



DX NEWS

*the magazine of the
National Radio Club*

—SINCE 1933—

VOLUME 52 ISSUE 26

May 6, 1985

OFFICIAL NOTICE Some important changes have taken place here at HQ recently, we were informed around the middle of March that ye editor, me, will be losing his job (yes, I do work elsewhere besides here) sometime later this year. So...we decided to go for broke and get into the world of retail and be my own boss, I've started a mail-order catalog store, similar to others seen on the front page of DX NEWS. Our first ad is in "The Shortwave Guide" magazine (you can obtain a sample copy for 95 cents from: The Shortwave Guide, 424 W. Jefferson St., Media, PA 19063) or a "The Shortwave Store" Catalog from M4561 Circle Drive, Cambridge, WI 53523-9515). One point if I may, the Shortwave Store and the Shortwave Guide are not related. (Enough of that, don't want to abuse the equal time law, hi!) Anyway, what does this mean to you and the NRC? Well, effective April 10, 1985, Dick Truax will be responsible for the following items: 1) handling the club's external affairs, 2) monitoring DX NEWS and HQ, to make sure that there is no conflict between me as editor and me as the store. (This should keep rumors down, right?...we think so too.) And no, we haven't given up on AM listening or the hobby of BCB or the NRC. Now, onto otherness.....

From Eric Bueneman, "The Gateway DX Club International publication will trimmed down to contain only MW, FM, TV effective with its May 1st edition." What about a Bandscan column??? Next issue, good!!

Received a copy of the John Rieger, DX midAmerica regional magazine, "Hot Tips and Targets". If you'd like a copy send a mint U.S. stamp or a SASE for a copy, you'd be surprised as to its professional look!! Also available from them, "Wisconsin Scrapbook", includes the latests on AM, FM, TV in the state, \$2.00, and for those in the midwest region, "Target Frequency Scrapbook", US\$1.50 booklet containing reprints of target freqs published in the "Hot Tips and Targets" magazine. Address is: DX midAmerica, John Rieger, 1586 S. 82nd St., West Allis, WI 53214-4421

Other regional clubs out there?? Send us a sample bulletin and we'll give you a little space!!

1985 ANARC Convention We have been mailing out registration information, if your interested on coming just drop us 2 mint U.S. stamps and we will send out all the necessary stuff. Write to us at the HQ address. If you can't make it to the NRC Convention in Rhode Island, why not try this one out! A lot of SW Radio Broadcasters will be at this one, more than ever before!!

1985 NRC Convention In case you just joined the NRC...a few words about the NRC Convention. Here goes: Ramada Inn, 144 Anthony Road, Portsmouth, RI 02871. Room reservations will be handled by Craig Healy . DO NOT CALL THE RAMADA INN. Rates are \$55 Single/ \$65 Double. IF YOU INTERESTED IN A TOUR OF NEWPORT AND THE MANSIONS LET CRAIG KNOW NOW!!! Banquet costs, etc haven't been determined yet, don't ask. And when you write to Craig, PLEASE send an SASE. By the way, the location is very close to many a good beach, so bring your swimsuit and shark repellent (just kidding about the last item -HQ). DIXING off the beach is very good by the way. When is this party? Labor Day weekend...of course! That's it on details for now...enough to tell the boss you want that weekend off..right. Craig's address: 66 Cove St., Pawtucket, RI 02861.

DCHANGE Inside is another column full of goodies, the next deadline will be August 1st, so that they will appear in the August 19th issue. Address: 753 Valley Rd., Blue Bell, PA 19422

LOOK INSIDE:

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

AM SWITCH

Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

CALL LETTER CHANGES

Old call:	New call:	Old call:	New call:
560 WTNB TN Brentwood	WVCR 1270 WVOY MI Charlevoix	WKHQ	
630 KGGP WA Opportunity	KKPL+ 1290 WHGR MI Houghton Lake	WJGS	
650 *New NV North Las Vegas	KBKK 1370 WSOL SC Ellore-Santee	WMNY	
680 WKDJ TN Memphis	WRVR 1370 WGNW WI Sussex	WKSH	
850 WCGY FL West Palm Beach	WEAT 1380 WBBX NH Portsmouth	WAVI	
WJW OH Cleveland	WESM WMMG NC Trent Woods	WSFL	
900 WFLN PA Philadelphia	WDOVT 1390 *New CA Fields Landing	KKOV	
940 WLVM MI St. Ignace	WIDG 1420 KHOX TX San Angelo	KBIL	
1040 *New KY Cannonsburg	WKOG 1470 WKLZ MI Kalamazoo	WQSN	
1120 *New VA Duffield	WDOUF 1490 WQOK SC Greenville	WRRB	
1130 KQTI TX Edna	KVOJ 1520 KRSS SD Sioux Falls	KJTA	
1190 KEZY CA Anaheim	KPZE		

*KGGP and WGNW are both silent stations and we suspect the new calls indicate a resumption of operations pending. *We previously reported that WAVI and WDAO in Dayton swapped calls which was incorrect. WAVI-AM took over the old FM calls WDAO. WDAO-FM became WWSN, thus making the WAVI calls available. Note that a handful of stations are going back to former calls.

APPLICATIONS FOR NEW STATIONS

680 KY Newburg: 1000/500 U4
KY Okolona: 2500 D1
720 NC Wake Forest: 1000 D1
VA Tuckahoe: 10000/5000 U2
820 TN Jasper: 1000 D1
830 GA Lithia Springs: 50000/1000 U2
SC San Souci: 5000/500 U1
1120 TX Manor: 2500 D1 (incorrectly listed as 1200 kHz previously)
1560 KY Combs: 1000 D1
KY Hazard: 1000 D1
1590 PR Aguada: 500 D1

GRANTS FOR NEW STATIONS

580 AZ Tucson: 5000/500 U2 (ending the battle for deleted KIKX facilities)
1030 MI Sterling Heights: 5000 D1
1120 TN Maryville: 500 D1 (previously listed incorrectly as 5000 D1)

APPLICATIONS FROM EXISTING FACILITIES

590 WPLO GA Atlanta: change DA pattern
650 WGNZ FL Titusville: change city of license to Christmas, FL (New str)
830 WNYC NY New York: to 820 kHz 50000/1000 U4 (see Otherness & elsewhere)
840 KTFR KS Lyons: relocate XR (New station, not on yet)
1250 KLAZ AR Little Rock: power to 2500/5000 U4
1380 WFCL WI Clintonville: power to 5000/2500 U4
1400 KKNX TX Huntsville: night power to 1000
1420 KRIZ WA Renton: power to 500/500 U4
1470 WLAM ME Lewiston: change from U3 to U2
WKCK PS Orocovis: night power to 2500
1490 WVGB SC Beaufort: to 1000/1000 U1

GRANTS TO EXISTING FACILITIES

580 KYUK AK Bethel: to 640 kHz 10000/10000 U1
760 WCHP NY Champlain: changes in antenna system (New, not on yet)
890 WREE GA College Park: relocate XR (New, not on yet)
1020 WCIL IL Carbondale: changes in antenna system
1180 WGR NC Brevard: relocate XR
1210 KPRZ CA San Marcos: relocate XR (New station, not on yet)
1230 KFPW AR Fort Smith: relocate XR
1240 WJTN NY Jamestown: 1000/1000 U1
1340 WTAN FL Clearwater: changes in antenna system
1400 KCOG IA Centerville: 1000/1000 U1
1430 WXKS MA Everett: changes in antenna system
1450 KJMB CA Blythe: 1000/1000 U1
KOBO CA Yuba City: 1000/500 U1
1490 WSYL GA Sylvania: relocate XR
1580 WLIM NY Patchogue: from 5000 D3 to 1000 D1
1600 KBBX UT Centerville: changes in antenna system

OTHERNESS

620 WTMT KY Louisville: was granted extension of time to complete fulltime
630 KGGP WA Opportunity: presently is silent, may return soon as KKPL
760 WYNE MA Leicester: requests extension of CP for this new station
830 WNYC NY New York: their battle to remain on 6:00 AM to 10:00 PM (a special schedule granted to the station during World War II) was been turned down by the Supreme Court which refused to overturn a lower court's previous ruling in favor of WCCO. WNYC must cease these operations within three months and return to operating as 1000 L1 (from NYC sunrise to Minneapolis sunset) The listed 50000 L4 in the Log is incorrect, that was an application but never granted. They have now applied to move to 820 kHz as noted under Applications in this issue. Further info on this situation appears elsewhere in DX News
840 KWPN NE West Point: station is on
WREF CT Ridgefield: station is on
850 KLEU IA Waterloo: station is silent
870 *App WI Depere: application for new station DISMISSED
1130 KBMR ND Bismarck: requests extension of CP
1150 KDEF NM Albuquerque: station is back on the air with the same standards format they had when they went off the air in mid-1984
1200 *App FL Dover: application for new station DISMISSED
1220 WABF AL Fairhope: application for changes in antenna system DISMISSED
1230 WSMM TN Gatlinburg: application for reconsideration on CP extension granted. Their CP ran out without the station being built and the FCC had first denied an extension. That extension is now granted
240 WYAM MS Meridian: has been on since 4/8/85, had been on 1330 kHz but was silent, is now NSP
1340 KSKI ID Hailey: now saying their move to 1330 kHz will come August 1985.
1400 WTCG AL Andalusia: is on 0630 (0700)-1900 w/CBS Net. These short hours would indicate a change from U1 to SH 1
WCLB GA Camilla: moved here from 1220 kHz last year, sked 0500 (0700)-0000 (2230). Log Updater shows this station as moving to 1220 kHz which is wrong, 1220 is their FORMER frequency
KVLA LA Vidalia: is here ex-1390, sked 0600-0100, came on 12/17/84 w/CBS
WRIG WI Wausau: move to 1390 kHz from Schofield, WI expected 5/1/85
1490 KOAW NM Ruidoso Downs: returned to the air 4/29/85
KVOZ TX Laredo: move to 890 kHz in Del Mar Hills, TX expected 9/85

That's about it for this time. We spent some more time on the Hotline and found more new stations on the air, their addresses, along with a few changes are all loaded in Gayle Yeager's Magic Computer and will appear below.

73 and Good DX,

Jerry Starr & Buffalo K. Foonman.

Big 'Birdie'

BUFFALO — A small plane used by a radio station to monitor traffic bounced 150 yards through fairways and roughs at a golf course before ending up in with only minor damage on the green, police said.

"We got the call and found a Cessna 210 on the sixth green. There was very little damage to the plane and no one was hurt," said Lt. Thomas Telesco. "The course suffered more damage than the plane."

Pilot Michael Nagy, 28, of Niagara Falls, made the emergency landing after the two-seater plane lost fuel pressure over sprawling Delaware Park near the Buffalo Zoo, Telesco said.

Neither Nagy nor Tom Langmyer, 24, of Amherst, was injured, he said.

"He did a tremendous job," Telesco said. "There were a lot of people in the park."

The plane was being used by Langmyer, known as "Captain Tom," to monitor road conditions for WGR-AM and FM.

Tower loss puts crimp in WHAS airwaves

From Staff and Associated Press Dispatches. WHAS Radio, a 50,000-watt clear-channel station that can normally be heard in dozens of states after 4:30 p.m. was struggling yesterday just to be heard in Louisville.

Its 675-foot transmission tower at Flat Rock Road near Eastwood was toppled Friday by a storm that brought high winds to Kentucky and Southern Indiana, but the station managed to stay on the air most of yesterday.

Program Director Denay Nugent said workers erected a 90-foot temporary tower yesterday afternoon that he hoped would bring the station's signal to all of Louisville.

WHAS was off the air for 7 hours and 45 minutes, but engineers "worked their miracles" and the station started broadcasting at 1:45 a.m. yesterday, Nugent said.

The station was off and on the air throughout the day. Each time it left the air, however, station officials intentionally signed off so they could continue their repair work without the risk of electrocution.

Nugent expected the station to be back on permanently by late last night.

If the temporary tower doesn't provide a signal to WHAS's primary audience — a 25- to 30-county area within 60 to 70 miles of Louisville — a second temporary tower will be raised, Nugent said.

That one would be 230 feet tall. If it is needed, it will be put up by late this week, he said.

"One way or the other, we're going to get decent coverage" until a permanent tower can be erected in two to four months, Nugent said.

*More PAGE 11
File at Elavon!*

④ STATION ADDRESS CHANGES

Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

680	KVGO	LA	PINEVILLE	711 WASHINGTON ST.	71301
700	KRMW	CO	SILT	BOX 748	81652
720	HMXV	GA	HOGANSVILLE	BOX 2648 LaGRANGE GA	30241
740	WPRX	WI	HUDSON	BOX 506	54016
750	WRGE	PA	OLYPHANT	124 RIVER ST.-DRAWER 401	18447
840	HNUY	FL	SCOTTSMOOR	110 LaGRANGE AVE.-TITUSVILLE FL	32796
890	WYAI	MS	RIDGELAND	BOX 22622	39205
960	WGRR	AL	FRITCHARD	758 ST. MICHAEL ST. MOBILE AL	36602
1100	KLEM	MN	HADISON LAKE	BOX 488	56063
1100	WQDD	TN	THOMPSON STATION	ROUTE 1	37179
1100	WUBS	IL	HARRISBURG	1029 S. HOBSON ST.	62946
1120	WKQH	PA	OIL CITY	BOX 1222	16301
1150	WTNZ	MS	CLINTON	BOX 31	39056
1170	KDLP	LA	BAYOU VISTA	10 PLUTO ST.	70380
1180	WSAF	GA	TRION	BOX 111	30753
1200	WYCP	KY	RADCLIFFE	BOX 609	40160
1310	WJOZ	PA	TROY	170 REDDINGTON AVE.	16947
1400	KVLA	LA	VADALIA	BOX 1149	71373
1400	WLNJ	MI	ELMWOOD TWP.	BOX 1400 TRAVERSE CITY MI	49685
1400	WTCC	AL	ANDALUSIA	303 SOUTH THREE-NOTCH ST.	
1410	HGFN	NY	S. GLENS FALLS	15 CHARLES ST.	12801
1450	KDRW	CO	SILVERTON	1911 MAIN AVE. DURANGO CO	81301
1450	HHRV	WI	HURLEY	BOX 107 IRONWOOD WI	49938
1460	HEMR	PA	TUNKHANNOCK	R.D. #2 BOX 232	18657
1520	WCHG	TN	LAWRENCEBURG	208 PULASKI ST.	38464
1530	WMBE	WI	CHILTON	BOX 30	53014
1560	KLLV	CO	BREEN	14780 HIGHWAY 140	81326
1560	KBRL	NE	IMPERIAL	BOX 1284	69033
1590	WALY	KY	GRAY	BOX 311	40734

HAVE FUN PLAYING WITH YOUR NEW ADDRESSES BUT DON'T HURT YOURSELVES !!!

FCC is tuned for static on new AM radio band

By IRVIN MOLOTSKY
NEW YORK TIMES

WASHINGTON — The Federal Communications Commission is receiving suggestions on how to allocate new radio stations that will be created as the AM band is widened at the upper end of the dial.

"It is too early to tell which way it will go," said Larry D. Eads, chief of the audio services division at the commission, noting that the new stations could be commercial, non-commercial or a mixture of both.

Whatever the decision, listeners will have to buy new radios in order to hear the new stations when they go on the air in the early 1990s, which is a pleasant prospect for manufacturers of the sets, who say they have sold more than one billion of them in the past 37 years.

The expansion of the AM band, to take in 1605 to 1705 kilocycles, or kHz, is the first major change on that spectrum since it was established more than 50 years ago.

The Corporation for Public Broadcasting (CPB) has urged that the FCC reserve some of the new stations for public radio and for non-commercial stations serving minority and non-English-speaking audiences.

Public radio stations generally broadcast on the FM band, CPB said there were many parts of the country without public radio because no FM channels were available.

The National Association of Broadcasters partly supports the public broadcasting proposals but adds that some of the new stations should be allotted to the operators of existing low-power commercial stations that now go off the air at sundown so that they can extend their broadcasting hours.

"Many of them would like to get the opportunity to operate at night," said Barry Umansky of the association's legal department. "We would like them to get the first shot at the stations on the new band."

After five years, Umansky suggested, such broadcasters would transfer the licenses of the low-powered stations to other operators.

A federal agency, the National Telecommunications and Information Administration, has suggested that part of the widened band be allotted to a travel information service that would warn motorists of traffic congestion ahead.

This is already done on a limited basis near many airports, bridges and tunnels, with motorists able to receive alerts from very low-powered transmitters that can be heard in narrow areas.

The portion of the dial to be taken over by the new stations is a largely underused segment that radio stations now use for non-broadcast purposes.

One such use is the transmitting of a news report from a remote unit to the home base for rebroadcasting on the station's assigned frequency.

Despite obituaries that have been written about radio since the advent of television 40 years ago, it has remained extremely popular. According to the Electronic Industries Association, 52 million radios were sold in the United States in 1983, the last year for which statistics are available.

The Radio Advertising Bureau says that 99% of American households have at least one radio and that the average number is 5.5 sets per household. "Some people thought that television would usher out radio," said Alan Schlosser, a vice president at the electronics association, "but it is alive and well."

According to Broadcast magazine, there were 4,485 AM and 4,505 FM stations on the air in 1983, and the broadened AM spectrum will add several hundred more.

VIA GAYLE YEAGER

Order DX Shack Goodies NOW!

NRC Publication Center
Post Office Box 164
Manassas, NY 13661

DOMESTIC DX DIGEST

⑤

Dave Schmidt, 42 Chelwyne Road, Castle Hills, New Castle, DE 19720

Here is the NRC column which is almost as exciting as burnt toast! When sending your items in, please type or neatly write, one side of the paper, ELT, skip a line or two between items. Any loggings after 4/27 should be in Daylight Savings Time. As John Malicky would say, 'why?'

WGNB 152 AM

SPECIAL

- 750 KJEL MO LEBANON - 3/25 0852 way o/WSB w/CW music, promos, weather, x-1080. (EB)
- 830 WLND OH CORTLAND - 4/16 1848-1901 way o/WNYC w/CW music, clustered ads, weather and s/off w/freq./power only, closed w/patriotic song. (KG-PA) 4/2 1200 per Starr tip, good semi-local signal w/CW music, local ads, news. (JM-PA)
- 840 WHAS KY LOUISVILLE - 4/6 0118+ noted not as strong/fading, per call found out tower blew down 4/5 1700 in windstorm and they were running 700 watts into a 300' LW strung out transmitter building! Asking for calls on signal quality. (JM-PA)....Noted off 4/6 after wind storm blew down tower, noted back 4/7 w/weak/unstable signal, obviously on some temporary antenna. (JS-OH) Are you sure it was the antenna? (DS)
- 850 WREF CT RIDGEFIELD - Now on regular schedule w/BBD/NOS format, ID's as AM-85, Refreshing Radio. On 3/25, started a 3 hour news block from 0600-0900 called 'CT Magazine' and 'The Reference'. (TF-CT)
- 1150 WMEX MA BOSTON - Returned 3/17 w/this famous call and oldies format, not sure of sked, ex-WHUE/WTKQ/WACQ/WOOP. (MD-MA)....4/9 0552-0600 o/all w/oldies, news sports, weather, program promo, lost to s/on of local WYNS at 0600. (KG-PA)....4/12 1620 good w/oldies, contest promo, 'Whimex' ID's. (BC-NH)
- 1210 WDAO OH DAYTON - 3/9 0624 sports, news, weather, ad, B/Sol music, simulcasts WDAO-FM, ex-WAVI. (EB-MO)
- 1370 WKSH WI SUSSEX-MILWAUKEE - No longer silent, now Contemporary Christian music, 'KS-14' w/legal ID on hour, Sked.: 0700-0100, ex-WGMW. (JJR-WI)
- 1450 WNAB CT BRIDGEPORT - 3/31 2400 station went silent, bankrupt after never having a silent period! (TF-CT)
- 1470 WKWV PA ALLENTOWN - 4/15 0600 began CW programming w/NO s/on, anc'd change at 0608, clustered ads, NBC news, local news, weather, ID's as 'Country 1470', dropping WSAW 4/15, used since 1923! Calls from former FM station which switched to WAEB-FM. (KG-PA)
- 1520 WOCS PA HOMER CITY - 4/1 1833-1900 o/WKRW w/MOR music, local ads into detailed s/off, ex-WRID. (DV-NY)
- WLGC KY GREENUP - 4/1 1848-1906 o/u WOCS until 1900 then atop w/weather, KY PSA, ID, music, ID mentioned stereo. (DV-NY)

FREQUENCY CHECKS

- 3rd MON - WVFC-1530 3/18 very good u/WCKY per list. (JM-PA)
- WMBT-1530 3/18 0057-0116 very good u/WCKY w/rock music, 2 jingle/ID. (JM-PA)
- WFTH-1590 3/18 0050 strong w/classical music, mention of reports rec'd w/names read, requested reports. (JM-PA)
- 3rd TUE - WCHE-1520 3/19 0002-0014+ good w/WKRW w/oldies/current songs, pulse TT. (JM)
- 4th TUE - WCVA-1490 0045-0055 good w/TT, voice ID. (KG-PA)

EMERGENCY BROADCASTS

- 1150 WGOW TN CHATTANOOGA - 4/5 1946 strong o/din w/MOR/oldies, tornado info w/weather updates. (JM-PA)
- 1570 WCLE TN CLEVELAND - 4/5 1955 very good o/others w/tornado info, CW music. (JM)

DX TESTS

- 1030 KCTA TX CORPUS CHRISTI - 4/15 No sign of test, just KDKA-1020 splash, WBZ fading. Was he even on? (JM-PA)

MIDDAY - MIDNITE

- 570 CKSW SK SWIFT CURRENT - 3/13 1620 weather, local ads, PSA, not usually heard during daylight hours. (MS-MB)
- 590 WMBS PA UNIONTOWN - 3/23 1915 w/ID repeated 5 times, no Cuban. (EM-NC)
- CFAR MB FLIN FLON - 3/13 1625 local ads, AdCon music. (MS-MB)
- 600 WCAO MD BALTIMORE - 3/9 2120 very good w/CW music, ads, promo w/mention of 'Voice of the USPL Stars'. (JM-PA)
- KLZZ CA SAN DIEGO - 3/23 2337 u/KPRC-610 splash w/promo, pop music. (MDF-CA)
- 620 WHEN NY SYRACUSE - 3/11 2218-2225 fair w/rock music, ads, weather, '62 WHEN' ID's. (RAD-PA)

680 WCTT KY CORBIN - 3/7 1905-1931 very good o/din w/ads, high school basketball game, 'Your Station for sports' ID. (JM-PA)

WINR NY BINGHAMPTON - 3/8 2050 xint w/weather, news headlines and MYL. (I like to rub it in!). (JM-PA) You do that with sun tan oil, see if this shows up again when you report it-hil (DS)

730 WOHs NC SHELBY - 3/23 1746 Poor w/CW music, ID. (EM-NC)

WJTO ME BATH - 3/24 1815-1835 on w/MoR music, way o/CKAC/WPIT, never heard before, are they fulltime now? (TF-CT) No, part time for tax reasons.

740 WVCH PA CHESTER - 3/10 1634-1703 Fair w/Frazier Gospel Hour, ID, program promo into news in brief w/Christian perspective. (RAD-PA) Actually, I thought the program was poor! (DS)

770 WJMW AL ATHENS - 3/9 2201-2235 fair/poor o/WABC at times w/RKO news, ad, weather, frequent ID's, CW music. (RAD-PA) Rich, please stick w/the prevailing LOCAL time when reporting your logs, not RRST (Rolling Rock Standard Time)! (DS)

780 WABS VA ARLINGTON - 3/19 1810 atop, alone w/Contemporary Christian music. (MD)

860 CBH NS HALIFAX - 3/8 1818-1836 good in CJBC null w/'As It Happens' news program, CBC ID, 'Variety Tonite' program w/film reviews. (BH-NJ)

900 WLSI KY PIKESVILLE - 3/23 1800 very strong w/ID, news. (EM-NC)

910 CKLY ON LINDSAY - 3/18 1920 strong w/CW music, ID. (BC-NH)

920 WKRT NY CORTLAND - 3/11 1758-1805 poor/fair w/EZL music, ID, ABC news. (RAD)

WPMN WV FAIRMONT - 3/11 2203-2216 fair w/MYL, ID, PSA. (RAD-PA)

930 WTAD IL QUINCY - 4/9 1952 very good past cut-off w/ID, ads, Sports wrap talk show. (JM-PA)

940 WGFP MA WEBSTER - 3/24 1733-1740 way o/WINE w/BBD/EZL music, ID as 'Central MA Beautiful Music Station'. (TF-CT)

970 WTKN PA PITTSBURGH - 3/23 1905 o/u WAVE w/news, ID, weather. (EM-NC)

990 WCEL NC SOUTHERN PINES - 3/6 1805 w/news, ID, no WNOX. (EM-NC)

1030 KHOG AR FARMINGTON - 3/1 1919-1929 good w/CW music, promo for Razorback Baseball, gone at power cut. (JM-PA)

1040 WBZW TN POWELL - 3/6 1800 o/u WHO w/ID, old music, no WRBO. (EM-NC)

1050 WSEN NY BALDWINVILLE - 4/13 1835-1840 strong in WRN's null w/CW music, local PSA. (KG-PA)

1060 WMCL IL MCLEANSBORO - 3/1 1900 fair w/s/off u/KYW. (JM-PA)

1070 WTSO WI MADISON - 4/2 1942 strong thru WIBC/CHOK, caught ID, promo and possible B/Sol music, gone at power cut and not heard since. (JM-PA)

WSCP NY SANDY CREEK - 3/31 1803 local news, weather, promo for new news director, lost to WKOK. (TP-CT)

1100 KLLL MO WEBB CITY - 3/1 1925 fair w/s/off u/WWE w/Radio 11 ID and return at 0700. (JM-PA)

KDRY TX ALAMO HEIGHTS - 3/17 1923 u/WWE w/religious program. (RIGAS-IL)

1110 WMBI IL CHICAGO - 4/5 1930 strong w/Spanish program then s/off in English.(JM)

1130 WISM WI MILWAUKEE - 4/5 1925 xint w/ID, AdCon music. (JM-PA)

1140 WCLW OH MANSFIELD - 4/3 1918 fair in WRVA null w/rock music, full s/off. (JM)

KSOC SD SIOUX FALLS - 3/24 2106 poor in WRVA null w/detailed weather. (RIGAS)

1150 CKOC ON HAMILTON - 3/18 1954 on top, no sign of WMEK. (BC-NH)

WRUN NY UTICA - 3/11 1735-1740 o/WCNX w/news, WHUE/WMEK off. (MD-MA)

CJRC ON OTTAWA - 3/12 1859 atop jumble w/French. (MD-MA)

CHSJ NB ST JOHN - 3/12 1900 atop jumble w/ID into news. (MD-MA)

WGGH IL MARION - 4/3 fair in mess w/REL music, s/off. (JM-PA)

WMST KY MT STERLING - 4/8 1918 weak w/ID, fading up w/s/off w/mention to tune FM. (JM-PA)

1170 WVSG NY CORNWALL - 3/31 1745-1800 'Oldies Weekend Revival', full data s/off. Unusual here as WBRN/WJCC/WKRT usually prevail. (TP-CT)

