, I failed to mention that Laura and I are expecting our first child. The due date is May 1st. This seems to be a trend among IRCA members over the past year or so. Anyway, we're both quite happy and excited about all this and it makes this year even more special. (Congrats, Jim. Guess who can DX during 0200 feedings?-hi-RtH.)

Last time I mentioned my activities at KTOM. I just celebrated my one year anniversary there as a fulltimer on 26 December. I messed up the time we simulcast, so this time, in Eastern time, KTOM AM/FM simulcasts from 2100 to 1300 Monday through Friday, and all day on Saturday and Sunday, ex-

cept for special programming on Sunday. During Thanksgiving Weekend, we started broadcasting the syndicated "Fat Music Show" each Saturday night, which is a DJ from the old KFAT Gilroy playing their old format for two hours, with visits from various ex-K-FAT'ers. (Hip, hip hooray! As an ex member of Club Le Fat, I'll be sending you a tape, jim-RtH.) We've had a lot of publicity about carrying the show and lots of positive listener reaction. Also, KTOM is 100% country, with separate country formats during the non simulcasting hours.

Looks like we knocked off all the competition, as KTOM is also the only country station in our market now and still number 1. Non-market stations like KWSS (ex-KFAT-RtH.) have slightly higher numbers. KSC0 1080 Santa Cruz has dropped '60s oldies and has gone satellite (Transtar) with MoR automated, except live in morning drive and for local news. They've also dropped AP Net for CNN on the hour. Last week, KNZS 1540 (studios in Monterey with sister station KMBY 107.1) dropped their all-news format. Currently they will simulcast with KMBY, but according to news story on KMST-TV on 01 January, they will be KMBY-AM and go to a sports-type format. (So the old KMBY calls resurface on AM-RtH.) They're up for sale and up to their you-know-what in bills! (Continued next week-RtH.)

RIC HEALD, 8539 BELLAMY WAY, SACRAMENTO, CA 95828 (916) 386-8677 FRI/SAT

Howdee. Back from the wilds of the Pacific Northwest and now I realize why I don't live there: Winter, hi. Took along the GE Superadio this time so I could DX FM as well. Results being sent to WDXR and should appear next week. Was surprised to hear KRAK; was expecting Boise. And of course, with sunset to the south earlier, California really hauled you-know-what. Was really blown away with being able to totally null KJET 1590 and take clear copy of KMTI Manti, Utah (eat your heart out Seattle, hi). Even more surprising on FM to pull in a couple Yakima stations from across the Cascades. Because my listening post was outside across the parking lot from dad's place, I also managed to get my first cold in two years. I mean when the second snowflake hit my face I decided it was time to go indoors, hi.

While in Lacey, phone bp and he suggested that since Louisville is locked in for this year, why not Sacramento as the convention city for our 25th anniversary? Why not? Located on three major highways, two rail lines, a mini-hub for the "friendly skies," comparatively low motel/hotel rates for western major cities, why not Sacramento? OK, time to draft Kaskey, hi.

Jim, good to see the KFAT style back on the air. I tried a little of that nightly at KRED, but from 0000-0100 PLT, and I too got positive response. Most of the music came from my own collection and I transferred on to cart so the station would have copies on hand should there be requests. Who've ya got there, Sully, Jim, Harold? Harold had a show for a time on KERG Garberville shortly before they went dark. Shortly after they went dark, one of the station's personnel was found off the road and down a ravine. Good to see country the number one format in your market. Do you really think 1540 can make it with their new format? Also, when you simulcast, does it originate from the AM or FM studio. I've been to KTOM, but like 15 years ago. Still have a photo of the board somewhere around here.

Locally, someone is using something that made my noise problems of the past seem like nothing. I mean this "thing" is making reception of KGO difficult! And all the wiring in this development is underground! I would take the FRG out to the backyard, if only it would stop raining long enough to do so, hi.

Looks like an all California WDXF unless bp would like to add a few notes (hint, hint). That's it this time around. 73 de RtH. .

Bruce Portzer- 6546 19th Avenue NE - Seattle, WA 98115

Okay, I'll add a few lines. Congratulations to Jim Hilliker & Gerry Thomas on their impending offspring. Somehow, I missed out on hearing lots of DX after my daughter was born because she starting sleeping straight through after about 2 weeks. The only station she helped me log was KKKO-1450, hrd 5/10 at 3 am after putting her back to bed. However, she's recently been treating us to a phenomenon I call "bedtime enhancement", where her audio output goes up by 10-20 db just before she fades out for the night. It's a lot like the sunrise enhancement sometimes heard on TP DX stations, hi.

Locally, KJET-1590 may soon drop their new wave & alternative rock format in favor of something a little blander; main reason, if it happens, is the 0.0 they pulled in the latest Arbitron ratings. Also, KKKMO-1360 is now big bands & nostalgia (ex rock oldies), except for afternoon drive time, when they're Spanish. Weird combination, hi.

