



DX NEWS

the magazine of the
National Radio Club

— SINCE 1933 —

Volume 56, No. 17 - Monday, January 30, 1989 (ISSN 0737-1659)

DX Tests ...

February ... Two tests are tentatives for this month, according to Dave Schneider: WCBA-1350, Corning, NY, will test on one MM early in the month with 1,000 ND, and WHVW-950, Hyde Park, NY will test in mid-February either SM or MM on the 18th or 19th or possibly the following week. Dave promises more details on these and more tests.

Inside ...

2 - AM Switch	13 - Finnish DX meeting
3 - DDXD-E	14 - WFAA news, 1959
8 - DDXD-W	16 - KLIF
9 - FCC Rules	17 - Skywave propagation
10 - WIRE	18 - HDR
	19 - Motown radio
	20 - Philly radio

From the editor ...

More details, details ... while I was singing the praises of the USPS in #16, #15 was still lying in the regional USPS center ... for what reason I don't know. That's why you received #15 a scant day before receiving #16 at the regular (I hope) time. And Jerry Starr reported receiving a mangled #14. Oh, well, maybe DX will improve ...

Columns ... Welcome to new Bandscan editor Chris Cuomo. Effective immediately you may send your bandscans to him at 670 Third Avenue - Verona, PA 15147-1349. Thanks to outgoing editor John Malicky for his work, too.

By the time you read this, the problems with Musings will have been resolved, and this important column will most definitely be back on a weekly, up-to-date basis. Many thanks to all of you who have sent your comments about DXN. I just wish that we'd see a similar increase in contributions to the regular columns. Conditions aren't wonderful, to be sure, but if I can hear Turks and Caicos-1570 with minimal interference (1-19) in Topeka, someone must be hearing something worth reporting. When in doubt, send in your reports anyway, and let the editors edit.

They joined ... Barry Shinall, Cedar Bluff, VA; Fred Reuss, Blaine, MN, and Steven Neumann, WA2FSO, Rocky Point, NY. Welcome, gentlemen!

DXChange ... Ray Cole - Rt. 3, Box 304 - Cape Girardeau, MO 63701-9543 is looking for a PCIM 177 digital LCD readout module to buy.

The Pub Center has discovered a box of NRC 50th Anniversary books and is selling them at \$12

US/Canada; non-members \$15, overseas, write. The 1980 version of the Nighttime Antenna Pattern book is still available at \$5 for members, \$6.50 non-members. Most patterns are still good. First come, first served on both books. Address of the Pub Center is on p. 24.

NRC Ham List ... Fred Vobbe is planning to publish a list of NRC members who also are radio amateurs, and he'd like for those who are to send their calls, class, and sked to 706 MacKenzie Ave - Lima, OH 45805-1835.

DX Time Machine

From the pages of DX News

Forty years ago ... from the January 22, 1949 issue, courtesy of "The Old Timer": 39 tests, with "remainder of DX programs omitted for lack of space". Tests included CMHX-1480 (or 1485), Santa Clara, Las Villas, Cuba, and XEPP-1400 Ensenada, Baja California ... Musings typed this week by Ray Ege because Lefty was in a play ... Club dues were \$3 per year for 34 issues. Dick Northrup, Socorro, NM, reported that KTYL received a report from New Zealand ... Kermit Geary received 14 veries in a week, including 7 "K" calls and 1 "XE" call. He also heard Lima, Peru on 1050 ... Carroll Seth was in the process of getting a Hallicrafters SX-42 and selling his Super Pro.

Twenty-five years ago ... from the January 18, 1964 issue: Howard McClain, West Seattle, WA logged the following during the first week in January: HRN-670, YSS-655, YNOL-875, TIW-775, and the 1-6 KEYS-1440 special ... Others logging the KEYS special included Bernie Duffy, Staten IS, NY; Maurice Nittler, Englewood, CO; Ken Butterfield, Plymouth, MI; Adolph Rattay, Warren, OH; Len Dunikowski, Cranford, NJ; and Ron B. Schiller, Monmouth Beach, NJ ... Charles Reh, Leamington, ON logged KRUS-1490, KGU Y-760, KZOO-1210 KYA-1260 (with a sign-off, in the clear), KHVH-1040, KRLA-1110, KRKD-1150 u/XEJP, and KRVN-1010 plus others from 12-22 through 1-9.

Ten years ago ... from the January 29, 1979 issue: Many South American loggings were listed in the IDX, including R. Mundial-860 Brazil, HCB02-905 Ecuador, HCHW2-1450.9, an unID on 885 which might have been Paraguay, and many Colombians and Venezuelans ... and Bruce Conti, West Warwick, RI, got a "round tuit" and fixed his SW-717!

THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB

AM SWITCH

Jerry Starr

c/o WHOT Radio, 4040 Simon Road, Youngstown, OH 44512

CALL LETTER CHANGES

Old call: New call:
 900 WDVT PA Philadelphia WURD

APPLICATIONS FOR NEW STATIONS

None

GRANTS FOR NEW STATIONS

1170 DE Laurel: 5000 D3
 VA Falmouth: 2500 D3

APPLICATIONS FROM EXISTING FACILITIES

1130 WEEO PA Waynesboro: 5000 watt increase mentioned last issue also includes move of city of license to Greencastle, PA

GRANTS TO EXISTING FACILITIES

None

OTHERNESS

820 WOSU OH Columbus: fulltime CP is on the air
 1200 CHMG AB St. Albert: station is now here ex-1070 kHz, call IS correct, CKST remains on 800 in BC (to clear up a question posed about 8 issues ago)
 1400 WWXX GA Alpharetta: silent station was back on the air for a short period is SILENT once again, studio is now a dentist's office so their brief Biz Nx programming may have come from their XR site.

THANKS to members Eric Bueneman, Bill Hardy & Dick Truax for contributions!

FCC INFO As you can notice above, very little information has come from the Commission for this issue, a reflection of two back-to-back short work weeks due to the holidays. And, a note on the stagnant state of AM radio, this week EIGHT new stations went on the air, ALL were FMers.

73 and Good DX, *Jmy & BKF* Jerry Starr & Buffalo K. Foonman

CITY QUIZ

John S. Bowker, Valparaiso, IN

Quiz # 19

Only one city in the United States has stations operating at the five dial positions shown below. Of course, there may be other stations in this city too! Can you spot the city?

570 660 1040 1080 1480

Here is a hint: it is one of these: Des Moines, Hartford, Dallas
 (The answer will appear at the end of the next City Quiz in DX News.)
 The answer to City Quiz # 18: Detroit

NRC AM Radio Log

The most up-to-date listing of domestic MW stations available, anywhere! 200 pages, three-hole punched, \$12.95 each, to U. S. NRC members; \$13.95 Canadian NRC members; others write.
 Send orders to Publications Center

DOMESTIC DX DIGEST - EAST

William Hale

2160 Farm To Market Road, Johnson City, NY 13790

MEDIUM WAVE ramblings

■ A big DDXD-E welcome to Guido Urzi of Mastic Beach, NY, who checks in with his initial contribution. And a fine one it is. Here's hoping more members follows Guido's example.
 ■ I just recieved a list of Graveyard receptions from Esa Hänninen of Espoo, Finland. I'm sure a few distance records will be claimed by Esa. Results of my calculations will appear next week.
 ■ Wendell Ford is offering airchecks for KMPC-710 and/or KJR-850 off a satellite feed. Just send him a cassette with return postage and specify what you want to hear. Aircheck time is 2300-0300 ELT. Wendell's address is: 805 North 825 East Westville, IN 48381-8403. Just another service from your friends at NRC (Now we're Really Cookin').
 ■ Wendell Ford also reports hearing a news story on WGN that high winds toppled one of KCBS' towers. Maybe we'll hear something 'bout that in DDXD-W.

SPECIAL

740 WDFZ TN TULLAHOMA - 12/29 0320-0400 in/out with OLD on 2-74 Tullahoma playing Pure Gold (WPF-IN)
 770 WVNN AL ATHENS - 12/29 0321-0330+ noted with LK; add this to your log; strong in WBBM splash/WABC null (WPF-IN)
 880 WFKJ PA CASHTOWN - 1/11 1145-1200 with sermon, CBN Nx @ noon; Working For King Jesus slogan; hrd while driving near Harrisburg (GV-PA)
 1000 WLUP IL CHICAGO - 1/1 0152 noted off; nothing else heard (DS-WI)
 1180 WACY MI FENTON - changed CLS @ 1500 on 1/10; still C&W but has a lot of novelty tunes & listener call-ins; IDs as: Wacky Radio; now owned by Deano Day, who does the afternoon shift, as well as the morning show @ CKMR-FM in Windsor (CR-ON)
 1170 KSTT IA DAVENPORT - 1/1 0400 noted off while passing thru Davenport, is apparently still silent, despite reports it had been back on air (KFMH 99.7 (99 Plus), one of my favorite FMers (RD-IA2)
 1340 WYOM PA WILKES-BARRE - formally WPLJ, now WYoming Valley Country; also Boston Celtics BKB (GV-PA)
 1420 WACT AL TUSCALOOSA - 1/2 0412 with simul of 105(.5) WACT; wx 48' currently with rain moving in after midnight; lat-timer in WOC null--no WHK (WPF-IN)
 1430 WNKR NJ NEWARK - I believe still listed as WNJR in NRC references; has been IDING as WNKR (3rd time I've hrd it); format: BLK/soul (GJ-NJ)
 1580 KTSS IA DAVENPORT - 1/4 1858-1718 XLNT with mx from The Rolling Stones, Lynnyrd Skynnyrd, Bob Segar & Aerosmith; per conversation with a friend from area, stn began simul with with WKLP 96.9 (97X) the preceding Midnight, thus assuring the Quad Cities of at least 1 AOR outlet on AM (see 1580) (RD-IA)

UNIDs AND UNIDs ID

810 UNID ?? - 12/24 0102 fair under KCMO with sign-off & SSB; might have this been WSJC going off a bit early? (RD-IA1)
 830 UNID ?? - 1/4 1817-1834+ strong! SS from Cuba. #840; 11 on the 10-dot S-meter! h1 (WPF-IN) [Probably our unID of late-WRH]
 1200 UNID ?? - 1/2 0249-0254 with Best of King under WOAI; possibly WAGE? (WPF-IN)
 1240 UNID ?? - 12/19 2240 poor+fair with Illinois vs Missouri BKB; this is either WEBQ or WTAX, as WSDR was doing the Bears/Vikings game that night (RD-IA1)
 1550 UNID ?? - 1/7 0647-0658 alone on channel with OLD mx, slogan: Your Favorite oldies but goodies stn, Magic 15 2; DJ was Shawn Emory; lost to CBE sign-on (BH-NJ) [WCCZ-FL...a good bet, see 1550 in Midnight to Midday-WRH]

DX/EQUIPMENT TESTS

550 WASG AL ATHORE - 12/19 0400 hrd TT & CID over/under WKRC/KUSA; very tough with WIND splash (WPF-IN)
 710 WOR NY NEW YORK - 1/2 0332 noted with TT & OC; with Cuban/CKVM (WPF-IN)

- 750 WSB GA ATLANTA - 1/8 0318 noted completely off, only 5-8 dot S-meter SS noted, possibly Nicaragua, but didn't seem to be from that direction; back on by 0447 (WPF-IN)
- 1480 WBET MA BROCKTON - 1/2 Midnight-0030 fair with TTs, CIDs (EQ BX TEST) & VIDs (RD-IL1)
- WBET MA BROCKTON - 1/2 0100-0130 weak, under CKRB/WCMB with TTs, CIDs, VIDs (BH-NJ)
- WBET MA BROCKTON - 1/2 0122-0127 TTs, CIDs, & message of Testing in cooperation with the NRC hrd over KSO & WBNS?; 1st new one in '89; Thanks, Peter (WPF-IN)