1190 CHTN PEI CHARLOTTETOWN - 3/18 2000 xint o/WOWO w/Music of the Maritimes promo. (BC-NH)

1260 CIHI NB FREDERICTON - 3/18 2017 good w/MySery Music Contest promo, rock music, o/WEZE. (BC-NH) Forgot a 't', please insert! (DS)

1280 WGBF IN EVANSVILLE - 4/5 1936 very good o/others w/Solid Gold Weekend, ID, time check, ads, contest promo, phone #, past changeover time. (JM-PA)

WADO NY NEW YORK - 3/8 1948 xint w/Spanish music, news, ID in English. (JM-PA)

3/24 2328 good w/REL/GOS music. (BC-NH)

WEVR PA HANOVER - 3/11 1805 xint w/ad, weather, sports, ID. (JM-PA)

1290 WBNF NY BINGHAMPTON - 3/8 1910-1954 xint w/ads, Accu weather, MoR music, Whalers hockey, strong NE opening. (JM-PA)

1310 CKOY ON OTTAWA - 3/24 2322 xint w/Disneyworld contest promo. (BC-NH)

1330 WNYM NY NEW YORK - 3/24 2317 good w/Sunday Journal, talk show. (BC-NH)

1350 CHRO ON PEMBROKE - 4/14 2100 w/ID, Country USA CW music program, o/u others. (BC-NH)....3/10 1911-1922 mostly atop w/CW music, St. Patricks Day contest. (BH-NJ)

UNID 3/10 1916-1918 briefly noted, French anc'r, ad, disco/raggae record, CJLM? (BH-NJ)

1360 WDRC CT HARTFORD - 3/20 2105 fair w/oldie, weather, ID. (RAD-PA)

1380 CKPC ON BRANTFORD - 3/24 2309 good w/local news, weather, sports. (BC-NH).... 3/10 1827 noted briefly w/ID. (BH-NJ)

WACB PA KITTANNING - 3/10 1822-1830 weak in WKDM null w/Top 40 oldies, detailed s/off, instr. SSB, w/WNVR off, this freq. has really opened up, even in north Jersey! (BH-NJ)

UNID 3/2 1849-1911 good, looping E/W w/rock music, promo for WSPL FM 106.5, help? (JM-PA) Let's try WWMG. (DS)

1390 WRSC PA STATE COLLEGE - 3/10 1737-1757 fair w/Top 40 oldies, promo for talk program, 'Radio 1390' ID. (BH-NJ)

WPLM MA PLYMOUTH - 3/10 1806-1820 fair w/local news, alternating male/female newscasters, sports, AM/FM ID, into BFL music. (BH-NJ)

1440 WMER ME WESTBROOK - 4/6 1800-1820 news, talk, program promo, way o/WFTQ. (TP)

WCDL PA CARBONDALE - 4/6 1840-1845 oldies, full data s/off, 'A Memory in Every Song.' (TF-CT)

WNPV PA LANSDALE - 4/6 1806 mixing w/WMER/WFTQ w/Lansdale area news, Community news. Used to wish I DIDN'T hear this guy! (TF-CT) He used to live in one of their tower houses! (DS)

1450 WKXL NH CONCORD - 4/7 1845 promo for 'Day Shift' program w/Virgil Eberhand before being lost to the pack. (TP-CT)

1460 CKRB PQ ST GEORGES DE BEAUCE - 3/24 1919 xint w/French talk, Top 40 music.(BC)

1470 CKO PQ POINTE CLAIRE - 3/24 1900 good w/CKO radio net. ID. (BC-NH)

1480 WSAR MA FALL RIVER - 4/14 1922 AdCon briefly o/CHRD w/Starwatch weather. (BC)

CHRD PQ DRUMMONDVILLE - 3/24 1904 xint w/French talk, jingle/ID, music.(BC-NH)

WSAY VA SALEM - 3/26 1845-1905 very strong w/Big Band music, cluttered ads, ABC news, 'Station of the Stars' slogan, sounds like a full time operation. (KG-PA) Still just a daytimer. (DS)

1490 WACH MA W SPRINGFIELD - 4/14 1843 fair w/Portuguese music, talk. (BC-NH)

WPAD VT MIDDLEBURY - 4/14 1906 w/local news, o/u WACH/din. (BC-NH)

WKIT WV CHARLESTON - 3/23 2315 in clear w/ID, ads. (EM-NC)

1500 KSTP MN ST PAUL - 4/7 1933 good w/WTOP, Talkradio ID, talk program. (JM-PA)

1510 UNID 4/7 1835-1900 teletalk w/southern accent, ad for garden store in Waynesville, talk show host was Jack —, s/off 1900 w/'the Party's Over', sounded like KAYE, suspect KAGC, weak u/looped WLAC. (JS-OH)

1530 WJDM NJ ELIZABETH - 3/16 1604-1611 news, ID, time check, ads, sports, fair at times w/some splash. (RAD-PA)

1550 WCVL IN CRAWFORDSVILLE - 3/23 1940 o/all the mess w/weather, ID. (EM-NC)

WOKJ MS JACKSON - 3/1 1903-1914 weak but clear w/B/Sol music, 'Station of the Stars' ID, lost at power cut. (BH-NJ)

WMOO AL MOBILE - 3/3 1857-1900 faded up nicely w/religious music, detailed s/off w/'50000 watt gospel voice of AL' ID. (BH-NJ)

WKVA WV CHARLES TOWN - 3/16 1620-1641 w/contest info, tax advice, CW music, ID 'Rock Country 15-50', fair signal. (RAD-PA)

UNID 3/13 1803-1812 w/Rock 15 ID, time check, ad for Kings Street Pub, weather, very poor w/CBE. (RAD-PA)

1560 WTOP OH TOLEDO - 3/23 1845 s/off noted after pest WAGL s/off. (EM-NC)

WSHY IL SHELBYVILLE - 4/3 1944 good thru WQXR w/ID in s/off. (JM-PA)

1570 CKLM PQ MONTREAL - 4/3 2358 atop w/French talk, jingle/ID, music. (JM-PA)

CFOR ON ORILLIA - 4/13 2055 all alone w/CW music, no CKLM. (BC-NH)

WWMY WI MINOQUA - 4/6 1941 fair w/s/off. (RIGAS-IL)

1580 WPGC MD MORNINGSIDE - 3/14 1802-1815 w/rock music, ID, traffic report, FM mention, fair/good signal. (RAD-PA)

WPSK VA PULASKI - 3/15 1848-1859 fair w/CW music, ID'ed only as WPSK-FM in what seemed to be a legal ID then gone. (BH-NJ)

WVKO OH COLUMBUS - 4/15 1920-1928 very strong running overboard w/rock music, frequent ID's, off abruptly without s/off. (KG-PA)

WANB PA WAYNESBURG - 3/3 1856-1859 talk about drunk driving, s/off w/plugin for local radio shop, seemed to be on late. (MS-ON)

1590 WQQW CT WATERBURY - 3/20 1950-1956 poking thru w/MYL type music, female anc'r w/ID, mentioning 'Your Favorite Music'. (RAD-PA)

MIDNITE - MIDDAY

560 WJLS WV BECKLEY - 3/28 1130 w/promo, o/WIS. (EM-NC)

570 WSYR NY SYRACUSE - 4/6 0545 in WMCA null w/weather then faded. (TP-CT)

610 CHYM MB THOMPSON - 3/13 0920 weather, PSA, ID. (MS-MB)

640 WMLS OK MOORE - 4/3 0013+ very good at times w/oldies, PSA, triple ID as Moore-Norman-Oklahoma City, 'Oklahoma City's New Oldies Station', and 'Willis' ID. (JM-PA)

650 CISL BC RICHMOND - 3/21 0221 fair w/oldies o/WSM. (MDF-CA)

660 CFPR AB CALGARY - 3/21 0200 fair w/hockey scores, rock music, ads. (MDF-CA)

680 KNBR CA SAN FRANCISCO - 3/19 0618 very good popping up w/PSA, promo, ID. Last heard 14 years ago this month. (JM-PA)

WCBM MD BALTIMORE - 3/15 0615-0630 good o/u din w/time check, Accu-weather, traffic, news, sports, ads. (JM-PA)



730 CKLG BC VANCOUVER - 3/15 0245 'Music Radio LG 73' ID, ads, news feature. (MDF)
 750 KERR MT POLSON - 3/18 0114 good thru KCBS-740 splash, CW music, PSA. (MDF-CA)
 760 *WJR MI DETROIT - 4/9 0210 noted off this AM. (JM-PA)
 770 *WABC NY NEW YORK - 4/9 0211 also noted off this AM. (JM-PA)
 780 WABS VA ARLINGTON - 3/14 0629-0714 xlint o/u WBEM w/REL music, ID, time check, religious program. (JM-PA)
 790 KGHL MT BILLINGS - 3/16 0236 weak o/KABC w/CW music, basketball promo. (MDF)
 800 CJAD PQ MONTREAL - 3/9 0648-0701 good w/MOR music, ID as '800 Stereo', ski report, local news. (BH-NJ)
 840 *WEAS KY LOUISVILLE - 3/18 0145 noted off this AM. (JM-PA)
 850 KOA CO DENVER - 4/6 0106 slam dunking others w/wrap up of Nuggets-Spurs game. (JM-PA)...4/1 0040-0044 fair atop jumble, u/WHDH OC w/talk sho, ID. (MD-MA)...4/6 0531-0539 regional weather, talk, lost to WHDH. (TP-CT)
 *UNID 3/18 0140 strong TT looping NE. (JM-PA)
 WIVK TN KNOXVILLE - 3/5 0649 fair/poor w/CW music, ID, ad, u/KOA, lost at WLRC/WPFD s/on's. (EB-MO)
 860 WOAY WV OAK HILL - 3/7 0630-0700 xlint u/CJBC w/full s/on, REL music, church notes. (JM-PA)
 *CJBC ON TORONTO - 3/19 0212 off this AM, later w/TT. (JM-PA)
 WDMG GA DOUGLAS - 4/2 0602 poor but clear w/AM-FM ID. (JJR-WI)
 870 WPRQ TN COLONIAL HEIGHTS - 3/15 0644 good w/full s/on, Power Radio ID, Good Morning song, religious music. Kingsport-Johnson City-Bristol mentioned in ID. (JM-PA)
 WFLO VA FARMVILLE - 3/16 0629 fair/good w/s/on, news brief, ads, CW music. (JM)
 *WVL LA NEW ORLEANS - 3/31 0135 noted off this AM, TT also noted. (JM-PA)
 KUUY WY ORCHARD VALLEY - 3/24 0150 w/weather, promo, automated CW music, good in WWL null. (JJR-WI)
 940 WMIX IL MOUNT VERNON - 3/10 0159 good w/ID 'Where the Stars Shine Even When the sun goes down', jingle/ID, Mutual news, only local break in Larry King show noted. (JM-PA)
 WKYK NC BURNSVILLE - 3/30 0715 o/WINC w/ID. (EM-NC)
 950 WJPC IL CHICAGO - 3/10 0223-0255 xlint o/u extreme din w/B/Sol music, promo, request line #, mixing w/WQUE/WJW. (JM-PA)
 990 WLKW RI PROVIDENCE - 3/9 0600-0618 good w/quick s/on into local news, MYL type music, local ads, promo for 'Sounds of Sinatra', fought and lost out to WZZD 0615 power boost. (BH-NJ)
 1090 CKRW ON KITCHENER - 4/7 0102 strong o/WBAL w/ID, promo, Stereo mention, MOR/AdCon music. (JM-PA)
 *UNID 4/6 0109 strong TT looping SW. (JM-PA)
 1140 KSOO SD SIOUX FALLS - 3/31 0200 good but fading w/Talknet, ABC and local news, o/u WRVA OC. (JM-PA)
 1190 CPSS SK WEYBURN - 3/25 0011 fair in WOWO null w/CW music, ID. (RIGAS-IL)
 1230 KFLR AZ PHOENIX - 3/14 0355 local church news, atop channel. (REW-HI)
 1290 CJBK ON LONDON - 4/15 0238 fair w/Top 40 music, only readable signal on this frequency. (BC-NH) Better get your radio fixed! (DS)
 1300 CJME SK REGINA - 3/13 0919 good w/weather, ID. (MS-MB)
 1320 WJAS PA PITTSBURGH - 4/15 0200 u/CPGM w/ID, news, Big Band music. (BC-NH)
 WKIN TN KINGSPOINT - 3/31 0141 poor/alone on channel w/Music Country network, weather, ID. (JJR-WI)
 1360 WIXZ PA MCKEESPORT - 4/3 0556 fair w/ID, CW music. (RIGAS-IL)
 WMBZ NJ VINELAND - 4/3 0559 tentative w/partial ID, loud before WSAI pattern change. (RIGAS-IL)
 1370 WXXI NY ROCHESTER - 3/11 0100 good u/WSPD w/AP news, weather, full data s/off w/2 verses of America the Beautiful, off 0109. (JM-PA)
 1400 KBCH OR LINCOLN CITY - 3/14 1148 news of Lincoln City Water District, only sent me bumper sticker but no verie. Traded the Suzuki that I stuck it on, now I have nothing. (REW-HI) But look at it this way, if you took the bumper off the car, you'd have a hard time keeping it in a folder with the rest of your veries! (DS)
 1420 *WHK OH CLEVELAND - 3/18 0141 strong w/TT, no ID's but suspect they from strength. (JM-PA) Old Spice works good on strength, tool (DS)
 WHEB KY HARRISBURG - 3/30 0602 s/on w/rooster crows, AM/FM ID. (RIGAS-IL)
 KITI WA CENTRALIA - 3/15 0224 very weak u/XEEX w/pop music. (MDF-CA)
 1430 WYAM PA ALTOONA - 3/10 0710-0830 xlint at times w/CW music, ads, PSA, Central PA weather, NBC news, All Country 1430 then religious program. (JM-PA)
 1440 WVMG GA GORDON - COCHRAN - 3/26 0600 clear but poor w/AM-FM s/on. (JJR-WI)
 1450 WNAS MA SPRINGFIELD - 4/1 0540-0601 MYL, Radar weather, Mutual news, ID, regular here w/WNAB off. (TP-CT)
 WCTC NJ NEW BRUNSWICK - 4/1 0545-0605 news, talk, Central NJ's News Leader, another new regular here. (TP-CT)
 WWIN NJ ATLANTIC CITY - 4/1 0545 briefly in w/ID then lost to WCTC/WNAS. (TP)
 1470 CJVB BC VANCOUVER - 3/18 0343 full data s/off, no athem, to return 0730, change in log sked. (REW-HI) Should be a SPECIAL item. (DS)



1500 WEAC SC GAFFNEY - 3/30 0920 o/WSMX w/AdCon music, ID. (EM-NC)
 1510 WJCO MI JACKSON - 4/7 0614 fair in WLAC null w/ad. (RIGAS-IL)
 1520 *WKBW NY NEW YORK - 3/25 0120-0135+ totally off leaving fair signal from KOMA w/CW music, ads, weather, PSA. (KG-PA)
 1550 WCCZ FL NEW SMYRNA BEACH - 3/11 0559 weak w/s/on w/owners, ID. (JM-PA)
 WAWN GA VIENNA - 3/10 0558 xlint w/full data s/on, 'Your live Country Connection', time check, RKO news then gone. (JM-PA)
 1560 KTXZ TX W LAKE HILLS - 3/18 0314 rock oldies, quiet DJ, giving away passes to Austin shows. In clear. Anyone have an address on this guy? (REW-HI)
 WQXR NY NEW YORK - 3/13 0500 w/news, 3/14 0312 steady S7 w/classical music, 3/19 0015 almost topping KPWC w/music, has become almost a regular here! (REW-HI) And they have a sorry signal here. (DS)
 1570 CKTA AB TABER - 3/24 0051 xlint w/CW music, golf scores, ID. (MDF-CA)
 1580 WSRP FL FT LAUDERDALE - 4/1 0055-0100 good thru obnoxious CBJ TT w/MYL. (MD-MA)
 4/1 0139 very good w/BBD/BPL music, weather, ID, just o/CBJ TT. (JM-PA)
 WIZY GA COLUMBUS - 3/10 0305 very good w/ID '24 hour Christian voice of Columbus' into religious music. (JM-PA)
 1600 KGST CA PRESNO - 3/24 0054 xlint thru KUBA/KWOW w/Spanish, ads, ID, music. (MDF)

OTHERNESS

1622 KPP941 NY YONKERS - 4/1 0130-0150 strong w/pop music, anti-armament propoganda, giving WOZZ-Presque Isle, ME address. 4/14 2105 good w/political talk, this stations is beginning to sound like the PRN pirate! (KG-PA) Same bed, different sheets? (DS)

HIDE-OUT DEPT.

Travelled the haunts of I81 again, hid out in NC 4/13 thru 4/20 but no time to even listen this year. WDDD-1520 is still off the air but it may be back on soon with it's sale pending, sources report.

Remember, please convert your reports to EDT before sending them along. We don't use EST, GMT or DDT. EDT is the prevailing local time, that's what we use. Thanks!

MADE POSSIBLE BY

BC-NH/Bruce Conti, New Ipswich, NH/R70, APT3, LW
 KG-PA/Kermit Geary, Walnutport, PA/ HQ180, R389, Loop, LW
 JM-PA/John Malicky, Pittsburgh, PA/Aiwa Ar158
 EM-NC/Ed Mitkus, Zionville, NC/RP2600, Loop, LW
 BH-NJ/Bob Harrison, Union, NJ/Superadio
 TF-CT/Tony Fitzherbert, Fairfield, CT/ICPSSW
 MD-MA/Marc DeLorenzo, Holliston, MA/GE World Monitor
 REW-HI/Richard Wood, Hilo, HI/R1000, 3 beverages
 RAD-PA/Richard D'angelo, Wyomissing, PA/IC R70, RP2900, AN1
 RIGAS-IL/Christos Rigas, Chicago, IL/R2000, ICP 2002, Kolwalski Loop
 MS-ON/Morris Sorrensen, Milton, ON/DX302, DA9 loop
 MS-MB/Morris Sorrensen, Leaf Rapids, MB/TRF
 DS-NY/Don Voorhies, Oswego, NY/DX300, LW
 JJR-WI/John Reiger, West Allis, WI/ICOM R 70, R1000, Loops
 EB-MO/Eric Bueneman, Hazelwood, MO/DX200, Superadio II, Loop
 MDF-CA/Michael Fabbini, Menlo Park, CA/ICP 6500 W
 JS-OH/Jerry Starr, Hubbard, OH/HQ180, Loop, LW
 THASAP/They're Having A Sale At Penny's!



wdel radio 1150

And that's it for this week! See you in your mailbox again in a couple of weeks!

73's - Good DX!

PS: To all those who reported hearing WQIQ, veries are coming slow but sure!

Now that it's Summer!!

Now is the time to start to work on your Antennas and in your Shack.

Time now to get the necessary books and such from:

NRC Publication Center
 Post Office Box 164
 Mannsville, NY 13661

SPORTS NETWORKS

Barry S. Finkel, 10314 S. Oakley Ave., Chicago, IL 60643

Here is the information about Major League Baseball Networks. Most of the information comes from *Broadcasting Magazine* March 4, 1985. Credits for individual network lists will appear at the end of the column. After an absence of 25 years, CBS radio will begin broadcasting two games each Saturday (one daytime and one evening), beginning May 25th for 20 weeks. At the end of the season there may be some weekday/weeknight games on the CBS schedule. Sportscasters include Brent Musberger, Lindsey Nelson, Curt Gowdy, and Johnny Bench. Here are flagship stations and network sizes and announcers.

Atlanta Braves	750 WSB -GA	100	Skip Caray, Pete Van Weiren, John Sterling, Ernie Johnson
Baltimore Orioles	1300 WFBR-MD	60+	Jon Miller, Tom Marr
Boston Red Sox	1390 WPLM-MA	75	Ken Coleman, John Castiglione
	99.1 WPLM-MA		
California Angels	710 KMPC-CA	14	
	107.5 KLVE-CA	2	SP
Chicago Cubs	720 WGN -IL	46	Harry Caray, Lou Boudreau, Dewayne Stats, Vince Lloyd
	105.1 WOJ0-IL	0	SP (limited games)
Chicago White Sox	670 WMAQ-IL	22	Lorne Brown, Del Crandall
Cincinnati Redlegs	700 WLW -OH	86	Marty Brennaman, Joe Muxhall
Cleveland Indians	1100 WWWE-OH	30	Herb Score, Steve LaMar
Detroit Tigers	760 WJR -MI	45	Ernie Harwell, Paul Carey
Houston Astros	740 KTRH-TX	30+	Milo Hamilton?
	920 KYST-TX	0	SP
Kansas City Royals	580 WIBW-KS	113	
Los Angeles Dodgers	790 KABC-CA	28	
	1020 KTNQ-CA	3	SP
Milwaukee Brewers	620 WTMJ-WI	50	Ed Hughes
Minnesota Twins	830 WCCO-MN	40	
Montreal Expos	600 CFCE-PQ	35	EN
	730 CKAC-PQ	42	FR
New York Mets	1050 WHN -NY	17	Bob Murphy, Gary Thorne
New York Yankees	770 WABC-NY	60	Frank Merser, John Gordon
Oakland Athletics	560 KSFO-CA	14	
	104.9 KBRG-FM	0	SP
Philadelphia Phillies	1210 WCAU-PA	26	
Pittsburgh Pirates	1020 KDKA-PA	39	
Saint Louis Cardinals	1120 KMOX-MO	115	
San Diego Padres	760 KFMB-CA	6	Dave Campbell, Jerry Coleman; Bob Chandler, Ted Leitner
	1420 XEXX-BC	30	SP
San Francisco Giants	680 KNBR-CA	7	Hank Greenwald, David Glass
	1050 KOFY-CA	0	SP
Seattle Mariners	710 KIRO-WA	22	Dave Niehaus
Texas Rangers	820 WBAP-TX	10	
Toronto Blue Jays	1430 CJCL-ON	45	

The following network lists came courtesy of Bruce Conti-NH, Bill Hardy-WA, Dale Saukerson-MN, and P. E. Choroszy-NE. Please send me any network lists and/or announcer names that you may have.

California Angels					
710 KMPC-CA	1010 KCHJ-CA	1240 KSHA-CA	1440 KPRO-CA	97.7 KDOL-CA	107.1 KAAT-CA
920 KKAH-CA	1230 KXO -CA	1340 KDOL-CA	1450 KTIP-CA	99.3 KMDX-AZ	TBA Tucson,AZ
970 KNUU-NV	KPRL-CA	KFBR-AZ	1490 KDB -CA	100.3 KIKO-AZ	

California Angels (SP)	
1400 KRCQ-CA	107.5 KLVE-CA

Boston Red Sox		Campbell Sports Network		Ken Coleman, John Castiglione	
550 WDEV-VT	1110 WUHN-MA	1290 WKNE-NH	1400 WHMP-MA	1490 WEMJ-NH	99.3 WKTJ-ME
560 WHYN-MA	1230 WNHB-MA	1300 WPNH-NH	WLTN-NH	WFAD-VT	100.1 WQVR-MA
580 WTAG-MA	WQDY-ME	1320 WDER-NH	WTSI-NH	WIKE-VT	WHOU-ME
700 WCAT-MA	WHOU-NH	1340 WGAW-MA	1440 WHER-ME		WPNH-NH
850 WBDH-MA	WERI-RI	1450 WCEA-MA	1450 WQDY-ME	92.7 WQDY-ME	101.7 WCNL-NH
910 WABI-ME	WJOY-VT	WOME-ME	WKRQ-RI	102.3 WQXO-ME	102.3 WKXL-NH
920 WHJJ-RI	1240 WHAJ-MA	WHOU-ME	WTSA-VT	93.5 WNCN-ME	103.1 WOME-ME
950 WKZX-ME	WSYY-ME	WSTJ-VT	1470 WSRO-MA	WCFR-VT	103.7 WXLQ-NH
960 WFGL-MA	WMOH-RI	1350 WINY-CT	1480 WCFR-VT	94.3 WBYC-ME	WERI-RI
980 WCAP-MA	1250 WARE-MA	1370 WDEA-ME	1490 WMRC-MA	95.9 WUPE-MA	
1010 WCNL-NH	1270 WTSN-NH	1380 WKTJ-ME	WTVL-ME	98.3 WHAI-MA	
1080 WTIC-CT	1280 WABK-ME	WVYB-VT		WTVL-ME	
		1390 WPLM-MA		99.1 WPLM-MA	

Minnesota Twins

570 WNAX-SD	1230 KTRF-MN	1340 KDLM-MN	1400 KHHL-MN	1480 KAUS-MN	96.5 KJKK-MN
600 KSJB-ND	1240 KDLR-ND	KIJV-SD	WHLB-MN	KGCX-ND	97.5 KPRM-MN
610 KDAL-MN	WJON-MN	KROC-MN	1410 KRWB-MN	KXRA-MN	103.1 KFIL-MN
830 WCCO-MN	1260 KROX-MN	KWLM-MN	1420 KTOE-MN	1510 KMSD-SD	105.5 KMGM-MN
920 KWAD-MN	1280 KVOX-MN	1370 KSUM-MN	1450 KBUN-MN	1580 KDDH-MN	
1150 KMKY-IA ^a	1300 KGLO-IA	1380 KLIZ-MN	KGCA-ND		
1190 KUMB-MN	1310 KNOX-ND	1390 KKOA-ND	KMWB-MN	94.3 KDDH-MN	
1230 KGHS-MN	1320 KOZY-MN	1400 KEYL-MN	WELY-MN	95.9 KILR-IA	

^aWeekend games only

WHAS radio tower crash has impact on listeners across state

"That proves God is a Cats fan," said the man on the phone who asked for anonymity by hanging up.

He called just after last night's WHAS-TV news update on the crash felt across Kentucky, the crash of the WHAS radio tower last Friday.

"There have been all sorts of UK jokes around here," WHAS radio program director Denny Nugent said this morning. WHAS lost the rights to broadcast University of Kentucky basketball games next season and many Wildcat fans had been calling the station, expressing their ire.

But it wasn't UK fans who felled the tower. It was the wind. And the 50,000-watt radio station hasn't been the same since. Usually it's on the air, but sometimes it's off the air for repairs. And even when it's on the air, it's only a shadow of its former self. You can pick it up just fine in the county but drive by the Hall of Justice at the corner of Sixth and Jefferson streets and you get more hisses and pops than quips and stock quotes.

"Downtown you are going to lose the signal between buildings," Nugent said.

Out in the state, where many people depend on WHAS for farm reports, news, weather and sports, it is even worse.

How long until the station is restored to its former self?

"It's hard to say," Nugent said. "It changes hour to hour depending on what the engineers try and what works and what doesn't."

Nugent said it looks like WHAS will have to put up a second temporary tower where the old one used to stand.

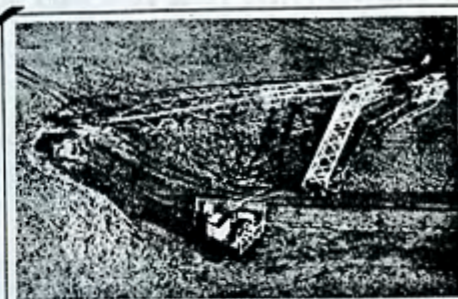
"They'll have to clear away the wreckage and that will get in the way of building the permanent tower. If we can get 50,000 watts into the second temporary tower then we won't be in as big a rush [to put up the permanent tower]."

