



DX Monitor

Devoted Exclusively to
Broadcast Band DXing

December 25, 1982

Volume 20, Number 14

Issue Number 635

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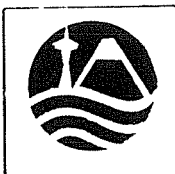


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ODDS & ENDS DEPT: Radio West, the noted purveyor of radio goodies, now publishes a monthly "garage sale" list. It features items they are

selling at a discount, such as used equipment, demonstrators, etc. The list is published on the first of each month. To get a copy, send an SASE to Radio West, 3417 Purer Road, Escondido, CA 92025.....WWSW-1590 conducted a DX test on MM Dec 20 at 0100 EST with tones, mx, and voice & code IDs. The information reached us too late for inclusion in last week's DXM.According to a story in the Seattle Times, two "opposition" radio stations in Surinam were burned down as part of some on-going political problems in that country. Does anyone know which stations they were?.... We hope to have the next edition of the IRCA Almanac at the printers by New Year's Eve; mailing will probably occur during the last half of January. Thanks for your patience, folks!

I realize you've just recovered from Christmas, but now is the time to start thinking about next summer's DX conventions. IRCA's convention will be held July 1-4 at the Mayflower Park Hotel in the heart of downtown Seattle. Room rates will be \$38 single, \$44 double. Activities are still a bit tentative but will include tours of a couple local radio & TV stations, hopefully the Navy's one megawatt VLF station at Jim Creek WA, plus a couple talks by IRCA members and/or local radio types. More details will be announced later.



CONVENTION '83

Meanwhile, 3000 miles away, in the other Washington, the 1983 ANARC Convention will take place. The ANARC convention will be held July 15-17 at the Westpark Hotel in Rosslyn, VA, just across the river from Washington and home of the free world's longest escalator (it leads to/from the Rosslyn Subway station. While the emphasis will be on shortwave listening, the

ANARC convention will cater to all aspects of DX listening, including medium wave. There will be a number of major speakers, seminars on various topics, and exhibits by radio companies and distributors. For more information, send an SASE to the address at the left.



ANARC 1983

Washington Area DX Association
(WADXA)

Association of North American
Radio Clubs

606 Forest Glen
Silver Spring, Maryland 20901

BROADCASTING INFORMATION

Greg Monti
1110 Fidler Lane, #1424
Silver Spring MD 20910

call	kHz	day/night	
KSKY	660	10000/	Dallas TX wants Balch Springs TX & 10000/500
KBRW	680	10000/5000	Barrow AK granted 10000/10000
WAGO	690	250/	Oshkosh WI wants WCKK
WSVQ	740	250/	Harrogate TN wants 1000/
appl	760	1000/	Moody AL
new	770	1000/500	Valdez AK granted KGGN
WABS	780	1000/	Arlington VA wants 5000/
KBRN	800	500/	Brighton CO granted KLTT
new	830	50000/1000	Tucson AZ wants KGLR
KEYH	850	10000/	Houston TX wants Spring TX & 830 kHz & 50000/1000
appl	870	250/	New Hampton MO
KKMC	880	5000/1000	Gonzales CA we've received a report this is 830 kHz, not 880, anybody confirm?
WRFD	880	5000/	Columbus-Worthington OH wants 50000/
new	880	1000/1000	Sabana Grande PR granted WPRX
WSWM	900	500/	North Myrtle Beach SC wants WGSN
WGFP	940	250/	Webster MA granted 1000/
KARZ	960	5000/5000	Phoenix AZ wants KOOL
KBEE	970	1000/1000	Modesto CA wants KHYV
KSVC	980	5000/	Richfield UT granted 5000/1000
KHEE	1000	1000/	Hayden CO wants KRDX
WSID	1010	1000/	Baltimore MD wants WYST
new	1030	5000/250	Florence AZ granted KGUS
KRWT	1060	1000/	Winters TX granted KPUB, wants 2500/
WNPT	1060	1000/	Newport TN wants 760 kHz & 10000/
KENR	1070	10000/5000	Houston TX wants KRBE
WJOE	1080	1000/	Port Saint Joe FL wants WJBU
KIOE	1080	5000/5000	Honolulu HI wants KZHI
KANC	1080	10000/10000	Anchorage AK granted KTNX
WTGG	1130	1000/	Hilton Head Island SC granted WHHQ
KMMZ	1140	10000/	Greybull WY wants KZMQ
WJMQ	1170	1000/	Norfolk MA granted WJCC
appl	1170	5000/1000	Claremont NC
KRZJ	1190	2500/	Beloit KS granted KVSU
WCMD	1230	1000/250	Cumberland MD granted WALI
KRDG	1230	1000/250	Redding CA wants KPAK
KROY	1240	1000/250	Sacramento CA granted KENZ
KHEM	1270	1000/	Big Spring TX granted KKIK
WPVA	1290	5000/	Colonial Heights VA wants WYNT
WNRS	1290	500/	Saline MI wants WIQB
KFLO	1300	500/	Shreveport LA wants 5000/
appl	1310	1000/	Hartselle AL
WENA	1330	1000/	Penuelas PR wants 1000/1000
KVBR	1340	1000/250	Brainerd MN granted KQBR
WLNH	1350	5000/	Laconia NH granted WKZU
KTLO	1360	500/	Tallulah LA granted KZZM
new	1360	500/	Madison AL granted WABT
new	1360	5000/	Vail CO granted KRVV
KDAN	1370	500/	South Saint Paul MN wants 1100 kHz & 2500/
KOKE	1370	1000/	Austin TX wants KMMM
WNSI	1380	5000/5000	Saint Petersburg FL wants WRBQ
appl	1380	500/	Young Harris GA
WTNN	1380	1000/	Millington TN wants 2500/1000
WRJQ	1380	5000/2500	Clintonville WI wants WFCL
WKGR	1390	5000/	Gainesville FL granted WMGI
WCAT	1390	1000/	Orange MA wants 700 kHz & presumably 1000/
new	1400	1000/250	Goldendale WA granted KLCK
WTRR	1400	1000/250	Sanford FL wants WWJZ
KAHL	1410	5000/	North Platte NE wants KOOQ
KRML	1410	500/	Carmel CA wants 500/5000
WRDC	1410	1000/	Cleveland MS granted Boyle MS & 5000/1000