MIDNIGHT TO MIDDAY

- 550 WGR NY BUFFALO - 1/2 0308-0314+ good with MOR/OLD over/under KFYZ! while the usual WKRC/KUSA were nowhere to be found; 1st-timer in WIND splash (WPF-IN)
- 560 WQAM FL MIAMI - 1/3 Midnight ID jk+NBC Nk, ads for Pat Sajak Show, Music of America record offer (GU-NY)
- 610 WIOD FL MIAMI 1/9 0522 with traffic, color radar (wx), promo for Miami Hurricanes vs Virginia Commonwealth; ID:News-Talk Radio, WIOD (GU-NY)
- 690 KVNA AZ FLAGSTAFF - 12/1 0808 with Grand Canyon mentioned in wx, folded by Flagstaff temp; AM-FM ID; poor+fair with CBF (FM-IL)
- 720 CHTN PI CHARLOTTETOWN - 1/2 0137-0148 good in WGN null with WOR-710 off & OC; with ROK mx, DJ with IDs, local ads, ferry schedule (BH-NJ)
- 810 WQIZ SC ST GEORGE - 12/20 0820-0840 good over WGY with GOS mx, ads for SC Federal, Southern Bell phone book (GV-PA)
- 850 WEAT FL WEST PALM BEACH - 1/6 0500 EZL mx, wx ✓, ID:AM 850, FM 104.3 (GU-NY)
- WRMR OH CLEVELAND - 12/3 while listening to *Mystery Theatre* on KOA @ 0229, they took a very deep fade, completely disappearing for about a minute; now I had a guy giving WRMR's mailing address, asking people to send in their 3 favorite songs of all time (format:MoYL/Standards); WRMR new for me (FM-IL)
- WRMR OH CLEVELAND - 12/28 0900 ID:This is WRMR, Cleveland+AP Nk (GU-NY)
- WNIS VA NORFOLK - 12/20 0710-0720 up briefly, faded +WKIX; call-in format (GV-PA)
- 880 CKLQ MB BRANDON - 1/2 0058-0058 fair under WCBS with mx from Gordon Lightfoot+KLQ ID; hardly any WLS splash at all (RD-IL1)
- CKLQ MB BRANDON - 1/2 0200-0220 fair+good with old C&W mx; IC @ 0208 8 minutes past 1 with ID; definite CKLQ ID @ 0215; 0218 promo for something on Q-Country (DS-WI)
- 920 WHEL FL MELBOURNE - 1/6 0530 local nx, wx, FNN Business Report, ad for Ace Hardware (GU-NY)
- 930 WRXJ FL JACKSONVILLE - 12/8 0300 ID:Playing the greatest hits of all time, Jacksonville's 930, WRXJ; this does not constitute a legal ID (FM-IL)
- 980 KFWB CA LOS ANGELES - 12/3 0418 with plenty of Calif HS scores, and local ad with 818 area code; CLs hrd a few minutes later; poor with KMBZ/WONE/WSIX (FM-IL)
- 1070 WGOS NC HIGH POINT - 12/5 0711 OLD ROK & Stick around, you've got the cides from WGOS; good, and a nice surprise on a crowded frequency (FM-IL)
- 1080 WFTD GA MARIETTA - 12/6 0731 with 32' in Atlanta, keep your dial set to Inspirational 1080, WFTD; fair (FM-IL)
- 1110 WHIM RI EAST PROVIDENCE - 1/6 0828 Doggone Weekend Giveaway promo, mx by Janie Fricke, wx ✓; weak under WBT (GU-NY)
- 1130 KWKH LA SHREVEPORT - 12/19 0400 strong with Inspirational Hymn of the Day, ID for AM/FM with Bossier City+MBS Nk (WPF-IN)
- 1220 WFKN KY FRANKLIN - 12/9 0700 starting KY Net Nk (I presume they had just signed on); local ad break @ 0703 for pharmacy serving Franklin's prescription needs; good (FM-IL)
- WLPO IL LA SALLE - 12/16 0153-0200 over/under UNID CLA mx (CJRB?) with Talknet; ID+NBC Nk (RD-IA1)
- 1280 WJOT SC LAKE CITY - 12/5 0600 sign-on included WGFG-100.1 data; fair (FM-IL)
- 1370 WTAB NC TABOR CITY - 12/13 0842 with ID:Radio @ its finest, WTAB, the best for you for the holidays...#1 in the two Carolinas; fair, #1001 logged, very pleasant surprise as it's quite far East (FM-IL)
- 1440 WGSF SC GREENVILLE - 12/7 0800 with Greenville part of legal ID @ tune-in, immediately+ABC Nk; it was here I learned of Roy Orbison's death; fair (FM-IL)
- 1450 WILM DE WILMINGTON - 1/14 0529-0532 with news briefs mentioning Wilmington and surrounding areas; ment:1450... WILM+undistinguishable mx, just above the GY mess; DE #1, finally, and it's a GYer! (WRH-NY1)

- 1470 KYUU KS LIBERAL - 12/9 0800 with KSLS/KYUU with legal ID, completely blowing WMBD away, which was already on day pattern; also noted Liberal's 1270 blasting away (FM-IL) [Frank, these are correct CLs...UNEEDA new log-WRH]
- 1510 WJIC NJ SALEM - 1/7 0715-0729 good but fading with local WHHQ silent, with sign-on, C&W mx, Just Country 15-10 slogan (BH-NJ)
- 1550 WCCZ FL NEW SMYRNA BEACH - 12/9 0540 sign-on (strange time! Did somebody oversleep?) saying 1000 watts days, 83 watts nites on the Magic 1550; format is R&R OLD; this 83 watter gets out exceptionally well, I think! fair+good; I hrd this a few times in Ohio, try it! (FM-IL)
- WOKJ MS JACKSON - 12/12 0853 said it's 35'; 50,000 watts...WOKJ, then+COUNTRY!! When did they do that? This was a BLK stn since at least the 60's; strong on Superadio (FM-IL)
- 1580 WKKD IL AURORA - 12/19 0521 very good with Beatles tune, then+Bobby Vinton+HWYAT/WLAP on AM \$, WKKD; ed for 24-hour bank teller; perhaps 250 watt night CP is up & running as no Canadian Clear power is listed in Log (WPF-IN)
- 1600 WSNX MI MUSKEGON - 1/2 0300 very poor with CHR, WSNX ID @ 0300 (DS-WI)

MIDDAY TO MIDNIGHT

- 540 KNNX NM LAS VEGAS - 11/24 1850 with ad for place on East Lincoln in Las Vegas; XLNT, this stn is very much alive; in SS (FM-IL)
- 590 WARM PA SCRANTON - 1/9 2010 with local nx, ment of TV 48 WBRE being back on the air after tower was downed; ID:Where news comes 1st; buried under strong SS stn (GU-NY) [WBRE is channel 28-WRH]
- 830 KFLT AZ TUCSON - 11/24 1928 with 23 past the 5, 60' here in downtown Tucson > 2 segued REL songs; then ment'd listeners who would lose KFLT until 7:00 tomorrow morning due to power cut but they must've forgotten to hit the switch as they were still there @ 1940; good (FM-IL)
- 880 KOSE AR OSCEOLA - 1/4 1747 a brief mention of the CLs before fading, in CJBC null; would be 1st-timer, but not enuf info to count (WPF-IN)
- 910 WLAS NC JACKSONVILLE - 12/29 2221 annrcr Charlie McLain IDD as Music Country+C&W mx (GU-NY)
- 920 WBAA IN WEST LAFAYETTE - 1/2 2359 over/under WOKY with sign-off:Public Radio for Purdue Univ+SSB; GO BOILERS!! (RD-IL1)
- CKCY ON SAULT STE MARIE - 1/1 1805-15+ poor+fair with CHR; Power 92 slogan+local wx @ 1811 (3-8 centimeters of snow, -3C); have been hearing this Power 92 on & off the last 3 months or so, this is the 1st time any IDs or ads heard (DS-WI)
- 930 WSOC NC CHARLOTTE - 12/29 2247 with Seton Hall BKB; ID:Keep it there, AM 93 WSOC (GU-NY)
- 980 WCUB WI TWO RIVERS - 1/1 1818 out of noise only briefly with OLD+Toyota ad+wx (28') from AM-98 WCUB (DS-WI)
- 990 WNTY CT SOUTHTON - 1/1 1720-28 1st-timer with AC mx and ad cluster; gone @ 1729; after 29 years, my 1st-ever SSS logging on 990; thru local rocker/slopper CKGM-980; I lucked out when their signal surged @ 1723, peaking just when they said ...more mx on WNTY (RUGG-PQ)
- WVSC PA SOMERSET - 1/3 1844-58 surprised me by breaking thru CKGM splatter with difficulty; C&W mx, IDs & Bargain Fair hrd (RUGG-PQ)
- 1030 WUFL MI STERLING HEIGHTS - 1/4 1728 1st-timer with sign-off; operates on low power B4 Sunup, then 5Kw 'til Sundown; poor in WBZ/WNOW/WNVR null (WPF-IN)
- 1040 WSKE PA EVERETT - 1/3 1715 with sign-off fair under you-know-WHO (RD-IL1)
- 1060 KNLV NE ORD - 12/19 1427 fair in WHO splash with promo for Nebraska BKB+Christmas mx; 1st time here; NE #28 (RD-IA1)
- 1080 WKBY VA CHATHAM - 1/2 1715-1730 came in > WEEP power cut; C&W mx, ads for restaurant, oil dir; sps @ 1730 (GV-PA)
- 1140 KPRW OK OKLAHOMA CITY - 11/22 1938 with UC format; a canned 1140, 1140, 1140, 1140 KPRW! between songs; strong (FM-IL)
- KPRW OK OKLAHOMA CITY - 12/30 2032-2035 good in WRVA null with UC mx & Power 11-40 ID; OKC #4 (RD-IA1)
- 1180 WHJM TN KNOXVILLE - 12/24 1705-1708 briefly with clear ID, silly Christmas song; faded+WHAM (GV-PA)
- 1190 WOWO IN FT WAYNE - 1/4 1547-1552 fair with Buddy Holly & Left Banke; promo for Elvis special on Radio 11-90; format seemed 100% OLD, log sez AC (RD-IA2) [Yes, while passing by there twice in Dec, I heard all OLD from them-WRH]
- KYXS NM ALBUQUERQUE - 11/23 1931 in SS, but CLs in EE; weak (FM-IL)
- 1190 WHIY AL MOULTON - 1/3 1757-1800 with end of Willie Nelson tune+sign-off; operates with 2500 watts; in WOWO null with somebody else, also; 1st-timer (WPF-IN)

6

1210 KLDI WY LARAMIE - 12/19 1934-1939 XLNT with Community Calendar on AM Stereo 1-2-1, KLDI (RD-IA1)

1260 KAYJ TX SAN ANGELO - 12/11 2039 All oldies all the time on San Angelo's oldies stn, 1260 K-Joy, we are the oldies channel; good and alone with on 71 watts (FM-IL)

KTAE TX TAYLOR - 12/11 1948 with ad for the largest selection of mirrors in Central Texas...1604 W. 2nd in Taylor; fair+good; usual

WIBV severely weak in AU let these Texas PSSA's sneak in (FM-IL)

1270 WAIN KY COLUMBIA - 12/10 2247 breaking away from American Top 40; Greensburg, KY ad, WAIN wx; good & on top (FM-IL)

1280 KREL NV HENDERSON - 12/18 1901-1908 fair over/under WNPT with mx by Def Leppard & Jim Capaldi; promo for KREL trip for 2 contest; NV #1, State #35 (RD-IA1)

KYYN OK POTEAU - 12/19 2032-2035 fair+good with Okla State BKB (RD-IA1)

1290 WNBW MS MERIDIAN - 11/20 1901 ending Loveline (black GOS mx/phone-in show), ID:WNBW AM Gospel, then sign-off; strong on Superadio (FM-IL)

1300 KVOR CO COLORADO SPRINGS - 11/23 traffic report from the KVOR Traffic Centre @ 1916, thanked listeners for having NO accidents today! (FM-IL)

WNQM TN NASHVILLE - 12/18 1803 weak in KOIL splash with ID between REL pgs (RD-IA1)

KKUB TX BROWNFIELD - 12/3 1848 on PSSA; mx in SS, guy gave Denver City-Levelland score , then read many song dedications from cities in the area, truly bilingual switching back & forth 'tween EE & SS willy-nilly, seemingly @ random; fun to listen to! good (FM-IL)

1320 KRLW AR WALNUT RIDGE - 12/19 1958 fair with sign-off (RD-IA1)

1350 WRAP VA NORFOLK - 1/4 1740-1750 fair with others; Rap mx, ads for Navy. Rumors nightspot; wx @ 1742 (GV-PA)

1370 WQPN WV MOUNDSVILLE - 12/21 1705-1720 good until WXXI took over; OLD, ad for shoe store & bakery; New 13-Q slogan (GV-PA)

1390 WNZQ VA ARLINGTON - 1/1 2323 ID:97 FM, 1390 AM, our call letters are WNZQ & TC (GU-NY)

1460 KZUE OK EL RENO - 12/9 1900 in SS; promo mentg Okla & El Reno several times; no legal ID hrd, though maybe I missed it; trip to OKC 12/14 verified they're all SS with various blocks of Mexican/Central American mx (FM-IL)

WEHR PA TUNKHANNOCK - 1/7+ SSS has been in here of late with fair signal & C&W format; is one of their CPs on-the-air? (WRH-NY)

1490 WKVT VT BRATTLEBORO - 1/7 1700 briefly atop with local nx headlines & legal ID=CBS Nx (BH-NJ)

1510 WHHQ NJ DOVER - 11/22 2035 canned AM 1510 WHHQ between Sam Cooke & Van Morrison Oldies; no other talk, sounded automated; disappeared to KDKO/WLAC , latter mostly nulled on WSW wire; a real shocker! fair (FM-IL)