The old tower was 875 feet high. The present temporary tower is 90 feet high. The second temporary tower would be about 280 feet.

"It would cover almost as far as the old one," said Nugent.

Nugent said he expects that construction of the second temporary will take about a week.

The WHAS tower was built in 1937. Charlie Strickland, assistant



Winds Topple WHAS Tower

Tornado-force winds on Good Friday (4-5) hammered WHAS/Louisville's 855-foot tower, knocking the 48-year-old structure 15 feet from its concrete base. Although the 50 kw clear-channel A/C outlet returned to the airwaves eight hours later, the station has been forced to operate with a mere 1500 watts at 90 feet. WHAS, usually heard in up to 40 states at night, presently is unable to cover the Louisville metro. The good news is that by next week WHAS expects to be reaching back up to 89% of its coverage area, and a new tower will be completed by late June. Total losses in damages and lost revenue have been estimated at \$1 million.

director of engineering for WHAS Inc., said that normally a tower is designed to withstand 100-mph winds. He said the tower had been maintained properly.

A spokeswoman for the National Weather Service said wind velocity Friday afternoon topped out at 48 mph at Standiford Field, but it could have been higher in other areas of the county.

WHAS is part of the Emergency Broadcast System, a three-level civil defense network designed to provide local, state and national information in the event of weather, defense or other emergencies. WHAS is the station designated to

provide this information to what is called the Louisville operational area, which extends about 100 miles in all directions.

Strickland said that most other broadcast stations in the area that had been monitoring WHAS have now switched to WAMZ-FM, WHAS's sister station, and tower. Nugent said, "It is their duty to know what's going on. We don't have an obligation to inform these stations."

How much will the station lose financially because of the tower crash? Nugent said insurance should cover everything, including some lost advertising revenues.

"They cover clearing away the old tower, construction of a temporary tower, construction of the permanent tower. They cover all overtime, even the promotional cost of buying newspaper ads, plus

loss of any business. If, my, there is a one-day-only sale and we lost commercials that we can't make good, they cover that."

What insurance can't cover is loss of audience.

WHAS, along with all the other stations in town, is in a ratings period, meaning the ratings service is recording the habits of local listeners. Those habits will go into a ratings book and the stations will use that information to sell advertising.

Yesterday, when WHAS management knew the station would be off the air in the afternoon for repairs, a giveaway was devised to keep listeners tuned in. The station announced in advance that \$500 would be given to the 84th caller after the station returned to the air. Sure enough, when the station signed back on at 5:55 p.m., the phone calls began. Apparently some listeners stayed tuned to the void.

Nugent said there will be at least one more sign-off, when the station switches to its second temporary tower. "I hope it will be during the middle of the night," he said.

He said the transmitter problem won't affect WHAS's Kentucky Derby coverage. "We should be back to full power in time for the Derby. Regardless, it won't affect our coverage, only who can hear it."

This article was inspired from a muse by Dennis Kibbe IRCA DX Monitor (Vol 21, #18). He mentioned a local surplus outfit* had mechanical filters for a good price. I had purchased some of these filters and decided to finally test them.

The first filter is a Rockwell Industries (Collins) # 526 9892 020. The numbers available may vary. It is an upper sideband filter rated at 3.2KHz wide at -6dB. It sells for \$15.99.

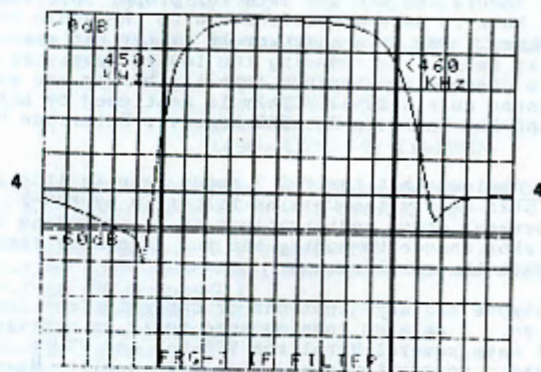
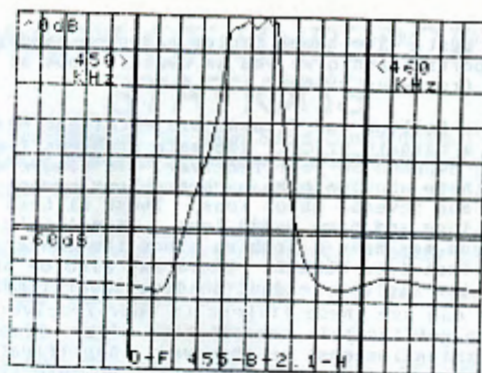
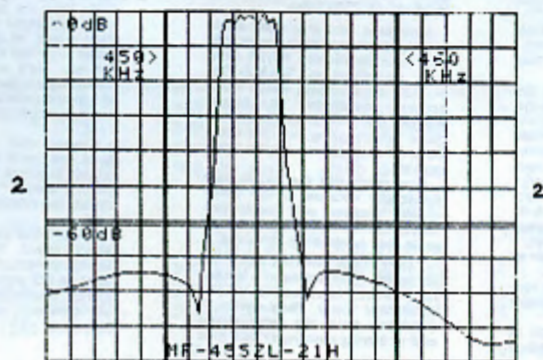
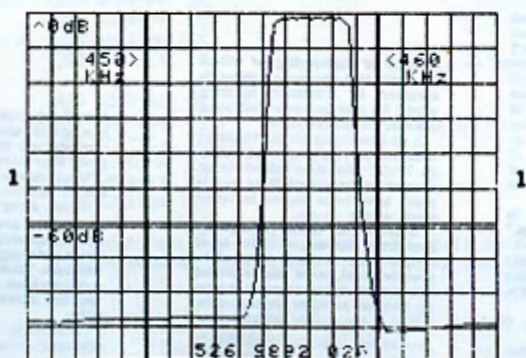
The next filter is a Kokusai #MP-455-ZL-21H. It is a lower sideband filter rated at 2.36KHz at -6dB. It sells for \$19.99.

I also check a Dittmore-Preimuth #DP455-B2.1-H. I had purchased this filter several years ago for \$72. It is a SSB filter rated at 2.1KHz at -6dB.

The above filters are a good representation of typical mechanical filters. I also had the original ceramic filter from my Yaesu PRG-7. I thought it would be a good representation of type of selectivity found in most medium priced receivers.

The test set-up consisted of a Hewlett-Packard 3325A Oscillator providing the signal source and a H-P 3386A Selective Level Voltmeter measuring the frequency response. These units were controlled by an H-P 85 computer. The frequency response was checked from 445KHz to 465 KHz. The graph is divided horizontally in 1KHz divisions. The graph is divided vertically in 10 dB steps. This gives a measurement range of 100 dB. The filters were mounted on a printed circuit board.

* MHz Electronics 2111 W. Camelback Rd. Phoenix, AZ 85015



The first graph shows the Collins filter. It's center frequency is about 457KHz. It measured 3.3KHz wide at -6dB and 4.4KHz wide at -60dB. This gives a shape factor of 1:1.33. It has a stop-band rejection of 87dB. This is an outstanding measurement.

The second graph shows the Kokusai filter. It's center frequency is 453.5KHz. It measured 2.35KHz wide at -6dB and 3.7KHz wide at -60dB. This gives a shape factor of 1:1.57. It has a stop-band rejection of 75dB.

The third graph shows the Dittmore-Preimuth filter. It's center frequency is at 455KHz. It measured 2.2KHz at -6dB and 4.6KHz at -60dB. This gives a shape factor of 1:2.09. It has a stop-band rejection of 73dB.

The fourth graph shows the original filter from my Yaesu PRG-7. It's center frequency is at 455KHz. At least I think it is. It measured 8KHz wide at -6dB and 12KHz wide at -60dB. It has an stop-band rejection of 50dB. This is a poor figure even for a ceramic filter.

RESULTS

Filter	Center (KHz)	-6dB (KHz)	-60dB (KHz)	SP	SB (dB)
Collins	457	3.3	4.4	1.33	87
Kokusai	453.5	2.35	3.7	1.57	75
D-P	455	2.2	4.6	2.09	73
PRG-7	455	8.0	12 *	1.5	50

* sort of

The measurements show that it is important to look beyond just the -6dB specification when choosing a filter. The D-P filter is the narrowest at the -6dB point but overall

is not the best. The shape factor and stop-band are just as important and give you an overall look at what you can expect from your filter

Both the Collins and Kikusai are excellent performers and are at a bargain price. The main problems I see in their usage depends on your receiver. In single conversion receivers there shouldn't be much problems except for physical size and several dB of loss. These filters are about 2.5 inches long and have 6-8dB loss. In multiple conversion receivers you may have a problem since the center frequencies are offset from 455KHZ. There may also be problems in receivers with digital readout reading several KHz off.

If you can use these filters in your receiver care must be taken to get the full benefit they offer. Proper mounting and termination must be observed. Amplification may be needed to make up for insertion loss. Be sure that you get the spec sheets and use the data for proper interfacing. You may also have to make a modification to the audio section of the receiver. Use of a narrower IF filter can make the sound very bassy. By reducing the low frequency response of the audio channel you improve intelligibility and make the speech sound more natural. This is mentioned by both Chuck Hutton and Ray Moore in The NRC Receiver Reference Manual Vol. 1.

It's obvious that the PRG-7 needs help in it's selectivity. I plan to try the Collins filter in my PRG-7. I'm making several other modifications to it including a simple one resistor change to modify the low frequency response. I'll report the results soon.

If anyone has any questions or comments feel free to contact me. I am also running some tests on ceramic filters. I have several Vernitron VTD-5-1 and VTU-3-1. I have found a source to borrow some high quality Murata filters. If anyone has a filter they would like checked out, let me know.

Marc Bergman
P.O. Box 6286
Oxnard, CA 93031
(805-486-8170)

F.C.C. Gets Advice On New AM Stations

By IRVIN MOLOTSKY

Special to The New York Times
WASHINGTON, March 24 — The Federal Communications Commission is receiving suggestions on how to allocate new radio stations that will be created as the AM band is widened at the upper end of the dial.
"It is too early to tell which way it will go," said Larry D. Eads, chief of the radio services division at the commission, noting that the new stations could be commercial, noncommercial or a mixture of both.
Whatever the decision, listeners will have to buy new radios in order to hear the new stations when they go on the air in the early 1980's, which is a pleasant prospect for manufacturers of the sets, who say they have sold more than one billion of them in the past 37 years.
The expansion of the AM band, to take in 1605 to 1705 kilocycles, or kHz, is the first major change in that spectrum since it was established more than 50 years ago.

Public Radio Stations

For a large metropolitan area like New York, it could mean two new powerful stations in the city or many more lower-powered stations in the suburban areas.
New York City would be limited to two new stations because, although stations are allotted frequencies in 10 kHz increments, 40 kHz are needed to separate each station in an area. Since there is already a New York City station at the present top of the dial, WURL, in Woodside, Queens, which is allotted 1605 kHz, new stations could be established at 1640 and 1680.
On the other hand, many more outlets could be crammed into the expanded band in the New York area if they were more widely separated, since a new Long Island station, for example, could be closer than 40 kHz to one in Rockland County because of the distance between them.
The Corporation for Public Broadcasting has urged that the F.C.C. reserve some of the new stations for public radio and for noncommercial

stations serving minority and non-English-speaking audiences.
Public radio stations generally broadcast on the FM band, but the Corporation for Public Broadcasting said there were many parts of the country without public radio because no FM channels were available.
The National Association of Broadcasters partly supports the public broadcasting proposals but adds that some of the new stations should be allotted to the operators of existing low-power commercial stations that now go off the air at sundown so that they can extend their broadcasting hours.
"Many of them would like to get the opportunity to operate at night," said Harry Umanaky of the association's legal department. "We would like them to get the first shot at the stations on the new band."
After five years, Mr. Umanaky suggested, such broadcasters would transfer the licenses of the low-powered stations to other operators.
Travel Service Suggested
A Federal agency, the National Telecommunications and Information Administration, has suggested that part of the widened band be allotted to a travel information service that would warn motorists of traffic congestion ahead.
This is already done on a limited basis near many airports, bridges and tunnels, with motorists able to receive alerts from very low-powered

Cont. Page 15

SUMMARY OF UNREPORTED STATIONS

Don Kaskey, Hotel Raphael, 386 Geary Street, San Francisco, CA 94102

Through Volume 52 #24 dated April 1, 1985

The following chart lists the total number of stations in the USA and CANADA and the volume they were last reported as being heard in DX NEWS.

COUNTRY	V52	V51	V50	V49	V48	V47	V46	V45	V44	V43	V42	Prior	Total
CANADA	216	73	55	22	9	8	6	3	1	2	0	24	= 419
U.S.A.	2245	1096	520	270	179	105	57	40	22	25	16	171	= 4746
TOTAL	2461	1169	575	292	188	113	63	43	23	27	16	195	= 5165

New stations reported as having taken the air during the period between V52 #21 through V52 #24:

- 830--WLND--OH
- 840--KWPB--NE
- 1140--KGSY--AK
- 1490--KGHO--WA (x-1560)

Previously unreported stations noted by NRC reporters in DX NEWS since the last update (V52 #23).....Covers V52 #21 through #24:

- AL--6--WURL--760 & WKIJ--1130 (Francis-TN)
- AZ--4--KDAN--1180 (Carpenter-CA); KBAS--1490 (Kaskey-CA)
- CO--5--KLLV--1560 (Hilliker-CA)
- ID--5--KTOX--730 (Hilliker-CA)
- MI--8--WMTB--1340 (Paszkiwicz-WI)
- NE--3--KWPB--840 (Moser-ND)
- OH--0--WLND--830 (Starr-OH)
- VA--1--WMVA--1450 (Braun-VA)

OFF THE AIR STATIONS: Now Silent: 630-KGGR-WA, 850-KLEU-IA, 1170-CFML-ON, 1300-KGHX-AK, 1370-WGNW-WI.....Back On the Air: 600-WFST-ME, 900-WTOP-OH, 1150-KDEF-NH, 1450-WELY-MN, 1490-WTIQ-MI.....Thanks to Doug Beard, Andy Rugg & others for up to date information.

New York clear channel daytimer loses appeal

From Page 14

transmitters that can be heard in narrow areas.
The portion of the dial to be taken over by the new stations is a largely underused segment that radio stations now use for nonbroadcast purposes. One such use is the transmitting of a news report from a remote unit to the home base for rebroadcasting on the station's assigned frequency.
Despite obstacles that have been written about radio since the advent of television 40 years ago, it has remained extremely popular. According to the Electronic Industries Association, 52 million radios were sold in the United States in 1983, the last year for which statistics are available.
The Radio Advertising Bureau says that 90 percent of American households have at least one radio and that the average number is 8.5 sets per household. "Some people thought that television would water out radio," said Alan Schlosser, a vice president at the electronics association, "but it is alive and well."
According to Broadcast magazine, there were 4,885 AM and 4,505 FM stations on the air in 1983, and the broadcast AM spectrum will add several hundred more.

Supreme Court rules that WNYCIAM must stop nighttime broadcasts on 830 kHz, same as WCCO(AM) Minneapolis; WNYC to seek frequency change
WNYCIAM, the New York City-owned station, has lost its last bid to continue operating at night on 830 kHz, a right it has had since 1943, despite the interference of its signal with that of WCCO(AM) Minneapolis. The Supreme Court last week denied the city's request for review of a lower court opinion affirming the FCC's decision to end WNYC's current nighttime operation (BROADCASTING, Oct. 1, 1984). But the station, proud of the programming it offers, is not giving up its fight to continue offering it at night, if on a different frequency.
The commission had granted the special permission to WNYC to broadcast between the hours of 6 p.m. and 10 p.m. during World War II because the station was thought to provide "needed wartime service." WNYC, a class II station on the air since 1923, is technically authorized to operate with 1 kw on the clear channel station, on which WCCO is the dominant station, from sunrise in New York until sunset in Minneapolis.
WCCO's effort to restore WNYC to its pre-war operating hours began in 1954, when New York asked the commission to regularize the temporary authority it had been given. WCCO contended that listeners in parts of

Michigan, New York, Pennsylvania, Ohio, West Virginia, Kentucky, Tennessee and Mississippi were being denied the nighttime service it was providing. And, finally, in 1982, the commission accepted WCCO's position, and ordered WNYC to end its nighttime broadcasting.
An initial hearing on the request resulted in an administrative law judge's initial decision recommending a grant. But commission consideration of the case was deferred pending completion of the clear-channel proceeding which the commission had initiated in 1945 to answer the question of whether the 25 clear channels should be broken down. That proceeding ended in 1961, with the decision to add full-time stations to 13 of the frequencies. WCCO was not affected, and in 1980, following a second proceeding, the commission authorized existing dominant Class I-A stations, including WCCO, to operate omnidirectionally with 50 kw.
But the commission was not ignoring New York and its ambitions for WNYC. In the 1961 clear channel decision, the commission noted that 830 kHz "should be given special attention" because of the pending hearing that involved the additional use of the frequency. And in disposing of petitions for reconsideration of that decision, the commission appeared to invite WNYC to apply for authority to operate with up to 50 kw if it chose a different directional pattern and a different transmitter site. The commission said those changes might make it possible for WNYC to afford WCCO at least as much protection as it was then providing with power of only 1 kw.
Cont. Page 16

PRESS RELEASE

TO: Shortwave/DX Editors, Advertisers, etc.
 FR: Jeff White, General Manager
 RE: Current status of Radio Earth
 DT: April 10, 1985

At the end of March, 1985, Radio Earth discontinued its broadcasts via Radio Clarin in Santo Domingo. Ever since our return to Clarin in September of 1984, we had been plagued by poor propagation and increasing interference on Clarin's frequency of 11,700 kHz. There was interference in the morning from Radio Moscow and in the afternoon from Vatican Radio, followed by Radio Baghdad. Then came an Iraqi jammer to counter Baghdad's signal. According to Dominican regulations, Radio Clarin is unable to change its frequency, which gradually became more and more useless throughout the six-month period we used it.

As of this date, Radio Earth is negotiating with various stations in an effort to find a new facility as quickly as possible. We had hoped to begin broadcasting via a new facility on April 1, but we had not located a station with sufficient power that was willing to make time available to us as of that date. We have had some progress during the last few days, and we hope to be able to announce our new time and frequency very soon now.

In the meantime, we have begun our final plans for our own transmission facility, which will provide us with a reliable transmitter site and eliminate many of the problems we have faced in the past. We expect this facility will be operating by late 1985 or early 1986, and will consist of a 50,000-watt shortwave transmitter and directional antennas for North America and Latin America. The exact site has not yet been determined, but we expect to choose it within the next few weeks. Our choice has been narrowed down to four locations in Florida and the Caribbean. Any of these would provide us with a strategic location for transmissions to both North America and Latin America.

At the request of many of our listeners, Radio Earth plans to make stock in the new transmission facility available to the shortwave listening community. Thus Radio Earth will become a "listener-owned" shortwave station. There are many legal details that must be attended to before stock can actually be sold. We hope to have all of these taken care of in time to officially announce the details at the opening reception of the 1985 ANARC (Association of North American Radio Clubs) Convention in Milwaukee, Wisconsin, July 19th. Radio Earth, along with Miller Publishing, will be sponsoring this wine and cheese reception, to which all shortwave listeners are invited. As for the stock offering, we plan to raise somewhere around \$750,000 dollars. The new Radio Earth facility will be used to transmit our daily one-hour program, "The World." Time will also be made available to overseas shortwave stations which would like to relay their transmissions to North America.

This is the present status of Radio Earth. We will keep you informed as new developments occur. We would like to thank all of our advertisers (and listeners) who stuck with us through our various moves, and we promise that we are doing everything possible to ensure that we can serve them better in the not-too-distant future.

1724 SHERMAN AVENUE
 EVANSTON, ILLINOIS 60201 USA
 TELEX 703572 RADIOEARTH UD
 TELEPHONE (312) 492-9300

FROM PAGE 15
 WNYC responded in 1964 with a request for the higher power and the changed facilities. Fourteen years later, after 20 rehearing and 69 hearing sessions, the record was finally closed, on Aug. 24, 1977. And two years later, the administrative law judge issued the second initial decision in the case. Like the first, it favored WNYC. It said the public interest "requires the granting of the 50 kw proposal," which, it added, encompassed the request for permanent authority for the temporary authority to operate at night with 1 kw.

The commission reversed that decision. It said the programming WNYC was providing—meritorious as it was—was not unique.

WNYC had cited the quality of its programming—its public affairs, instructional children's programming, and drama and music—as the principal argument for remaining on the air at night. The commission spoke highly of the station's programming but said

there were a number of other stations in the New York area, including WNYC's FM affiliate, providing nighttime service. It also said the station had not established that its programming "is required to satisfy the special needs of its service area, which would justify its interference to clear channel WCCO." And the U.S. Court of Appeals in Washington, in affirming the commission, said the agency had "rationally weighed the competing policies."

The Supreme Court's action letting that decision stand was described by WNYC's director, Mary Perot Nichols, as "unfortunate... for both WNYC and the millions of New Yorkers who will lose hundreds of hours of unique quality programming." But she said the story is not yet over. She said the station's attorneys are pursuing "other options, including an application pending at the FCC for a change in frequency from 830 kHz to 820 kHz." WNYC is seeking to operate with 50 kw day and 5 kw night on the unlimited-

time frequency.

But it is unlikely to get it without another, possibly lengthy, fight. Seven other applicants have proposed operations on 820 kHz or adjoining frequencies in cities scattered between Massachusetts and Texas. A comparative hearing to sort out and resolve the conflicting applications is scheduled to start in July.

Nichols, in her statement, said there will be no change in the station's programming in the three months before the court orders become effective. But the station will begin signing off at 8:30 p.m. in the fall. "But if none of our legal remedies are successful," Nichols said, "our allowable hours on the air would decrease over the winter months to the point where in December we would lose about one-third of our program schedule." □

VIA BROADCASTING MAG.

Russ Edmunds, 753 Valley Road, Blue Bell, PA 19422
 Items for sale, trade, wanted, etc.

Hello again, and welcome to another edition of DXCHANGE. The deadline for the next issue will appear someplace here or on the cover as Mike sees fit....

FOR SALE - RECEIVERS

DRAKE SFR-4, w/ manual, xtal cal., all BCB, SW & ham xtals plus tropical bands and CB. Exc. ex. \$230 incl. UPS. (Albert Earnhardt, 1 Curtiswood Ave., Sumter, SC 29150; 803-775-7960 eves.)

REALISTIC TRF 12-655, exc. ex, \$25 incl. UPS. (Earnhardt)

GE SUPERRADIO, orig. model. Exc. ex, w/ svce. manual & tape output jack. \$35 incl. UPS (Earnhardt).

HAMMARLUND HQ-180A; vly late production, in mint ex w/ matching spkr and separate QF-1 (Heath) Q-Multiplier which further enhances BCB performance. \$315 plus shipping. (Dick Truax, 3003 Gleeson Lane, Jeffersonton, KY 40299; 502-491-2871)

HAMMARLUND SP-600JX gen. cov. rx., .54 - 54 mhz continuous. Most expensive rx Hammarlund made, still an excellent performer after 25 yrs. Exc ex, in orig. cabinet, w/ manual. Heavy, but can be shipped bus or comm'l freight. \$250 plus shipping. (truax)

HAMMARLUND SP-600JX. Same as above but a rack-mount; no cabinet. Same ex. \$250 plus shipping. (Truax)

HAMMARLUND cabinet for HQ-150 or 140X. Would also fit 129X or 120. Exc. ex, \$30 or best offer plus shipping. (Truax)

HAMMARLUND HQ-180AC, late model exc. ex, retubed, aligned. \$275 pickup, \$295 UPS. (Dallas Lankford, 903 Sherwood Dr., Ruston, LA 71270; 318-255-6550)

YAESU FRG-7000 w/ all Radio West mods; make offer. (G. A. Nitsche, Jr., Providence Farm, Monroeville, NJ 08343)

ICOM R-70; w/ Radio West 4kHz ceramic filter mod. Exc. ex, a steal at \$400 prepaid UPS. (Paul Stephan, 15 Manor Rd., Old Greenwich, CT 06870; 203-637-7789)

FOR SALE - ANTENNAS

RADIO WEST LOOP - w/ improved plexiglass base. \$75, or if sold w/ R-70 above total \$450. (Stephan)

SPACE MAGNET SM-2 ferrite loop, 9v. battery opn., works well. \$60 UPS prepaid. (Rick Krzemien, 814 Minnesota Cir., Carol Stream, IL 60188; 312-653-3057 after 4pm CST)

FOR SALE - ACCESSORIES / PARTS

PANORAMIC Panadaptor model PR-1, mint shape w/ partial manual. Factory wired for 455 kHz IF. Will do the same thing as the Heath SB-620. Works great. \$90 plus shipping (Truax)

EICO VTVM mod. 232 w/ probe and manual. \$10 plus shipping (Truax)

PAOLMAR longwave converter, converts LW 10-500 kHz to any rx capable of tuning 4.0 - 4.5 mhz. In new shape w/ instr. sheet. An inexpensive but very effective way to DX LW. \$55 plus shipping. (Truax)

COLLINS MECHANICAL Filter, part #526-9700-030, 9-disc wire-coupled indirect attached ferrite transducer, 256 kHz carrier, LSB, 4 kHz BW, 5000 ohms source & load resistance; typical parameters: -6db @ 251.8 and 255.7; -60 db @ 250.9 & 255.9 -90db at 249.7 & 256.0; ripple less than 1 db, rejection greater than 100 db; copies of Collins data sheets and test circuits supplied, each filter checked and unused. \$20 ea. incl. UPS shipping. (Lankford) (** Wnew! - ed)

FOR SALE - PUBLICATIONS

WRTVH; 1972 & 1960 eds. latter contains supplement. Good ex, not marked. (P. E. Skinner, 166 Pine St./ Dover, MA 02030)

BROADCASTING YEARBOOK, 1984; Mint ex. Best offer (Skinner)

RADEX issues. Have some extras which I am willing to trade for EKKO stamps. Terms to be negotiated. (W. T. Farmerie, 62 Sunrise Ave., Grafton, MA 01519)

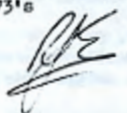
WANTED - EQUIPMENT

PHASING UNIT for two, three, or more beverage antennas, or commission competent constructor. (Richard E. Wood, P.O. Box 5074, Hilo, HI 96720; 818-866-7091, not collect, please.)

FOR SALE - TUBES

6BE6, 6AL5, 6BJ6, 12AT7, 12BE6, 12AV6, 50C5, 6HG5/6AQ5A \$9.00; 2) 6BE6 @ 17.00; 5Y3GT, 484C - \$18.00. All for \$110. (Eric Bueneman, 836 Lamplight Lane, Hazelwood MO 63042) ** or trade for DX-160 or HQ-129X; incl. .55 postage & handling for one tube; \$1 for all.