Don't forget to report to the anniversary issue. 73.

# BROADCAST PIONEERS: POLICIES AND STATIONS

Thomas H. White  
September 1, 1987

Despite extensive interest about the formation of the American broadcasting service and its pioneering members, there has been a dearth of information about a number of fundamental topics. This is designed as an overview and reference source for some of the neglected areas, spotlighting the period through May of 1922.

## FORMATION OF THE BROADCASTING SERVICE

The formal inauguration of the broadcasting service took place in September of 1921 (1), with the assignment of two wavelengths: 360 meters (833 kiloHertz) for entertainment, defined as "news, concerts, lectures, and such matter", and 485 meters (618 kiloHertz) for "crop reports and weather forecasts". The use of two different wavelengths reflected the department practice of segregating different activities on different wavelengths. Individual station authorizations were issued for either or both of the wavelengths, depending on the service the station provided. Although broadcasting activities had been evolving for more than a decade, this allocation was the first to designate stations specifically licensed for, and restricted to, public broadcasting, using wavelengths exclusively set aside for the broadcasting service.

The choice of these two wavelengths was apparently ratification of previous practice. Two stations, operated by the Westinghouse Electric and Manufacturing Company, already held licenses authorizing radiophone operation on 360 meters: KDKA, East Pittsburgh, Pennsylvania, which received its initial license October 27, 1920 and began daily transmissions with election returns on November 2, 1920, and WJZ, Newark, New Jersey, which received its initial authorization in May of 1921, but did not begin regular broadcasts until the first of October. (3) Westinghouse officials had specifically requested the use of 360 meters to avoid interference from other services, (4) and the wavelength apparently had never been previously used. (5)

The status of the other broadcasting wavelength, 485 meters, prior to its assignment to the broadcasting service, is less clear. However, an experimental station, 5XD, operated by the New Mexico State College in State College, New Mexico, is reported to have used it for transmitting telegraphic "time signals, weather reports, and news items", and then, beginning in early 1920, for voice transmissions including music and educational talks. (6)

## LICENSING POLICIES AND PROCEDURES

At the time of the creation of the broadcasting service, licensing was conducted under the provisions of the Radio Act of 1912. Although the standard since the 1927 formation of the Federal Radio Commission has been that stations serve the "public convenience, interest, or necessity", (7), no comparable guideline was mandated

by the 1912 act, and licensing of the pioneer broadcast service stations amounted to little more than registration. Licensing authority at the time of the creation of the broadcasting service was vested in the Secretary of Commerce, and exercised through the Bureau of Navigation. This body operated on a much more informal basis than successor regulators. Moreover, control was much more decentralized, with oversight, performed primarily by regional Radio Inspectors, generally limited to insuring that stations met technical standards. (8)

The standard procedure for procuring a broadcast license in the early twenties was as follows: the prospective station operator filled out an "Applicant's Description of Apparatus" (Form 761), obtained from the region's Radio Inspector. (9) The completed form,

which provided mostly technical information, was submitted to the inspector, who, if deemed necessary, inspected the proposed apparatus. Next the form, including the inspection report plus a recommendation on the type of authorization to be issued, was forwarded to the Commissioner of Navigation in Washington, D.C. (10)

Here two distinct steps were taken: first call letters were assigned to the application, then, if everything was in order, a formal operating authorization was issued. The period between the assignment of call letters and formal authorization ranged from immediate action to as much as forty days, and according to Commerce records was usually in the range of one to three days.

The assignment of a call sign, usually recorded in the files as taking place when the Form 761 was received, was not considered as establishing a station. New stations were not reported in the RADIO SERVICE BULLETIN until the first operating authorization--usually a license but in a few cases a preliminary telephoned or telegraphed authorization--was issued. (11)

License periods for broadcasting stations ranged from as few as ten days (12) to one year, with one year licenses the norm for grants made until early January, 1922, six months the standard during mid-January, 1922, and three months the norm thereafter. License renewal was obtained via the submission of an updated Form 761 at the required intervals.

The above covers the standard and normally used procedures, although Commerce files report the process was speeded in a few special cases by direct letters, telegrams, and telephone conversations between applicants and Washington officials.

#### STATION DELETIONS

Station deletions in the early twenties were performed with even less formality and consistency than licensing. When a station discontinued broadcasting before the end of a license period, the station operator could return the license for cancellation. However, it appears that in most cases the station owners didn't bother--instead they just let the licenses expire in due course. Moreover, the lapse of a station license was seen as no more than the close of an operating authorization, and rarely resulted in immediate deletion from the official station lists. Generally a grace period was allowed, on the assumption that many would eventually receive another license.