WPUT NY BREWSTER - 1/7 1658-1610 fair with AC mx, CNN Nx, female DJ with Voice of Putnam County slogan (BH-NJ)

CKOT ON TILLONSBURG - 1/2 1625-1641 good with local WHHQ silent with 151 Sports, T40 mx, local ads, jx IDs (BH-NJ)

1530 KCLR TX RALLS - 12/2 1842 a tad early with sign-off in EE followed by one in SS; good, topping WCKY (FM-IL)

1550 KXOJ OK SAPULPA - 12/7 1839 UC format, announcing that Power 1550 will serve breakfast at the Tulsa State Fairgrounds; strong (FM-IL)

1570 WFEL MD TOWSON - 1/7 1620-1632 good with ContChr mx, local ad, Baltimore's Christian Connection slogan (BH-NJ)

1580 WLIM NY PATCHOGUE - 1/8 2101 You're tuned to one of America's great radio stations, WLIM, Patchogue, NY...radio doesn't get any better than this; MoYL format; very good, far & away the best ever heard here after sundown (EJ-NJ)

WUIV NC ICARD - 12/31 1715 weak sign-off; slogan:The more variety gospel stn (GV-PA)

WHRE TN KNOXVILLE - 12/31 1730 very weak sign-off (GV-PA)

1590 WQQW CT WATERBURY - 1/8 2057 with Vikki Carr record; ID:1590, WQQW, playing the music you can't get anywhere else; AP Nx; good (EJ-NJ)

WAIK IL GALESBURG - 1/4 1605 good with mx by Eric Clapton ID:Wake 15-90; this one is on my Wanted, Dead or Alive list back home (RD-IL2)

WTVB MI COLDWATER - 12/29 1703-1715 good with nx, wx, sps; ads for South Mich Nat'l Bank, Jay's Olds-Cadillac-GMC (GV-PA)

WASB NY BROCKPORT - 12/25 1859 brief promo for a program airing Saturdays @ 9:30 AM; faded+WQQW/others (GV-PA)

WHPY NC CLAYTON - 12/31 1630-1700 good with others; C&W mx, ads for carpet outlet, Chev-Jeep-Eagle-Ford-Nissan dir; 159-Country slogan (GV-PA)

7

1600 WSNX MI MUSKEGON - 12/12 1752 West Michigan Wx included Grand Rapids & Muskegon info; 104.5 IDs & CHR; on Superadio (FM-IL)

KUSH OK CUSHING - 11/16 1945 with R&R OLD, dcne locally; Right now it's 15 before 7 on AM16, KUSH; 70 watts dominates WSW wire (FM-IL)

REPORTERS:

RUGG-PQ Andy Rugg//Nuns' Island, PQ//R-390A + 40 Meter LW

DS-WI Doug Smith//Madison, WI//ICF-2010 barefoot

FM-IL Frank Harris//Nashville, TN//R-1000 + one of 2-1200 WAs @ SE/NA, 1 WSW/ND or Superadio

BH-NJ Bob Harrison//Union, NJ//Superadio

Rick Dau//Oakland, IA//Reader's Digest 10-band rx

RD-IA2 Rick Dau//on I-74 in Davenport, IA//Ford Caradio

RD-IA3 Rick Dau//on I-80 near Bettendorf, IA//Ford Caradio

RD-IL1 Rick Dau//Chicago, IL (Robert Kramer's apt)//R-1000 + RW Loop

RD-IL2 Rick Dau//on I-88 near Rock Falls, IL//Ford Caradio

GU-NY Guido Urzi//Mastic Beach, NY//R-5000 + Palomar Loop or 65' LW

EU-NJ Ed Janusz//Bricktown, NJ//ICF-2010 + Select-a-tenna loop

WPF-IN Wendell Ford//Westville, IN//ICF-2010

GV-PA George Vanish//Trucksville, PA//SX-99 + LW or Caradio

CR-ON Charles Reh//Leamington, ON//

WRH-NY Bill Hale//Johnson City, NY//Delco ETR or NY1-Superadio

SOME ABBREVIATIONS & SPECIAL SYMBOLS USED IN DOXD-E

TT:test tones OC:open carrier @ 1000 Hz check RS:regular schedule GRM: interference QTH:location SID:singing ID CID:code ID jx:jingle lcl:local lgl:legal mx:music nx:news wx:weather sps:sports HS:high school FB: football BB:baseball HKY:hockey BKB:basketball >:after <:before =:equal with or equal to :00: on the hour ||:parallel with +:to or into *:stereo SS:Spanish FF:French EE:English POL:political GOS:gospel REL:religion or religious AC:adult contemporary BBD:big band OLD:oldies ROK:rock 'n' roll CHR:contemporary hit radio ContChr:contemporary Christian C&W:country & western EZL:easy listening UC:urban contemporary tlk:talk LK:Larry King BW:Bruce Williams PH:Paul Harvey AP:Associated Press Radio UPI:United Press International MBS:Mutual Broadcasting System USRN:United Stns Radio Net NPR: National Public Radio MRN:Motor Racing Net MCRN:Music Country Radio Net IRN: Interstate Radio Net LSR:local sunrise SRS:sunrise skip LSS:local sunset SSS:sunset skip SSB:Star Spangled Banner

73, Bill

TOWER TIP

CT-1
WDR - 1360
HARTFORD, CT
5000 WATTS

WHAT TO LOOK FOR: 2 towers in a north-south line visible to the west from I-91 between exits for routes Connecticut 159 and 218.

CONTRIBUTED BY: J. D. Bowker

Send information about a.m. broadcast towers in your area to John D. Bowker, 14 Canoe Brook Drive, Princeton Jct., NJ 08550. Include a simple map (Bowker may re-draw it) showing major highways and any other terrain features near the tower(s). Tell how many towers, how they are laid out, and any other features that will help in spotting them.

DOMESTIC DX DIGEST - WEST

Nancy Hardy

2301 Pacific Avenue, Aberdeen, WA 98520

Deadlines for DDXD-West tips are each Saturday. Use the same form that you see here, eastern time.

****SPECIAL****

- 1200 CHMG AB ST. ALBERT - 1/4 0100-0200, CKST-1070 now here with new calls. Good over WOAI. Uses slogan "Classic Gold Music MG 1200." Format rock oldies. Broadcast News at 0200. (DM-AB)
- 1250 KZOU AR LITTLE ROCK - 12/28 2359 ID "KZOU-AM Little Rock, 1250 Gold, your favorites from the 50's, 60's and 70's..." then into syndicated oldies program. Fair at best with long fades. Verie received. Ex-KOKY. (ØW-CO)
- 1450 KGRE CO GREELEY - 1/1 0959 ID "More music, more memories on AM 1450, K-G-R-E Greeley-Loveland-Fort Collins." 1000 news, 1005 oldies music. Ex-KATR. (ØW-CO)

MIDDAY TO MIDNIGHT

- 970 KNUU NV PARADISE - 1/9 1900 CBS News, 1906 area news with George Moffat on "K-News 970." Fair thru QRM. (ØW-CO)
- 1080 KRPX UT PRICE - 12/28 1857 quick s/off by man. Fair, mixing with KRIO. (ØW-CO)
- 1250 KIKC MT FORSYTH - 1/1 1800 Mutual News, ID, then C&W music. Good. (DM)
- 1530 KXTD OK WAGONER - 12/29 1815 s/off, "You're listening to 1530 KXTD, the station you've been waiting for..." Owned by Superior Int'l Communications. Good signal. Ex-KTCR. (ØW-CO)

MIDNIGHT TO MIDDAY

- 1200 WOAI TX SAN ANTONIO - 12/19 0331 s/off leaving several SS stations mixing, and weak CKDA. (DA-CO)
- 1210 KGYN OK GUYMON - 12/29 0100 man with s/off anct; SSB. (ØW-CO)
- 1230 KBCR CO STEAMBOAT SPRINGS - 12/29 0859 ID, ABC news. Poor thru jumble. New, CO #79, was my closest unheard! (ØW-CO)
- 1250 KALO TX PORT ARTHUR - 12/29 0035 ad for Will Kit, soul music on "Kay-Low 1250." Occas. readable thru KZOU/KXET/KNEU. (ØW)
- 1260 KIMB NE KIMBALL - 1/2 0924 "Kimball school lunches..." (DA-CO)
- 1350 KBRX NE O'NEILL - 12/22 1010 "Funeral services in O'Neill," local weather. (DA-CO)
- KABQ NM ALBUQUERQUE - 12/22 1005 Spanish Albuquerque traffic & wx, many Albuquerque businesses' ads, Ranchera. Mixing with KBRX. (DA-CO)
- 1360 KZIQ CA RIDGECREST - 1/4 1104 ABC News to local news, Desert Cable spot, weather. Briefly over KPOP. (DA-CO)
- KPOP CA SAN DIEGO - 1/4 LaJolla and San Diego spots, weather, Prudential-Bache ad; o/u KLIF. (DA-CO) (Time?--NH)
- 1380 KLPZ AZ PARKER - 1/5 0948 "...Chevy spot," "#1 Kit KLP Country." (DA)
- KTSM TX EL PASO - 1/5 1019 report of night fire in El Paso, many IDs, "KTSM news time." Mutual News on hour. (DA-CO)
- 1400 KSUN AZ PHOENIX - 1/9 0100 Spanish ID by woman: "Esta es Kah-Esse-Oo-Enne Phoenix," then into Latin music. Fair thru jumble. (ØW-CO)
- KDTA CO DELTA - 1/4 0931 "Delta Radio KSTA," over pest KRLN. (DA)
- 1420 KMOG AZ PAYSON - 1/5 1100 legal ID on hour into ABC-I News. (DA-CO)
- KSTN CA STOCKTON - 1/4 1002 "KSTN Stockton's #1 hit music station." (DA-CO)
- KULY KS ULYSSES - 1/6 1004 ID briefly over pest KJCK. (DA-CO)
- KGIM SD ABERDEEN - 1/9 0917 "16 below in Aberdeen...Heating Company on Highway 12" ad, "Jackrabbits basketball on KGIM" spot. (DA-CO)
- 1440 KRIZ CO WRAY - 1/4 swap show, weather, ID to ABC News. (DA-CO)
- CFCP BC COURTENAY - 1/1 1050 excellent around local sunrise. ID as "CFCP-CFWB," local weather. (DM-AB)
- 1460 KKOA NE KEARNEY - 1/9 legal ID, radar weather, "The oldies channel KKOA." (DA-CO) (Time?--NH)
- 1470 KUTY CA PALMDALE - 1/9 1000 "This is KUTY Palmdale-Lancaster." (DA)
- KYUU KS LIBERAL - 1/10 0959 ID "This is KSLS, KYUU-AM, Liberal Kansas." Mutual News, 1005 local ads, then C&W music on "L-S Radio" (simulcast FM). Good on peaks with KPOW/KSIR QRM. Ex-KILS. (ØW-CO) (Isn't KPOW on 1260?--NH)
- 1480 KPHX AZ PHOENIX - 1/5 Spanish, many ohcheg equis IDs. (DA-CO) (Time?--NH)
- KYOS CA MERCED - 1/5 1025 talk with call letter ment., o/u KPHX. (DA-CO)

- 1480 KKCQ MN FOSSTON - 1/5 0955 Fosston weather "It's 6 above zero at KKCQ," into C&W. (DA-CO)
- KMEZ TX DALLAS - 1/2 0127 weather; KMEZ-FM ID, long blocs of EZL music with occas. FM IDs & slogans. Fair with KLMS QRM. (ØW)
- 1590 KTCH NE WAYNE - 1/6 0949 Wayne weather, Edwards & Johnson & Vals Bakery spots, over pest KVGB. (DA-CO)
- 1600 KGST CA PRESNO - 1/3 0120 Spanish, excellent. ID in clear. First time heard here. (DM-AB)

Help with an unID:

Re: Column in Issue 13 DXN--1130 W??? TN, Memphis--11/29 2110 was I hearing things? (DA-CO)
What Doug probably heard was KLSR in Memphis, Texas on 1130. (WRH-NY)

REPORTERS

DA-CO/Doug Allen, Woodland Park, CO/TS 430-S, 160 meter dipole, and 1000' NE-SW & 600' SE-NW Beverages
WRH-NY/Bill Hale, Johnson City, NY
DM-AB/Deane McIntyre, Calgary, AB/Superadio
ØW-CO/John Wilkins, Wheat Ridge, CO/R-1000, R-390A, 2½' loop

FCC RULES PRIMER

JOHN D. BOKKER - PRINCETON JUNCTION, NJ

III. HOW THE RULES ARE ORGANIZED

The FCC Rules are separated into "Parts". At this time, there are some 40 Parts ranging from Part 0, "Commission Organization" to Part 100, "Direct Satellite Broadcasting". (Note that many of the Part numbers are skipped.)