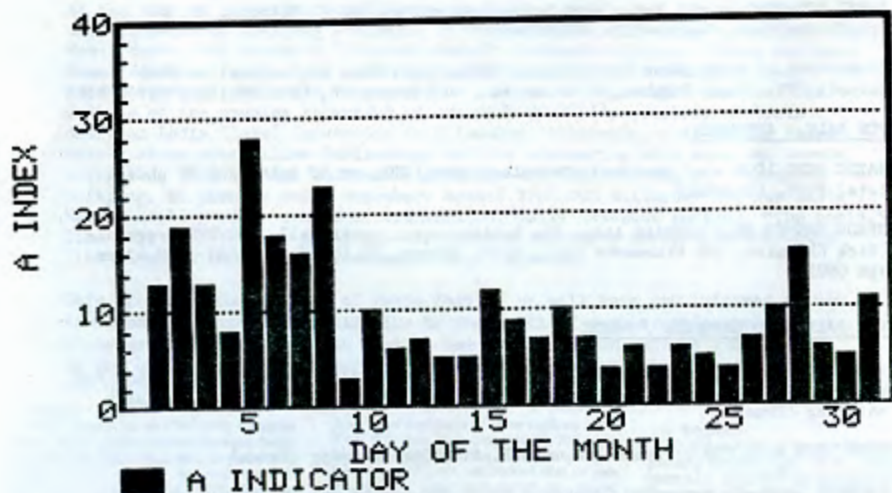
Well, I guess that wraps up another one. I'm still looking for back issues of DXN; preferably mimeo issues (pre-1969). Just remember to keep all those cards and letters coming, all you folks out there in the television land!!! (With apologies to Lawrence Welk and Stan Freberg, hi. 73's



AfR GRAPH

Russ Edmunds, 753 Valley Road, Blue Bell, PA 19422

AFR GRAPH/MARCH 1985



This graph shows the daily variations in AfR, the Fredericksburg (VA) index of geomagnetic activity in the earth's magnetic field. High values (above 20) indicate that medium wave signals in upper latitude paths will likely be absorbed, thus resulting in "auroral conditions", with signals from the South and from local stations predominating due to this absorption of the more northerly signals. Low values over a period of time indicate a likelihood of more receptions of the higher-latitude paths --- more, and more northerly TA's and TP's. Several days of low values following higher ones are needed for conditions to return to "normal", due to residual absorption. Long periods of extremely low values (6 or less) are necessary to raise the possibility of good high-latitude conditions throughout the entire MW band, although this is not the only requirement. For additional information on the use of the AfR and related indices as a DX tool, consult the NRC Reprints List for relevant articles. (The Reprint List can be obtained from the NRC Publication Center, whose address is located on the back cover). ---RJE

STATION PROFILE

Tony Fitzherbert, 356 Jackman Avenue, Fairfield, CT 06430

Radio KEEN 1370

Post Office Box 6616 / San Jose, California 95150 • (408) 370-1370

When the computer industry parking lots in Silicon Valley empty at the end of the business day, no doubt country music fans rollout into the traffic flow with their radios tuned to San Jose's radio station KEEN, to accompany them on the homebound trip. And, it is a safe assumption that KEEN accompanies throngs of auto commuters on their drives across the Golden Gate and Oakland Bay bridges - as its 5000 watt signal blankets the entire Bay Area with country music.

KEEN Radio, broadcasting country music since 1950, is the result of ambitions by two young NBC executives who found themselves assigned to the San Francisco office. George Snell and Floyd Farr projected that San Jose would in the years ahead grow from a satellite of San Francisco to a metropolis unto its own right. In 1945, San Jose had but one radio station, KQW, and the two believed that a locally-oriented radio station would be a financial success. Thus, they secured the financial backing of George Mardikian, who hosted a popular NBC show, "Dinner at Omars". In early 1946, the three formed the United Broadcasting Company, and applied to the FCC for permission to operate a station at 1370 KH. After the license was granted, Radio Station KEEN went on the air on June 21, 1947, at 8:00PM. The festive opening, featuring three live bands, soloists, the San Jose Municipal Band, brief remarks by California Lieutenant Governor Goodwin J. Knight, and the San Jose mayor, attracted over 500 people to the inauguration of the studios, in the Hotel De Anza. U.S. Highway 101 outside the hotel was closed to allow dancing in the street.

The Hotel De Anza was the location of KEEN's studios for over 27 years. In 1974, the station moved to the top floor of the Golden Pacific Building, on South Winchester Boulevard, in San Jose.

Like most stations in the 1940's and early 1950's, KEEN broadcast an array of popular music, news, sports, and public affairs programs. However, as TV in its infancy symbolized a threat to the entire radio industry, KEEN's management adopted a country music format, featuring personalities by the name of Cottonseed Clark, Cactus Jack, Foy Willing, and Red Murrel. The format caught on, and, today, KEEN is a country music success, appearing in both the San Francisco and San Jose Arbitrons. KEEN was one of the first stations in the United States to go to an all-country format.

KEEN offers 24 hour country and western music using Harris AM Stereo. The music is supplemented by half hourly local news broadcasts during drive times, and hourly news at other times from UPI. The station uses no automation - the emphasis is on the personalities of its five DJ's. An area NRC'er notes that the jocks sound "great". KEEN offers traffic reports, weather ski reports - for the Santa Clara Valley residents willing to drive inland for hours to the slopes. For 20 years, KEEN has aired the Indy 500 from Indianapolis. Other weekly broadcasts are the American Country Countdown and "Jeff's Donut Club", where KEEN's morning group visits the offices of a contest winner to share coffee, donuts, and interviews - much to the delight of the winner's co-workers, and to the concern of the boss!

About two years ago, KEEN moved to a new studio location at 399 North 3rd Street, Campbell. The station uses separate patterns for day and night operation, covering all of the San Francisco - Oakland - San Jose areas. The transmitter site is located in San Jose, where the station's Harris MW-5B transmitter feeds three towers. Backup is supplied by the station's older RCA BTA-5H transmitter. Two of the towers are taller than the third, which is offset. The day pattern is pushed to the northwest, and the night signal is more westerly, but blankets much of the area from Los Gatos to well up in Marin County. Licensed to the 14th largest City in the United States populationwise (1,300,000 population), the KEEN market is one of the fastest growing in the country. Over 4,500,000 people live in the KEEN listening area.

The United Broadcasting Company also owns KBAY, 100.3 FM, which went on the air on March 4, 1963 as KEEN-FM, and which covers the Bay Area with easy listening and nostalgia from 1920 through 1960. KBAY, one of the most powerful stations in the area, broadcasts from Loma Prieta Peak, 4000 feet above sea level. The Golden Pacific Group also owns, along with its United Broadcasting holdings, KCVR - KWIN which are in the Stockton - Lodi area, northeast of Oakland.

The editor wishes to thank Al Tobias, of Newark, CA, for his help in supplying the information for the KEEN profile. Thanks are also due to the KEEN engineering department for supplying assistance to Al in his information gathering process.



KEEN COVERAGE — MORE THAN 4.5 MILLION POPULATION

FCC Wants Station Fee

Washington DC ... Broadcasters would have to pay a series of fees to the FCC to cover the "cost of regulation," if a recent FCC proposal is accepted.

According to the proposal, the Commission would charge commercial broadcasters an annual fee: Class B and C FMs and AMs greater than 5 kW would pay \$1250; Class A FMs and AMs between 1 and 5 kW would pay \$600; AMs of less than 1 kW would pay \$200.

Radio broadcasters seeking a major change construction permit also would

pay a \$375 application fee and a \$6000 hearing charge.

The FCC said the fees, which would also affect private radio services, common carrier services, satellite services and equipment approval services, could generate \$50 million annually.

In March, FCC Chairman Mark Fowler presented the proposal to a House Appropriations Subcommittee. Last year, the Office of Management and Budget recommended that the Commission institute a schedule of fees.

Mark Connelly -- WALION DX Labs -- 22 MAR 1985

My recent article, "DX Lab. Test of the Mitchell Lee Loop Amplifier" (dated 25 FEB 1985) described tests done on an amplifier circuit first described in the LWCA "Lowdown" of May 1984.

The WALION DX Labs version of this amplifier, dubbed FE-C, has its schematic & layout drawings in the 25 FEB 1985 article. A big advantage of the circuit is good dynamic range (freedom from overloading-generated-"spurs"). Further testing has indicated that the low-impedance (hereafter low-Z) input used in conjunction with a series inductance-capacitance (hereafter LC) tank has inherently better Q (selectivity) than that of a high-Z input of an FET amplifier (e. g. FE-A card) used with the same L & C in a parallel configuration. Results demonstrate that the FE-C is very useful for urban DXing.

A disadvantage of the FE-C is that the gain is lower than that achievable with high-Z input FET amplifiers. Recent experimentation has shown that broadband-amplification of the output can more than make up for the gain difference. The dynamic range AND gain of the FE-C followed by the BBA-B broadband amplifier is usually better than that of the FE-A FET-input front-end card. (For FE-A schematic, see Article 1 of "RT-1 Remotely-Controlled Tuner" and for BBA-B schematic, see the "Mini-MWDX3 Phasing Unit" article.)

To minimize the possibility of overloading of the BBA-B broadband amplifier, a level pot should be placed between the FE-C RF-Out port and the BBA-B RF-In port.

Tests were done with two different tank-circuit implementations. The nature of these implementations and the pro's & con's of each are discussed later in this article.

Figure 1 shows the overall form of the tuner design using FE-C. RF from an antenna or another external (untuned or tuned) source is routed in through a DC-blocking capacitor to the arm of one section of a 3 or 4 pole/ 4-position rotary switch (the Mode / Length switch). The OFF/BYPASS position of this switch routes the tuner's RF input directly to the tuner's output. Another section of this switch disconnects battery power from the FE-C and BBA-B cards when in the OFF/BYPASS position.

The other three positions of the Mode / Length switch apply power to the two amp. cards, route the BBA-B output to the tuner's RF-Out jack, and route the RF input to the appropriate tank node. There are three tank-input nodes: one is intended for short aerials (such as a whip), another is intended for "normal" length aerials (e. g. between 33'/18 m. and 200'/60 m. at 1 MHz), and the third is for longer aerials such as Beverages. The low-Z output node of the tank goes to the input of the FE-C front-end.

The FE-C's output goes to the "top" (= CCW pin) of the 1K audio-taper Level Pot. The Level Pot's "bottom" (= CW pin) goes to the pot's built-in switch. This switch disconnects the pot's "bottom" from ground at the maximum-level (CCW) setting.

The arm of the Level Pot goes to the broadband amplifier card input. The BBA-B provides about 20 dB of gain. If overloading occurs (this is only really likely at urban sites), adjustment of the Level Pot can cure the problem.

/* OVERLOADING OF THE INPUT STAGE (FE-C) IS VERY UNCOMMON. */

If input-stage overloading does occur when using a wire antenna and when the Mode / Length switch is on SHORT or NORMAL, setting the Mode / Length switch to LONG will generally eliminate the spurious responses.

TANK IMPLEMENTATIONS

/* Implementation 1 */
Refer to Figure 2.

The high-Z tank node is at the stator of the tuning capacitor. This point coincides with the SH (short-length) tank-input node. The NM (normal-length) tank-input node is coupled to the high-Z node through 39 pF; the LG (long-length) tank-input node is coupled to the high-Z node through 18 pF.

The Q-switch selects high or low tank-circuit Q (selectivity). Low Q (using the 15K Q-spoiling resistor) is utilised ONLY IF THE TUNER IS BEING USED AS AN INPUT TUNER IN A PHASING SYSTEM. The Low-Q position causes considerable degradation of overall tuner gain.

The heart of any tank-circuit is the inductor / capacitor combination. This tank uses a series L-C configuration. The Freq. Range switch selects one of 11 internal moulded inductors or an external coil. The external coil can be a (ferrite or air-core) loophead intended to pick up signals on its own or it can be a non-signal-catching inductor used to provide wire-tuner operation on bands not covered by the internal inductors. The 11 internal inductors allow the tuning & amplification of signals from a wire or other external source over an approximate frequency range of 150 to 7500 kHz. The "APT-3 Regenerative Tuner" article (IRCA / NRC reprint) has a table giving approximate frequency ranges that can be expected with each inductor (as the APT-3 uses a similar Freq. Range switch).

The low-Z tank-output node is at the side of each inductor which does not go (via switch) to the tank's high-Z node.

Advantages of Tank Implementation 1

- * Tuning capacitor has a grounded side. This simplifies mechanical design considerably. No hand capacitance occurs when the tuner is assembled in a metal box. (Rotor node is bolted to chassis box.)
- * Inductive-division is not necessary: This permits the use of a 1-pole / 12-position rotary switch as the Freq. Range switch. As a result, 11 ranges (plus the external coil) may be accommodated. Frequency coverage with this scheme includes longwave, medium wave, and tropical bands.

Disadvantages of Tank Implementation 1

- * Coupling via the LG (long) tank-input node is very loose and is, therefore, inefficient (lossy). Those using wires much longer than $(75 / F \text{ (MHz)})$ ft. will realise considerably more tuner gain if they use Tank Implementation 2 (to follow) when the Mode / Length switch is set to LONG.

/* Implementation 2 */
Refer to Figure 3.

An important difference from Implementation 1 is that, rather than using fairly loose capacitive coupling to the high-Z tank node, Implementation 2 utilises a tighter coupling method for normal and long antennae.

Implementation 2 connects the rotor of the tuning capacitor to a low-Z NM & LG node tank-input (rather than directly to ground) when the Mode / Length switch is set to NORMAL or to LONG. An added (fourth) section of the Mode / Length switch is employed to set up a SHORT length condition of the Implementation 1 type, a NORMAL condition using a capacitive-divider approach, and a LONG length condition using an inductive-divider approach.

The NORMAL condition shunts the antenna with 560 pF to compensate for a variety of antenna capacitances above 75 pF (the maximum suggested "SHORT" input capacitance). The LONG condition uses a L-divider with a ratio of approximately "Lmain" = 6 * "Ltap" to allow a medium degree of coupling of input sources having low to medium inductance or resistance. Resistive input loading is used if the Mode / Length switch is on LONG and if the External Coil is selected by the Freq. Range switch.

Q-spoiling (when needed for phasing applications) is accomplished by the same method used in Implementation 1.

In Implementation 2, neither side of the tuning capacitor is "hard-grounded". The rotor of an air-variable capacitor has a larger surface area than the stator; therefore, its inherent capacitance to ground is higher. For this reason, the rotor is connected to the lower impedance circuit point.

Five positions of the Freq. Range switch are used to select internal pairs of inductors. The values shown cover medium wave (450 to 2000 kHz). Longwave (140 to 640 kHz) coverage may be obtained by multiplying all inductor values by 10. Tropical-bands (1400 to 6400 kHz) coverage may be obtained by dividing the inductor values by 10. All inductors shown have standard industry values for miniature moulded inductors manufactured by Mouser, Dale, Delevan, Mytronics, JW Miller, Caddell-Burns, Coilcraft, and numerous other vendors.

Advantage of Tank Implementation 2

- * Better performance (more efficient coupling) of aeriels of medium to long length and of low-Z input sources. This is decidedly the better tank-circuit implementation for those using Beverages.

Disadvantages of Tank Implementation 2

- * Tuning capacitor must "float" (= neither side is permanently grounded). This increases the difficulty of assembling the tuner and it increases the size of the chassis box to be used.
- * Greater susceptibility to input-stage overloading at urban sites.
- * A double-wafer (4-pole / 4-position) switch must be used for the Mode / Length switch.
- * Only 5 frequency ranges plus the external coil may be accommodated with a normal-size single-wafer rotary switch. A double-wafer (2-pole / 12-position) and 22 (rather than 11) inductors would be required to obtain the same frequency coverage as that of Implementation 1.

CONCLUSION

The Mitchell Lee amplifier, adapted & modified to be the PE-C card, is a very useful front-end design because of its high dynamic range and lack of inherent Q-spoiling. When followed by a level pot and the BBA-B Broadband Amplifier card, a tuner of considerable merit results.

Numerous tank-circuit implementations may be used -- two have been presented in this article. The tank design should be optimised for the DXer's specific needs. Tank design is largely governed by the most-frequently-used type of input (e. g. shortwire, longwire, output of another tuner, etc.) and by the operating frequency range desired.

-end-

(Figures 1, 2, & 3 to follow)

24 FIGURE 1 GENERAL FORM OF TUNER

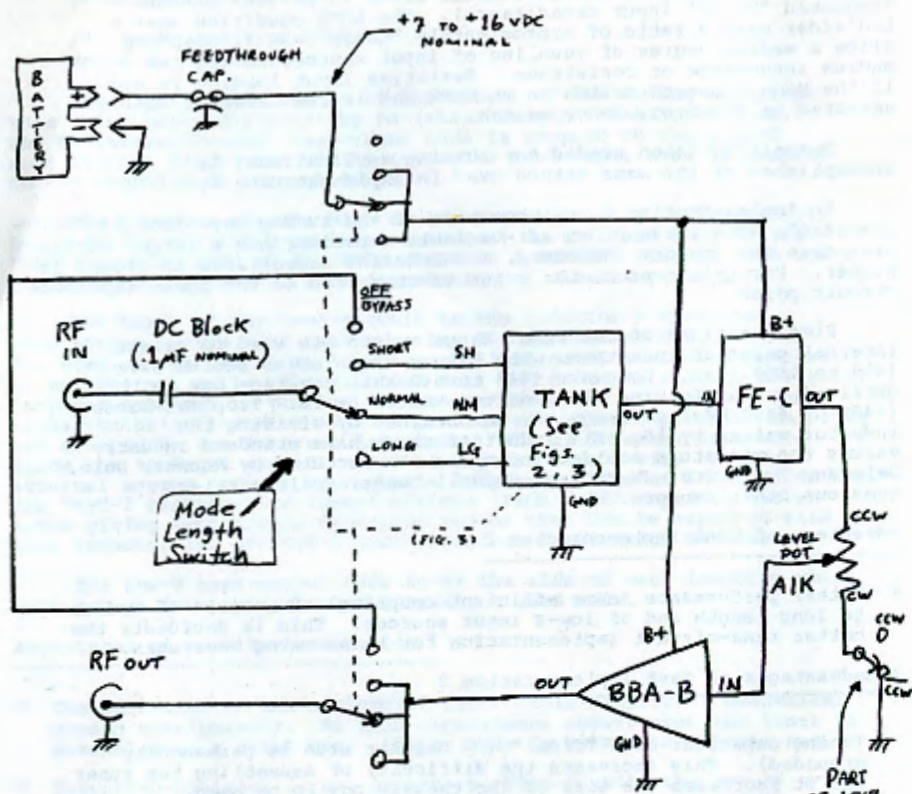
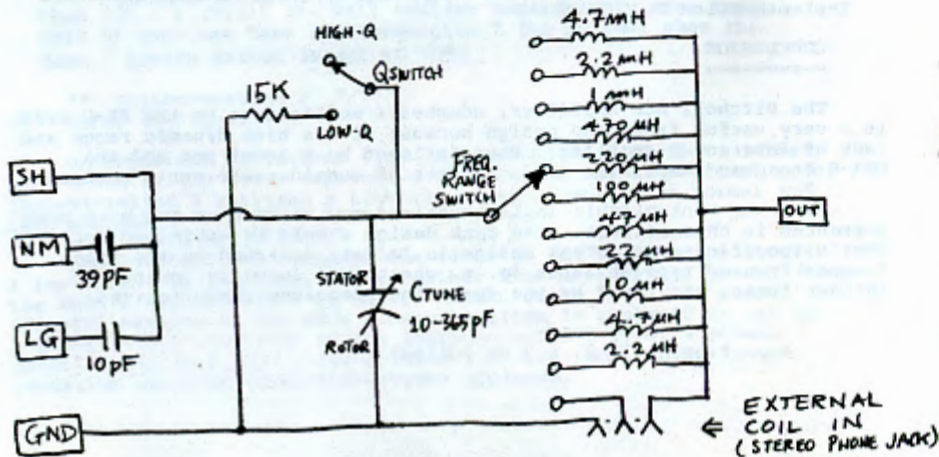
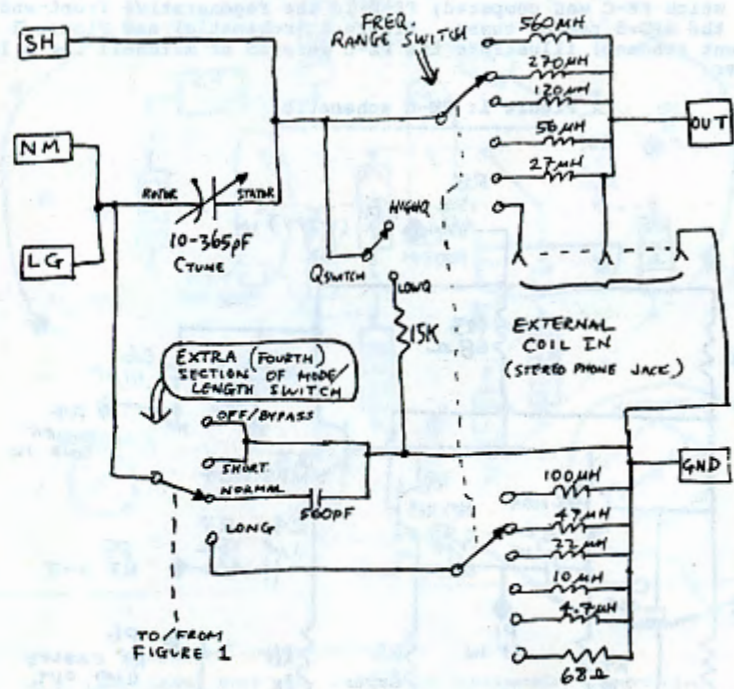


FIGURE 2 TANK: "IMPLEMENTATION 1"



25 FIGURE 3 TANK: "IMPLEMENTATION 2"



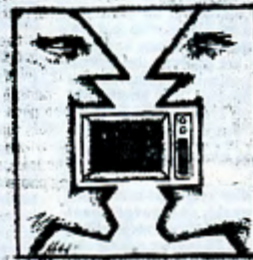
Promises FCC involvement in broadcasting takeovers

By JAMES H. QUELLO

One of the more fascinating topics in broadcasting industry circles these days is the possibility of hostile takeovers of broadcasting properties.

Such takeovers were generally considered virtually impossible a few years ago, because any change in control of a broadcasting station must be formally sanctioned by the Federal Communications Commission. It was thought that an incumbent licensee could delay any hostile suit by long commission proceedings so as to effectively thwart a takeover.

Interest in the subject has been heightened considerably in recent weeks as a result of inquiries at the FCC about the formal transfer-of-control process. Commission records have indicated that our industry process would not be used as a "shield" to protect incumbent licensees against hostile takeover attempts. This view has given rise to



much speculation about possible takeover targets.

At the risk of tipping the balance too far in the other direction, I would like to point out that the commission must be involved directly in any such attempt.

The FCC derives its authority and its guidance from the Communications Act of 1934, Section 310(d) of that act specifies the following:

"No construction permit or station license, or any rights thereunder, shall be transferred, assigned, or disposed of in any manner, voluntarily or involuntarily, directly or indirectly, or by transfer of control of any corporation holding such permit or license, to any

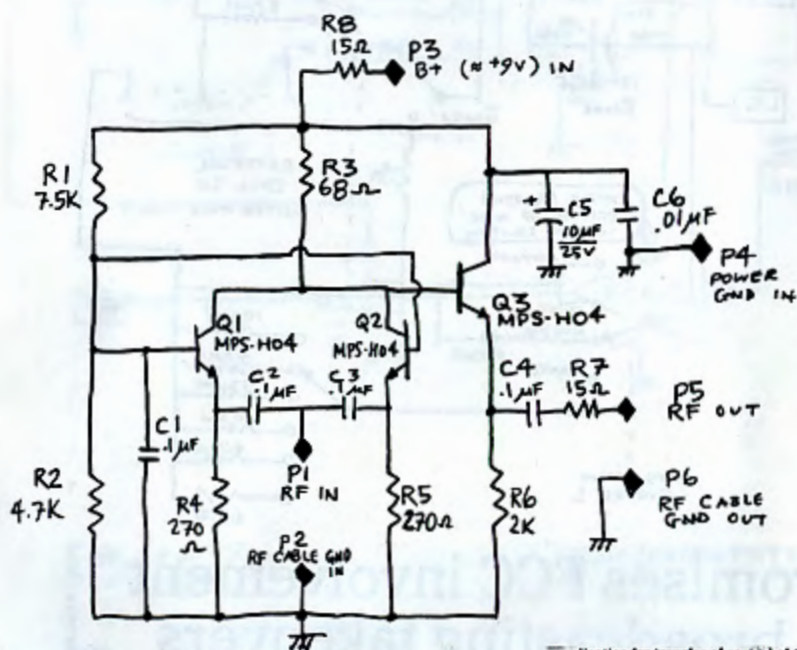
T. PAGE 26

DX Lab. Test of the Mitchell Lee Loop Amplifier
(with comparison to a high-Z FET-input front-end)

Mark Connelly -- WALION DX Labs -- 25 FEB 1985

The May 1984 issue of "Lowdown" contained an article by Mitchell Lee on a low-impedance-input 3-transistor amplifier designed to be used for series-tuned loops. The main advantage of this design was stated to be good dynamic range (freedom from overloading / spurious-signal generation). A slightly-modified version of this design was built here at Billerica. It's been dubbed FE-C (Front-End card, version C). FE-A is the FET-input amp. (used in the RT-1 Remote Tuner project) against which FE-C was compared; FE-B is the regenerative front-end used in the APT-3 regen. tuner. Figure 1 (schematic) and Figure 2 (component roadmap) illustrate the FE-C version of Mitchell Lee's loop amplifier.

Figure 1: FE-C schematic



From PHLF 25
person except upon application to the commission and upon finding by the commission that the public interest, convenience, and necessity will be served thereby."

"Thus the commission is required to find that any transfer of control, hostile or otherwise, serves "the public interest, convenience and necessity ...". The commission has considerable latitude in making this determination.

Historically the commission has inquired into the financial qualifications of the person seeking control. We have considered whether the applicant was likely to provide an acceptable service. We have generally insisted that the proposed transferee demonstrate motives beyond mere financial gain.

All corporate takeovers must occur

under the scrutiny of the Securities and Exchange Commission and the Justice Department. Where broadcast properties are involved, the Federal Communications Commission also must be involved. FCC involvement need not be accompanied by great delay, as was once imagined. But

commission involvement will not be pro forma.