KYUC 1420	1000/	Yucca Valley CA wants KSES
WJRB 1430	5000/1000	Madison TN granted WNKZ
KQRS 1440	5000/500	Golden Valley MN granted KGLD
WWCC 1440	2500/	Bremen GA granted WSLE
new 1440	500/	Salem MO granted WFBS or WFPS
WSWF 1440	5000/1000	Lehigh Acres FL wants WOOJ
WQQT 1450	1000/250	Savannah GA wants WQCN
KBKW 1450	1000/250	Aberdeen WA granted KAYO
WWEG 1460	500/	Racine WI wants WRKR
new 1460	2500/1000	Casa Grande AZ granted KWLL
WTTR 1470	1000/	Westminster MD wants 1000/1000
WCCD 1470	1000/	Athens GA granted WXAG
WGBU 1470	1000/500	Farrell PA wants WMGZ
KWRD 1470	500/	Henderson TX granted 2500/
WUEZ 1480	5000/	Salem VA wants WSAY
KBOX 1480	5000/1000	Dallas TX granted KMEZ
KWKN 1480	5000/1000	Wichita KS wants KLEO
WSFB 1490	250/	Quitman GA specified hours wants 1000/ still specified hours
WTRL 1490	1000/250	Bradenton FL wants WOFN
new 1490	1000/250	Ruidoso Downs NM granted KOAW
new 1500	1000/	Alamo Community NM wants KABR
new 1510	5000/	Monroeville AL granted construction permit, wants WYNI
WDGR 1520	500/	Dahlonega GA wants 1210 kHz & 10000/
new 1530	500/	Babson Park FL wants WXEZ
KTIA 1540	5000/1000	Fort Worth TX wants KUQQ
WCCZ 1550	250/	New Smyrna Beach FL granted 1000/
WIZY 1560	5000/	Gordon GA wants WFXX
WLSC 1570	1000/	Loris SC wants 5000/
KGAF 1580	250/	Gainesville TX wants 250/250
WGFE 1580	1000/1000	Morovis PR wants WGEW
WAXU 1580	10000/	Georgetown KY granted WBBE
KXQK 1590	1000/	Springdale AR wants 2500/
WPLW 1590	1000/	Carnegie PA wants 660 kHz & 1000/
WDCl 1590	5000/2500	Gorham ME granted WASY
WNEU 1600	5000/	Wheeling WV wants WANR
KBBX 1600	5000/	Centreville UT wants 5000/1000

As of 9/30/82 there were 4668 licensed AM stations on the air in the USA; in addition, there were 153 stations with construction permits that were not yet on the air, giving a total authorized figure of 4822 (including off-air licenses). There are 4492 on-air FM's and 4904 total authorized FM's.