The Rules are printed once a year during the spring and contain the rules as they were on October first of the previous year. The daily releases, or the Federal Register, or any of the several FCC Rules Updating services will keep you more up to date if it's necessary. Five books contain all the rules -- they cost just under \$100 for all five volumes. One of the books covers the main broadcasting Rules and costs about \$25 when ordered from the U.S. Government Printing Office in Washington. It is called CFR 47 Parts 70-79.

Of greatest interest to broadcasters are Part 73, "Radio Broadcast Services" and Part 74, "Experimental, Auxiliary and Special Broadcast and Other Program Distributional Services". We shall be examining elements of these and a few other Parts in this series of articles in DX News. For example, Part 13 deals with Operator Licensing and Part 17 covers regulations on painting and lighting a radio tower. But let's focus on Part 73 for awhile.

Part 73 has seven Subparts:

- A -- AM Broadcast Stations
- B -- FM Broadcast Stations
- C -- Noncommercial Educational FM Broadcast Stations
- D -- (Reserved)
- E -- Television Broadcast Stations
- F -- International Broadcast Stations
- G -- Emergency Broadcast System
- H -- Rules Applicable to All Broadcast Stations

Subpart A is divided into 47 Sections and the Sections are divided into many paragraphs! Fortunately, only a few really have any direct bearing on medium wave DXing so I can be selective in passing them on to you. But the index to Subpart H goes on for 2-1/2 pages! So you can see why things get complicated sometimes for a well-meaning station owner.

NEXT INSTALLMENT: AM BROADCAST CHANNELS

The Answer Man

Got a question about radio? Send it to Russ Edmunds - 753 Valley Rd. - Blue Bell, PA 19422-2052. No question is a dumb question, and Russ will answer all, from basic to highly technical. Watch for the answer in DX News!

Station Profile

Tony Fitzherbert

356 Jackman Avenue, Fairfield, CT 06430

WXIZ-103.3FM
Lightning Bolt



WIRE
am1430
Great Country Music

On February 23, 1924, radio came to the Hoosier State, when the Indiana Department of Commerce granted a license for WBBZ to begin operations. The little station broadcast at sporadic times, and transmitted a 50 watt signal. Two years later, the station received its first federal license, and began regular as WKBF. A temporary studio was built within inside the Indianapolis branch of the Ford Motor Company on East Washington Street. A transmitter was located near Brownburg, on Indianapolis' west side. Three

weeks later, the permanent studios were ready, in the Hoosier Athletic Club on North Meridian Street. As WKBF moved, the station increased its power to 250 watts, a strong signal on the uncluttered radio dial of the 1920's.

Early live sports broadcasting aired by WKBF included the 15th Indianapolis 500 on May 30, 1927 (and many Indy 500's afterwards), and the first network broadcast in Indianapolis. This pioneering step aired the NBC Red Network broadcast of the Dempsey-Tunney heavyweight fight. In March, 1928, WKBF began play by play broadcasts of the Indiana High School Basketball Tournament.

Success required larger quarters, so WKBF moved to new facilities at the Severin Hotel. Indianapolis Broadcasting, Inc. took the station over in 1929, and station founder Noble B. Watson became part of this corporation. The studios were again moved, and a 500 watt transmitter was built in Clermont.

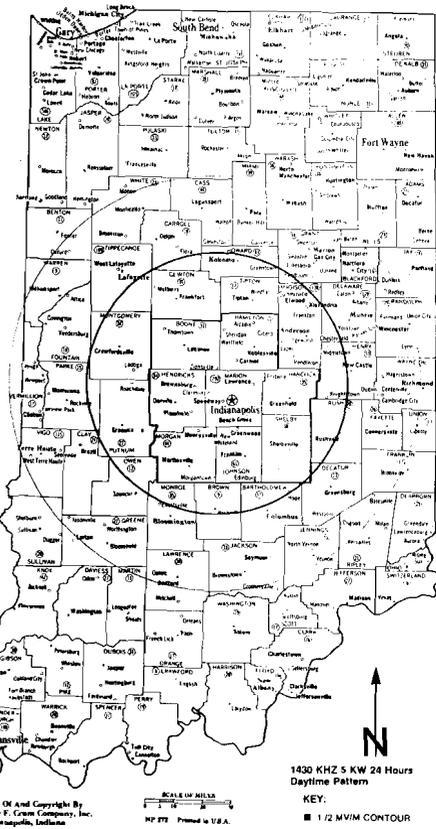
The year 1933 brought several changes to WKBF. The station increased its power to 1000 watts, and moved its transmitter to Millersville Road, Indianapolis, where yet another long wire antenna was erected. And the station changed its call to WIRE to avoid listeners confusion with arch rival WFBM. And the station became a full NBC affiliate.

In 1936, WIRE was purchased by Eugene Pulliam, publisher of the Indianapolis Star/News, and the station moved its transmitter to its present site at 44th and Knollton Road. WIRE increased its power to 5000 watts with this move.

In the next 20 years, the Star/News operated WIRE with lots of NBC programming, and many local news and sports broadcasts. The station was located in the prestigious Claypool Hotel and the Star/News Building. In 1960, Joseph Amatore bought the station, failed to make money in the face of television competition, and sold it to Mid-America Radio. The station, as had many other network affiliates had been programming more contemporary middle of the road music with each passing year. The best known WIRE alumnus of this era was Jack Paar.

On October 1, 1967, WIRE went to a country music format, and began 24 hour a day operation. This decision dramatically increased the station's market share, and earned it seven Billboard Magazine "Country Music Station of the Year" awards between 1968 and 1981.

WIRE also became the flagship station for the Indiana Pacers Basketball Radio Network, and the Indiana University Football and Basketball Radio Network. It still originates these play by play broadcasts and feed them to 50 stations. And, in 1978, WIRE became the key station for the statewide Indiana News Network, and in continued efforts to keep its listeners informed, WIRE installed National Weather Service Color Weather Radar, to allow the air personalities to inform listeners of dangerous weather conditions instantly. Indianapolis is situated in a tornado area, and unstable weather conditions can occur at any time.

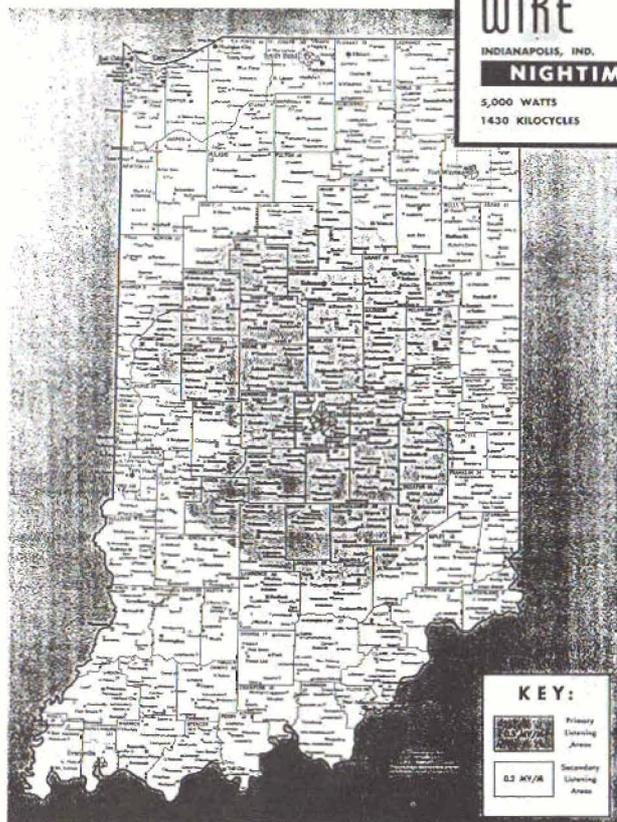


WIRE • 4560 Knollton Road • Indianapolis, Indiana 46208 • (317) 927-4200

In 1982, WIRE became the first station in the United States to test AM stereo transmitting equipment for car use, for Delco, the manufacturer of car stereo equipment. Consequently, on December 13, 1982, WIRE became the first station to broadcast full time in AM stereo, using the Motorola System - the system chosen by Delco for its manufacturers.

WIRE moved its offices and studios to its present transmitter location in 1969. And, in 1972, the station purchased WGEE-FM, changed the call to WXTZ, and this station broadcasts easy listening music. The single story, modern station building houses both stations, offices, and WIRE's Collins 820E/F1 (AM Stereo) transmitter, and an RCA back-up. The station's 5000 watt signal, non directional days, and directional at night, is transmitted by two 322 foot high towers. The figure eight night pattern protects WNJR - Newark, N.J., KLO, Ogden, UT., and KSKS, Tulsa, OK.

In 1985, in a disastrous decision, WIRE dropped its popular country music to program rock music from the '60's, '70's, and '80's, in an attempt to appeal to the yuppie market, airing a lot of Bruce Springsteen, Beatles, Jimmie Hendrix, and other rock and roll artists. The station's 5.4 market share plummeted to nothing. The \$500,000 that the station spent to promote the format change was spent truly in vain!



A noteworthy promotion in the country music days of 1984 was the million dollar cash grabs. \$1,000,000, mostly in \$1's and \$5's was dumped in a pile in the middle of a shopping center. A lucky contestant, selected at random, had a minute to grab all of the money possible. For obvious reasons, only two cash grabs were held.

Since the 1985 programming debacle, WIRE restored its country music format. Today it comes via satellite from Transtar, with local live assist during drive times. Traffic reports, weather, sports, and ABC Information and local news round out the programming. Religion is broadcast on Sunday.

WIRE - WXTZ was bought in August, 1988 by Merrill Lynch. Only the future can tell what is in store for these two stations, including one of the finest country music stations in the country.

The editor wishes to thank WIRE-WXTZ Chief Engineer Kim Hurst for all of his help in the preparation of this station profile on Indiana's first radio station. Kim has had a very strong interest in radio since his youth, and is indeed a friend to members of the NRC.

Finnish DX Assn. Summer Meeting

INVITATION

We here at The Finnish DX Association wish you most welcome to attend our summer meeting which will be held from 11th to 13th August 1989 in Partaharju, near Pieksämäki, Central Finland. We assume that the meeting will be attended by about 200 Finnish DXers and shortwave listeners whom we are going to offer a versatile DX weekend. You will of course get a chance to have air time or presentation room at the meeting. We will also be glad to assist you to arrange your trip in Finland and your accommodation.

The meeting will be held at the beautiful Conference Center of Partaharju with excellent lakeside surroundings and places of untouched nature just outside the town of Pieksämäki. The conference programme will contain lectures concerning the hobby of shortwave listening and the relations between radio stations and their listeners. Competitions and other entertainment will also be available. We greatly hope that your representatives will have an opportunity to attend the meeting.

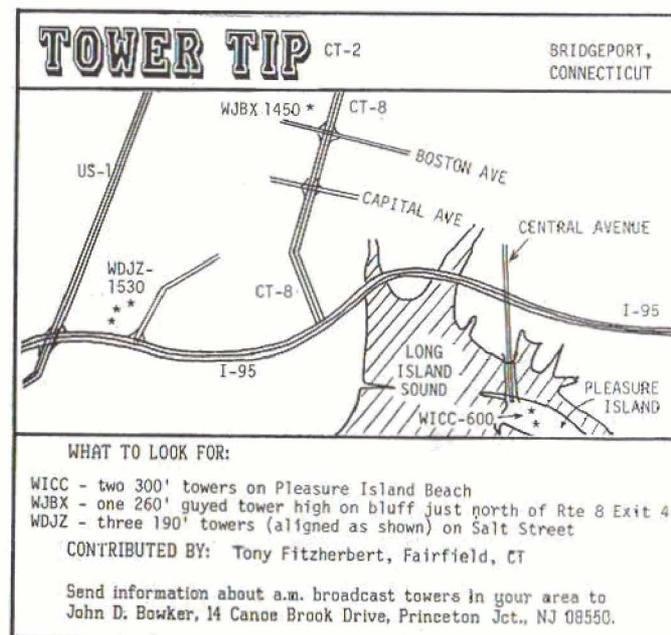
Please contact The Finnish DX Association, P.O. Box 454, SF-00101 Helsinki, Finland. Phone inquiries to Mr. Arto Mujunen, 358-0-872 5278 or direct to the organizer of the meeting, Mr. Reijo Laitinen, 358-58-47534.

If you don't have a possibility to attend our summer meeting this time, we'll be glad to deal any promo material of yours at the meeting. Please send the material to the address above. Your greetings to the meeting either by tape or by phone will also be appreciated.