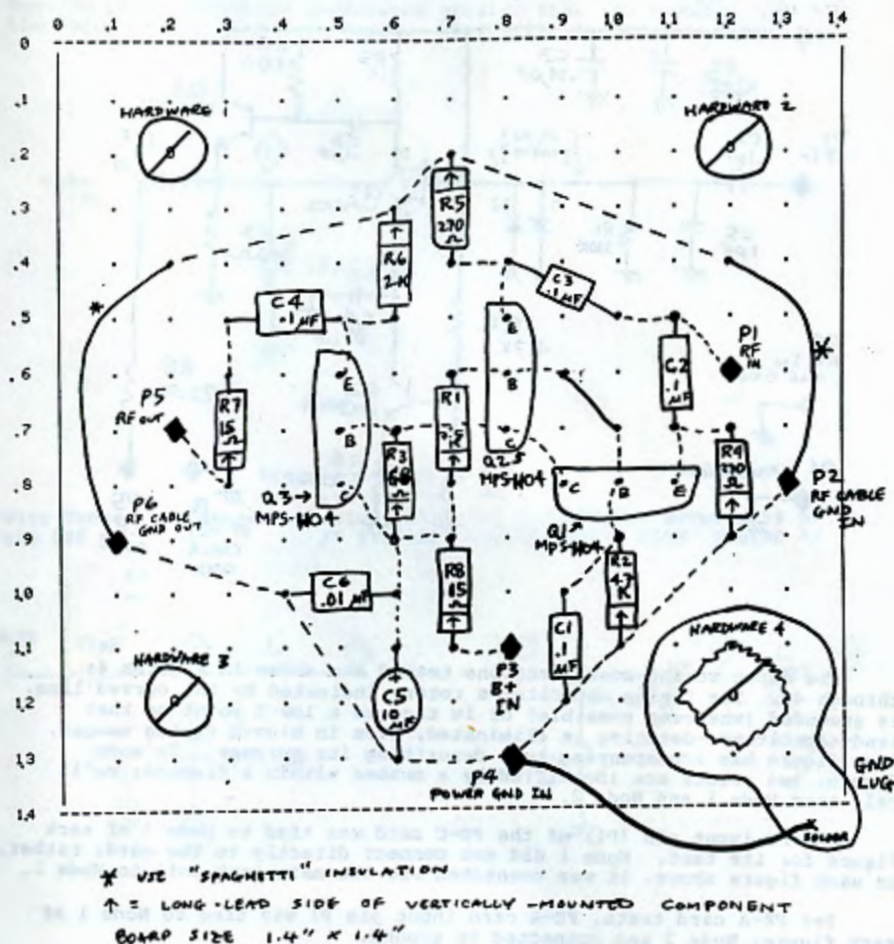
In the often rough-and-tumble corporate world, the government attempts to protect shareholders and competition. In telecommunications businesses there is an additional layer of government involvement. The government, through the Federal Communications Commission, also seeks to protect those for whom service is being provided.

In the course of considering an

application for transfer of control of a broadcasting license, I would have to satisfy myself that the applicant was interested in and capable of providing an acceptable level of service to the public. If it were clear to me that public needs and interests were not being adequately addressed by an applicant, I could not support a transfer.

The financial community should realize that broadcast properties should not be considered just another takeover game. Potential broadcast buyers have to meet the requirements of not only the Securities and Exchange Commission and the Department of Justice but also the FCC, which is required to make a public-interest finding before a transfer of control or ownership. The requirement for FCC approval is something that potential raiders should keep in mind.

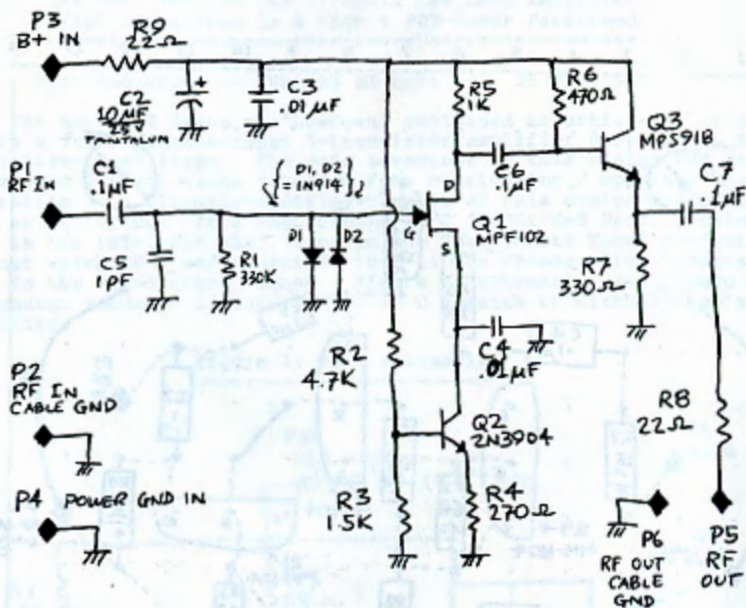
Figure 2: FE-C component roadmap



The purpose of the testing was to judge the low-Z input FE-C's performance against that of the FE-A (which uses the traditional high-Z-FET-input / parallel L-C tank approach). Factors considered included gain, noise, and spurious signal occurrences in the presence of potent local stations WRKO - 680, WHDH - 850, WBZ - 1030, and WMRE - 1510. In addition to loop operation, the use of each front-end in random-wire-tuning applications was evaluated. The schematic of the FE-A card is included in Figure 3 for reference.

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Figure 3: FE-A schematic



The input tuning configurations tested are shown in Figures 4a through 4g. The tuning capacitor's rotor, indicated by the curved line, is grounded (whenever possible) or is tied to a low-Z point so that hand-capacitance-detuning is eliminated, even in high-Q tuning usages. Each figure has accompanying text describing its purpose. In each figure, two points are identified by a number within a diamond; we'll call them Node 1 and Node 2.

The RF input pin (P1) of the FE-C card was tied to Node 2 of each figure for its test. Node 1 did not connect directly to the card; rather, as each figure shows, it was connected via the main tank coil to Node 1.

For FE-A card tests, FE-A card input pin P1 was tied to Node 1 of each figure; Node 2 was connected to ground.

If these tuning configurations were to be used as passive tuners, Node 2 would be tied to the receiver (or broadband-amp.) input and also to the "top" of an added tap (inductive-divider) coil of inductance approximately 15% of that of the main tank coil. The "bottom" of the added coil would be grounded. (Passive tuner tests were not done in this evaluation project.)

Figure 4a

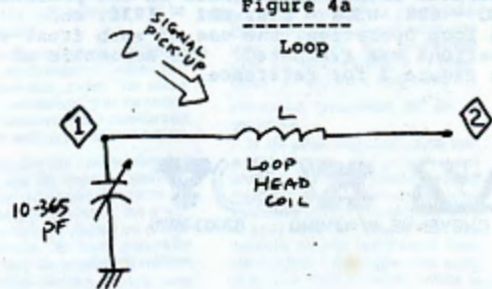
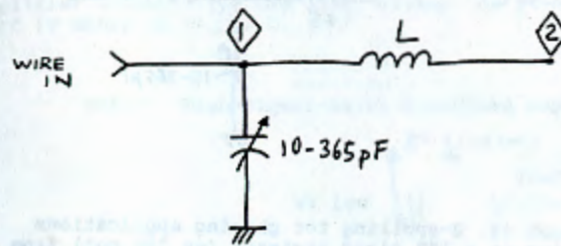


Figure 4b

Wire Tuner for antennae having effective capacitance less than 50 pF or effective inductance greater than 4*L (where L is the value of the main tank coil). /* TYPICAL "SHORTWIRE" TUNER */



Figures 4c and 4d

Wire Tuners for antennae having effective capacitance between 50 pF and 500 pF. /* TYPICAL "MEDIUM-LENGTH WIRE" TUNERS */

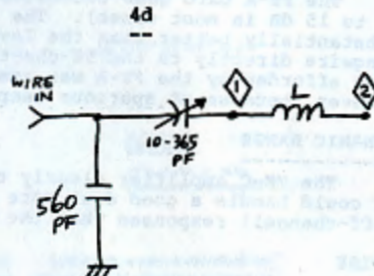
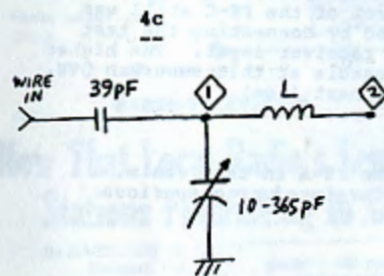
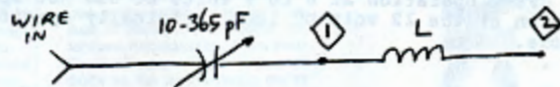
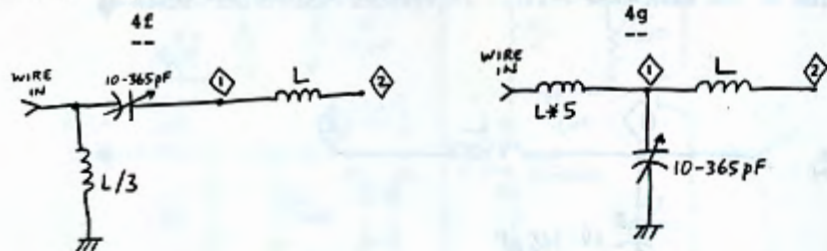


Figure 4e

Wire Tuner for antennae having effective capacitance greater than 500 pF or effective inductance less than L/4 (where L is the value of the main tank coil).



Wire Tuners for antennae having effective inductance between $L/4$ and $L*4$ (where L is the value of the main tank coil).



Note: In figures 4a through 4g, Q-spoiling for phasing applications may be effected by switching in a 15K fixed resistor (or 25K pot) from Node 1 to ground. This is independent of the type of amplifier used.

Test Results

GAIN

The FE-A card gave consistently greater output level (approx. 10 to 15 dB in most cases). The output level of the FE-C still was substantially better than the level obtained by connecting the test longwire directly to the 50-ohm-terminated receiver input. The higher gain afforded by the FE-A was sometimes unusable at this suburban QTH, however, because of spurious responses (see next item).

DYNAMIC RANGE

The FE-C amplifier clearly outshone the FE-A in this realm. It could handle a good deal more signal before producing spurious (off-channel) responses than the FE-A could.

NOISE

The FE-C was somewhat quieter than the FE-A; however, in light of the FE-C's lower gain, actual signal-to-noise on both front-end cards was about the same.

MISCELLANEOUS CONSIDERATIONS

The FE-C performed in a more stable manner with high-Q L-C tanks than the FE-A did: high-Z-input FET amplifiers are more likely to go into oscillation. Use of a pot of about 250 K or 500 K would cure the FET's tendency to oscillate (CCW of pot to Node 1, arm of pot to P1 input of FE-A, CW of pot to ground).

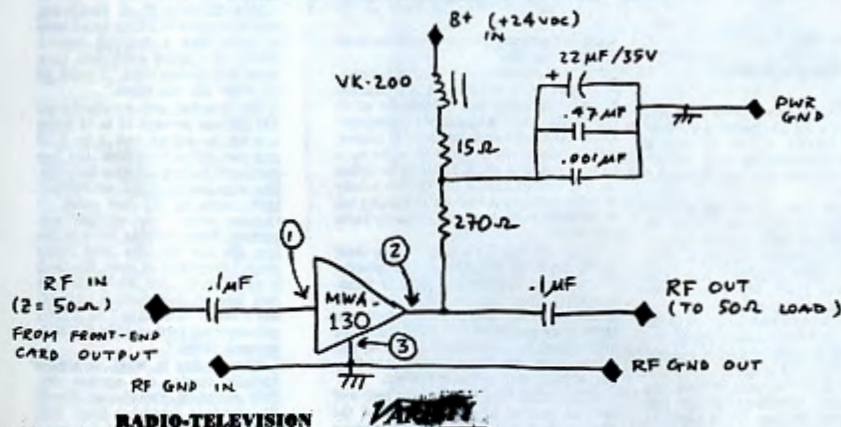
It seems that the FE-C is less likely to be "blown" during nearby thunderstorms.

FE-A has a slightly lower current draw (hence, longer battery life) than FE-C. FE-C operation at 8 to 9 volts DC did not appreciably differ from operation at the 12 volt DC level originally specified in Mitchell Lee's article.

In situations demanding high gain (e. g. physically small loop, short wire, or remote location far from cities), the FE-A would be the front-end card of preference. At urban locations and/or when a loop of efficient (high-pickup / high-Q) design is available, use the FE-C: chances are that the diminished gain will be more than offset by a welcome freedom from spurious signals. Extra gain, if required, can be supplied by a "crunchproof" broadband amplifier using a Motorola MHW- or MWA-series or TRW CA-series amplifier of the sort used in CATV line-amp. applications. These amplifiers require a "beefy" power supply (e. g. 24 V, > 60 mA); portable operation is unlikely. An amplifier suitable for use after either the FE-A or FE-C Front-End card is shown in Figure 5.

Figure 5

BBA-C High-Signal-Level Broadband Amplifier



Now That Local Radio's Legal, Stations Flourishing In Germany

By HAZEL GUILD

Stuttgart, Feb. 12. New radio stations are cropping up all over West Germany since relaxed legislation allows private groups to open local radio outlets.

One of the interesting sidelights of the tremendous expansion of the radio programming here is that at least one of the pirate senders, which were formerly invading the German sound waves and broadcasting to leftist student groups, is now becoming legal.

Insiders feel, however, that when the underground stations go overground, part of the thrill of illegal broadcasting and illegal listening is gone, and the stations will have less impact than when they were forbidden.

Agreements last year between the West German government and the governors of the various German states opened the way for private commercial tv and private radio.

The conservative governor of the state of Baden-Wuerttemberg, Lothar Spaeth, was the first to approve of the new media, and last October, Freiburg City Radio started broadcasting as the first local radio station in the country. A partnership of four local publishing houses which turn out the four daily newspapers run the station and put up one third of the station's \$300,000 capital, with the other two

thirds — and much programming material — emanating from the Southwest German Radio of Baden-Baden.

Stark Bound

During the initial year, at least, there will be no advertising. But in the minds of most investors in the German newspaper scene, it is clear this is the first step for the German newspaper and publishers to move into the newly opened radio business which is bound to go commercial, and to provide the publishers with a key foothold in the competing entertainment and news media.

About 350,000 listeners in the Freiburg area and in the surrounding 15 miles can catch the station.

Radio Ulm opened Feb. 4, with four daily newspapers and help from South German Radio of Stuttgart, as the second local radio in the state of Baden-Wuerttemberg. Interviews, entertainment, music from South German Radio and news make up the programming under general manager Siegfried Kaspar, with a listening audience of 200,000.

Seven regional publishers in the state of Rheinland-Pfalz have formed Radio Rheinland Pfalz Corp. to broadcast an eight-hour daily program in the area of Mainz this year.

In the fall, a round-the-clock radio station is planning to start in Hanover with local magazine and newspaper publishers reppping 56 daily papers. It has founding capital of over \$2,000,000 and plans to broadcast from five studios in five cities and to introduce advertising shortly, both in the form of spot commercials and by sponsoring shows.

Wm. VICKERS

WGLE

1995 Keith St. N.W.
Cleveland, Tennessee 37311

KICK 1340

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Let your AM dial put the world at your feet

By Peter B. King
The Pittsburgh Press

FIDDLING with the dial of your AM radio is a bit like packing a toothbrush, tossing a coin to pick a direction, and then zooming away in your car. If you've got the time, you could end up anywhere.

Because AM radio waves travel hundreds — sometimes thousands — of miles at night, they provide a way to sample Americana. A trip around the dial is a trip along the interstates, the county highways, the rutted back roads. It's a chance to meet the townies and soak up the local color, to taste the best and the worst of the culture of a continent, and beyond.

And there's another allice in making contact with faraway stations — a sense of magic. It's as if AM radio writhes the fabric of space, bunching together to faraway places. Perhaps it's a sense of wonder that brings thousands of people — dedicated hobbyists and casual listeners — spinning the AM dial.

Many collectors these distant locales using the stock AM receivers that almost everyone has in their homes.

Mark Manney, a Baltimore resident who writes a column on long-distance listening for the magazine Pop-Culture Communications, says that those searching for distant stations fall into two categories:

• First, there are those who listen because they are interested in the programs they can hear. In the '60s, for instance, many teens outside of the New York area preferred *Comps* (Broadcast 77, WABC over their local WJZ).

A more recent example of someone interested in content, Manney says, due to AM's shift to phone-in gab, is the talk show hopper.

"They're familiar with say, Larry Click out of Boston or Joe Lombardo out of Baltimore. They know these people and they'll call them regularly," says Manney. For example, if you would just monitor one of those shows one evening, you'd be surprised at how many calls you get from long-distance.

Manney works at a Baltimore radio station. Not too long ago, when they had the subway station in New York, we had several people from New York City call in to give the local angle on it.

Troopers form another segment of the audience interested in content. "They're traveling across the country at night, and they'll listen in a lot of clear-channel stations.

Stations catering to troopers play country music almost exclusively, hawk goods and services from rigs to truckstops, and forecast weather for vast regions of the United States and Canada. At least one,

WLV in Cincinnati, features call-ins from troopers via CB.

• A different kind of listener is interested in pulling in hard-to-get AM stations rather than for a particular program. Even the most casual listener, of course, gets a passing thrill when he picks up a station in Boston or St. Louis as he twirls the dial toward XDKA. But there is a body of radio enthusiasts who make a hobby out of systematically pursuing faraway radio signals.

These are the DXers, who take their name from a telegraphy abbreviation which means "distant reception or transmission." They log the date, time and details of a show they monitor in order to prove they picked it up. They mail this information to the station they heard, and ask for a note back confirming that they did, indeed, pull in the broadcast.

DXers often have a scientific bent and take an interest in the properties of the ground, the atmosphere, and radio waves that make long-distance transmissions possible. DXers subdivide into several groups: some listen for standard broadcast band AM stations, while others listen for shortwave (above the standard AM band), TV or FM broadcasts.

Ruben Dargatz, who heads a Baltimore club called the Association of DX Reporters, says of the hobby: "It's like collecting stamps. Also, I find it a marvel to be able to log a European station next to an American station, Saudi Arabia right next to Buffalo. It's a challenge. I spend an analogy might be the fisherman who lands the big one."

A local standard-bearer, James R. Hall of the North Hills, writes in the biggest so far: "I think that's the very nice catch, but it's kind of complete here in Pittsburgh with a good receiver. He has also logged Columbia, Hopalong, Cuba, Venezuela and Ecuador."

For James, his best night DXing came in mid-January when conditions were very good. He listened to the Southwestern U.S. That's when he logged stations in Arizona, Missouri, Illinois, Arkansas, Louisiana, Denver, Salt Lake City, San Diego and Los Angeles.

Two countries that he craves but has not yet reached are Brazil and Argentina. "I haven't logged them yet; it would be very rare if I did."

Picking up a low-power station, even if it's relatively close, can be more prestigious than picking up a broadcast station far away. One of the world's most powerful stations is a 500,000-watt station on the island of Bonaire in the Netherlands Antilles, which, James says, can be heard easily across the United States. To him, a 500-watt station in Missouri is a better catch.

Please see AM, CG

From Page 32

Some stations were young and there were relatively few stations.

The idea was to reserve a particular frequency for a powerful station (eventually the FCC permitted 50,000 watts), in order to ensure that even areas with no local radio service could still tune in to the new medium.

All radio transmitters generate two kinds of waves — those that travel along the ground and those that shoot into the sky. By day the ground waves of a 50,000-watt clear-channel station can be heard from about 125 to 150 miles away. At night, in the ionosphere, there forms what is almost an electronic mirror, so that sky waves usually bounce off this reflecting surface and end up hundreds of miles (farther) away.

John Malicky, 23, of Beechview was introduced to DXing by a friend in 1970. He's a walking science library on weather conditions, time zones and station tests. "I could go on about this for hours."

He searches out standard-band AM stations perhaps 10 to 15 hours a week in winter and 4 to 6 in summer, when conditions are less conducive to long-distance listening. One outstanding night, he remembers, came in the last week of October when "the weather was perfect. Temperatures were in the low 50s and the sky was really clear." He picked up Iowa, Minnesota and Illinois. "Jim Hill, whom he met through their mutual interest, has a better radio than I do. I can't get anything farther than the Midwestern states."

Except that is, when an amateur horchalis dangles the northern sky. This electrical disturbance brings the standard broadcast band wide open to stations south of the equator. During an event in January 1974, Malicky picked up Colombia, the Bahamas, Belize and Jamaica.

Like most standard-band DXers, Malicky and James Hall belong to one of two national clubs: the National Radio Club and the International Radio Club of America. Together, the clubs boast a membership of about 1,300, according to James and Malicky. An umbrella organization is the Association of American Radio Clubs, which links DXing clubs of all kinds.

In Pittsburgh, there are perhaps a half-dozen members of the two standard-band clubs.

Thousands who don't belong to any club listen long-distance on a more casual basis, says Manney. Their number has never been pinpointed.

The clubs have their spectators. Malicky knows of several men, DXing for 40 or 50 years, who have collected about 3,000 or 4,000 verifications each.

How many has Malicky collected? "I've heard 1,213 stations as of today," he says quickly. "And I've verified 484."

For those listening on standard AM radios, the majority of distant stations they will pick up are called "clear-channels."

Lewis Stephens, an adviser on international law with the Federal Communications Commission who has dealt extensively with rule-making affecting clear channels, explains that the clear-channel concept evolved about 50 years ago.

Louisville Times 4/9/85



Staff photo by Pat McDonough
The twisted remains of the WHAS radio tower near Eastwood were still on the ground as David Haug worked in the background on a new, smaller tower that he was helping to install yesterday.

DECK THUMP

A guy came to him and said, 'I hear they're making on Jeeps. He was probably picking up our station. And the dealer took up selling him a Jeep.'

Dale Parsons, the program manager at WNBC, New York City, says his station routinely gets calls from Canada to Florida, especially in areas where there are no local stations broadcasting at night. A letter once reached Parsons from Australia. "There was a station in Australia that was very close to us on the dial. That station was off the air for the evening, and for some reason, someone picked us up."

Other stations (among many) Pittsburghers can pick up with standard equipment include WSM (850), Nashville; WWWE (1160), Cleveland; KYW (1080), Philadelphia; WBZ (1030), Boston; WPTZ (890), Raleigh, N.C.; WOWO (1190), Fort Wayne, Ind.; and WHAM (1180), Rochester, N.Y.

Perhaps the greatest pleasure of all, due to the high level of programming and the fact that you are after all listening to a foreign country, is picking up the Canadian Broadcasters Corp.

I. M. Messerly
Toronto, Ont.

From midnight till 5 a.m., WLV broadcasts a show for troopers which has its biggest audience outside of the Cincinnati area. "The station at night can be heard reliably in 28 states and parts of Canada. You can drive to Alabama or Arkansas or Mississippi and hear WLV better than the local station."

Lee Harris, managing editor of news KMOX, St. Louis, says, "Like KDKA, we have at one time or another been picked up in every country in the world. A 50,000-watt station is pretty much free to roam the planet."

KMOX maintains a toll-free number for out-of-state callers. When Harris worked in Phoenix, he picked up KMOX regularly. "I know what I was getting into before I came up here."

At WLS in Chicago, Al Remick, chief engineer for AM, says the station consistently gets requests for verifications from Scandinavia. "During the day, you can't hear us in Europe. But at night, the signal spreads out in a giant ring that lands halfway around the world."

"They still have a letter here from an American 'Motor Jeep' dealer in Manila in the Philippines."

Chris Witting, program manager of KDKA, says the station regularly gets mail from up and down the East Coast, as well as from Oklahoma, Mass., which, for some reason, picks up Pittsburgh particularly well. Witting also recalls a letter from Missouri. "They were mad when we changed our Sunday night programs."

At certain times of the month, I might get 11 letters from Finland. Our signal must be clearer there. It must have to do with the atmospheric conditions."

Witting is also familiar with the talk-show hopper. "Usually when we have psychic, they call a lot. And when we had an acupuncture guy, we got tons of callers from Florida and all up and down the East Coast."

The assistant program director of WLV, Cincinnati, Dan Allen, says that a Monday-through-Friday talk show with Bob Trumphy, a former football player with the Cincinnati Bengals, garners "a bunch of calls from Pittsburgh, especially those from a Steeler game coming up because of the rivalry."

Before baseball's Braves moved to Atlanta, Allen says, the Cincinnati Reds were "the team of the South. There are still affiliates of the Reds' network as far south as Florida."

Cont. Page 33

A dial hopper samples radio morsels

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across the U.S., Canada

STRONG-SIGNAL AM radio stations around the country offer a bit of the flavor of the regions they represent. You can get gumbo here, chili there, softshell crab or sweet potato pie. Following are a few tastes:

Cincinnati:

"700-WLW with The Bozo, startin' into year No. 2 of Interstate 700. Good mornin', here's Connie." (The tune is "Once a Day" — a 1945 country heart-wringer sung by Connie Smith.)

Bozo: "There's a lady that's travelin' down the highways in a truck. Her handle is 'The Naked Lady.' Mmmmm. And she's on the phone here right now. Anyway, she's calling from the Circle City, right?"

"I wanted to call and tell ya, Happy Anniversary. I'm sorry I haven't called ya, but I've been in Seattle."

"What have you been doing in Seattle, Naked Lady?"

"Oh, I dropped off some freight over there at Boeing Aircraft."

"Oh, Good, good... We'll be lookin' for you as you drive by."

New York:

A woman with a British accent: "Edward Grieg's Sonata in D Minor, played by pianist Glenn Gould. And the time now in New York is 2:14 precisely on the stereo stations of The New York Times, WQXR-FM, 96.3, and WQXR-AM, 1560."

"Well I trust this oncoming day brings you a happy day, one which although, I suppose, like any day, will be fraught with problems, things to resolve, things to just plain solve, may they go well, may they come without requiring too terribly much agonizing. I think the music helps. It somehow neutralizes those unanswered questions just a bit."

Detroit:

On WJR (760): "The battle for third place continues tonight as the Minnesota North Stars come into Detroit to meet the Redwings. These two teams have supplied some fireworks in the past games, and we'll look for a good one tonight, with our broadcast beginning at 7:25..."

Louisville:

On WHAS (84) with talk-show host Milton Metz, who specializes in "gripes, squawks and complaints." The caller is Paul.

"Yeah, I have a gripe on, uh, several things. One thing that gripes me, and I think it should be a government regulation, are these cars that have dark windows. You can't see who's driving, they could be wanted by the FBI or anything, but you can't see them. I've never been in one so I guess they can see you."

"Oh yes, they can see you. I don't think there's any law against it. Why should there be a law permitting you to look into someone else's car?"

"Well they might be wanted."

Charlotte:

On WBT (1110), a female reporter's voice: "March 28, 1984. Tornadoes ripped through the Carolinas causing widespread destruction."

Gruft, rural voice: "That wall was 16, 18 inches thick, solid brick. It took it out just like matchsticks."

"One year later, WBT news returns to the communities hardest hit..."

Montreal:

On the Canadian Broadcasting Corp. (French language), a sports cast in French punctuated by recognizable snippets such as "Philadelphia, deux, Chicago, trois," "Devils de New Jersey," "Lilacs de Edmonton," "Bruins de Boston," and "le basketball."

From Ontario province (CBC, English language):

"A bi-election was held today in Saskatchewan to fill the vacancy left by Colin Thatcher. The former energy minister was removed from office after being sentenced to life in prison for the murder of his ex-wife, Rick Swenson, of the Progressive Conservatives, is the new member for the riding (district) of Thunder Creek, near the city of Moose Jaw."

And then: "Canada has dropped into second place in the men's world curling championships in Glasgow. The Al Hackler Rink from Thunder Bay lost 6-3 to both Denmark and Sweden, the team's first losses in the tournament..."

"Now the weather forecasts for Ontario... For White River, Algonoma and the Sault, partly cloudy with fog patches overnight, low minus 2 to minus 5. Thursday, cloudy with rain developing, high 3 to 7. Friday, colder with rain or wet snow."

Buffalo:

From WGR (94.9): "10:42 — we'll take a break. When we return, session 55, I've got two open lines now, 888-4450. Doctor's office horror stories, we all have some, let's tell them right now."