From the Nov 15, 22, 29 and Dec 6 issues of Broadcasting.

RADIO KMEZ-1480 Dallas TX (x-KBOX) has switched from
PROGRAMMING country to beautiful music, simulcasting FM... WARK-1490
NOTES Hagerstown MD is now MOYL... WNSI-1380 Saint Petersburg
FL, now partially simulcasting FM WRBQ, is, at night, playing
the same songs as WRBQ, but 10 minutes later; the program director
calls it "shadow casting"; also the sports talk show is gone from
WNSI... KKNW-1510 Mountlake Terrace WA is off the air again; word is
the general manager (and majority owner) took the money and ran...
KFWY-1560 Sumner WA is also off the air... Rumor has it that WOKO-1460
Albany NY is about to go under and may have switched to all news or
rock as last resorts; was last reported as country... WPLP-570
Pinellas Park FL has picked up University of South Florida basketball
from WFLA-970 this season... WYMC-1310 Parsippany-Troy Hills NJ
(x-WBIO) is back on the air with a beautiful music format... WEAN-790
Providence RI is adult contemporary when not running its news format,
"One Great Song After Another" is slogan... WDJZ-1530 Bridgeport CT has
switched from MOYL to MOR. "Playing Your Favorite Music"... the new
WIDS-1190 Russell Springs KY is on the air with a country format...
WXVA-1550 Charles Town WV has switched from rock to beautiful music...
WASY-1590 Gorham ME is now oldies... WLS-890 Chicago IL, even after
taking a ratings beating from WBBM-FM, has still not gone talk as

earlier rumored; one problem may be that the ABC/Talkradio network rights for the Chicago market have been secured by WIND-5601. If WLS went talk, it'd be competing with its own parent company, ABC... Additional hot rumor: CFTR-680 Toronto ON may go country after losing 250,000 listeners in the last BBM ratings (but what will happen to John Records Landecker?).

Networks: The ABC networks are dropping "Agianswers," "Spotlight," "Meet the Author," "World of Commentary," and "Snapshot"... ABC/Rock net has the rights to "Rolling Stone's Continuous History of Rock 'n' Roll, it'll be available to stations beginning in 1/83... WHAG-1410 MD is on both ABC/Talkradio and CNN... CBS Radio has complained to the White House that President Reagan's speeches are often too visual, using a chart or graph to explain the economy, for example; CBS thinks the President should be more sensitive to the industry where he started out, radio, lest listeners get short shrift of the speeches... CBS/RadioRadio now has 110 affiliates... Herb Japko of "Nightcap" show fame is now on WOAI-1200 TX, KBCQ-1020 NM, WBOI-670 ID, and KPNW-1120 OR... Mutual has picked up the formerly-syndicated Sunday night talk show "Satellite Live" and renamed it "This is Hollywood"; it's 2 hours of celebrity interviews, offbeat comedy and show-biz news, including a nationwide call-in. Adds to Mutual's/Larry King Show include KCW-930 TX, KLIF-1190 TX, KGFV-1340 NE, WBZA-1230 NY (x-1410 kHz), KSEK-1340 KS, KTNX-1080 AK, while those dropping Mr. King include WFAA-570 TX, KCEE-790 AZ, WOAI-1200 TX, and KCEY-1390 CA... NBC has cancelled the series "Bear and Now," "Second Sunday," and "Joyce Brothers"... NBC/Talknet has given sex-talk-show host Dr. Ruth Westheimer from WYNY(FM) New York NY a trial airing on 11/7/82; if Talknet affiliates like the show, it may become a regular weekend feature of the 109-affiliate net... Sunshine Entertainment Network, based in Ocala FL, is a new, full-format, 24-hour, satellite delivered net featuring urban contemporary music with an emphasis on jazz and reggae... WEI is now feeding 1-minute international business reports at 0610 and 1225 ELT daily, anchored by Roger Gittines from London... President Reagan's weekly Saturday radio messages (at 1206 ELT) will now continue indefinitely as will the Democratic responses fed at 1306 ELT Saturdays... Sportsline is the San Francisco Bay area's regional sports network, feeding reports 12 hours a day to 20 stations three times an hour.