It would be splendid to have you here to join our meeting! Come to the beautiful Partaharju and enjoy our meeting as well as the summer of Finland!

73

The Finnish DX Association



the WFAA RADIO NEWS and Dial Log

-via Wally Wawro

WFAA 820-NBC DALLAS, TEXAS, JANUARY, 1959 WFAA 570-ABC

'59ers' Strike Gold For Sponsors



NORMAN H. STEWART

Stewart Named New Commercial Manager

Norman H. Stewart of the WFAA Radio Sales Staff has been appointed National Sales Manager for the station, effective January 1, 1959, it was announced recently by George K. Utley, general manager.

Stewart, who has been with WFAA Radio in local and regional sales for the last three years, came to Dallas in 1955 after seven years with Chicago stations. He also served in the capacity of commercial manager for a station in Fort Wayne, Indiana. Stewart's duties as commercial manager will include national and regional sales contracts with advertising agencies and their clients, as well as working with Dallas-Fort Worth branch office personnel of national firms. He will also coordinate sales activities of the various offices of Edward Petry and Company, Inc., the national representative for the station, which has offices in the principal cities of the United States.

WFAA Possesses Wealth of Talent

"There's gold in them thar airwaves" . . . yesir, real-11 gold for sponsors in the rich vein of talent WFAA possesses in the '59ers."

WFAA's '59ers will be "panning out gold" in real profits for smart sponsors in '59.

And they're a real bundle of talent—these '59ers.

Norv Slater, for instance . . . who wakes the listeners each morning on "Dial 570" (WFAA-570, 6 a.m.) to the tune of happy "wake-up" music, and prepares the way for John Allen's "Early Birds" at WFAA-820 at 7:20 a.m.

Naive John Allen needs no introduction to listeners or sponsors. His wit and humor have endeared him to the hearts of North Texans during long years of joking his way through the "Early Bird" show. His brand of entertainment just doesn't wear out. His "Early Birds" show (WFAA-820, 7-20 a.m.) has weathered numerous changes in the industry and come out still ranking high on the list of "best-liked" shows.

For the listeners who like their musical entertainment mixed with a little of the unexpected, there's Pierce Allman—a personable young chap with a gift of gab that always strikes a responsive cord. . . . He's building audience like crazy on the weekday

Continued on Page 5

WFAA Radio
Wishes You a
HAPPY PROSPEROUS NEW YEAR



That ain't hay they're panning for . . . there's 'sure enuff' gold in WFAA . . . that is, for the sponsors who are wise enough to make wise radio buys such as the Entertainment shows these "59ers" represent. "59ers" left to right are, front row: John Allen (Early Birds), Nick Ramsey (Carnival of Music), Pierce Allman (Melody-Go-Round). Back row: Stan Wessel (Nightwatch), Norv Slater (Dial 570) and Tommy Richards (Nightwatch).

Southwest Holiday Boosts Circulation Via Both 570, 820

Southwest Holiday Magazine, the only magazine of its kind in sports activities of this area, has purchased a spot schedule on WFAA-570 and WFAA-820, through Southwest Associates, beginning the first of the year.

This schedule which makes use of one-minute spots, will serve as a booster for an extended circulation campaign for the magazine. Owner of the magazine, Mickey Walker, is also editor and publisher.

Wilson Joins Sales Staff

Jim Wilson, a native of Dodge City, Kansas and former sales representative for Southwest Films in Wichita, Kansas, has just been appointed to WFAA's local sales staff.

Wilson, a graduate of Kansas University where he majored in Radio-Television and Film work, attended Northwestern University for post graduate work.

During two years in the Air Force, he worked in both radio and television for the Armed Forces.



Texas Turkey Federation's luscious birds and Paquin's get an added boost from WFAA and the Dallas supper markets on the numerous checkerlite signs throughout the area. Both products are advertised on WFAA.

Fifty-Niners Bowl Games to Be Aired on 820 Jan. 1

Continued from Page 1

"Melody-Go-Round" (WFAA-570, 1:15 p.m.) and gathering quite a loyal flock on his Tuesday-Thursday "Pierce Allman Show" (WFAA-570, 7:15 p.m.) (He'll bear watching in '59 . . . and sponsor dollars spent in his shows will reap big benefits). He's also reporter on the WFAA-820, 5:15 p.m. Newscast.

A gala "Carnival of Music" entertains afternoon listeners from 3:05 to 5:15 p.m. every weekday afternoon on WFAA-820, with casual, friendly Nick Ramsey spearheading things. For the home crowd from 4 to 5:15 p.m., Nick keeps it gay, informative and his happy, relaxed . . . and his show offers a bit of afternoon pleasure that tends to give the listener a lift.

A musical evening with WFAA offers gaiety and relaxation on "Nightwatch," with Tommy Richards at the helm on Monday, Tuesday and Wednesday and Stan Wessel Thursday and Friday. Stan, new to the staff, is handling his full news picture for listeners, with cut-ins direct from Love Field for the complete weathercast.

There's nothing average about these "59ers"—they're the BEST. They entertain the BEST . . . They rate the BEST . . . and they'll bring in the BEST results for sponsors in '59.

Bowl Games to Be Aired on 820 Jan. 1

NBC and WFAA-820 will offer thrills galore for football fans January 1, with two of the top Bowl games set for airing.

The Sugar Bowl game between L.S.U. and Clemson will get underway at 12:45 p.m., with the Iowa California Rose Bowl game following at 3:45 p.m.

Texas Oil Products On Sat. Noon News

L. B. Stewart, Inc., distributors for Texas Oil Products is using WFAA-820's important Saturday Noon News to increase the sales of TOP products in this area for their fifteen different Dallas branches.

This newscast, heard by more people than any other newscast on any station in the area, covers the full news picture for listeners, with cut-ins direct from Love Field for the complete weathercast. Commercial in the program invite motorists to stop at the sign of the spinning top for the finest quality gasoline, oil and automotive products.

This newscast purchase was made for L. B. Stewart, Inc. by Moffett - Shepherd Advertising, Dallas.

WFAA One of 33 Stations Carefully Selected by Inco

The International Nickel Company has renewed their sponsorship of the WFAA-820 Seven O'Clock News for another 52 weeks.

WFAA has been selected as one of 33 big power-house stations across the country for use by International Nickel Company in a big radio campaign.

Inco, now in 33 major markets, is using a 33-station lineup of newscasts, all carefully picked to help reach a prime target of people who influence the use of nickel in trade and industry. And according to a recent article in Sponsor Magazine, Inco has found 'No promotional effort gets as much reaction from these influencers as radio's soft sell.'

The high-rated 7 a.m. newscast which Inco sponsors on Tuesdays and Thursdays, features Joe Tolbert as reporter, and is rated by Nielsen as one of the most listened-to news programs in the area.

Marschalk & Pratt division of McCann-Erickson, Inc. of New York placed this renewal for Inco.

Delco Using 820 Spots

United Motors is taking advantage of WFAA-820's power-packed commercial appeal to promote the sales of Delco Batteries in North Texas.

This big spot campaign, purchased for Delco by Campbell-Ewald of Detroit, calls for one minute spots scattered throughout the week beginning about the middle of the month.

T-H-I-S Buys Big 570 Spot Package

Texas Hospital Service Insurance has taken advantage of the economical buy afforded by WFAA-570 to purchase a big schedule of "T-H-I-S" spots which are now running on a daily basis.

This "Hot Buy" package will afford daily saturation for Texas Hospital Service Insurance's dependable insurance protection for the families in the North Texas area.

This T-H-I-S buy was made through Rogers and Smith, Dallas.

(*—Best times available.)

BOB HOPE
NBC RADIO'S MONITOR EVERY WEEKEND
WFAA-820

ED GARDNER
NBC RADIO'S MONITOR EVERY WEEKEND
WFAA-820

GEORGE GOBEL
NBC RADIO'S MONITOR EVERY WEEKEND
WFAA-820

BOB RAY
NBC RADIO'S MONITOR EVERY WEEKEND
WFAA-820

ART LINKLETTER
NBC RADIO
EVERY WEDNESDAY
WFAA-820—7:05 P.M.

"AUNT FANNY"
FRAN ALLISON
ABC's
"Breakfast Club"
Weekdays—9 A.M.

Entertainment galore in a "STAR-STUDDER" lineup to capture the "listening ear" of all North Texas.

GROUCHO MARX
YOU BET YOUR LIFE
NBC RADIO
EVERY MONDAY
WFAA-820—7:05 P.M.

LISTENERS LOVE 'EM . . .
SPONSORS NEED 'EM . . .
WE'VE GOT 'EM

WFAA RADIO
DALLAS, TEXAS

DON McNEILL
ABC's
"Breakfast Club"
Weekdays—9 A.M.

7:15 30 45	NBC News (5) Monitor NBC-Y	NBC News (5) You Bet Your Life Groucho Marx - NBC	Nightline with Walter O'Keefe NBC-Y	NBC News (5) People Are Funny	Nightline with Walter O'Keefe NBC-Y	NBC News (5) Monitor NBC-Y	NBC News (5) Monitor NBC-Y
	Changing Times-T Elevator Monitor NBC-Y	Lifeline-T Civic Committee of S Nightline Ben Grauer—NBC	NBC News (5) on the Hour	Lifeline-T Civic Committee of S	NBC News (5) on the Hour	Lifeline-T Civic Committee of S	NBC News (5) Monitor NBC-Y
8:15 30 45	NBC News (5) Monitor NBC-Y	Nightline Ben Grauer—NBC	NBC News (5) on the Hour	NBC News (5) on the Hour	NBC News (5) on the Hour	NBC News (5) Monitor NBC-Y	NBC News (5) Monitor NBC-Y
	Changing Times-T Elevator Monitor NBC-Y	"Nightline" NBC	NBC News (5) on the Hour	NBC News (5) on the Hour	8:45-9:00 Pauline Frederick NBC-T	NBC News (5) Monitor NBC-Y	Grand Ole Opry NBC-Y
9:15 30 45	NBC News (5) Monitor NBC-T	NBC News (5) International Bandstand-NBC-W	NBC News (5) Let's Go to Town Life and the World NBC	NBC News (5) 9:05-9:30 NBC Presents	NBC News (5) Treasury of Music NBC	Gillette Bowling Boots NBC	NBC News (5) Monitor NBC-Y
	Changing Times-T Elevator Monitor NBC-T	Stars For Defense Life and the World NBC	NBC News (5) Life and the World NBC	NBC News (5) U.S. Air Force Band Life and the World NBC	Here's to Veterans Life and the World NBC	NBC News (5) Monitor NBC-Y	NBC News (5) Monitor NBC-Y

KLIF TOP 40

HITS OF THE WEEK!

50,000 WATTS @ 1190 / SUBSCRIBED BY MORE THAN 200 RECORD DISTRIBUTORS

February 29, 1964

530.9
Tommy Harrison

530.9
Charlie Brown

9.12
Larry Wilson

12.3
Rex Jones

3.7
Ken Dover

7.8
Russ Knight

AND "BIG D'S" SWINGING NIGHT-WATCHMAN, DAN PATRICK (M-5:30 AM)

- 1 SHE LOVES YOU
- 1 I WANNA HOLD YOUR HAND/FLIP
- 1 PLEASE PLEASE ME/FLIP
- 2 HI HEEL SNEAKERS
- 3 FUN, FUN, FUN
- 4 SUZANNE
- 5 IT HURTS ME/KISSIN' COUSINS
- 6 NAVY BLUE
- 7 PUPPY LOVE
- 8 GONNA SEND YOU BACK TO GA.
- 9 DAWN
- 10 CALIFORNIA SUN
- 11 I'M NOT GOING TO WORK
- 12 STOP AND THINK IT OVER
- 13 WFO DO YOU LOVE?
- 14 MILLER'S GAVE
- 15 MY HEART BELONGS TO ONLY YOU
- 16 PLEASE DON'T TELL ME NOW
- 17 A BIG GUY BEHIND
- 18 LONELY AVENUE
- 19 OUT OF SIGHT, OUT OF MIND
- 20 I WONDER WHO'S KISSIN' HER NOW
- 21 UNDERSTAND YOUR MAN
- 22 TELL OLD BILL
- 23 MY HEART CRIES/FLIP
- 24 ALL MY TRIALS
- 25 SIX WHEEL CROCKETT
- 26 TELL ME BABY
- 27 I WISH YOU LOVE
- 28 DON'T ASK HER QUESTIONS
- 29 HELLO GUILTY
- 30 SHE'S SO CLOSE
- 31 STARDUST
- 32 KIDNAPPER
- 33 EMPEROR OF MY BABY'S HEART
- 34 WILDWOOD FLOWER
- 35 WORRIED JAY
- 36 THE WAY YOU DO
- 37 MONEY
- 38 NEEDLES AND PINS
- 39 JAVA
- 40 BLUE WINTER

BEATLES

BEATLES

TOMMY TUCKER

BEACH BOYS

BOB HAYDON

ELVIS PRESLEY

DIANE RENAY

BARBARA LEWIS

TIMMY SHAW

SEASONS

RIVIERAS

BOOT HUGS FEFFERLY

DALE & GRACE

SAPPHIRES

BOBBY BARE

BOBBY VINTON

FREDDIE CANNON

CRICKETS

SUNNY & SUNLINERS

BOBBY DARIN

JOHNNY CASH

CHAD MITCHELL TRIO

RAY CHARLES

DICK & DEE DEE

HOWARD CROCKETT

GARNETT MIMS

GLORIA LYNNE

HOMER LEE

LOUIS ARMSTRONG

BETTY EVERETT

NINA & APRIL

VAN BROUSSARD

KURT HARRIS

ARTHUR K. ADAMS

JOHNNY THILLOTSON

TEMP TATIONS

KINGSMEN

SEARCHERS

AL HIPT

CONNIE FRANCIS

SWAN

CAPITOL

VEE JAY

CHECKER

CAPITOL

KNIGHT

R C A

20TH CENTURY

ATLANTIC

WAND

PHILLIPS

RIVIERA

SOUND STAGE 7

MICHELLE

SWAN

R C A

EPIC

RUST

WARNER BROS.