The timespan between the expiration of a license and formal deletion varied greatly, and according to Commerce files most stations were not removed from the published lists until one to six months after their operating licenses had lapsed. The whole process has a distinct "we'll delete them when we get around to it" feel, and appears to have been to some degree dependent on the diligence of the district Radio Inspectors. (13) Because of the flexible deletion practices, the number of stations deleted in a given month is by no means a precise barometer of the decline in activity for that month, as the licenses for many of these stations had in fact expired a number of weeks or months previously. Likewise, official lists of this period invariably include stations no longer holding active licenses, and merely awaiting formal removal.

#### TEMPORARY STATIONS

One category of broadcasting stations has been almost completely undocumented--that of temporary grants. These were issued for special occasions, usually lasting a month or less, and were not reported in the RADIO SERVICE BULLETIN. There is very little detailed information about these grants recorded in the Commerce files, although at least seventy were issued in the period from January, 1922 to October, 1928. For temporary grants made through May, 1922, where wavelength information is recorded, the wavelength assigned was always 360 meters. (14) Detailed histories for five temporary stations operated by educational organizations can be found in EDUCATION'S OWN STATIONS. (15)



Listed below are the fifteen stations listed in Commerce files as receiving temporary grants for the period through the end of May, 1922. Commerce records for these stations are minimal, and as there is apparent source of additional information, save for those stations documented in EDUCATION'S OWN STATIONS, there can be no guarantee of completeness.

TEMPORARY BROADCAST STATION GRANTS THROUGH MAY, 1922

1st Air date	Call Assign	Call	Location	Grantee/notes
1/--	1/20	WPU	Buffalo, NY	Buffalo Courier and Enquirer
2/--	2/2	KDP	Seattle, WA	Saint James Cathedral
2/23	2/22	WHO	Kansas City, MO	Kansas City Post (2 days)
3/--	3/1	WWS	Pella, IA	Fowler Telephone Company
3/10	3/--	WBI	Marquette, MI	Northern State Normal School (2 days)
3/16	3/6	WTB	Evansville, IN	Sieffert Electric Company
3/--	3/10	WSH	New York, NY	Experiment Information Service (2 days)
3/23	3/20	WMX	Port Huron, MI	Port Huron Times Herald (also for 3/27/22)
3/27	3/9	WTA	Uhrichsville, OH	Board of Trade
3/--	3/27	WDS	Richmond, VA	Mann S. Valentine
4/16	4/15	WAAT	Jersey City, NJ	Jersey Review (also 4/19/22)
4/16	4/15	WAAU	Philadelphia, PA	H. C. Kuser
4/28	4/18	WBAC	Des Moines, IA	Kiwanas Club (2 days, also for 2 days starting 4/28/23)
5/13	5/5	WCAI	Topeka, KS	American Legion
5/--	5/31	WEAL	Des Moines, IA	Mystic Shrine, special train "to coast and back"

CALL LETTER POLICIES

One area which has been particularly murky is that of call letter policies. Following the adoption of the "Radio Act of 1912", call signs for most non-amateur services were composed of three letters. (16) Because most early commercial land stations were clustered along the coast, the original policy for land stations was that those on the Pacific coast were normally assigned calls starting with K, while calls starting with W were normally assigned to outlets along the Great Lakes and the Atlantic and Pacific coasts. (17)

With the development of inland services, further refinements were required. As land stations, broadcasters have generally followed the "K's in the West, W's in the East" standard. However, two different East-West dividing lines have been used. Originally the boundary ran along the eastern borders of Montana, Wyoming, Colorado, and New Mexico. It was only in late January, 1923 that the line was shifted to the current standard of the Mississippi River.

The rapid expansion of the ship service during World War One required utilization of four-letter calls for ship stations, including, in alphabetical order, calls from the KE--, KI--, KO--, KU--, and, starting June, 1920, KD-- blocks. (Land stations continued to generally receive three-letter calls.) The assignment of the conspicuous call KDKA to the pioneer East Pittsburgh broadcaster has been viewed as evidence of some sort of special status. However, review of the RADIO SERVICE BULLETIN shows what actually occurred was more mundane. For some reason, during the period of June, 1920 through April, 1921 most commercial land stations received calls from the four letter ship blocks, and by nothing more significant than coincidence KDKA was the only broadcaster to be born in this period. (18)

The policy of three-letter calls for land stations was restored after this lapse, until the flood of broadcasting grants required that the broadcasting service switch to four-letter calls, with Western broadcasting stations sharing the KD--, and later KF-- and KG-- blocks with ship stations, while Eastern broadcasters were assigned calls from the W-A-, and later W-B-, blocks. Some stations

received calls outside these blocks due to special requests, and eventually individual call requests became the norm.