Raleigh:

From WPTV (680): "It's a Land's Jewelers Night Song in program from Studio A, with Tom Avery. Nice talking with Lisa in Fayetteville tonight. Lisa was having a little phone trouble early tonight. Glad you got it fixed so you could get through and request this record — I like it, too — by Bobby Vinton, 'Please Love Me Forever.'"

New York:

"Abbaooooohhh! Growl!" through the night with the music that's outstanding. You got the Wolfman on 64-WNBC."

— Peter & King



P.O. BOX 7
PITTSBURG, KAN. 66762

□ □ □

REPORTS DIFFER on why WRUA-Radio in Monroeville has been off the air for two weeks.

The station's attorney, Tom Rodgers, says the silence is due to a burglary March 29 of more than \$43,000 in records, tapes and equipment. "We're waiting to see what the situation is. I can't say much because of the police investigation, but I think we'll be back on the air soon, probably within the next few days," Rodgers said.

But WRUA did not go silent until March 26 at 2:10 p.m., according to WRUA deejay "Big Red" Edwards.

"It was 10 minutes into my air shift and Duquesne Light came out and pulled the plug because the electric bill wasn't paid," Edwards said. "It happened once before, but we were only off about two hours because (then general manager) Terry Lee went out and paid the bill."

"The station's business struggle continues, but that's nothing new," Rodgers said. "I don't think that's why it's off the air."

WRUA was sold in 1980 to Barua Communications of Monroeville Inc., with Dr. Subrata Barua as president. Attempts to reach Barua have been unsuccessful.

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EVEN KQV joined radio stations around the globe Friday morning to play "We Are the World," the U.S. rock stars' recording for famine relief in Africa.

Sliding the radio dial up and down, I found only three stations not playing the record — WMBS in Untontown and two religious stations.

Interesting that religious broadcasters chose not to participate in the worldwide benefit effort, perhaps they're too busy shaking their own tin cup, religious broadcasting being such a lucrative business.

□ □ □ PER PAGE
RULICY

GRAVEYARD DX ACHIEVEMENTS

William R. Hale, 9823 N. Meadow, Converse, TX 78109

Totals on 1230, 1240, 1340, 1400, 1450, and 1490 KHz Frequencies

35

PRIOR TO JAN 1, 1960
DATE OF LAST UPDATE: APR 5, 1985

WAUD	AUBURN (AL)	DON KASKEY	GALVA (IA)	890
WIRB	ENTERPRISE	DON KASKEY	OMAHA (NE)	915
WBHP	HUNTSVILLE	GENE ALLEN	VALLEJO (CA)	2000
KIFW	SITKA (AK)	GENE ALLEN	VALLEJO	1550
K6PH	FLAGSTAFF (AZ)	DON KASKEY	GALVA	1005
KGAN	KINGMAN	DON KASKEY	GALVA	1120
KRIZ	PHOENIX	DON KASKEY	GALVA	1105
KCON	CONWAY (AR)	GENE ALLEN	VALLEJO	1655
KFPN	FT. SMITH	FRANK WHEELER	ERIE (PA)	887
KBTM	JONESBORO	FRANK WHEELER	ERIE	637
KERO	BAKERSFIELD	DON KASKEY	GALVA	1355
KXD	EL CENTRO (CA)	FRANK WHEELER	ERIE	2000
KPRL	PASO ROBLES	DON KASKEY	GALVA	1430
KVEC	SAN LUIS OBISPO	ERNIE COOPER	BROOKLYN (NY)	2500
KRAI	CRAIG (CO)	GENE ALLEN	VALLEJO	810
KEXO	GRAND JUNCTION	GENE ALLEN	VALLEJO	745
KLCV	LEADVILLE	GENE ALLEN	VALLEJO	870
KDZA	PUEBLO	STAN MORSS	BRADFORD (MA)	1900
KGEC	STERLING	FRANK WHEELER	ERIE	1184
WGGG	GAINESVILLE (FL)	FRANK WHEELER	ERIE	841
WJNO	WEST PALM BEACH	RALPH SPERRY	FAIRFIELD (CT)	1010
WTNT	AUGUSTA (GA)	DON KASKEY	GALVA	970
WBLJ	DALTON	FRANK WHEELER	ERIE	579
WSDK	SAVANNAH	FRANK WHEELER	ERIE	728
WAYX	WAYCROSS	DON KASKEY	GALVA	1070
KBIO	BURLEY (ID)	DON KASKEY	GALVA	925
WJBC	BLOOMINGTON (IL)	FRANK WHEELER	ERIE	450
WQVA	MOLINE	DON KASKEY	GALVA	270
WHCO	SPARTA	GENE ALLEN	VALLEJO	1785
WJOB	HAMMOND (IN)	DON KASKEY	GALVA	420
WTCJ	TELL CITY	DON KASKEY	GALVA	555
WBDW	TERRE HAUTE	FRANK WHEELER	ERIE	400
KFJB	MARSHALLTOWN (IA)	RALPH SPERRY	FAIRFIELD	2030
WHLN	MARSHALL (KY)	GENE ALLEN	VALLEJO	760
WHFN	HICKMANVILLE	DON KASKEY	ERIE	588
KSLO	OPELUSAS (LA)	DON KASKEY	GALVA	970
WTHM	BALTIMORE (MD)	DON KASKEY	GALVA	1005
WNMB	NORTH ADAMS (MA)	FRANK WHEELER	ERIE	380
WNEB	WORCESTER	FRANK WHEELER	ERIE	338
WMPC	LAPEER (MI)	FRANK WHEELER	ERIE	184
WSDO	SAULT STE. MARIE	FRANK WHEELER	ERIE	369
WSTR	STURGIS	FRANK WHEELER	ERIE	267
KYSM	MANKATO (MN)	FRANK WHEELER	ERIE	723
KTRF	THIEF RIVER FALLS	FRANK WHEELER	ERIE	887
KWNO	WINONA	FRANK WHEELER	ERIE	594
WCMA	CORINTH (MS)	FRANK WHEELER	ERIE	651
WHSY	HATTIESBURG	HANK HOLBROOK	CHEVY CHASE (MD)	870
WSSO	STARKVILLE	FRANK WHEELER	ERIE	808
WAFZ	YAZOO CITY	GENE ALLEN	VALLEJO	1835
KSMH	JOPLIN (MO)	DON KASKEY	GALVA	395
KLMT	LEBANON	FRANK WHEELER	ERIE	728
KAHA	ANACONDA (MT)	STAN MORSS	BRADFORD	2150
KBPN	BOZEMAN	GENE ALLEN	VALLEJO	795
KXLO	LEWISTOWN	GENE ALLEN	VALLEJO	910
KTNC	FALLS CITY (NE)	HANK HOLBROOK	CHEVY CHASE	1000
KHAS	HASTINGS	GENE ALLEN	VALLEJO	1295
KELY	ELY (NV)	DON KASKEY	GALVA	1035
KLAS	LAS VEGAS	FRANK WHEELER	ERIE	1420
KALG	ALAMOGORDO (NM)	GENE ALLEN	VALLEJO	950
KENE	BELEN	GENE ALLEN	VALLEJO	900
KOT5	DEMING	GENE ALLEN	VALLEJO	925
KGAK	GALLUP	DON KASKEY	GALVA	865
KFUN	LAS VEGAS	FRANK WHEELER	ERIE	1600
KSMS	ROSWELL	GENE ALLEN	VALLEJO	1050
KCHS	TRUTH OR CONSEQUENCES	ERNIE COOPER	BROOKLYN	1890
WENY	ELMIRA (NY)	FRANK WHEELER	ERIE	164
MLFH	LITTLE FALLS	FRANK WHEELER	ERIE	271
WFAS	WHITE PLAINS	FRANK WHEELER	ERIE	328
WNNF	FAYETTEVILLE (NC)	DON KASKEY	GALVA	1035
WMFR	HIGH POINT	FRANK WHEELER	ERIE	420
WCBT	ROANOKE RAPIDS	FRANK WHEELER	ERIE	410
WCPO	CINCINNATI (OH)	GENE ALLEN	VALLEJO	2040
WCOL	COLUMBUS	DON KASKEY	GALVA	675
KADA	ADA (OK)	GENE ALLEN	VALLEJO	1450
WBBZ	PONCA CITY	GENE ALLEN	VALLEJO	1390
KVJC	MEDFORD (OR)	DON KASKEY	OMAHA (NE)	1370
KNPT	NEWPORT	GENE ALLEN	VALLEJO	472
WBVP	BEAVER FALLS (PA)	FRANK WHEELER	ERIE	92
WCBL	CARBONDALE	DON KASKEY	GALVA	1020
WCRD	HARRISBURG	FRANK WHEELER	ERIE	263
WCRO	JOHNSTOWN	DON KASKEY	OMAHA	895
WBPZ	LOCK HAVEN	FRANK WHEELER	ERIE	154
WTIV	TITUSVILLE	FRANK WHEELER	ERIE	35
WAIM	ANDERSON (SC)	DON KASKEY	OMAHA	865
WOLS	FLORENCE	GENE ALLEN	VALLEJO	2400
KISD	SIOUX FALLS (SD)	DON KASKEY	GALVA	92
KSIX	CORPUS CHRISTI (TX)	GENE ALLEN	VALLEJO	1620
KNUZ	HOUSTON	GENE ALLEN	VALLEJO	1635
KLVY	LEVELLAND	DON KASKEY	GALVA	735

KOSF	NACOGDOCHES	GENE ALLEN	VALLEJO	1630
KOSA	ODESSA	GENE ALLEN	VALLEJO	1220
KPAT	PAMPA	DON KASKEY	GALVA	580
KSEY	SEYMOUR	DON KASKEY	GALVA	670
KSST	SULPHUR SPRINGS	DON KASKEY	GALVA	570
KCMC	TEXARKANA	DON KASKEY	GALVA	650
KWTX	WACO	GENE ALLEN	VALLEJO	1485
KVNU	LOGAN (UT)	GENE ALLEN	VALLEJO	610
KMUR	MURRAY	DON KASKEY	GALVA	855
KOAL	PRICE	FRANK WHEELER	ERIE	1600
WJOY	BURLINGTON (VT)	FRANK WHEELER	ERIE	379
WFVA	FREDERICKSBURG (VA)	FRANK WHEELER	ERIE	410
WNRD	NORFOLK	DON KASKEY	GALVA	1090
WAMM	WOODSTOCK	FRANK WHEELER	ERIE	680
KQTY	EVERETT (WA)	GENE ALLEN	VALLEJO	595
KWIE	KENNEWICK	GENE ALLEN	VALLEJO	830
WAJR	MORGANTOWN (WV)	DON KASKEY	GALVA	830
WHBY	APPLETON (WI)	FRANK WHEELER	ERIE	446
WCLO	JANESVILLE	FRANK WHEELER	ERIE	451
KVOC	CASPER (WY)	GENE ALLEN	VALLEJO	905
KOVE	LANDER	GENE ALLEN	VALLEJO	790
KPOM	POWELL	GENE ALLEN	VALLEJO	850
MKVM	SAN JUAN (PR)	HANK HOLBROOK	CHEVY CHASE	1530
CFCM	CAMROSE (AB)	GENE ALLEN	VALLEJO	1150
CKDM	DAUPHIN (NB)	DON KASKEY	GALVA	630
CFGR	GRAVELBOURG (SA)	GENE ALLEN	VALLEJO	1195
JOHR	SAPPORO (JA)	GENE ALLEN	VALLEJO	5050

1230 KHZ GRAVEYARD ACHIEVEMENTS

BILL HALE
9823 N. MEADOW
CONVERSE, TX 78109

AFTER JAN 1, 1961
DATE OF LAST UPDATE: APR 12, 1985

WAUD	AUBURN (AL)	JEFF FALCONER	CLINTON (ON)	785
WBHP	HUNTSVILLE	CARL DABELSTEIN	LINCOLN (NE)	685
WHOD	JACKSON	STEVE FRANCIS	ALCOA (TN)	400
WNUZ	TALLADEGA	STEVE FRANCIS	ALCOA	220
WTBC	TUSCALOOSA	DAVE WHATTHOUGH	HAMILTON (ON)	805
KAAB	KINGMAN (AZ)	RICH EDDIE	ST. LOUIS (MO)	1320
KFLR	PHOENIX	RICHARD E. WOOD	HILO (HI)	2821
KATO	SAFFORD	CARL DABELSTEIN	LINCOLN	905
KIND	WINSLOW	CARL DABELSTEIN	LINCOLN	860
KFPW	FT. SMITH (AR)	JERRY STARR	YOUNGSTOWN (OH)	855
KGEE	BAKERSFIELD (CA)	DON KASKEY	SACRAMENTO (CA)	255
KIBS	BISHOP	JIM HILLIKER	ANAHEIM (CA)	258
KXO	EL CENTRO	DON KASKEY	SACRAMENTO	525
KDAC	FT. BRAGG	RICHARD E. WOOD	HILO	2191
KGJF	LOS ANGELES	DON KASKEY	SACRAMENTO	385
KPRL	PASO ROBLES	DON KASKEY	SACRAMENTO	216
KRDG	REDDING	DON KASKEY	SACRAMENTO	150
KMG	STOCKTON	RICHARD E. WOOD	HILO	2402
KEXO	GRAND JUNCTION (CO)	CARL DABELSTEIN	OMAHA (NE)	685
KDZA	PUEBLO	CARL DABELSTEIN	OMAHA	455
KBCR	STEAMBOAT SPRINGS	WAYNE HEINEN	COLORADO SPGS	170
KGEC	STERLING	CARL DABELSTEIN	LINCOLN	535
WINF	MANCHESTER (CT)	RODNEY VALDRON	PETIT ROCHER (NB)	330
WONN	LAKELAND (FL)	ALAN IMPRESCIA	NEW YORK (NY)	990
WONN	LAKELAND (FL)	RICHARD RECCO	MALVERNE (NY)	990
WMAF	LADISON (TIE)	STEVE FRANCIS	ALCOA	400
WSBB	NEW SMYRNA BEACH	STEVE FRANCIS	ALCOA	525
WNVY	PENSACOLA	ALAN IMPRESCIA	NEW YORK	1020
WCNH	QUINCY	JERRY STARR	YOUNGSTOWN	760
WJNO	WEST PALM BEACH	ERNIE COOPER	PROVINCETOWN (MA)	1190
WBIA	AUGUSTA (GA)	DEBRA HIDDEN	ORLANDO (FL)	350
WBLJ	DALTON	TIM KERFOOT	WESTON (ON)	635
WCLI	DUBLIN	GENE ALLEN	VALLEJO	2330
WFDM	MARIETTA	LARRY VAN HORN	MILLINGTON (TN)	320
WSDK	SAVANNAH	JEFF FALCONER	CLINTON	765
WAYX	WAYCROSS	HARRY HAYES	GOULDSBORO (PA)	780
WJBC	BLOOMINGTON (IL)	RICK CARR	AUSTIN (TX)	845
WGVA	MOLINE	WAYNE HEINEN	BUFFALO (NY)	620
WHCO	SPARTA	KEN ONYSHUCK	PARK FOREST (IL)	255
WJOB	HAMMOND (IN)	ANDY RUGG	MONTREAL (PQ)	740
WBQW	TERRE HAUTE	CARL DABELSTEIN	OMAHA	465
KFJR	MARSHALLTOWN (IA)	JERRY STARR	HUBBARD (OH)	620
WHOP	HOPKINSVILLE (KY)	RICK CARR	AUSTIN	780
WAND	PINEVILLE	STEVE FRANCIS	ALCOA	69
KLIC	MONROE (LA)	CARL DABELSTEIN	OMAHA	645
WBOK	NEW ORLEANS	BOB WALKER	CHICAGO (IL)	845
WBME	BELFAST (ME)	CHRIS LUCAS	FAIRFIELD (CT)	315
WODY	CALAIS	ANDY RUGG	MONTREAL	315
WITH	BALTIMORE (MD)	ANDY RUGG	MONTREAL	450
WALI	CUMBERLAND	RON MUSCO	WINDSOR (ON)	335
WMNB	NORTH ADAMS (MA)	ANDY RUGG	MONTREAL	190
WESX	SALEM	RODNEY VALDRON	PETIT ROCHER	440
WNEB	WORCESTER	RODNEY VALDRON	PETIT ROCHER	485
WJEF	GRAND RAPIDS (MI)	CHRIS LUCAS	FAIRFIELD	650
WIKB	IRON RIVER	CARL DABELSTEIN	OMAHA	495
WSDO	SAULT STE. MARIE	MORRIS SORENSEN	LEAF RAPIDS (MB)	1550
WSTR	STURGIS	CARL DABELSTEIN	OMAHA	535
WKLK	CLOQUET (MN)	CARL DABELSTEIN	OMAHA	405
KYSM	MANKATO	MORRIS SORENSEN	LEAF RAPIDS	740
KMRS	MORRIS	CARL DABELSTEIN	OMAHA	295
KTRF	THIEF RIVER FALLS	MORRIS SORENSEN	LEAF RAPIDS	980

KWNO	WINONA	CARL DABELSTEIN	OMAHA	285
KWNO	WINONA (TIE)	DAVE MARGRITZ	OMAHA (NE)	285
WCMA	CORINTH (MS)	JERRY STARR	YOUNGSTOWN	605
WHSY	HATTIESBURG	JERRY STARR	YOUNGSTOWN	815
WSSO	STARKVILLE	STEVE FRANCIS	ALCOA	340
KLEB	JOPLIN (MO)	FOREST OSBORN	HOOKER (OK)	350
KLWT	LEBANON	CARL DABELSTEIN	LINCOLN	285
KWIX	MOBERLY	CARL DABELSTEIN	OMAHA	195
KYTY	HARDIN (MT)	GENE ALLEN	VALLEJO	930
KTNC	FALLS CITY (NE)	ROBERT KRAMER	CHICAGO (IL)	425
KHAS	HASTINGS	CARL DABELSTEIN	OMAHA	135
KLAS	LAS VEGAS (NV)	GENE ALLEN	VALLEJO	420
KCBN	RENO	NANCY HARDY	ABERDEEN (WA)	490
WMOU	BERLIN (NH)	RON MUSCO	WINDSOR	209
WTSV	CLAREMONT	ANDY RUGG	MONTREAL	160
WCNC	WILDWOOD (NJ)	RODNEY VALDRON	PETIT ROCHER	760
KALG	ALAMOGORDO (NM)	ROBERT WIEN	SAN JOSE (CA)	940
KRSY	ROSWELL	DAVE MARGRITZ	OMAHA	725
KRSY	ROSWELL (TIE)	CARL DABELSTEIN	OMAHA	725
WNIA	CHEEKTOWAGA (NY)	DAVE YOCIS	FAIRFIELD (CT)	275
WENY	ELMIRA	JERRY STARR	YOUNGSTOWN	210
WIGS	GOVERNEUR	RODNEY VALDRON	PETIT ROCHER	525
WHUC	HUDSON	CHRIS LUCAS	FAIRFIELD	80
WHUC	HUDSON (TIE)	DAVE YOCIS	FAIRFIELD	80
WHUC	HUDSON (TIE)	ANDY RUGG	MONTREAL	175
WFAS	WHITE PLAINS	DAVE YOCIS	FAIRFIELD	40
WFAY	FAYETTEVILLE (NC)	CHRIS LUCAS	DANBURY (CT)	520
WMPR	HIGH POINT	STEVE FRANCIS	ALCOA	220
WNKC	NEWTON	STEVE FRANCIS	ALCOA	150
KDIX	DICKINSON (ND)	CARL DABELSTEIN	OMAHA	495
WJBE	CINCINNATI (OH)	RUSS EDMUNDS	GLEN ROCK (NJ)	545
WCOL	COLUMBUS	CARL DABELSTEIN	OMAHA	680
WIRD	IRONTON	FRANK WHEELER	ERIE	287
WCMA	TOLEDO	ANDY RUGG	MONTREAL	555
WBBZ	PONCA CITY (OK)	CARL DABELSTEIN	OMAHA	310
KOOS	COOS BAY	DON KASKEY	SACRAMENTO	370
KRDR	GRESHAM	RICHARD E. WOOD	HILO	2610
KQIK	LAKEVIEW	RICHARD E. WOOD	HILO	2583
KYJC	MEDFORD	DON KASKEY	SACRAMENTO	320
MBVP	BEAVER FALLS (PA)	STEPHEN MC INTIRE	DES MOINES (IA)	715
WEEX	EASTON	RODNEY VALDRON	PETIT ROCHER	680
WKBO	HARRISBURG	ANDY RUGG	MONTREAL	340
WCRO	JOHNSTOWN	RODNEY VALDRON	PETIT ROCHER	830
MBPZ	LOCK HAVEN	DAVE YOCIS	FAIRFIELD	250
MTIV	TITUSVILLE	RODNEY VALDRON	PETIT ROCHER	805
WERI	WESTERLY (RI)	RODNEY VALDRON	PETIT ROCHER	535
WXAP	COLUMBIA (SC)	STEVE FRANCIS	ALCOA	220
KISD	SIDUX FALLS (SD)	JERRY ROBERTSON	CROSWELL (MI)	700
WAKI	MC MINNVILLE (TN)	RUSS EDMUNDS	GLEN ROCK	750
KDLK	DEL RIO (TX)	DAVE MARGRITZ	OMAHA	920
KNJZ	HUSTON	ROBERT KRAMER	CHICAGO	955
KERV	KERVILLE	RICK CARR	AUSTIN	90
KEKE	NACOGDOCHES	GARY ATKINS	LOUISVILLE (KY)	775
KOZA	ODESSA	RICH EDDIE	ST. LOUIS	820
KGRD	PAMPA	ROBERT WALKER	CHICAGO	840
KSST	SULPHUR SPRINGS	STEPHEN PONDER	FT. WORTH (TX)	110
KMTX	WACO	BILL HALE	CHICAGO (IL)	148
KMUR	MURRAY (UT)	BILL HARDY	ABERDEEN (WA)	455
KOAL	PRICE	CARL DABELSTEIN	OMAHA	865
WJOY	BURLINGTON (VT)	RODNEY VALDRON	PETIT ROCHER	425
MODI	BROOKNEAL (VA)	JERRY STARR	YOUNGSTOWN	350
WFVA	FREDERICKSBURG	ANDY RUGG	MONTREAL	530
WNRD	NORFOLK	ANDY RUGG	MONTREAL	610
KOZI	CHELAN (WA)	BRETT HANAVAN	CHULA VISTA (CA)	1040
KWYZ	EVERETT	ROBERT WIEN	SAN JOSE	750
WLOG	LOGAN (WV)	JERRY STARR	YOUNGSTOWN	245
KHYG	PARKERSBURG	HARRY HAYES	GOULDSBORO	335
WHBY	APPLETON (WI)	WAYNE HEINEN	BUFFALO (NY)	430
WCLO	JANESVILLE	RICH EDDIE	ST. LOUIS	290
WXCO	WAUSAU	RICH EDDIE	ST. LOUIS	430
KVOC	CASPER (WY)	DAVE MARGRITZ	OMAHA	560
WNJK	ARECIBO	BILL BERGADANO	STATEN IS.	1500
CJOK	FT. McMURRAY (AB)	MORRIS SORENSEN	LEAF RAPIDS	445
CJNM	NEW WESTMINSTER (BC)	GENE ALLEN	VALLEJO	780
CFBC	CHURCHILL (MB)	MORRIS SORENSEN	LEAF RAPIDS	280
CFGN	PORT-AUX-BASQUES (NF)	BILL BERGADANO	STATEN IS. (NY)	950
VOAR	ST. JOHN'S	RODNEY VALDRON	PETIT ROCHER	610
CKMP	MIDLAND (ON)	ROBERT KRAMER	CHICAGO	445
CJTT	NEW LISKEARD	RODNEY VALDRON	PETIT ROCHER	650
CJLB	THUNDER BAY	MORRIS SORENSEN	LEAF RAPIDS	105
CJLP	DISRAELI (PQ)	RODNEY VALDRON	PETIT ROCHER	300
CHVD	DOLBEAU	BILL BERGADANO	STATEN IS.	520
CJSA	STE. AGATHE-DES MONTS	ANDY RUGG	MONTREAL	50
CKLD	THETFORD MINES	NEIL KAZAROSS	LAWRENCEVILLE (NJ)	435

Here is the first installment of the 'new' Graveyard Achievements Column. My thanks to RUSS EDMUNDS and the folks at HQ for sending copies of the last columns (circa 1980), which serves as the basis of what you see here. Also, thanks go to RUSS, DR. RICHARD E. WOOD, FRANK WHEELER, ANDY RUGG and RICHARD TURNER for sending in their 6Y data (received to date). 1240 KHZ is next, so get it in before May 15. Also, if you have received any 6Y stations on 1230 not listed here, or can beat the distance listed for those shown, send them in for the next time. Best regards, and 73

The opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the Editors, Publishers, or the National Radio Club, Inc., or its subsidiaries.
Times are local per Muse.

Welcome to the May edition of *DX News* and *Musings* for 1985. This 'un has turned out to be a biggie, with a number of provocative comments from members for our theme. The June column (deadline May 25) will feature your positive comments about the NRC or DX'ing, the July (June 29) column your ideas on the proposed expansion of the BC to 1805 kHz, and let's encourage first-time Musers to participate in the August (Aug. 3) column, as we did back in December. For #30 (Sept. 7), we'll utilize the theme of "Memories" ... of special DX, conventions, programming, whatever. See Gene Martin's Muse this issue for a good example, or any "Mothball Memories" contribution, which Ernie Cooper used to feature as part of *Musings*. #1 is usually pretty thin each year, so let's fatten it up with reprints ... short bios of ourselves (deadline TBA). By the way, I thoroughly enjoyed having DX'ers Gary Larson, John Clemmer, Jim Hilliker, Terry Smith, and Greg and Lynn Hardison drop by March 31 for my GIG. Let's do it again sometime! And now, on with it ...