LIBERTY

TEARDROP

ATCO

COLUMBIA

MERCURY

A B C

WARNER BROS.

MELTNEY

UNITED ARTISTS

EVEREST

FASHION

KAPP

VEE JAY

ATCO

MICHELLE

DIAMOND

JETSTAR

M S M

BERBY

WAND

KAPP

R C A

M S M

BEATLES

TOLLIE

KLIF KING KLIMBER...

****TWIST AND SHOUT****

-via Wally Wawro

WLS-AM seeks help to end rating plunge



Robert Feder

More fallout from the Arbitron radio report for fall: With WLS-AM (890) at an all-time low in the ratings—20th place with a 1.6 share of listeners—the bosses of the Capital Cities/ABC-owned station soon may scrap their failed middle-of-the-road music format. WLS officials have begun preliminary talks with Satellite Music Network to pick up one of the network's nine music formats. Such a move could eliminate all locally originated programming on the 50,000-watt clear-channel station. Sources at the network said WLS was most interested in acquiring the "Z-Rock" heavy-metal format, which is geared to male listeners between the ages of 12 and 24. "Z-Rock" aired from 1963 to 1967 on the former WZRC, the northwest suburban outlet now known as WTUV-FM (106.7). Adding fuel to the speculation about WLS was the recent acquisition of all outstanding stock in Satellite Music Network by Capital Cities/ABC.

Another station in Chicago now boasts the identical daytime lineup that brought top ratings to WLS in January, 1964. By adding radio veteran Bob Hale to its full-time roster of weekday personalities, WJJD-AM (1160) features Clark Weber mornings, Bernie Allen middays, and Hale afternoons. Following Weber's talk show in the morning, WJJD airs oldies targeted to listeners between the ages of 45 and 64. Former WJJD program director Steve Stevens, who had doubled as afternoon host, has shifted to late-night duty. Here is Arbitron's fall ranking of the top 10 commercial stations during middays (10 a.m. to 3 p.m. weekdays), followed by host and average share of listeners age 12 and older (with share for summer in brackets):

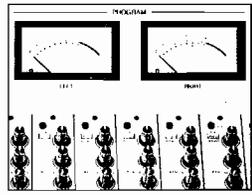
1. WXEZ-FM (100.3) and WXEZ-AM (820) (simulcast), Jeff Christie, 8.4 [7.1]
2. WGN-AM (720), Roy Leonard and Wally Phillips, 5.8 [7.6]
3. WGGI-FM (107.5), Yvonne Daniels, 5.4 [6.8]
4. WJMK-FM (104.3), John Charleston, 5.1 [4.4]
5. WCKG-FM (105.9), Mitch Michaels, 5.0 [4.4]
6. WKQX-FM (101.1), Greg Browne, 4.9 [3.3]
7. WBBM-AM (780), Sherman Kaplan, Donn Pearlman and Walt Hamilton, 4.8 [4.2]
8. WLAK-FM (93.9), Randy Thomas, 4.5 [4.0]
9. Tie: WCLR-FM (101.9), Dave Hilton, 3.9 [3.4]; WLUP-FM (97.9), Bob Stroud, 3.9 [3.8]
- Our favorite midday funnyman, Kevin Matthews of WLUP-AM (1000), ranks 13th with a 3.3 share.

Chicago Sun-Times
-via Wendell Ford

re:Radio

Calculating skywave propagation

By John Battison



Last month's column discussed skywave propagation. Although radio transmission characteristics are generally well understood, and the FCC rules specify methods for calculating coverage and interference areas, there is always a plus or minus factor in the results. Chances are, you have come across a situation in which a station's predicted contour didn't fall where it was supposed to. The resulting contour was either too far out or too close. If the calculations were performed correctly and the rules were properly applied, why didn't the result match the calculations? One cause might have been higher or lower ground conductivity. Another might have been that the antenna's vertical radiation characteristics were not properly applied.

At least 50% of the time. An example of the nighttime limit calculations for a regional station are shown in Figure 1. The values *theta-min* and *theta-max* are obtained from the curves in section 73.190. *T-min-vert-rad* and *T-max-vert-rad* represent the minimum and maximum vertical radiation values from the station's antenna. *Max-vert-rad* is the same value as *T-max-vert-rad* because it is the maximum radiation value anticipated at the pertinent angle. It is this value that is used in the interference calculations.

Calculations
To accurately calculate skywave propagation, you must follow a particular set of guidelines. These guidelines are specified in the FCC's rules. Figure 6A of section 73.190 depicts the departure angle vs. the transmission range of an interfering signal. Curves 2 and 3 of that figure allow for signal strength variations that occur because of scattering and changes in the height of the ionosphere. These curves are used to compute the 10% interfering signal strengths. The two values are read from the chart and applied to the vertical antenna pattern. The curve that gives a higher angle of radiation at the significant angle is the one used for calculation purposes.

As we discussed last month, received field strength also depends upon latitude. Figure 2 from section 73.190 provides seven field-strength curves based on midpoint latitudes from 35° to 50° north. To calculate the midpoint latitude, simply find the average of the latitudes of the transmitting and receiving points. Then, using this value, locate the appropriate skywave field strength from the FCC curves.

The higher-value curve is used to ensure conservative values in the computation of the 10% interfering signal. In many cases, therefore, we find that the distant signal strength could have been increased. The result is sometimes the creation of large areas where there is no reception. On the other hand, interference (or at least the reception of the distant signal) sometimes occurs in these dead areas because of ionospheric scatter. When calculating the desired service contour (the 50% curve), use curve 1 of section 73.190, Figure 6A. This curve is approximately midway between the other two curves. Curve 1 is considered to represent the desired signal strength reception. On the other hand, interference (or at least the reception of the distant signal) sometimes occurs in these dead areas because of ionospheric scatter.

An example
Using an actual case as an example, we can walk through the calculation process. We are concerned about interference from station WCBF, located 743 miles (1,196km) from our chosen site. Using Figure 6A of section 73.190, find the corresponding theta values from curves 2 and 3 to be 4° and 8°, respectively. The midpoint latitude is 33.361° north. Using Figure 2 from section 73.190, you

FROM STATION (CALL)	WCBF
DISTANCE (MILES)	742.131
TRUE BEARING (DEGREES)	357.058
MIDPOINT LATITUDE (DEGREES)	33.361
THETA-MIN (DEGREES)	4.474
THETA-MAX (DEGREES)	8.300
HORIZONTAL RADIATION (MV/M)	38.723
T-MIN-VERT-RAD (MV/M)	41.148
T-MAX-VERT-RAD (MV/M)	46.859
MAX-VERT-RAD (MV/M)	46.859
SKYWAVE FIELD (V/M)	67.739
NIGHT LIMIT (MV/M)	635

Figure 1. The pertinent data needed for interference calculations.

Broadcast Engineering December 1985

Station thinks Bears better than SEX

ARLINGTON HEIGHTS — Owners of radio station WSEX say they've gotten as "much mileage" out of their name as possible and are now looking for a new image by naming it after the NFL's Chicago Bears. The station, northwest of Chicago, changed its call letters Monday to WCBR. The new call letters are not likely to generate nearly as much publicity as the station received in 1963, when it won a battle with the Federal Communications Commission to change its name from WTCO to WSEX.

Gary Post Tribune
-via Wendell Ford

Need to renew? Expired? The mailing label will tell you.

should find that the skywave signal strength equals 67.739V/m. Be sure you use the correct chart.

Now let's look at the antenna. The antenna we are using has a horizontal radiation of 38.723V/m. This value is less than either the T-min or T-max values because we are using a directional antenna and the radiation at 4° and 8° is higher than it is on the ground.

The commission requires that applications for a directional antenna include either a series of conicals or individual vertical radiation patterns for each azimuth required. (Conicals are antenna patterns plotted at 5° increments from 0° through 60° of vertical radiation above the ground on all azimuths.) The information is required by the FCC, but instead of calculating each azimuth and then entering the data on every vertical section, you may use a computer printout.

The last step is to compute the interfering signal at the distant station from WCBF. Divide the maximum vertical radiation by 100 to convert the value to numbers based on 100mV/m. Multiply this number by the skywave field, then divide by 1,000 to convert it to millivolts per meter. Finally, multiply by 20 to obtain the nighttime limit. The last step is necessary to generate the protection ratio of 20:1.

Example:

$$\frac{T\text{-max-vert-rad} = 46.859}{100} = 0.46859 = Y$$

$$\frac{\text{Quantity } Y \times \text{skywave field} = 1.000}{1.000}$$

$$0.4686 \times 67.739 = 0.03174 \text{ mV/m} = Z$$

$$\text{Quantity } Z \times 20 = 0.03174 \times 20 = 0.635 \text{ mV/m nighttime limit from WCBF}$$

If you are trying to determine the nighttime interference limit to your station, you have to go through this calculation for every station on your channel. Once you have found the nighttime limit for each co-channel station, you can then determine the total interference to your station via the rss (root-sum-square) method.

Next month's "re:Radio" will be devoted to winter tower problems and how you can avoid them. [7-2000]

-via Jerry Starr

High-definition radio: Will it work?

By Douglas Fearn

This UHF broadcast band could open a whole new world of opportunities for daytime AM station owners.

Many daytime AM broadcasters are hoping something will be done to improve their chances for success in an already competitive situation. Many of these stations currently are forced to leave the air for most of the post-sunset period. Although these stations can apply for pre-sunrise and post-sunset authorizations, the power levels permitted are quite small—often only a few watts.

One proposal for improving this situation relies on opening a new broadcast band. The band, covering the frequencies from 578MHz to 596MHz, would allow many daytime stations to become full-time operations. These frequencies encompass UHF-TV channels 32, 33 and 34. The TV stations currently operating on these channels would be afforded full protection under the proposal. However, no new UHF-TV stations would be licensed on these frequencies.

This new service would be called high-definition radio (HDR) because of the addition of FMX encoding. The proposal calls for mandatory use of FMX, thereby opening the door for a high-quality broadcast service.

The HDR proposal

The original HDR proposal was developed by station owner Larry Tighe, engineering consultant Clarence Beverage and communications attorney Larry Roberts. Under the plan, originally called FM2, many of the approximately 2,400 daytime-only AM stations would have the first opportunity to apply for an HDR channel. This group makes up half the existing AM stations.

After the daytimers have had the chance to begin operation in the new band, other potential users would be permitted to apply. The second group of applicants would include those AM stations that share time with another station. Next, Class IV AM stations and other AMs demonstrating serious coverage problems may apply. The next group of eligible applicants to be considered would be those non-commercial applicants that were unable to be licensed on the FM band. Any remaining allocations would be assigned to other applicants that can demonstrate a need.

Upon FCC approval, both the existing AM station and the new HDR station may be operated for five years. At the end of that time, one of the licenses must be relinquished. If the HDR band becomes viable during this period, the licensee may choose to receive a formal HDR broadcast license and return the AM license to the FCC. The AM station then would shut down, and the station's frequency would not be reallocated by the commission.

The proposed plan also would allow the band to be used for STL, TRL and RPU applications. These low-power services would operate on a non-interfering basis and would be available to all broadcasters, not just HDR licensees. This service would benefit many stations in urban areas where STL and RPU frequencies are in

short supply. To minimize the potential for interference, secondary users would be licensed on frequencies offset from the HDR channels by 100kHz, for example 580.2MHz.