Call letter "combinations which, for various reasons, international, national, local, or individual may be objectionable" (19) were avoided. Accordingly, in this period it was apparently decided that "WDAM" might be considered objectionable, as Commerce records show that the assignment of this particular call to a Western Electric Company station in New York City was changed after ten days, with the call WEAJ substituted. (This station is now WNBC.)

#### CRITIQUE OF PERIOD SOURCES

While preparing the chronological list of station activity some idiosyncracies of three traditional sources of licensing information became apparent. The best generally available source of information for the early twenties is the RADIO SERVICE BULLETIN, issued by the Bureau of Navigation, which reported monthly the changes, deletions, and new station grants made during the preceding month. Three important characteristics of the Bulletin have sometimes been overlooked. The first is that its station lists do not report chronologically the grants within a given month, as the Bulletin lists always used non-chronological formats, such as alphabetically by city of license or call sign. Second, a few stations entered the broadcasting service classification by metamorphosis from another service category, so their debuts are recorded in the "alterations and corrections" lists, rather than the new station lists which herald the appearance of more conventional entrants to the service. This alternate route was used by three stations in the period through May, 1922: KQV, Pittsburgh, Pennsylvania; KDPT, San Diego, California; and WRR, Dallas, Texas. Third, broadcasting station additions, changes, and deletions were not reported in a separate category until the July 1, 1922 issue. Prior to this date they were intermixed with the other classes of "commercial land stations", so care must be taken in extracting broadcast service information.

The Bulletin was not completely free from occasional typographical errors--for example, in the January 2, 1922 issue both KJB, Everett, Washington and KFL, Seattle, Washington are incorrectly listed as being broadcast grants, and one station, WGI (later WARC), Medford Hillside, Massachusetts, seems to have disappeared without benefit of official notification. However, overall there were only a few minor discrepancies between information contained in the Bulletin, and that found in government records.

Another source of licensing information proved somewhat more suspect. W. E. Downey, Supervisor of Radio at the Department of Commerce, appears to have regularly provided monthly totals of broadcasting station additions, deletions, and outstanding authorizations.(20) As seen in the listing below there are a number of discrepancies, for the period through May, 1922, between the monthly figures reported by Downey, and the information contained in Commerce records and the RADIO SERVICE BULLETIN.(21)

Month	W.E Downey Figures				Research Figures			
	New	Deleted	Increase	Total	New	Deleted	Increase	Total
1921								
Sept	3	..	3	3	4*	..	4	4
Oct	1	..	1	4	3	..	3	7
Nov	1	..	1	5	2**	..	2	9
Dec	23	..	23	28	20	.	20	29
1922								
Jan	8	..	8	36	9	..	9	38
Feb	24	..	24	60	23	..	23	61
Mar	77	..	77	137	79	2	77	138
Apr	76	..	76	213	83	..	83	221
May	97	..	97	310	96	5	91	312

\* includes WJZ \*\* includes KDKA

The most troubling feature about the Downey figures is the complete absence of deletions. In fact, Downey reports no deletions until September of 1922. However, review of the Commerce records and the RADIO SERVICE BULLETIN clearly shows that fifteen stations were deleted prior to September, beginning with two in March. Since the Downey figures do not list specific stations, the cause of the differences is not readily apparent.

Finally, the new station totals appearing in Gleason Archer's HISTORY OF RADIO TO 1926 (22) have a readily identifiable flaw. Archer's figures are inflated, because they are actually the number of new "commercial land stations" reported monthly by the RADIO SERVICE BULLETIN. As noted earlier, this means the figures erroneously include many non-broadcast service grants, and also omit a few transfers to the broadcast service that were reported in the change lists.

#### BROADCAST SERVICE ACTIVITY LIST

Presented at the close is a chronological list of broadcasting service activity for all non-temporary stations from October, 1920 to the close of May, 1922.

Most of the actions are new station grants. The information for new grants is organized according to the headers appearing at the top of each page. The additions are listed by their initial broadcasting service authorization date--normally the date of the first broadcast service license. "LIC" refers to the standard case where the first broadcast authorization was the licensing of a new station. "TRN" denotes stations whose first broadcast license was a transfer from a non-broadcast service classification, using the same call sign. "REL" refers to the relicensing of a previously deleted broadcast station. In a few cases an authorization to broadcast was made before the first license was issued. Initial authorizations by telephone and telegraph are denoted "TP" and "TG" respectively. "STA" stands for a "Special Temporary Authorization", while "AUT" appears for one station where the records merely list it as "authorized".

Included with the initial authorization date is the call sign, city of license, and station owner, plus frequency assigned. "E" stands for the entertainment wavelength of 360 meters (833 KiloHertz), and "M" denotes the market and weather wavelength of 485 meters (618 kiloHertz).