Syndication: DXer Glenn Hauser's "World of Radio" series is on WPTF-680 NC Monday mornings at 0306 ELT... "Assignment Small Business" is syndicated via satellite to 1400 stations; target audience is small business owners... A new special, "In Search of the New Wave: The Future of Rock 'n' Roll" will be in syndication shortly...

Sources: Ed Ryan, Safford AZ; Bob Smolarek, Whitehouse Station NJ; Ernest Cooper, Provincetown MA; David Reitz, Fern Creek KY; Robert Binau, Hagerstown MD; Tony Fitzherbert, Chalfont PA; Sharon Waterman, Southwick MA; Glenn Hauser, Knoxville TN; Ken MacHarg, Jeffersonville IN; Charles George, Dallas TX; Jeff Lockwood, Tampa FL; Paul Mount, Teaneck NJ; various Broadcasting magazine stories.

FM vs. AM

FM stations continue to dominate in every major U.S. radio market. But after 11 consecutive years of steady growth, FM listening increased its share of the listening audience by an average of only .5 percent in 1981, the smallest rise since 1970. Here's how the AM/FM ratings battle breaks down in the top 10 radio markets:

	FM	AM
New York	50.6%	40.8%
Los Angeles	53.1%	38.0%
Chicago	52.8%	43.4%
Philadelphia	56.8%	32.7%
San Francisco	49.0%	41.8%
Detroit	61.8%	28.2%
Boston	45.0%	36.3%
Washington, D.C.	56.8%	25.5%
Dallas-Ft. Worth	55.7%	27.1%
Pittsburgh	47.7%	43.2%

*The remainder of the listening audience is tuned either to non-commercial stations or stations too small to meet ratings standards.

Source: Arbitron Ratings

By Karen Lobb, USA TODAY

Left:
USA Today
11-26-82

Right:
Mechanix
Illustrated
January 1983
via Bill
Block

BUZZ ON AM BAND

Who or what was jamming the disc-jockey jive coming off the AM broadcast band in Las Cruces, New Mexico? A Department Of Energy request for data on the effects of electromagnetic radiation on the systems of its solar prototype houses prompted an investigation by the National Bureau Standards. The source of the jamming: inverters, devices which convert DC electricity generated by photovoltaic cells to AC. They were found to emit enough electromagnetic radiation to cause a buzz on the AM band.

EASTERN DX FORUM

RICHARD EVANS
P.O. Box 1294
NORTH WALES, PA 19454

Reports from members living east of the Mississippi River
Deadlines: Saturdays thru 3/19/82.

C. M. Stanbury II, RR #1, Ridgeway, Ontario L0S 1N0

It has come to my attention that two shortwave editors have initiated a campaign to keep pirate loggings out of all DX publications - both SWBC & BCB. Their argument, that those reporting such reception could be legally charged with conspiracy, is, to say the least, far fetched. I also think it significant that one of these editors is additionally suppressing information re R. Swan/Americas alternate xmtr sites. While R. Swan is certainly "history" now, it is, in light of current events in Central America, very pertinent history. Further, in 1980, this same editor disseminated the tale that a fake Falkland Islands Broadcasting Station (i.e., a pirate) in Connecticut was operating on the real FIBS 120M freq. I check 120M almost every evening, have hrd FIBS several times during the past 3 years, and feel certain the only FIBS being hrd is the genuine article. Of course, there are undesirable elements in the fast growing pirate radio subculture - e.g., a Canadian pirate, apparently inspired by Argentine Annie's ("Liberty") once implied claim of an Ottawa xmtr site, went on the air as R. Falklands-Malvinas announcing a phony Ottawa address. There have in fact always been a few pirates involved in hoaxes. But it is the first responsibility of any DX publication to tell its readers what's on the air and what's being heard. As should have been evident from recent EDXR's, some of the most interesting domestic loggings these days are those pirates just above 1600 kHz. Best. (Stan, isn't it true that harmonics from those NYC pirates just above 1600 kHz are showing up on the aviation bands, endangering planes in/out of NYC?--rce)