Benefits

As the total number of AM stations dwindles through the conversion to HDR operation, the remaining full-time and part-time AM stations might be able to improve their service through increased power and/or relaxed directional requirements. The result of these changes could be a reduction in the number of marginally profitable daytimers. The proposal also may provide full-time service to the many communities that currently lack such coverage.

HDR transmission quality would be much better than that currently available from today's AM service. As the number of HDR stations increases, there also would be less interference to the remaining AM stations. From the perspective of many AM station owners, this plan represents a "win-win" situation for everyone.

Because the wavelength at 580MHz is less than one-fourth that of the present FM band, signal penetration into buildings should be better. Transmitting antennas could be lighter and have less windloading, thereby requiring lighter, less expensive towers. Receive antennas, especially those used in automobiles, could have higher gain.

The proposal would relax the receiving and transmitting relative bandwidth requirements because of the lower modulation index. Ducting and temperature-inversio propagation anomalies are less severe at the HDR frequencies, which should improve reception reliability. SCA paging reliability also should improve.

HDR proponents claim other benefits to the proposal. For instance, as the number of AM stations is reduced, thousands of acres of prime real estate, now used for AM antenna arrays, could be sold to generate working capital for the HDR stations. Finally, as the number of HDR stations increases, and the number of small AM stations decreases, the AM band might be able to return to its former role as a wide-area service.

Technical considerations

To be viable, the HDR band should use existing FM technology standards (with the addition of FMX), thus simplifying transmitter and receiver design. This realistic approach requires HDR to be com-

Fearn operates the engineering consulting firm of D.W. Fearn & Associates, West Chester, PA.

Broadcast Engineering March 1988

patible with current equipment. Unfortunately, this approach eliminates the opportunity to apply new technology techniques, such as digital transmission.

Maximum modulation will be limited to ± 75 kHz. Frequency response, noise and distortion specifications would be the same as those for the current FM band. Stereo will be achieved using the conventional 19kHz pilot and 23kHz to 53kHz subchannel. Subcarrier (SCA) operation is permitted between 53kHz and 92kHz.

As proposed, HDR stations will operate on 90 channels of 200kHz each, with 50kW ERP at an antenna height of 500 feet above average terrain (HAAT), or with equivalent facilities. The minimum station separation distances are shown in Table 1.

These parameters will give HDR stations coverage similar to that of Class B FM stations—28 miles to the 60dBu contour, as shown in Table 2. Because of the propagation differences at the higher frequencies, interference will be less than that on the standard FM band.

There will be only one class of license available. Stations have to operate with at least 5kW at 328 feet HAAT to be licensed. This is designed to encourage full use of the new band and to discourage the short-spaced problems now facing many FM stations.

Receivers

No new service can succeed if receivers are not readily available. Fortunately for HDR, this seems to be an easy problem to solve.

Many modern FM receivers use phase-locked loop (PLL) synthesized tuning, as evidenced by the use of digital-frequency displays. The upper and lower tuning limits for such receivers are programmed in a ROM. It's a relatively minor modification to reprogram these chips. The receiver would tune from 88.1MHz to 107.9MHz, then jump to 578.1MHz, the first HDR channel. The receiver then would continue to tune, in 200kHz steps, to the last HDR channel at 595.9MHz. The next frequency would be 88.1MHz again (or perhaps 530kHz). The technique of using one knob for more than one band has been successful in television for many years.

Will it work?

A large number of questions remain to be answered before HDR can become a viable broadcast service. The first is whether the FCC will seriously consider a proposal. The most crucial question may be whether the broadcast industry will support such a proposal.

HDR promises to solve a variety of problems afflicting daytime stations, and it ultimately could benefit other current and future broadcasters. It will be an interesting proposal to watch. □

CO-CHANNEL	MILES	KILOMETERS
106	170	
200kHz	66	109
400kHz	40	64
800kHz	32	52

Table 1. Minimum distances between HDR stations in the 578MHz to 596MHz band.

CONTOUR	MILES	KILOMETERS
100dBu	3.7	5.9
80dBu	12.2	19.8
70dBu	20.0	32.1
60dBu	28.4	45.7
54dBu	38.3	62.2
40dBu	77.2	124.2

Table 2. Theoretical distances to various signal strength contours for HDR stations.

Listeners tuning to Detroit

THE LOSS of Windsor listeners to Detroit radio stations continues, and Windsor broadcasters are in a quandary about how to stem the flow.

The Bureau of Measurement (BBM) fall survey of area listening habits reveals that "other"—mainly Detroit—stations claimed a 73.6 share of the weekly hours tuned in the "Census Metropolitan Area" (CMA). That area encompasses Windsor, Tecumseh, St. Clair Beach, Belle River, Essex and the townships of Colchester North, Maidstone, Rochester, Sandwich South, Sandwich West and Anderdon.

In spite of liberal Canadian Radio-television and Telecommunications Commission (CRTC) guidelines with which to combat the allure of Detroit stations, Windsor radio executives see a disturbing trend unfolding as their pore over the latest numbers. The 73.6 per cent is an increase from the 69.2 registered during the spring survey and also up from 68.8 of a year ago.

"It's an ongoing concern. It's almost getting rampant," admitted Bill Timpon, general manager of CKWW/CJOM-FM.

THE LATEST fall survey, based on diaries filled in from Sept. 26 to Oct. 16, contained both good news and bad news for Timpon.

CKWW hung on to No. 1 spot in the CMA, with a weekly reach of 48,900. Weekly reach reveals the number of different persons age seven and over who tune in at least 15 minutes a week.

But that's down from 65,400 of a year ago, while CKWW's share of weekly hours also slumped from 11.2 to 8.3. The news for CKWW was also gloom in the full coverage area — as



TERRY L. COLES: Not discouraged far as the signal carries — where weekly reach plunged from 76,500 to 59,300.

But Timpon could take solace from the surge at CJOM-FM, long the junior partner of the duo.

In the CMA, CJOM's weekly reach zoomed to 45,000 from 34,200 of a year ago, while its share of weekly hours also climbed to 4.2 from 3.1. CJOM also enhanced its position in the full-coverage area, where its power boost finally seems to be paying dividends. There, the station's weekly reach of 64,600 was a dramatic improvement from the 39,300 of the previous year.

OVER AT CKLW/More 94, meanwhile, president and general manager Terry L. Coles refused to be discouraged, even though the numbers didn't show a dramatic turnaround.

CKLW claimed second place to CKWW in the CMA in terms of share of weekly hours with 5.1 to CKWW's 8.3. But the 5.1 was an erosion from the 6.7 of a year ago, while the weekly reach was off from 31,700 of last fall to 30,700.

CKLW, with its powerful 50,000-watt signal, managed to hold its own in the full-coverage area with a weekly reach of 75,800, up from 75,700.

The results were also mixed at More 94 (CKMR), which revamped its for-

mat Aug. 29 and has hung high hopes on such expensive talent as Deano Day.

In the CMA, More 94's weekly reach declined from 19,700 to 16,900. But its share of weekly hours improved from 2.4 to 2.8. In the full-coverage area, meanwhile, More 94 sagged from 36,500 listeners to 32,100.

Coles interpreted the figures in a positive light, noting he is satisfied with the demographics and also gains in key time slots.

"We had just launched the FM when the BBM survey began to be taken. Since that time, we have had a growing steady response to our FM station from both listeners and advertisers."

COLES IS also looking ahead to January and the Arbitron survey reporting on the stations' showings in the Detroit market.

Windsor's trio of CBC stations, meanwhile, had little reason to celebrate. While CBE improved its weekly reach from 22,600 to 24,700 in the CMA, its share of weekly hours was off from 6.5 to 4.9. Its performance in the full-coverage area also saw a slump from 41,500 listeners of a year ago to 37,100.

CBE-FM improved its weekly reach to 6,200 from 4,300 in the CMA, retaining its 1 share of weekly hours — the same as last year. In the full-coverage area, CBE-FM slipped from 13,000 listeners to 11,900.

French-language station CBEF's weekly reach of 1,600 in the CMA translated into a 0.1 share of weekly hours. It's weekly reach had been 2,100 a year ago. The survey also revealed CBEF made negligible impact outside the immediate Windsor area, in spite of its strong signal, claiming 1,900 listeners in the full-coverage area, down from 3,200.

The following is the weekly reach of the stations, first in the CMA, followed by the results in the full-coverage area in brackets:

CKWW 48,900 (59,300)
CJOM 45,000 (64,600)
CKLW 30,700 (75,800)
CBE 24,700 (37,100)
More 94 16,900 (32,100)
CBE-FM 6,200 (11,900)
CBEF 1,600 (1,900)

Ranked according to share of weekly hours in the CMA, the stations stack up this way:

CKWW 6.3
CKLW 5.1
CBE 4.9
CJOM 4.2
More FM 1.8
CBE-FM 1.1
CBEF 0.1

The results of the survey were compiled from 647 diaries returned by area listeners. This represented a response rate of only 34.1 per cent, off from 42.3 per cent nationally. The spring survey for the market market is due June 8.

The Windsor Star
-via Charles W. Reh

DIAL STYLES

ON THE AM DIAL:

CBEF (54.0)-French/variety
WMBD (50.0)-oldies
CJWW (50.0)-contemp./talk
CBEQ (50.0)-adult contemp.
WJZZ (50.0)-ethnic
CJVV (710)-Top 40
WJW (700)-personality
CKLW (800)-big band
WJL (800)-news
WJCH (800)-inspirational
WJZA (1050)-news/music
WJAR (1090)-talk/ethnic
WJZZ (1150)-country
WJTT (1270)-news/talk

WJTO (1310)-Motown gold
WJEL (1340)-inspirational
WJBN (1430)-black adult
WJWB (1430)-adult contemp.
WJCB (1440)-blues/gospel
WJBB (1480)-country
WJCV (1480)-country/ethnic
WJCV (1500)-inspirational
WJBC (1500)-adult contemp.
WJAB (1600)-news/info

CKMR (82.9)-classic pop
WCBX (94.7)-classic rock
WCZY (95.5)-all hits
WHYY (96.3)-Top 40
WJON (97.1)-easy listening
WJLB (97.5)-black contemp.
WJLL (98.7)-rock
WJFX (99.5)-Top 40
WJNC (100.5)-adult contemp.
WJWP (101.1)-rock
WJDT (101.9)-public

ON THE FM DIAL:

CJOM (88.7)-Top 40
CBE (89.0)-classical
WJTR (90.0)-ed./variety
CJAM (91.5)-alt. rock
WJAE (92.9)-new age/jazz
WJTI (93.1)-adult contemp.

WJBG (102.7)-golden oldies
WJUZ (103.5)-inspirational
WJMC (104.5)-adult contemp.
WJPS (105.1)-classical
WJZZ (105.0)-jazz
WJWW (106.7)-country
WJPR (107.5)-R&B

The Detroit Free Press -via Charles W. Reh

Join the verification game!

Now, you can help out with station tests. Here's how: Send Wayne Heinen - 4131 S. Andes Way - Aurora, CO 80013 two 25¢ stamps per station, and Wayne and Jeff Tynan will print and mail an effective test request letter for you. You can either specify station and time, or just take pot luck. Increase your veries and help other NRC'ers at the same time ... join the verification game!

Layoffs, format change anger WDAS listeners

By Joe Logan
Inquirer Staff Writer

Irate callers yesterday besieged the switchboard at black-oriented sister stations WDAS-AM/FM as word swept through the city that the stations indeed had laid off 20 full- and part-time employees Monday and that the AM facility would soon switch to a gospel-and-talk format.

"We can't just sit back and let this happen," one caller said on the morning talk show hosted by George Woods, WDAS-AM (1480) program director.

Another caller, referring to WDAS's parent company, Unity Broadcasting of New York, which apparently ordered the cutbacks, told Woods:

"The African-American community in Philadelphia has got to come together and take buses or whatever up to New York and stand up and fight those people."

Regardless of what listeners plan to do, Woods called for a meeting last night of the organization he founded, the United Black Business Association, to help the struggling stations.

Neither Unity Broadcasting nor the WDAS management would agree to be interviewed about the cutbacks or the format change, but WDAS president Cody Anderson did issue a written statement.

The two-paragraph news release said that WDAS had "reduced its staff in an attempt to address what has obviously become a need for a different direction. Yes, WDAS-AM will feature gospel programming along with talk."

WDAS-AM now is a mix of urban-contemporary music, talk and public-affairs programming.

In addition, Anderson's statement said that Joe "Butterball" Tamburro, the program director of WDAS-FM (105.3), would take over the 10 a.m.-to-2-p.m. shift and that Jerry Wells, (See WDAS on 8C)

who is co-host of the FM morning program with Pat Jackson, would leave the show and Jackson would host it alone. Wells apparently will join the station's production department.

Anderson's statement identified none of those laid off, but station insiders said these were the on-air casualties:

- Bob Perkins, the genial news director who has been the editorial voice of WDAS for nearly two decades.