The next column covers the call letter assignment information, which as noted earlier was a part of the application process, and took place prior to the issuance of an operating authorization. The three entries here are the date of the call assignment, the form of the request, and the origin of the request. In most cases the standard procedure was followed, with the application process begun with the receipt of a Form 761 from a regional Radio Inspector. The nine radio inspection districts were headquartered in the following locations:

- |                           |                              |
|---------------------------|------------------------------|
| 1. Boston, Massachusetts  | 6. San Francisco, California |
| 2. New York, New York     | 7. Seattle, Washington       |
| 3. Baltimore, Maryland    | 8. Detroit, Michigan         |
| 4. Savannah, Georgia      | 9. Chicago, Illinois         |
| 5. New Orleans, Louisiana |                              |

In addition, a few of the Form 761s came via Norfolk, Virginia.

Most exceptions to the standard procedure occurred when the station owners ("OWN") dealt directly with Washington, via telephone ("TP"), telegraph ("TG"), letter ("LET"), or call letter reservation ("RES"). In one case W. E. Downey ("WED") was listed as the person involved in making the call assignment.

The next column notes the date of the first broadcast service license and the duration of that initial license. The final "status" column lists the eventual fate of the station--either its deletion date (with call sign if different from the original) or status as of September 1, 1987.

When only the month of an action is known, usually reflecting data derived from the RADIO SERVICE BULLETIN, two dashes appear for the day the action took place. A "(?)" marks a "best guess" required because of incomplete or ambiguous information, which in most cases should not be more than a few days off. As might be expected, some errors, both in the original records and during the research process, must be assumed to have crept in. However, extensive cross-referencing of original records and other source material should insure that errors have been minimalized. Moreover, it is certain that these 319 grants comprise the complete roster of non-temporary broadcasting authorizations issued during this period.

The one entry which must be viewed with due caution is that of current status. Unlike human beings, which have clearly defined births, lives, and deaths, these stations sometimes had very complicated histories, complete with resurrections, call sign and ownership changes, consolidations of two or more stations under a single call, and facility exchanges. Review of the station histories in EDUCATION'S OWN STATIONS will give a good idea of the tumultuous histories some of these stations enjoyed. This caveat notwithstanding, the status information was included to provide a feel for the outcome of these stations as a class, even though a few station histories are really too tangled to allow refinement to a single entry. One general standard for status column entries was that, in case of doubt, the nod was given to interpretations which provide continuity and longevity. In particular, stations which were deleted but then immediately relicensed were treated as having a single unbroken lifespan, so deletion dates are those where the final unreversed deletion took place, and stations still active might have been deleted and relicensed somewhere along the way.

#### SUMMARY

The information presented will hopefully provide a more complete understanding of the policies of the period, and permit more detailed analysis of the development of the broadcast service. For instance, the chronological list of new broadcast station grants clearly shows the abrupt shift from the slow initial expansion of the service though November of 1921, with the grand total of nine grants dominated by northeastern and midwestern radio equipment firms, to the popular expansion that began in December of 1921, when owners of all kinds sponsored stations. In fact, this popularization has every appearance of a rapidly spreading West Coast fad, as fully sixteen of the twenty-two grants made from December, 1921 to January 4, 1922 were for West Coast facilities.

#### NOTES ON SOURCES

The original card files for broadcasting stations, maintained by the Commerce Department, comprised the basic source of station information through the period up to the March, 1927 assumption of regulatory authority by the Federal Radio Commission. [NOTE: A major component of the Commerce files used for this research no longer exists. The nature of the Ownership card files, which held licensee and license date data, was apparently misunderstood, and according to FCC employee Mary McDonald these files were declared in August, 1987 to be "no longer needed" and destroyed]. Information from that point forward is included in the Federal Communications Commission station card files. Both sets of cards are currently available through the Mass Media Bureau of the Federal Communications Commission, and as of September, 1987 obtainable from the Public Reference Room located on the second floor of 1919 M Street, Northwest, Washington, D. C.

Information from the basic resources was double-checked against a number of sources, the most important being the grant, deletion, and cumulative station lists appearing in the RADIO SERVICE BULLETIN, the original station licenses and 761 Forms archived at the Washington National Records Center in Suitland, Maryland, and an undated "List of First Stations Licensed for Broadcasting" (through March, 1922, with a few omissions), which was prepared by FCC personnel, but had no additional identification, and was obtained through the Broadcast Pioneers Library in Washington, D. C.