Amused - Amazed - Attained

John R. Malicky - 995 Shadycrest Rd. - Pittsburgh, PA 15216

First off, I also stayed up to listen and taped the entire 5-hour Talkradio with Ray Briem's DX special. At first I was a little disappointed that the program was going to talk mainly on shortwave, but if I remember, it might have been one of the guests who mentioned that shortwave was universal, something people could understand better. Mr. Briem mentioned shortwave broadcasts were an educational and learning experience, so I agreed with him and thought the program was interesting, as there were a few things about BC. The parts of the show that I felt "chills up and down the spine" was bouncing around all over the world to R. Nederland, New Zealand (including hearing a friend I met last spring, Laurie Boyer), Glenn Hauser in Florida, Montreal, the owner of WRND in New Orleans, and to Opelika, AL about new SW stn NDXE, "In Dixie", and other places. Plus Mr. Briem calling Arthur Cushman in NZ "a giant" of SW DX'ing, over 5,000 veries, and for NRC's Dr. Richard Wood, who "lives to DX", a foremost expert of int'l DX! I did enjoy many SW ID's and tone signatures including the birds of Australia and NZ. I tried several times to call, but could not get in. What surprised me the most was the length of the show. I had no idea it would run 5 hrs! That's 3 am - 8 am EST, as I thought at 6 am the show might conclude, at 7 am for sure, then to 8! (Greg Hardison, who worked with Ray to get the show on the air, promises that we can expect a repeat of the show in the future, exact time undetermined -pls) As of April 15, verie returns have dried up as fast as a stream through the Sahara. Only WMTX-730 KY was actually kind enough (hi) to send a small computer-printout letter for a report sent 15 months ago, and WNN-1550 Vienna GA, trying to become the official media for the "Big Pig Jig", an annual area pork barbecue, sent a letter and map. It has been disappointing, but yet we move on and find 3 recent happenings to perk us up. For those of you who do or don't watch "Late Night" with David Letterman, on Monday's show, April 8, it was amusing to see small-town news as "Famous" Amos Pigg of WMPZ-1000 was mentioned sponsoring an event in his local area in Georgia ... two days earlier on the 6th, while randomly dial-twisting, I found WHAS-840 coming in weak and fading. I was about to tune away when I heard the DJ talking to an engineer, mentioning copper wire, the transmitter building, and WCOO (830). I continued to listen, finding out that at 5 pm Friday (the 5th) a powerful wind actually blew down their 675-foot tower! So while WHAS was off in the evening, neighbor WCOO did a good deed, broadcasting some wx and other related info for Louisville. By night, WHAS's engineers had finally constructed a temporary situation to get them back on the air by stringing a 300' copper wire up and out of the transmitter building, onto the ground, using 700 watts of power. I was absolutely amazed listening to this as WCOO was booming like a local while WHAS actually came in strong at times while fading. So at 1:50 am, I stuck my 2 cents worth in and called as WHAS was giving their number, asking for listeners in their area to tell them how well the signal was coming in. The DJ, Joe Donovan, was amazed that I could hear a strong signal from WHAS as he thought I would say they were weak while I was able to get a plug for the NRC ... (You sly devil! -pls) Finally, today, Sunday, the 14th, yours truly and Jim Hall (IRCA member) along with other local media people were featured in a story (in the Pgh Press) about our beloved hobby, DX! Entitled, "Let your AM Dial", it discusses the simple magic and the catches of listening to AM radio, from the "casual listener" to the "dedicated hobbyists" (us!) "spinning" the dials. The writer, Peter King, gives simple descriptions of QSL'ing, related ways of reception (ground, weather), what can be heard, and what is hard on clears, mentions of a few long-distance receptions from Jim and me, a quote from NRC'er Al Resnick about reception in Scandinavia and "halfway around the world" of WLS, and I have even attained a status of "a walking science library on wx conditions, time zones, and station tests!" During a phone interview a week and a half earlier, I guess I talked his word processor (ear) off - hil King went to Temple, but I forgot to ask if he saw the *DX News* in Temple's Paley Library. He found out about Jim and me from ANARC. While this part of the paper may become the bottom of a bird cage or used to wrap fish, I'll cherish it as my "claim to fame" and send it to Mike, so you'll all enjoy. I've made it on radio, now in the paper, next - TV! 73's to all!

Ernest Cooper - 5 Anthony Street - Provincetown, MA 02657 (617)487-9337

Recently, I have seen, and undoubtedly you have, too, SWAT teams in action, on TV, storing a hi-jacked plane on the ground, or dashing into a building, rifles and/or bayonets in hand, to free hostages, or used to clean up pockets of resisting guerilla forces. I don't feel that the mainstream of the NRC is in need of a SWAT team to keep us under control, and I would respectfully like to recommend that our SWAT team find a different name under which to operate. SWAT teams are associated with killing, and while I realize this was started a couple of years ago as a joke, I think said joke has worn thin, and this "inner band" ought to rename themselves. Or simply disband and become again just "ordinary" members like the rest of us. My other gripes have already been stated, that of late *DX Newses*, *DX Newses* with the most important sections missing, and too many "Look How Smart I Am" articles that go right over my old-school head. My theory on DX'ing is: get the best receiver and antenna you can afford, and if you will simply turn it on, twist the dial for about one minute, you can tell all you need to know about DX conditions at that time! Get yourself an NRC Log, make additions to it like station slogans, or as some call them, "non-ID's", and get a World Radio Handbook, and if you can afford it, an up-to-date Broadcasting Yearbook. Incidentally, every AM and FM station in the U. S. A. and Canada is listed therein, complete with addresses, names of important station personnel, and the telephone numbers of each station, so if phone numbers are to become an addition to the next NRC Log, all the author has to do is to get a Yearbook and he'll have all the phone numbers without having members send in phone numbers of their area stations. Around this neck of the dunes, WJLC-1170 has changed to WKPE, and now merely echo their FM with AdCon all day, thus wasting one of the only two AM channels available to Cape Cod. WKZU-1350 Laconia NH has changed to WBRB, and to oldies, and wonder of wonders, has verified! Thanks to tips from Stan Morris and Howard Kemp. A nice v/l is in from WQIQ-1590 test, signed by our own Dave Schmidt, with BS and CM, and WPKX-730 a v/f and CM, and a v/f and Certificate of Verification from WZAL-1540 test, nice! Also handwritten v/l's from W02W-710 and W3HW-1110. Forward - March!

Peter A. Nolan - 12002 Chimney Rock Rd. - Houston, TX 77035 (713) 728-3475

Please note the new address ... for the time being, I'm still working in Galveston, and commuting each day (about 120 miles round trip). Along with other positives and negatives, the move means punting those great beach DX conditions (though I'll probably still take my TRF along in the car from time to time to see what's coming in); while the stronger signals in Houston for the local AM's will be a nuisance, the real loss comes in FM DX. The new house is 5 miles and volumes of multipath away from the Senior Road tower, a 2000-foot behemoth used by nine local FM's. Oh, well! While I realize how difficult it is to crank out a publication on time each and every week, and the work that goes into it, I have to agree with ERC's recent comments that the lack of consistency in column appearances in DXN this past winter was disturbing. It seemed like at least one column was missing almost every issue; and, while mail is slow and column editors are volunteers with other things in their lives, those circumstances have always been present! Let's hope for better next season. On to "recent" DX, times EIT: 2-21: two previously unnoted groundwave surprises at 5:30, with WVOG-600 New Orleans in u/local KILT-610 splash ID'ing between religious programs, and KNIR-1360 noted under local KBUK with csw. The winter groundwave amazes me on the beach - those were two of the few remaining stations between New Orleans and Matamoros, 400 miles in each direction, that haven't been heard during the day. All of the ones left are blocked by locals. KNIR was a 700 heard, too. 2-21: 7:15 pm KGRO-1600 s/off u/KBOR/KOGT noted for call change. Also that evening Cuban "Radio Victoria" noted under pest XEG, first time heard (or at least noticed). 2-25: I signed off KGBC-1540 Galveston at midnight, went out to the car, and ten minutes later logged the WZAL DX TEST. 2-26: 7:41 am finally heard the new WBO-1040 with oldies and Tampa traffic, only after everyone on the west coast seems to have logged it! 2-27: 6:17 pm among the usual mess on 1420 at sunset, "News-Talk 14-20" WOC with sports and weather for the Quad Cities. 3-3: 6:30 while on the KGBC shift at sunset the station was off the air briefly, and who should come in on the studio monitor (namely the portable radio I take to the station with me!) but KJQQ-1540, never before heard, with one of the funniest slogans I've heard in a long time: "Music for the Hispanic of the '80's." That's on cart, in English, in an otherwise SS format. 3-12 12:12 am finally found the waited-for call change on WWQ-1430 FL, to WKSD, with an adult standards/MOYL type format. 3-14: Several new ones heard: 6:15 am the sign on of WRIQ-1560 FL, with a mention of 5,000 watts power and WTAL already in strong over them. 6:47 and 6:52 am bagged the still-needed f/c's of KPSO-1260 and KPMN-1560 respectively. Finally, at 7:00 WHIL-1570 boomed in with a s/on for the AM and FM (WKY-93.5). A last comment: I was surprised to read Paul's mentions of my very part-time employer, KGBC-1540 (I help out with a Sunday airshift and some miscellaneous production and format coaching), as one of his all-time favorites. It's quite a station - a real throwback to the 50's in terms of format (block-programmed), equipment, and most of the station's staff. The station survives with a strong reputation for local news, and retail clients

that go fishing with the GM or Sales Mgr on weekends. It's one of the few ways a local station CAN survive in the shadow of a major market (in this case, Houston). The other Galveston station, KILE-1400, tries to sound like a big-time station but sounds ridiculously pathetic compared to any of the Houston stations - not surprising as they bill more in an airshift than KILE does in a year! By the way, KGBC's schedule for those few people who still need to verify them: 0600-0000 (CST) Monday to Saturday, 0700 sign on Sunday, s/off comes between 2230 and 0000 depending on which preachers haven't paid their bills ... old-time MoR days until 6:30 pm, the 90 minutes of Chicano programming, then Black 8:00 pm to midnight s/off; religious Sunday until noon and again from 7:30 to s/off. The station has no playlist of any sort, so DX reports must contain commercials or other local program material (PSA, announcer's name, etc.) to be verifiable! Oh, yes, ABC Information news on the hour. 73's.

Patrick O'Connor WDXLD - Plain Road, Box 377 - Hinsdale, NH 03451

Now that the DX season is slowly drawing to a close, I thought I'd take a moment and reflect back. First, to Ernie Cooper: By golly, you're right on the WPIM slogan; I checked my "crash log" and found I had it written down properly. I wonder, did I goof when I reported, or did Dave do it? Where is Perry Mason when you need him, hi! Also, could your UNID with Silly Sally on 1490 be WKVT-VT? They are now carrying TalkNet (and recently switched format to news, nostalgia, and talk) at night. On the DX front, things have slowed down recently. Finally caught WFBP-MD in the clear; normally WAVZ-CT blocks that frequency. Sunset DX has brought in WABS-VA 780, WFST-ME 600, and a second logging of WLIX-NY 540. April 15 saw 3 new ones added to the log: WINY-CT 1350 coming through WQRS-NH (ex-WKZU). This was a violation of Murphy's Law - he faded IN during ID and talk, faded OUT when a record was playing! (See what happens when you live right? -pls) That was followed by WZON-ME 620, barely through WMT-VT; there was no ID, but local advertising was good enough to try for a QSL. The last one was WDLW-MA 1330, arguing with WNYM-NY; fortunately csw mx is easy to separate from talk! Also caught just an ID from WGAN-ME 560, but interference from WBYN-MA prevented getting enough data for a report. QSL's have been scarce lately; best so far recently is WCGY-FL with another T-shirt; also a three-tone whistle from WNEH-MA. Otherwise, veries are scarce. As for gripes ... I have none for NRC; also, I realize that most broadcasters are doing the best they can, but I would like to see just a FEW more veries in the old mailbox ... might as well sign out for now, as the UTES are popping and I want to increase my QSL collection. 73 and gud DX to all!

Radio Roundup

Pete Kemp - P. O. Box 73 - Bethel, CT 06801

Greetings all ... WE ARE THE WORLD begins this Musing. On Good Friday, April 5, at 10:50 (Eastern Time), radio stations all over the country and many places overseas began playing the hottest record on the charts today. At the appointed time I grabbed my handy TRF and began a quick bandscan. The results: 33 stations in the area playing the song and 11 not participating. Even all-news, classical, beautiful mx, and Muzak broke format to become involved in this musical broadcast. Some estimates of the number of stations taking part in this event range up to 5,000 nationally. The VOA also beamed the song via the shortwave frequencies. National and local TV news focused upon this happening, with numerous shots of local stations taking part in this international event. As a follow-up to this type of activity, WESTWOOD ONE, a major radio program syndicator, is planning a three-hour special program, on April 21 (3:00 pm Eastern), entitled RADIO USA FOR AFRICA, featuring top DJ's, such as Scott Muni, Scott Shannon, Dan Ingram, et al., as well as the hot superstars of rock. Westwood is distributing this program to any station interested, not just their "regulars." ... You can't tell your players without a score card in Dayton. WAVI-AM is now WASN-FM. WDAO-FM is now WDAO-AM on the 1230 spot, programming Black-oriented music. They are also petitioning the FCC to extend their operating time into the evening hours ... KQED-FM is linking up with Radio Moscow for a three-hour special program on Space Weaponry ... WBZ's new meteorologist is Lou McNally. This coveted spot was formerly held by Don Kent, who will soon be heard on WHDH. It is interesting to note that Don does these broadcasts from his home in New Hampshire ... In the City of Brotherly Love, WFAN-AM will take on all all-talk format, if the new owners win FCC approval for its acquisition ... WKDJ, in Memphis, has been sold. Its format is changing to Adult Contemporary and its call letters to WRVR ... RKO is axing its all-night NIGHT TIME AMERICA program as well as its PEOPLE MAGAZINE MINUTE segments ... If you were a radio personality on the air prior to 1960, then Chuck Thompson (P. O. Box 11652 - Houston, TX 77293) is looking for you. He is associated with they Yesterday's Deejays Association ... while on the subject, KABC alumni are being sought by the station to help them celebrate their 25th anniversary ... Dick Enberg is back on the radio in California doing baseball play-by-play, after an absence of 6 years ... Westinghouse's WINS is celebrating its 20th anniversary as an all-news station. The station has a long history in New York. Originally WGBS (owned by the Gimble Brothers, of department store fame), it was bought out by William Randolph Hearst, as the flagship for the International News Service, hence the call-letter change to WINS. It was a rocker during the fifties and early sixties, featuring such DJ's as Alan Freed, Murray the K, Bruce

Morrow, Jack Lacey, and others. Stan Z. Burns, formerly known as "Stan the Request Man," is still with the station, as is Brad Phillips, both now news anchors. Gone are the days of "10-10 WINS New York", replaced by the sounds of "You give us 22 minutes, we'll give you the world." ... Bridgeport's WNAW was slated to go off the air for transmitter modernization and testing April 20, midnight. Staffers have been very concerned that this blackout could become permanent. The station's financial problems have been well-known for some time ... The Capital Cities/ABC deal will precipitate a number of changes, due to the FCC regulations concerning property ownership within a market and the 12-12-12 rule. Many stations will undoubtedly be sold, both to raise capital and to meet the ownership regs ... After many years as the Dean of Weatherpeople (! -pls) in Boston, Don Kent is retiring from WBZ-AM. He has been with the station for many, many years and had established a standard of excellence for his peers and the industry ... International types may note that the number one AM radio station in South Africa is Charnel 702, from Bophuthatswana (one of the South African Homelands) ... February Arbitrons for Boston have been released. The AM'ers line up in the following order: WBZ, WHDH, WRKO, and WEEI ... Can't believe that we are now on a bi-weekly schedule. The winter season has flown by. All my best intentions for getting more time for BCB DX'ing have evaporated. I do manage to keep my Musings up to date, however. I have spent most of my limited radio time doing amateur radio activities, being active on RTTY and recently getting into slow-scan TV and packet radio modes. This summer my students and I will be attempting to communicate with the Space Shuttle, so have been busy preparing for that experiment. Have ordered a vfh converter for my Kenwood-R2000, so will be exploring still more avenues of communications. So much for now.

Bill Townshend - 4500 Conn. Ave. NW #901 - Washington, DC 20008 (202) 966-8046

Greetings from Hoyaland. Three of the Final Four, including the Hoyas, are from the very tough Big East. By the time this hits print, the Hoyas will have another NCAA title under their belts. I went to Georgetown Univ. from Sept. 1949 thru Jan 1951, although I got my BS in physics from George Washington Univ., 3 km to the SE in Feb. 1966, studying at night while working fulltime. I still have my old DX log from Nov. 1949 during my freshman year at G'town. My rig at that time was a five-tube table model RCA Victor set which went from 540 thru 1720 kHz. I used to get police calls at the top end; now cordless phone conversations can be monitored at that end of the dial. Boy, did Jack Frost and Old Man Winter kick us in the @#\$'s with a kung-fu chop. We were then paying dearly for the hottest December ever. Only 23 days after 77 degrees F/25 degrees C on 12-29, I saw -6 degrees F/-21 degrees C (the coldest I have ever seen here) while I was going for WQOM-1300 Princeton, MN, which I heard tentatively. Thank gosh I was inside. Anyone who would stay outside for several hours in the face of the wind (in the upper midwest, which makes DC bikini wx by comparison) with -30 degrees temp and chill factor of -110 degrees F (dry ice temp without wind) listening to seemingly unintelligible gibberish has got to have some diodes shorted, hi. The chill factor of -40 degrees here scrubbed the inaugural parade but a month later it was back up to 78 degrees F/26 degrees C as I "chased a bikini" on the roof sundeck, just 16 steps up from my top-floor apartment. CX were pretty much auroral during that severe cold up until 2-21, but coincident with the bikini wx was an opening to the west and north. The auroral cx seems to have lifted for the season. Maybe AU cx is a peculiarity of winter, at least this season, as openings to the west and north seem more numerous in spring and fall than in winter. DX'ing ought to be quite interesting next winter and spring with Halley's comet in our neighborhood, especially if there are abundant meteor showers with some effect on propagation. I saw West's comet in the predawn sky on several mornings in March 1976. Judging from what I heard and saw so far about Halley's I think Halley's will be a letdown after West's. I may go on a comet expedition next spring to DSA (Argentina or Chile; it will be fall there with the comet better placed in the predawn sky than it will be here) for two weeks and DX on the side like I did on my last trip to South America in early 1982. The Sony ICP-S5W is back in the repair shop again as an intermittent has developed in the audio circuit. I'd rather have the set go plumb dead than have it intermittent, like losing a FB or BKB game while trying a winning play instead of settling for a time for forcing overtime. CBS's Warner Wolf would agree; I used to hear his sports call-in shows on WTOP-1500 in the 1967-74 time frame and even heard him on that station while vacationing in Jamaica in March 1973. I hope to have the rig out before this summer's FM DX season and next fall's BCB season. I used the old standby, the DX-160 this past winter; I bought the rig in June 1977 for \$140, which was \$20 less than the list price, after I got back from two weeks in Spain with the Navy. The next Musing will be my re-intro. Gotta run. CUN14 or 28. LXXIII and good DX (not 510, hi).

Ed Mitkus - Route 2, Box 108 - Zionville, NC 28698-9621

Please note address change. We now live in the mountains, and plan to stay here. Makes for great DX'ing, only local is 15 miles away in Jefferson, blocked by a mountain to some degree. For you mapahounds, we're in nw NC, 2 miles from the NC/TN line near US #421. I've missed all of the fun with the theme Musings, so time to catch up. DX tip - to improve TV reception (or to have any at all!) I put up the standard TV antenna with about 250' of wire and a ground. My wife hooked the antenna to the RP-2600, and helped me log 10 stations at sunset in 2 hours. The darn thing works great on AM! I was going to run some type of

wire for AM, but I'll hold off for now. Give it a try - maybe it'll work for you. My 3 most wanted unheards would be (not stations but states) Maine, Oregon, Washington. Three (oops, four) favorite air personalities: Larry Lujack (WLS, WCFL), John Landecker (WIBG-990 Philly), Brock Whaley (NRC member, now in Hawaii)(WFSO-570 St. Pete, FL), and Sam Tate, WOIX-1510, Blowing Rock, NC. This also says a lot about my favorite stations. WABC (late 60's), WLS (early 70's), WFSO-570 St. Pete (late '70's), and WOIX, Blowing Rock, '80's. All of the above have one thing in common: a unique sound, as to bringing the listener into a "family", making him/her feel a part of the station. So much FM nowadays sounds so sterile ... Jocks and music interchangeable from city to city (in some cases, not all). I'm lucky; I have tapes of those 4 stations above. DX as of late - lots. Highlites: WEAL-1510 Greensboro, NC 3-8 at 4:30, w/o WOIX semi-local. WSIX-980 Nashville w/o WPHG Bristol semi-local. 3-4: 7:15 pm - WADE-1210 Wadesboro, NC hrd. over WCAU 3-4 6:20 pm. WJMM-970 Athens AL held freq. for hour and half 3-2 6:30-8 pm. Good country mx on this one. With Cuban reduced, heard KGGF-690 Coffeyville KS 2-25 11 pm with nx with WYZO Dobson NC and WQGL Lancaster, SC (pests) both off. Logged WIOD Toledo 1560 3-23 6:45 pm. Best catch WCVL-1550 Crawfordsville IN 3-23 pm 7:15 pm with weather. 250 watts, new GY'er WKIT Charleston, WV 1490 very clear ID on this one, 3-23 11:15 pm. Best to all, 73's.

Mark Connelly - 30 William Road - Billerica, MA 01866

A familiar old call, WMEX, has returned to the Boston airwaves. Unlike the WMEX of '50's and '60's fame, this version of WMEX is on 1150 kHz instead of 1510 kHz. Broadcasting on 1150 started on Sat. (16 Mar); the 1150 channel had been quiet since the demise of WHUE about two weeks earlier. During the Daytime while 1150 was vacant, I could get a mix of WCNX (CT), CHSJ (NB), and WQMR (ME) from Billerica and CHSJ (NB) over WDEL (DE) and WQMR (ME) from West Yarmouth. At night several Canadians shared dominance at Billerica and the Venezuelan "Mundial Caribe" was tops at W. Yarmouth. The "new" WMEX uses the former WOPF/WAOQ/WSNY/WHUE-1150 facility on Concord Avenue in Lexington, MA near the Belmont town line. It is a fresh-water marsh area with a fairly low horizon to the southeast towards Boston but with varying degrees of hill blockage in other directions. The transmitter site is about 9 miles from downtown Boston. Three towers are used to beam a strong signal to the southeast; little signal goes in any other direction. A fourth (taller) tower was used for 100.7 FM, but the present 100.7 (WKRT) emanates from a different site, probably from the Needham Heights TV tower farm. Today's WMEX features oldies of the '50's and '60's. Although the DJ's don't offer much in terms of personality, it's still good to hear rock 'n' roll on a Boston AM station once again. Popular slogans like "the heart and soul of rock 'n' roll" and "music you grew up with" are bandied about. In general, the philosophy is to maximize the music and minimize the talk. The old WMEX operated on 1510 from North Quincy, MA (a coastal site) and could be heard regularly in Europe. Arnie "Woo Woo" Ginsberg was the best-known WMEX DJ in the late '50's and early to mid '60's. 1510 later became WITS. It moved its transmitter into Waltham (about 6 miles inland) when high-rise buildings rendered the N. Quincy site ineffective. WITS-1510 then changed calls to its present WMEX. With 50 kw, WMEX-1510 still gets to Europe and Africa. The new WMEX-1150, on the other hand, is not likely to be logged in any foreign countries except, perhaps, Bermuda and Canada. 1150 is a rather crowded regional channel and 5 kw doesn't get too far on it. Because of WMEX's deep null to the west, getting WMEX-1150 should be quite a challenge for most U. S. DX'ers.

Neil G. Zank - 623 Lyncrest Dr. - Lincoln, NE 68510

I am going to start off with my own Musing theme this time. That theme being what tunes have been heard most on the air during my DX'ing career. I say they would have to be - "Star-Spangled Banner", various; "Convoy," C. W. McCall; "Wreck of the Edmund Fitzgerald", Gordon Lightfoot; and "You Light Up My Life", Debbie Boone. Why, I remember times when one could hear these tunes continued in a tune across the dial, hi. Next on to a cry for help! Bob McCoy and I have discovered a mystery station to us. There is a weak signal heard a number of nights on 540 kHz. It seems to be CBC French network programming running AN, classical, orchestral, and light jazz music with occasional FF announcements. It has never been strong enough to glean anything from the announcements here. Bob has followed it long enough on one occasion to see it wiped out by CBK sign on towards dawn. Does anyone have an idea to help us out on this one??? DX has been scarce for me lately. On 3-7 noted KSNO-1260 Aspen, CO with TT and ID, suppose this was their RC. Finally received a verie from WQPM-1300 for their DX test. WZAL-1540 noted on DX test with decent signal under KXEL on a casual check, unneeded as varied in Oct. '79 for SRS reception. I often catch Wayne Heinen's Medium Wave Interlude over HJJB on Sat. evenings here. Not too impressed with the ANARCON room rates listed for this summer.

Dan Baggett - 1567 Concord St. - Framingham, MA 01701

Time to check in again with some hopefully interesting items. The 1150 spot in Boston is back on the air as of mid-March as an oldies station with the call letters WMEX. Most of us in the northeast remember WMEX on 1510 up until about 10 years ago. Power and antenna are the same with some confusion as to when to switch to the nighttime antenna pattern ... I note with some interest the station WOGY-850 in Florida, because there is a WOGY-93.7 FM here in Massachusetts (actually WOGY-FM, according to FM Atlas; -FM is part of

the call letters -pls). Between this and some of the new frequency allocations it looks like the chaos on the broadcast bands would be the same but a lot less expensive if the FCC spent their time playing darts! ... WPTP-1060 Natick, MA is 25 kw days - I heard them say so. This explains why it is weak for 50 kw ... WGSX-1430 is on with 1 kw nights but it's hard to tell from here, 20 miles west of the station ... WARV Warwick, RI will be on fulltime with 5 kw U4 sometime this year ... When WKOX goes to 10 kw on 1200 it should be the second-easiest MA station to get west of New England. I'll have to get a receiver with better dynamic range than my DX 302, which has enough trouble with WKOX at 1 kw, 3 miles away. As it is, I can get WNEW NY only on my Superadio during the day. I just got a flyer saying the Radio Shack version of the Superadio is on sale for \$50.

Bringing Back a Memory

Gene Martin - 3303 East Evans Ave. - Denver, CO 80210

From his matchless DX'ing location in Hawaii on March 5, at 7 pm his time, Dr. Richard Wood reported hearing LRL, Buenos Aires, on 1070. He mentioned the music was mostly tangos reminding me that I have a lot of memories about that station extending back into the late 1930's. I gave up DX'ing the BCB in 1932, and for years didn't even own a radio. In 1938, though, I acquired an 8-tube General Electric receiver, AM plus the shortwaves, and before long I had discovered LRL in the 31-meter band. Don't believe they called it Radio Mundo in those days, but they did call it "El-airy-uno en Buenos Aires". And they filled the air with this utterly thrilling music of the tango, which I learned to love then and I still do. Tango music, as they perform it in Argentina, is nothing like the pale imitations of it that you may have heard occasionally from the likes of Vincent Lopez or Lawrence Welk.

The Argentine musician performs tricks on those little lap accordions that put Welk's accordionists to shame. They are alive where his are half-dead. So you can put me down as a long-time aficionado of Argentine tango music as they perform it in Buenos Aires. So one night in 1946-47, I think, I was at home in Cincinnati listening to LRL in the shortwaves. The phone rang and it was a call from a radio survey outfit, wanting to know what station I was listening to at that minute. At that time, I was working in WLW's news room, and the girl on the phone was expecting me to give her one of the Cincinnati stations. I knew she was set up for that and had them all listed on the pad in front of her. Knowing full well I was wrecking her survey and relishing the opportunity to do it, I said to her, "Now you take this down. I am listening to station LR-one, in Buenos Aires, Argentina". Never before or since have I received that kind of telephone call. And I have no idea how that radio survey tallied that fellow in Cincinnati caught listening to Buenos Aires. Maybe I was put in a miscellaneous category. I logged LRL-1070 a couple of times maybe ten years back, and I haven't heard in recent years any shortwave service from Argentina that does justice to tango music.