- Sterling Rose, who was production manager and host of a weekend show on FM.

- Dyana Williams, Gary Shepard, Rick Green and Eric Koston, all part-time employees who hosted weekend shows on FM.

- Lloyd Cummings, who hosted a weekend reggae show, and Ray Colazo, who hosted a weekend Latin show, on AM.

In addition, said the insiders, several part-time janitors, security guards and office staff members were let go, raising to 20 the total number of layoffs.

Despite the cutbacks, one laid-off employee expressed no resentment toward the station.

"No one saw this coming, so the reaction was certainly shock and dismay," said a former disc jockey, who asked not to be identified. "In our business, there is generally a lot of turnover. But people have been at WDAS for 10 and 20 years, so it is like family over there.

The Philadelphia Inquirer -via Tony Fitzherbert

"I didn't see any anger. I saw disappointment. But I took it well because I understood. If there was any way Cody Anderson could have prevented this, he would have. He eats, sleeps and breathes WDAS."

The layoffs come at a time when radio advertising revenue, like that of virtually all media, is flat. Many radio stations in the city are suffering the same revenue problems that forced WDAS's drastic move Monday, according to local media experts.

But the experts said that WDAS also faced at least two other problems. First, the stations, which were among the highest-rated in the city only a few years ago, have seen their ratings shrink.

In the most recent Arbitron ratings book, WDAS-FM was ranked 13th among 29 stations, with a 3.6 percent share of the overall listening audience. WDAS-AM ranked 19th, with a 1.1 percent share. By contrast, top-rated WMMR-FM (93.3) registered an 8.0 share.

Though still a major force in the black community, particularly for its civic involvements, WDAS-FM in particular has lost much of its younger audience to urban contemporary WUSL-FM (98.9).

Second, the experts said, WDAS has historically carried a staff much larger than that of most other radio stations, partly because of Anderson's distaste for firing people (staffing figures were unavailable yesterday). As a result, the experts said,

with hard times here, it was inevitable that WDAS eventually would face this kind of cutback.

Jerry Del Collano, who edits the trade publications Inside Radio and Radio Only from Cherry Hill, speculated that the real problem may be at the Unity Broadcasting headquarters in New York, which also owns a black-oriented station in New York as well as the syndicated National Black Network news service.

"It is very unusual for a radio station to lay off that many employees because of poor ratings," Del Collano said yesterday. "Stations have ratings problems all the time, and so they lay off two or three people. But this is massive. I suspect the problems may be at the corporate level."

Del Collano also said the cutbacks would mean trouble for WDAS in its battle with Power 99.

"DAS won't be in a competitive posture," he said. "You can't make cuts like that and compete with a Power 99. I think you're looking at some real turmoil here."

That ominous prediction aside, listeners, employees and even those laid off yesterday seemed to be pulling for the once-dominant WDAS to retrench.

Said Dyana Williams: "While this is truly a loss, I firmly believe the WDAS will persevere and remain a powerhouse in the broadcasting community and in the Delaware Valley. I will always be a 'DAS person.'"



George Woods
Seeks help from group he founded



Cody Anderson
"A need for a different direction"

New 'Direction' For WDAS?

Citing "a need for a different direction," WDAS-FM has dumped disc jockey Jerry Wells from the morning show and plans to put program director Joe "Butterball" Tamburro on the air in the 10 a.m.-2 p.m. slot.

President and general manager Cody Anderson acknowledged in a statement yesterday that WDAS has "reduced its staff," but did not comment on a published report that as many as 20 employees had been fired at the sister AM/FM stations.

Pat Jackson, Wells' erstwhile partner in the morning, will be working

solo, according to Anderson's statement, which added: "We see no real need or advantage in using the team approach as many stations do" in the crucial 6-10 a.m. "drive time."

Neither WDAS nor its parent company, Unity Broadcasting Network in New York, would say if Wells would be reassigned, when Tamburro, who now hosts a 7 p.m.-midnight show on Sundays, would move to daylight, or what would happen to displaced 10 a.m.-2 p.m. DJ Wayne Joel.

The statement said gospel music will be added to WDAS-AM's format, but did not give a starting date.

The Arbitron summer ratings book, released in October, put urban-contemporary WDAS-FM (105.3) 13th among local stations with 3.6 percent of the audience, and "DAS-AM" (1480) 19th with a 1.1 percent share.

Edward H. Eisentraeger
1110 Colonial Drive
Machesney Park, IL 61111

Dear KPNW Long Distance Listener:

Thank you very much for taking the time and effort to write to us in regard to your reception and verification of our signal. This entitles you to membership in our brand new, "Long Distance Listener Club". I have enclosed your DX-membership card as proof of your membership.

Our KPNW-AM signal was delivered to you via an RCA Ampliphase BT-50 H-I 50,000 watt transmitter package. The antenna system consists of four uniform cross section series excited vertical radiators, each 445 feet in height with 180 degrees above the base insulators. Our transmitter site is in the Camas Swale area south of Goshen, Oregon, USA. It is 43 degrees, 57' 24" North Latitude, 123 degrees, 2' 9.6" West Longitude.

The PNW in KPNW stands for, "Pacific North West". KPNW-AM is licensed to Eugene-Springfield, Oregon, USA and started broadcasting 50,000 watts on July 22, 1968. Eugene was incorporated as a city in 1862. Our average high temperature is 63.4 degrees and a low average temperature of 41.8 degrees. Our normal annual rainfall is 42.5 inches. As of July 1, 1983, Eugene's population was 103,100 and adjacent Springfield was 39,925. Eugene is the home of the University of Oregon which was opened in 1876. Walter Brattin, a U of O graduate won a Nobel Prize in 1956 as a co-discoverer of the transistor effect. That discovery has touched the lives of those of us in both transmitting and receiving radio signals. The University's annual enrollment is in excess of 15,000 students with more than 3,000 included in the faculty and staff. It also boasts more than 95,000 alumni.

KPNW takes a great deal of pride in the fact that it is Eugene's most powerful AM radio station. We would like to promote this by putting you and other "Long Distance Listener Club" members on the air. I have enclosed a tape cassette for this purpose. Please record the following and return to my attention at your earliest convenience.

"(Hello) or (Hi) or (Greetings) I'm (your name) and you are listening to KPNW, Eugene's most powerful AM radio station. I should know, I listen (or listened) in (location of your reception)". Please give the complete name of the location where you received our signal. We will broadcast Long Distance Listener Club members announcements at least once per hour, 24 hours a day. This will give publicity to your specific region. Please don't worry about sounding like a professional announcer. Just be yourself when you record your message. If you feel more comfortable by changing the wording, please feel free to do so. If you would like to record some other announcements in addition to our request please do so.

Once again, thank you very much for your cooperation. Welcome to KPNW's world wide listening club. We will be looking forward to your reply.

May 1985 be the best ever for you and yours.

Best regards,

Dave Woodward
Vice President
General Manager

THE ST. JOHNS RADIO GROUP
KPNW
T20 AM

Michigan Area Radio Enthusiasts
P.O. Box 311
Wixom, Michigan 48096
U.S.A.

January 9, 1989

PRESS RELEASE ... For Immediate Release.

The Michigan Area Radio Enthusiasts are pleased to announce a special meeting on Saturday, February, 25, 1989.

Ken MacHarg, host of HCJB's popular Saludos Amigos, will be presenting a slide presentation on HCJE and the country of Ecuador from 2 to 5 pm at the Henry Ford Centennial Library.

MacHarg, a regular on HCJB, has been heard on a variety of HCJB programming including the DX Party Line, Morning in the Mountains, and newscasts throughout the day. In addition to his broadcasting activities on HCJB, MacHarg can also be heard on WHAS-AM in Louisville. He is also an accomplished author having written the popular "Tune in the World" and "Introducing International Radio". MacHarg makes his home in the Southern Indiana community of Jeffersonville, and is the Executive Director of the Kentuckiana Interfaith Community. He's a hobbyist as well, having been a SWL/DX'er for many years.

This will be an exciting opportunity to meet an international broadcaster and hear how life is "on the other side of the speaker". In addition, there should be many surprises as well! We hope to see you there!

The Henry Ford Centennial Library is located at 16301 Michigan Avenue in Dearborn, a suburb of Detroit. The library is located east of the Southfield Freeway on Michigan Avenue near the Ford World Headquarters. Admission to the meeting is free, and non-members are welcomed.

For more information, contact Bob Walker at the Michigan Area Radio Enthusiasts.

Reagan's son to do radio show

LOS ANGELES (AP) — President Reagan's son Michael is following in his father's footsteps ... in radio.

Michael Reagan has signed a two-year contract to do news, weather and sports as co-host of a morning radio talk show in San Diego.

"I'm excited about it. You can be the ugliest person ever and do well on radio," Reagan, 43, said Monday from his suburban Sherman Oaks home.

Reagan, adopted son of Ronald Reagan and ex-wife Jane Wyman, makes his KSDQ radio debut Monday with co-host Jack Merker. They will be on the air weekdays 5:30 a.m. to 9 a.m.

Reagan's father was a radio sports announcer in the 1930s, re-creating Chicago Cubs baseball games from wire-service play-by-play on stations in Iowa.

Michael Reagan wouldn't divulge financial terms of his contract with the ABC affiliate.

"It's not the money. The biggest thing is keeping yourself out in public," said the younger Reagan, who has frequently filled in for vacationing talk show hosts at KABC Radio in Los Angeles.

Asked if he planned to have the president on his show, Reagan said: "I imagine he will be in the news so I will be talking about him."

US AM broadcasters may be soon getting a hot flash from way south of the border, as the Venezuelan government has announced plans to erect a one million-watt AM facility on 1240 kHz.

The "Voice Of Venezuela" will reach from Canada to Argentina and will broadcast in English, Spanish, French, and Papiamento (the language of the Netherland Antilles) in an effort to "further Venezuelan culture." No launch date set yet, but look for swift reaction from the State Department.

--via Jerry Starr

Valparaiso vidette -via Wendell Ford

FM Station Address Book

NRC
publication
ONLY \$8.95
(Canada,
US\$9.45) to the
Pub Center
(Foreign or-
ders, please
write for price)
• Listed by
state, city
• 8.5x11 inches,
3-hole
punched
• Full-size type

**NRC AM
Radio Log**
The most
up-to-date
listing of
domestic
MW sta-
tions
available,
anywhere!
200 pages,
three-hole
punched.
\$12.95
each, to U.
S. NRC
members;
\$13.95 Ca-
nadian NRC
Members;
others
write.
Send orders
to Pub Cen-
ter

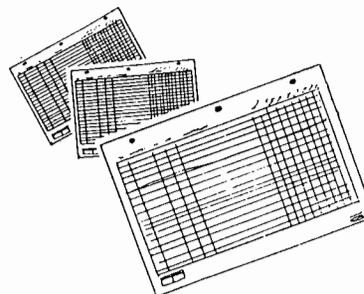
GLASS MUG

9 Ounce Milk White Glass Coffee Mug
with NRC Emblem printed in Black on both sides.
It's Oven-Proof, can be used in the Microwave.
Makes a Great Gift for a fellow DX'er or for Yourself!
US\$6.00 U.S. Addresses
US\$6.75 Canada Addresses

ORDER Today!!
NRC Publication Center
P.O. Box 164
Mannsville, NY 13661



Need to renew?
Expired? The mail-
ing label will tell
you.



LOGSHEETS - BY FREQUENCY

110 sheets, 25 entries possible per sheet with space
available to add your own columns. Punched for 3 ring
binders, full size 8 1/2" x 11", on heavy paper.
110 Sheets for US\$5.00 25 sheets for US\$1.25

ORDER Today!!
NRC Publication Center
P.O. Box 164
Mannsville, NY 13661

WNRC Scoped Airchecks - from the 1988 Convention

Recorded at the 1988 NRC convention in Milwaukee while the FM station was on the air for the weekend, the set of four C-90 tapes is available from the Publication Center for \$9.95. Featured are John Bowker, Joe Sorenson, Phil Wayne, and Bob Walker with their unique approach to broadcasting! Jingles and selections from the shows are included in the tapes, which are housed in their own book-like holder for storage. Rush \$9.95 in check or money order to the NRC Publication center - P. O. Box 164 - Mannsville, NY 13661, and be the first on YOUR block to own the complete set!

Yearly Subscription (30 Issues) to *DX News*: U. S. Address: New Subscriber - US\$24.00. Renewals - US\$22.00. Canadian Address: New Subscriber - US\$25.00. Renewals: US\$23.00. Mexican and Caribbean Addresses: New Subscriber - US\$29.00. Renewals - US\$34.00. All Other Countries: New Subscriber - US\$36.00. Renewals - US \$34.00. Checks or money orders should be made out to:
National Radio Club