NOTES:

- (1) Gleason L. Archer, HISTORY OF RADIO TO 1926, (New York, NY, American Historical Society, 1938), p. 215-216
- (2) United States Department of Commerce, Bureau of Navigation, "Amendments to Regulations", RADIO SERVICE BULLETIN (No. 57), January 3, 1922, (Washington, DC, Government Printing Office, 1922), p. 10
- (3) Gleason L. Archer, HISTORY OF RADIO TO 1926, (New York, NY, American Historical Society, 1938), p. 203, 208, 217
- (4) Eric Barnouw, A HISTORY OF BROADCASTING IN THE UNITED STATES, volume 1, A Tower in Babel (New York, Oxford University Press, 1966), p. 69
- (5) KDKA and WJZ did not receive broadcasting service licenses until November 7, 1921 and September 30, 1921 respectively. However, these two stations are considered for the purposes of this review to mark the start of the broadcast service, and unless otherwise noted are listed according to their initial 360 meter grants.
- (6) S. E. Frost, EDUCATION'S OWN STATIONS, (Chicago, IL, University of Chicago Press, 1937), p. 246
- (7) "The Radio Act of 1927", section 9, and the "Communications Act of 1934", section 307(a)
- (8) Eric Barnouw, A HISTORY OF BROADCASTING IN THE UNITED STATES, volume 1, A Tower in Babel (New York, Oxford University Press, 1966), p. 95
- (9) The United States was divided into nine Radio Inspection Districts, with the region's Radio Inspector headquartered at a major port of each district. United States Department of Commerce, Bureau of Navigation, "Radio Broadcasting", RADIO SERVICE BULLETIN (No. 60), April 1, 1922, (Washington, DC, Government Printing Office, 1922), p. 23
- (10) Form 761 instructions; United States Department of Commerce, Bureau of Navigation, "Radio Broadcasting", RADIO SERVICE BULLETIN (No. 60), April 1, 1922, (Washington, DC, Government Printing Office, 1922), p. 23; C. Joseph Pusateri, ENTERPRISE IN RADIO: WWL AND THE BUSINESS OF BROADCASTING, (Washington, DC, University Press of America, Inc., 1980), p. 18-19, 24-25
- (11) United States Department of Commerce, Bureau of Navigation, "Land Station Licenses", RADIO SERVICE BULLETIN (No. 61), May 1, 1922, (Washington, DC, Government Printing Office, 1922), p. 15
- (12) The initial license for WDT, Ship Owner's Radio Service in New York, NY, was for only ten days, as there was concern that the station might cause interference.
- (13) A number of station files refer to a letter from the Radio Inspector as the impetus for deletion.
- (14) The Radio Corporation of America's temporary grant for WJY, Hoboken, New Jersey, used to report the Dempsey-Carpentier prize fight on July 2, 1921, is not considered in this review to be part of the broadcasting service, as it transmitted on the longwave wavelength of 1600 meters (187 kilohertz).
- (15) The five review are: Bancroft School, Haddonfield, NJ (WRAQ); Gardenville High School, Gardenville, NY (WGHS); Gettysburg College, Gettysburg, PA (WDBG); Milton College, Milton, WI (WSAM); and Northern State Normal School, Marquette, MI, (WBI).
- (16) Government stations received calls starting with N, and until October, 1928, when W and K prefixes were added, amateur and special land stations had calls composed of the district number followed by two or three letters.

(17) United States Department of Commerce, Bureau of Navigation, RADIO STATIONS OF THE UNITED STATES, July 1, 1914, (Washington, DC, Government Printing Office, 1914), p. 6

(18) Two non-broadcast service stations first licensed during this period, KDPM, Cleveland, OH, and KDPT, San Diego, CA, later transferred to the broadcast service. Both were eventually deleted.

(19) United States Department of Commerce, Bureau of Navigation, RADIO STATIONS OF THE UNITED STATES, July 1, 1914, (Washington, DC, Government Printing Office, 1914), p. 8

(20) Hiram L. Jome, ECONOMICS OF THE RADIO INDUSTRY, (Chicago, A. V. Shaw Company, 1925), p. 78 (through August, 1924), and "The Broadcast Hotel is Overcrowded", Radio in the Home, April, 1925, (H. M. Neely Publishing Company, Philadelphia, PA, 1925), p. 28 (through February 12, 1925)

(21) The research information is based on the list of broadcast service activity appearing at the close. This information agrees fully with that appearing in the RADIO SERVICE BULLETIN, with the exception of three stations--KFI, KOJ, and WBAZ--listed by the Bulletin as being April grants. These stations are recorded in Commerce files with license dates of March 31st for KFI, and May 1st for KOJ and WBAZ.