Dick Truax - 3003 Gleeson Ln. - Louisville, KY 40299 (502) 491-2871 EST

Greetings once again from the Bluegrass State, where the grass is getting green once again. For a change there is a little bit of news from this end. First of all, KPF-941 on 1622 from Yonkers, NY has been heard here at least five times. The best so far was 3-24 at 10 pm. Report sent and verie received already. Heard several times since - it cuts through those beacon carriers well - in fact, on several times it was as strong as the 1610 Caribbean Lighthouse station. If it makes it this far West, it should be a snap for anyone east of the Mississippi. Try for it. And, on April 5 at 5 pm, local WHAS-840 lost its tower to a bad windstorm. It was off from 5 pm till after midnight, and then back on 4-6 with 700 watts fed into a longwire. I understand that it was heard in Ohio and W. PA before sunrise. Off again at 12:55 pm, it was not back on until sometime after midnight 4-7, this time with 1,000 watts into a temporary 70' tower. It gets out better (can hear it across town now - it was difficult on the longwire) but I can still copy KOA-850 and WCCO on the car radio with no slop at all. Also logged two new stations: 4-6 new WLAND-830 OH heard with ID and csw mx 6:10 pm and on 4-7 WKBZ-850 MI with music and ID 10:35 pm with KOA nulled. I had tentatively heard this several times before with WHAS on with 50,000 watts, but this clinched it positively. WHAS is very easy to totally null now - will be trying for SSS a/offs while they are on low power. They hope to have a 200' tower up temporarily and be up to 20,000 watts in a week or so, so by the time this is read they should be more audible. It will be several months before they get a new permanent tower up and back to full power. I took several pictures of the tower - what a jumbled mess. If they they turn out I will send in for publication in a future issue. Hopefully somewhere in this issue (or next?) DXchange will list several items I have available. A last-minute addition is the one-of-a-kind HQ-150 modified by Bob Foxworth as detailed in the NRC Receiver Manual. It is truly a BCB DX'ers machine with many extras - call or write me if interested. It's in perfect operating shape - just don't have the room in the shack to keep all the gear any more. More as it happens ...

Dick Clark - Apartado 273 - La Vega - Dominican Republic

Hi all, it has been quite some time since my last report. I have been inactive on BCB DX for quite some time, because of satellite TV DX. Well, I see some changes on BCB.

Radio 91 on 910 in Bonao is new and Radio Studio on 600 in Santo Domingo as well. Radio La Vega is now 870, ex-910. La Vega and Radio Progreso, HIBC in San Francisco, went off the air and a new station, Radio Punto, took its place on 1250. Now, up in the Santiago area Radio Aguila, ex-Radio Popular on 770 (HIMD) and Radio Accion are still on 1530 with open carrier for 3 years!! Maybe someone forgot to turn them off? I had hoped to go to Pittsburgh, PA to see all my friends, but I see that may have to be in December. I've been trying to get ex-member John Shannon of WPIT back in NRC; still he is interested in LW DX only. 73's.

Wayne Beinen - 4131 S. Andes Way - Aurora, CO 80013 (303) 699-6335

Hey gang, many thanks to my plea for a Q-Multiplier repair assist, on line in 6 days. Thanks to Dick Truax, Barry Finkel, Jack Woods, and Tom Farmerie. It REALLY PAYS to be a member of the NRC! This should hit as I begin year number 21 with the NRC. A re-intro to those who may wonder what kind of nuts do BCB DX from Colorado. I'm 35, married, no kids (yet, she says) and have worked for 7 years as a real estate appraiser for tax purposes in both Colorado Springs and Denver Metro. Lifetime totals, 1191 reported/1028 verified; lifetime 86.3%. Most recent verie is CJCY-1390 on a f/up of an 11-81 report to the new v/s. Everyone veries, sooner or later. Equipment consists of an R-390A with a Q-Multiplier attached and a 4' NRC loop, 15" ferrite Radio West MW-1 loop and two LW's. I was also one of the '60's "Buffalo Gang" (a la Rader, Johannes, Juen, Lyons, Neff, etc.) till my move here in 1975. With the advent of my new house (sans yard) and the work that goes with it, I think I'll have a rather inactive summer (at the dials, that is). Till then, 73

John Clemmer - 4524 7th St. - E. Moline, IL 61244

While in LA on vacation I attended Paul Swearingen's GTG on March 31. I had a great time chatting with everybody about LA radio, DX'ing in LA, etc. LA radio was very good even if most of the action is on the FM side. I particularly liked KNX and thought they sounded better than sister WBEM. KRLA was great, too - they are now all oldies and have a bunch of DJ's on the air including the Real Don Steele afternoons. KIIS-1150 simulcasts KIIS-FM from 6-10 am and 2-6 pm. KNNK-670 has very spotty nite coverage of LA. Driving from Big Bear Lake into the Lucerne Valley, I noticed that the AM band is almost dead. KFI was one of the few stations audible in the car. KBBV-1050 Big Bear Lake had very poor coverage; they were simulcasting with their FM, running a soft rock format. WLS in Chicago is celebrating 25 years of rock and roll. Old jingles and bits are being broadcast and starting 4-12 a series of reunions are being held, featuring former DJ's from WLS's past. It should be a real treat to hear some of these announcers again. Locally, KORK-1580 is now AC, dumping MYL and is now KISS. KXIC-800 uses the "AM 800" slogan quite a bit. 73.

Steve Francis - 1620 Lodge St. - Alcoa, TN 37701

I visited the studios of WGMN-1120 on 4-8 and spoke with CE Bob Henry, who said they'll be Southern Gospel, 500 watts (not the listed 5,000), and that their targeted air date is mid-May. An impressive operation; new building, state-of-the-art equipment and AM stereo capability. Their address is 2537 Old Knoxville Highway, Maryville, TN 37801. /// DX since last Muse includes CKTA-1570, heard 4:20 am 2-21 with oldies and "1090 Check" ID's (they relay CHEC-1090). They've been noted weakly in CHLD's null nearly every night since, XERF still being silent after 4:00. Canada #5 here on 1570. WARO-540 PA very weak but mostly alone 6 am 2-22 with SSB and s/on. Long-sought WDKD-1260 TN was finally bagged 3-16 at 7 am with legal ID during probable s/on. SM 3-17 brought WSOL-1370 SC at 6:50 am with Black/gospel and good signal. MM 4-1 turned out to be a field day on the broken-down clears, beginning with WWSL-640 OK, noted weakly with c/w at 3:47; both WHLO and Cuba seemed to be off. WJTB-1040 OH was fair/good w/o WHO/WSKE at 5:52 with Urban Contemporary. 6 am, SSB and s/on from WFGN-1180 SC (ex-1570). Their fine signal was covered by an equally strong one - the brand-new WSAF-1180 GA - at 6:15 s/on with mention of RKO and Georgia Network affiliations. Both of these had an AC format. The test from unnn WZAL-1540 on 2-25 was heard with difficulty u/KXEL; no sign of a test from KCTA-1030 on 4-15 from 5-5:30 am. Probably a no-show, as they usually blast in here around sunrise on RS. WFTO-1330 is now 5,000 watts per s/off. Happy summer!

Andy Rugg - 669 de Gaspé - Apt. 218 - Ile des Soeurs, PQ H3E 1J1

Since my last Muse, a little more DX has trickled through. At 1:00 am on 3-10 I stumbled across the s/off of WKIP-1450. Then on 3-19, CKAN-1480 topped the channel from 1:02-1:20. Finally, on 4-13, WXXI-1370 battled it out with WFEA from 1:54-3:06 am (I had to wait over an hour for an ID.) Veries are WZON-620 and CKAN-1480. Canada's postal rate to the U. S. will go up to 39 cents on June 24. I will definitely be at the Rhode Island convention. 73. (That's fair warning, hi! -pls)

Rhode Island vs. New Hampshire

Bruce A. Conti - Appleton Gardens, Apt. 5 - New Ipswich, NH 03071

Check out the new address. I've moved out of RI, and I'm now officially a resident of the Granite State! There's a big difference between DX'ing in NH and RI. In

RI, there were always good openings to the south at sunset with stations like WFNC and WCIK on 940; WQVA, WYAB, WRBA, WYDX, and WRHC on 1550; and WPGC-1580 coming in on a regular basis. Those conditions don't exist up here in NH, mainly because the Canadian stations quickly dominate the best sunset frequencies. While the lack of a water path and poor ground conductivity may also contribute to preventing many signals from reaching up here, this also works to my benefit. Cuban stations are no longer a problem, and I have no local pests! WFEA-1370 was more of a pest in RI than they are here in the mountains of NH. The only stations that give me any problems with splash are WBZ-1030, WTOP-1500, and of course WPTX-1540. WTOP comes in extremely strong, and can be heard as early as 3 pm. The night pattern book has WTOP's signal going out to sea, but not with a tight pattern, allowing good coverage of the Atlantic coast. Between the skiing lessons, and getting settled in a new place, I found time to partially assemble the APT-3, and it does wonders for a short-wire antenna. Noise levels are fairly high in the apartment building at night. The building is all-electric, including the heat, which probably generates most of the noise. I haven't had the chance to run a wire away from the noise, but hope to soon. I hope to see everyone in RI for the '85 Convention. I've got an RI "BCB DX" license plate for the auction, a perfect souvenir to display in your DX shack! 73's.

Russ Edmunds, WBZBJH - 753 Valley Rd. - Blue Bell, PA 19422

Hello again, troops, and here's another Musing from this inactive soul. Just wanted to pass on that I'm taking a more active interest in propagation again in light of my VHF amateur activity, as AU, ES, and so on are also vital there. Anyway, I'll pass along a few predictions based upon a recent study circulating thru the ham community of VHF, the author of which happens to be a friend of mine: Look for best BCB cx on Friday and Saturday nights for the next 2 or so months, and also look for a major aurora sometime between July 15 and 20. So far the medium-to-short-term predictions look fairly good, but there haven't been any major auroras to check it on of late. I've finally resolved a few dilemmas about getting back to activity here: 1) I'm not going to start a new log, as all 4 of my NJ locations and this location are within a 50-mile radius from a central point; 2) I'm probably going to limit my reactivation to Int'l and GY DX at least temporarily; 3) I'd better do it now, as '85-'86 looks to be the minimum of this cycle from where I sit; 4) I'll stick to my time-honored (by me at least) standard for counting frequency changes on foreign DX to the question of whether or not the reception cx are substantially altered by the change. Obviously going from a 5 kHz split to a 2 or less is substantially altered (generally) and a move from a 5 to a 3 or a 6 to a 3, etc., is not (again, generally). The shack project is about half done now, with almost all of the electrical work and framing-out done. If I can just get up the wallboard, build the table, and set up, I'll be ready by fall. Hope to CU all then. 73.

Richard E. Wood, Ph.D. - P. O. Box 5074 - Hilo, HI 96720 (808) 966-7091

The April Pool's material was allegedly confined to the first 12 pages of DXN 52-24, but how about this on p. 20: "1206 FRANCE San Luis Rio Colorado XEMW"? Of course it should read 1260 MEXICO. Also under 920, Paraguay, R. Nacional gave not a "dull" ID but a full one; actually, it was quite lively. Speaking of lively, conditions are really popping to locations south of the equator now that winter is approaching there. Checking over my latest report to IDXD I noticed that everything was from south of the line, including Chile, Peru, and Ecuador, with one marginal exception, Mersing, Malaysia-1055 which was country #71 for me. That's nominally on 1053, luckily separable from the superpower North Korean quasi-clandestine V. of Reunification on 1053. Reported. Namibia is getting better and is in longer now; in for some 40 minutes and reported 14/17. At sunset skip, Chile, Peru, Ecuador, Brazil, and Uruguay dominate many channels; later, the U. S. mainland takes over. Speaking of deep South America, Paul Ormandy of NZ organized a highly successful DXpedition there which greatly augmented the figures of NZ loggings of South America, including many deep South America, specified in my recent DXN article. He heard one of two of Brazil, that great rarity in NZ; still on Paraguay or Bolivia; but masses of Argentines, several Uruguay, Chile, etc. Still Paul agrees that the basic point made in my article is perfectly correct - northern South Americans, especially Colombia, dominate in NZ, and they don't dominate in HI, but are only on an even basis with the rest of South America including Brazil. I should have a lot more to report from my favorite continent within a few months as I have bought a building lot at the south of this island which should be perfect for S. America and the S. Pacific but has horizon blockage to parts of N. America. Honolulu may be more of a problem there, but on a car radio, Hilo is inaudible. I suspect I will get a whole slew of new stations. All this is keeping me busy here and, especially when I see the room rates for Labor Day in Portsmouth, RI, I increasingly doubt that I will make it to the mainland this summer. Static levels here remain strikingly low and it may be a hot summer for DX. Here's a question for NRC'ers in the Southern Calif. area: who runs classical on 1240 Sun. evenings? KPCC? The log gives no format for them. Aloha. (No classical heard here 4-21; in fact, no KPCC; I believe that they run only paid REL -pls)

Steve Kennedy - P. O. Box 402 - Waverly, TN 37185

Howdy y'all from the Tennessee Tuner. Several items this time around ... First off, those NRC'ers who have contacted Dick Truax on locating items of interest at Ham Flea Markets ... we owe him a big work of appreciation! Dick and I have corresponded and he has helped me locate a number of items over the years. Recently, I purchased an SB-620 from Dick, and hopefully he will find me a BC-221 Freq. Meter at Dayton-85. Thanks a million, Dick. As long-time NRC'ers note, I am sold on the "Hollow State" (tube) gear. The HQ-180 is getting a real workout this spring on the SW bands. Solved part of my antenna problem. Managed to get the owner of the apartment complex where I live to let me erect an 80' wire from my balcony to a tree. Really helps on reducing the TV birdies, especially on SW, but still have them on MW. I am thinking of building an Alt-Az loop, and an MW tuner and Phasor to tune out the trash. Maybe next fall/winter will be a different story on MW. Let me put in a plug for the NRC. After 3 years with IRCA, I am letting my membership lapse as NRC has always been my favorite DX Club ... and I note often a lot of duplication in **DX Monitor** of what is in DMN. Even when I am not active on MW as a DX'er, I still consider NRC my club ... and the people in it is what makes it so great. The DX Den is in a constant state of change. It will be listed in DMChange, but it is worth mentioning here ... I am selling my FRG-7700. The rx is in good shape, and is a decent buy. No manual was shipped when I got it, but there are no problems with it at all. I got the set with a defective power switch, but it has been replaced ... so it should be a good set for anyone needing another rx. Asking \$200.00, what I paid for it, but will negotiate best cash offer. Must sell immediately; need cash for other projects ... no room for it. I would consider a trade on a Hammarlund or Collins R-388 if in good shape.

Paul Swearingen - P. O. Box 4812 - Panorama City, CA 91412

I can't believe it, but March marked the start of my 10th year as an NRC member. I wish it had been my 20th or more, but even in 10 years I have formed more friendships with DX'ers than I ever thought possible. And that's what's important to me ... The winter Arbitrons for IA placed four AM'ers in the top ten, three of them talk or news: (1) KIIIS (CHR), 9.7; (2) KABC-790 (Talk, sports), 5.8; (3) KJOI (BFL), 5.7; (4) KBIG (BFL), 5.1; (5) KLOS (Rock), 4.2; (6) KMET (Rock), 4.1; (7) KOST (Soft Rock), 3.8; (8) KMPC-710 (Standards), 3.5; (9) KNX-1070 (News), 3.4; (10) KPWB-980 (News), 3.3. In the opinion department (in keeping with our theme), as an experiment (after reading comments by PopCom's Mark Manacy in the May issue concerning the quality of sound on AM'ers) I monitored the local stations and found that five locals had sound which is as good as anything I can hear on FM: in order, KALI (Spanish), KDAY (B/SOL), KSKQ (Spanish), KGFJ (B/SOL), and KWNK (soft rock). With not quite the sound quality as the first four, but still very clean are KIIIS (CHR), KMPC (standards), KLAC (c/w), and KPAC (classical). KWNK (rancherita) sounds clean, but the quality of the records they play drops them to #10. The three News-Talk stations, KABC, KNX, and KPWB, are hard to judge, but I suspect that KABC would rank much higher if I could hear sustained music. KRLA's (oldies) sound is flat, as is KGIL's (adult rock) (but in KGIL's favor is the fact that it doesn't splatter onto adjacent channels); and KHJ's (rock) and KPI's (adult contemporary) sound is boomy and distorted (but comes out better on car radios). KEZY (non-ID K-Praise) sounds as if nothing above 5,000 Hz passes through the tx. XETRA-690 and its hilltop companion XEPRS-1090 have absolutely no dynamics. The worst of all is KTNQ (Spanish) which is flat and consistently overmodulated; it's interesting that their FM counterpart, KLVE, always seems to have technical problems, with one cart machine almost dead in the right channel, the turntables wowing and fluttering, etc. But perhaps the best sound heard here from a 50 kw station comes from KBOI-670. All these non-scientific evaluations are made using my Sharp FM-610 and a good pair of Sanyo mini-earphones. How do things sound at your QTH? I've heard KDX-544 (or thereabouts) several times at about the same level as the LAX TIS on 530; the recorded announcements make them sound almost professional. 4-22, 11:30 PST they were airing a tape of a preacher railing against demon rock, playing Todd Rundgren songs to prove his points. Haven't heard the 830 pirate yet. 73.

R&R/Friday, March 8, 1985

GOLD FORMAT

Daniels Named PD At New WMEX

Greater Media's recently-acquired WHUE/Boston will return to the air after a three-week hiatus March 15, with the legendary market calls with WMEX. Under newly-named PD Don Daniels, who recently left the PD chair at KRZN/Denver, WMEX will be running an Oldies format similar to that of sister station KRLA/Los Angeles.

WMEX & WMJX VP/GM Bill Campbell told R&R, "We hired Don because of his past track record at KRZN. In a highly special-

ized format such as this, we need an expert. With Don originally being from the Northeast, it's a natural evolution in his career to advance to a larger market like Boston. We've got new studios and new transmitting equipment; everything will be new but the music."

Daniels told R&R, "The Oldies format on AM is exciting and lends itself to being a very visible, promotable format geared to the 25-49 adult. The WMEX calls were used because we're going back to

that era, and everyone in this town knows what a killer station WMEX was in the '60s."

Former WMEX air personality and current WKXS-AM & FM partner Arnie "Woo Wee" Ginsberg will help kick off the station, along with a visit from Martha Reeves & The Vandellas, at a local '50s club.

HAP PAGE (Handicapped Aid Program)

Sam Barto, 47 Prospect Place, Bristol, CT 06010

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HAP BID ITEMS: ITEM #734:CKEC pen,m/c.#735:CFCY (PET)pen,tan & black.#736:CHLQ (PET)pen,tan & black.#737:Radio 7(France)sticker(3x6")red,B&W.#738:CKEC sticker(5x8")red,white,blue.#739:KXLI plastic coffee mug with top,m/c-very nice!#740:RSI(Sweden)QSL card(4x8")m/c.#741:WLUP whoopee cushion,B&W.#742:KNUI (Hawaii)sticker(4x7.5")red,white.#743:Deutsche Welle sticker in BG(4x4")green,B&W.#744:Deutsche Welle sticker in German(4x4")green,B&W.#745:Radio Birmingham(UK)24 page color magazine.#746:Radio Times(UK)1979 magazine,100 pages!#747:NBC(PNG) 1975 anniversary report,100pages!#748:Radio Derby(UK)32 page color magazine.#749:Radio Sheffield(UK)22 page color magazine.#750:Radio Brighton(UK)30 page color magazine.#751: Radio Solet(UK)32 page color magazine.#752:Radio Ballam(UK)42 page color magazine.#753:KLIZ station balloon,m/c.#754:KLOS sleeveless T-Shirt(S/M)-nice!#755:DC-101 T-Shirt(M/M)-c.#756:KLOK station balloon,brown,B&W.#757:WRNO QSL card(3.5x5.5")m/c.#758:Radio Bras(Brazil) sticker(3.5"x3")m/c.#759:Radio Northland(NZ)sticker(4x6")m/c.#760:South Coast Radio(Eire) decal(5x5")red,white.#761:WXQR sticker(4x8")m/c.#762:97 Rock odd shaped sticker(3x8")B&W.#763:WLLZ metal badge"Bruce Springsteen"(1"cir)blue,white.#764:WLLZ metal badge"Van Halen"(1"cir)red,white.#765:KOME metal badge(1.5x1.5")black,yellow.#766:KOME cloth arm patch(2x2")yellow,black.#767:DC-101 large plastic drinking cup,B&W.#768:KOME sticker(8.5x8.5")yellow,black-super!#769:KODS cloth arm patch"Love My -sa"(2x4")black,yellow.#770:WDIZ sticker(4x7")red,B&W.#771:FM-Atlas-1984 edition in mint condition,over 140 pages packed with FM data!#772:NRTH 1985 edition in mint condition(enough said).#773:Deutsche Welle sticker in Spanish (4x4")red,white,blue.#774:Deutsche Welle sticker in German(4x4")red,white,blue.#775:Radio Sudfunk(FRG)sticker(4"cir)m/c.#776:KQAS sticker(2.5x14")green,white.#777:KZEU sticker(4x8")m/c.#778:KBOB decal(3.5x6")m/c-nice!#779:Radio Teen(UK)decal(2x18")m/c.#780:Radio Earth QSL card(3.5x5.5")B&W.#781:ITU sticker"120 Anos"(2.5x4")blue,white-collectors item!#782:Radio NSA sticker(3x5")yellow,black.#783:CHLQ (PET)sticker(2.5x9")red,white,yellow.#784:Radio Forth HI photo(4x6")B&W-nice!#785:4GG(Australia)"Boat Safety"sticker(7"cir)m/c.#786:Radio Cultura (Brazil)station photo(3.5x7")m/c.#787:KLEZ decal(5"cir)B&W.#788:WYPR sticker(4x6")yellow,B&W.#789:KATT decal(4x6")m/c.#790:KTEC sticker(3x11")red,white.#791:Deutsche Welle sticker in Spanish(new!)(4x4")m/c.#792:Deutsche Welle sticker in English(new!)(4x4")m/c.#793:Deutsche Welle sticker in German(new!)(4x4")m/c.#794:KOME T-Shirt(S)black,yellow.#795:DC-101 T-Shirt (L)red,white,black.#796:DC-101 T-Shirt(M)red,white,black.#797:DC-101 T-Shirt(S)red,B&W.#798:Deutsche Welle T-Shirt(M)blue,white-super!#799:RBI stick pin,blue,white.#800:Deutsche Welle cloth shoulder bag(14x16")blue,B&W-great!#801:CHLQ (PET)heavy duty plastic license plate(6x12")blue,white.#802:Deutsche Welle station pen,blue,silver.#803:Bayerischer Rundfunk(FRG) sticker(4x6")m/c.#804:CFCY (PET)plastic sugar scoop,m/c.#805:BBC metal key chain,silver-nice!#806:Radio Budapest key chain-metal,silver,black.#807:Deutsche Welle metal combo key chain w/ bottle opener,B&W-great!#808:Radio Budapest lapel pin(large)blue,gold.#809:Radio Budapest lapel pin(small)blue,gold.#810:Radio Bremen(FRG)sticker(2x4.5")m/c.#811:Evangelinas Rundfunk(Monaco)sticker(5"cir)red,B&W.#812:ERF Radio sticker(4.5x4.5")m/c.#813:Radio Veritas (Philippines)sticker(3.5"cir)red,white,blue.#814:NFW Radio(FRG)sticker(4x5")m/c-nice!#815: NDR Radio(FRG)"Walrus"sticker(1.5"cir)m/c.#816:SRF Radio(FRG)sticker(4"cir)blue,white.#817: RNE(Spain)old style m/c cloth pennant(6x11")-beauty!#818:RBI cloth pennant(6x10")w/ dark blue/purple center & bear.#819:Radio Vaticana cloth pennant(6x11")yellow,B&W-super-rare!!#820:Radio Bremen plastic covered-double sided pennant(5.5x8")blue,white.#821:Deutsche Welle sticker(FRG)cloth pennant(5x8")m/c.#822:Radio Budapest plastic covered cloth pennant(new!)(4x6")m/c.#823:Radio Bremen postcard w/ studio photo(4x6")B&W.#824:Berlin Radio decal(6x8") red,white.#825:SWF3 Radio(FRG)"Moose"sticker(4x6")m/c-beauty!#826:SWF 3 Radio odd-shaped sticker,m/c-nice!#827:RIAS (West Berlin)station balloon,red,black.#828:Radio Bremen sticker(3x3.5")blue,white.#829:KIFM T-Shirt(S-M)blue,black-nice!#830:Radio Ristatinsia sticker(3.4x4")m/c-nice!#831:Transitalia (Italy)sticker(2.5x5")red,white,green.#832:Capital Radio Milano (Italy)sticker(3.5"cir)m/c.#833:6WF (Australia)cloth arm patch(2x3")orange,blue-nice!#834:Radio Polonia QSL card(4x6")m/c.#835:VOA sticker(3"cir)red,white,blue.#836:Union City Radio(USA Pirate)sample B&W QSL letter.#837:RBI DX Club certificate(8.5x11")m/c.#838:KGEI "20th Anniversary"paper pennant(5.5x8")blue,yellow.#839:Viking Radio(UK)newspaper w/ exotic photo.#840:RTE Radio 2 paper holder folder(9x12")m/c.#841:CKSW paper holder folder(8.5x11")m/c.#842:RBI QSL card"City Scene"(4x6")m/c.#843:RBI QSL card"Painting"(4x6")m/c.#844:RBI QSL card"Childs Painting"(4x6")m/c.#845:AWR Radio(Portugal)cloth pennant(4x7.5")blue,gray.

HAP DIRECT SALE ITEMS: The following stickers/decals are \$.25 each or any 5 for \$1.00:KPFSO, KORA, KWNC, CJWN, KLVI, KYXZ, KNAL, KSAM, CFCR, WIRJ, KJTC, WXQR, KNOK, KTIM, KUHF, KVPR, Radio Bristol, WCAU (large) (small), KLOL (car), KEIP (large) (small), Radio Seiu, KPXE, KWED, Devon Radio, KKYX, KNUZ, KIDQ, WNOR, KVLV, CFCY (cir) (ID) (decal), Radio Brannante, KECC, WMYK (large) (small), Radio Evangile, WJLP (large) (cir) (blue) (B&W), Radio Superstar, WXQR, KOME, WDIZ, KSEI, RBI (DX-blue) (DX-white) (logo-blue) (logo-white) (white) (blue), ERF Radio, Radio 2000, Capital Milano, CPNB, BBC Radio 1, WONE, CKBW, CFCB (yellow) (blue), CHOO, KITS (large) (small), 96-FM, KEY-103, KFCR, KSJO, KQUE, KILT, CKLX (large) (small), KIKK, Radio More Music, Radio Bucharest, BBSI Radio, KROR, WMYX, CPNB (small), KHAR, HTV, KIKR, CKY, KLOS, RTB, BBC Radio 2, BBC Radio Highlands, NNRC, CKKR, KKYX, KNIN (large) (small), WAND, KILY, BBC-WS, Radio Budapest (red) (blue) (small), 12B, Radio Kuwait, RTE Radio 2 (cir) (tri), CHAB, CKND, CIME, CKOM (large) (small), RHI, Telecom-83, KNE, Polakia Radio (large) (small), City-TV, 429, 2CH, RPT, Radio 270, KDKD, Telecom-Geneve, KBOI, WMR, Radio Forth, CPRA, WDR (rock) (TV), KROY, and Radio Sheralands.

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