(22) Gleason L. Archer, HISTORY OF RADIO TO 1926, (New York, NY, American Historical Society, 1938), p. 241 (Monthly grant totals for August, 1921 to May, 1922)

Thomas sent a list of the first 300 or so station authorizations, which goes on for several pages. Rather than printing the whole thing, we're only listing the first three "pages". If you want the whole list, send \$1.00 plus a big SASE with 73¢ postage. bp

Type	Owner	Call	Loc	Call	Asgn	First Lic
Type	Owner	Freq	Type	Loc	Duration	Status
LIC	10/27/20 KDKA East Pittsburgh, PA Westinghouse Elec & Mfg Co	E	761	DET	11/07/21	KDKA-1020 Pittsburgh, PA
LIC	05/--/21 WJZ Newark, NJ Westinghouse Elec & Mfg Co	E	--/--	--/--	09/30/21	WABC-770 New York, NY
LIC	09/15/21 WJZ Springfield, MA Westinghouse Elec & Mfg Co	E	--/--	--/--	09/15/22	WBZ-1030 Boston, MA
LIC	09/19/21 WJY Roselle Park, NJ Radio Corporation of America	E	09/16/21	09/19/21	DEL 02/20/23	DEL 02/20/23
LIC	09/29/21 WJZ New Haven, CT A. C. Gilbert Company	E	761	NYC	09/29/21	DEL 12/01/22
LIC	10/13/21 KOL Los Angeles, CA Arno A. Kluge	E	--/--	--/--	10/13/21	DEL 06/09/22
LIC	10/13/21 WBL Detroit, MI Detroit News	EM	10/06/21	10/13/21	WMJ-950	Detroit, MI
LIC	10/13/21 WJX New York, NY De Forest Radio Teleg & Teleg	E	10/05/21	10/13/21	DEL 06/--/24	
7TP	11/09/21 KTW Chicago, IL Westinghouse Elec & Mfg Co	E	11/09/21	11/15/21	KYW-1050	Philadelphia, PA
LIC	12/07/21 KKG Stockton, CA Portable Wireless Telephone Co	E	12/07/21	12/07/21	KWG-1230	Stockton, CA
LIC	12/08/21 KGN San Francisco, CA Leo J. Meyberg Company	E	12/03/21	12/08/21	DEL 05/01/23	
LIC	12/08/21 KFC Seattle, WA Northern Radio & Elec Company	E	12/03/21	12/08/21	DEL 01/23/23	
LIC	12/08/21 KGB San Francisco, CA Edwin L. Lorden	E	--/--	--/--	12/08/21	DEL 03/23/22
LIC	12/08/21 KCC Hollywood, CA Electric Lighting Supply Co	E	--/--	--/--	12/08/21	KRX-1070 Los Angeles, CA
LIC	12/08/21 WJH Washington, DC White & Boyer Company	E	12/03/21	12/08/21	DEL 03/26/24	
LIC	12/09/21 KQM San Jose, CA Charles D. Herrold	E	12/07/21	12/09/21	KCBS-740	San Francisco, CA
LIC	12/09/21 KVO Sacramento, CA J. C. Aobrecht	E	12/07/21	12/09/21	DEL 01/02/23	
LIC	12/09/21 KXJ Los Angeles, CA Leo J. Meyberg Company	E	12/07/21	12/09/21	DEL 05/01/23	

add# list Auth Call Location		[Call Asgn First Lic		Call Asgn First Lic					
Type Owner	[Freq Type Loc	[Duration	[Status	9/1/87	[Type Owner	[Freq Type Loc	[Duration	[Status	9/1/87
19	12/09/21 KZC Los Angeles, CA	12/07/21	12/09/21	DEL 03/09/23 (KOG)	37	01/26/22 WDC Toledo, OH	01/26/22	DEL 01/02/23 (MBAJ)	
LIC	Western Radio Electric Company	E	761 SF	1YR	LIC	Marshall-Genken Company	EM	---/--/-- 3M	
20	12/09/21 KZN Oakland, CA	12/07/21	12/09/21	DEL 06/23/31	38	01/26/22 WK Indianapolis, IN	01/18/22	DEL 06/01/23	
LIC	Preston D. Allen	E	761 SF	1YR	LIC	Hamilton Manufacturing Company	E	761 CHI 3M	
21	12/09/21 KZY Oakland, CA	12/07/21	12/09/21	DEL 01/24/23		02/02/22 Change KZC [19] Los Angeles, CA			
LIC	Atlantic-Pacific Radio Suppl	E	761 SF	1YR		CHLL: KOG			
22	12/20/21 KJJ Sunnyvale, CA	12/16/21	12/20/21	DEL 06/16/23	39	02/03/22 WGH Montgomery, AL	02/01/22	DEL 06/05/22	
LIC	The Radio Shop	E	761 SF	1YR	LIC	Montgomery Light & Power Co	EM	761 MO 3M	
23	12/20/21 KJQ Stockton, CA	12/16/21	12/20/21	DEL 04/--/25 (?)	40	02/04/22 WGY Schenectady, NY	02/03/22	DEL 04/22 WGY-810	
LIC	C. O. Gould	E	761 SF	1YR	LIC	General Electric Company	E	761 NYC 3M	
24	12/20/21 KYY San Francisco, CA	12/16/21	12/20/21	DEL 01/24/23	41	02/07/22 WGI Medford Hillside, MA	02/01/22	DEL 04/--/27 (?)	
LIC	The Radio Telephone Shop	E	761 SF	1YR	LIC	American Radio Research Corp	E	761 BOS 3M	
25	12/22/21 WDM Washington, DC	12/22/21	12/22/21	DEL 06/08/25	42	02/08/22 KGF Pomona, CA	02/01/22	DEL 12/06/22	
LIC	Church of the Covenant	E	761 BAL	30D	LIC	Pomona Fixture & Wiring Co	E	761 SF 3M	
26	12/22/21 WDF New York, NY	12/22/21	12/22/21	DEL 12/28/23	43	02/08/22 WGL Philadelphia, PA	02/01/22	DEL 12/31/24	
LIC	Ship Owners Radio Service	E	761 NYC	10D	LIC	Thomas F. J. Howlett	E	761 BAL 3M	
27	12/22/21 WDW Washington, DC	12/22/21	12/22/21	DEL 05/--/22	44	02/13/22 KUO San Francisco, CA	02/14/22	DEL 01/21/26	
LIC	Radio Construction & Elec Co	E	761 ---	30D	LIC	Examiner Printing Company	E	761 SF 30D	
28	12/29/21 WOU Omaha, NE	12/29/21	12/29/21	DEL 06/23/23	45	02/15/22 WOK Pine Bluff, AR	02/15/22	DEL 06/--/24	
LIC	R. B. Howell	EM	761 ---	1YR	LIC	Pine Bluff Company	E	ASN --- 3M	
29	12/30/21 WHH Cincinnati, OH	12/29/21	12/30/21	DEL 12/11/23	46	02/16/22 WOZ Richmond, IN	02/16/22	DEL 04/09/23	
LIC	Precision Equipment Company	EM	761 DET	1YR	LIC	Palladium Printing Company	EM	LET OMN 3M	
30	01/04/22 KLB Pasadena, CA	01/03/22	01/04/22	DEL 04/25/23	47	02/17/22 WOQ Kansas City, MO	02/16/22	DEL 06/14/34	
LIC	J. J. Dunn & Company	E	761 SF	1YR	LIC	Western Radio Company	EM	761 CHI 3M	
31	01/04/22 KLP Los Altos, CA	01/03/22	01/04/22	DEL 03/09/23	48	02/18/22 WOC Rock Island, IL	02/18/22	DEL 06/14/22 WOC-1420	
LIC	Colin B. Kennedy Company	E	761 SF	1YR	LIC	Karlawa Radio Company	EM	761 --- 3M	
32	01/09/22 KQV Pittsburgh, PA	01/09/22	01/09/22	KQV-1410 Pittsburgh, PA	49	02/20/22 WOH Indianapolis, IN	02/18/22	DEL 02/14/23	
TRN	Doubleday-Hill Electric Co	E	---/--/--	---	LIC	Harfield Electric Company	E	761 CHI 3M	
33	01/10/22 WFP Pittsburgh, PA	01/10/22	01/10/22	DEL 05/05/22	50	02/20/22 WOR Newark, NJ	02/17/22	DEL 02/20/22 WOR-710	
LIC	Newspaper Printing Company	E	761 ---	6M	LIC	L. Bamberger & Company	E	761 NYC 3M	
34	01/13/22 WWA Madison, WI	01/13/22	01/13/22	WHA-970 Madison, WI	51	02/21/22 WBU Chicago, IL	02/21/22	DEL 11/07/23	
LIC	University of Wisconsin	EM	---/--/--	6M	LIC	City of Chicago	E	761 CHI 3M	
35	01/13/22 WLB Minneapolis, MN	01/13/22	01/13/22	KUOH-770 Minneapolis, MN	52	02/21/22 WHK Cleveland, OH	02/20/22	DEL 02/21/22 WHK-1420	
LIC	University of Minnesota	EM	---/--/--	6M	LIC	Warren R. Cook	E	761 DET 3M	
36	01/18/22 WNO Jersey City, NJ	01/18/22	01/18/22	DEL 03/--/23 (?)	53	02/23/22 WOS Jefferson City, MO	02/20/22	DEL 03/27/36	
LIC	Wireless Telephone-Hudson City	E	761 NYC	6M	LIC	Missouri State Marketing Bur	EM	761 CHI 3M	

INTERNATIONAL RADIO CLUB OF AMERICA (IRCA)

The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the AM Broadcast Band (510 - 1630 kHz). "DX Monitor", the official publication of the IRCA, is published 34 times a year, weekly from October to March, twice in September and April, and monthly from May to August. "DX Monitor" contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.



CLUB ADDRESSES AND OFFICERS

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International Radio Club of America  
P.O. Box 21074  
Seattle WA 98111

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