Rob Gerardi, 420 1/2 North Main Street, Benton, Illinois 62812

While working on the Ham DX Column for CIDX, I came across some info I thought might be of interest to IRCA'ns. David Weisel, in his newsletter "Mail-A-Prop", has made some predictions on Solar Flux values (an average) for the next four Januaries. They are: 152 (1983), 127 (1984), 105 (1985), 82 (1986), and 73 (1987). The average value centered around Jan., 1982 was 178. He also predicts that sunspot numbers should fall from 135 (Jan., '82) to 13 by Jan., 1987. If his predictions are correct, this should have some interesting effects on BCB DX. Cx seems much improved over last season, what with picking up some new SSS DX on 1050 and 860. Also, logged the 10 kw. Bahaman on 810. With the increase in power, this one should be an easy new country for many SRS DX'ers in the lower OH/MS river valley, Mid-South regions. Don Moore, good luck on your trip to Costa Rica. By the way, I experimented with an antenna similiar to your bamboo pole one back in 1976. I used what we call around here a "cane pole", 9' in length, with 125' of #22 wire wrapped around the upper 5 1/2'. No palm trees here, though, hi, so it was mounted on the roof near a chimney at 20'. It was great for SW, but I had little success with it on BCB. CMS, in the studies you mentioned by Dr. Lankford, does the material cover just MW BCB or what is scintificly refered to as the MW spectrum? Paul LaFreniere, regarding your question about the economy affecting station operations, WHPI (1340) ceased AN ops. last winter citing the economy. Also, WGGH (1150) seems to have given up its publicity campaign to get an AN license. Though the owner won't say so, his employees say it is due to a terrible local economic picture. A couple of FM'ers here also backed off plans to go AN and possibly increase power, due to the economy. Unemployment locally is around 16%. Are there any aircheck collectors who know of person or place where one can obtain "complete" airchecks of stations from the mid to late 60's? Finally, the Golden Penguin Award for 1982 has to go to everybody at HO! I refer to the WCHE CPC test listing in issues #628 to #631. Nov. 28 was on a Sun., not a Mon., and the NRC Log lists WCHE on 1520, not 1250.

Tom Jasinski, 503 Jensen, Shorewood, Illinois 60436

Greetings. Have been DXing SSS & SRS lately. WHSM, WAVI, and KNIX are the results. KNIX address in NRC Log is incorrect. My report was returned by USPO stating "moved--address unknown". Call to station yielded Box 3174, Tempe, Arizona 85281. CE's name is Elliot Kline. Tried for all of the DX Tests so far. Only KMPS came through and a prompt QSL in 11 days. Other recent QSLs are: WCIL, WHSM, KICL, WPCK, WIUO, and KBYE. The

(Jasinski...) last four needed followups. KBYE verie was for their special DX Test in Dec., 1981 during WLS SP. KIEL appears to take a back seat to their sister FM KEZQ. The letter-head, envelope, coverage map and their phone listing are all for KEZQ only. The AM outlet is mentioned only in the verie letter test. Still nothing back from WUPY-970 (they may have changed calls by now), maybe a second followup will help. WUPY is the last holdout for 1981 with 25 for 26. 1982 has a 46 for 69 total so far. For Chicago area members, how does a Beverage get-together sound? I have the room near Mokena - 30 miles SW of Chicago. Let me know who is interested. Seasons Greetings.

John H. Rose II, 26015 Thomas, Warren, Michigan 48091

Help!! I have an HQ-129X with the following problems: 1) a 60 volt potential between chassis and earth ground (6 foot ground rod in moist soil) and reception goes sway when the ground is connected. 2) A very loud hum in the audio even when all the tubes are pulled (probably related to #1). 3) Motorboating, or sputtering, when the R.F. gain is turned up. This started when I put a wrong tube in the 1st R.F. socket by mistake (don't ask. They all look the same.) Capacitors are in excellent shape (as is the Rx) and power supply cap is new. All help appreciated. Has anyone tried replacing the audio chain with an I.C. or 2 to save on current & heat? BP, going to LaPush reminded me & the YL of our trip "out northwest". In this country, that's as far west as you can go without hiking to a site slightly north. Beautiful scenery and fantastic beach, lots of salt water and rain. Should be great DX for TP. We're definitely ready for a return trip someday. (Welcome to EDXP, John. Keep reporting--rce)

Mike Hardester, 17 Rowan Drive, Havelock, North Carolina 28532

Greetings! Two veries in: WWA-1170 (go ahead and laugh) sent v/c w/date & freq. only plus an info packet and sticker. Other verie in from WTX-690 who also sent a v/c (date only) and info packet. WWA was state #41. Several reports out to both domestic & foreign stations, so am awaiting their replies. Hope everyone has a Happy Holiday season and Happy New Year of DX. Very 73 and Best of DX.

Mike Sapp, 1902 York Drive, Woodbridge, Virginia 22191

I have been spending a lot of time with the Panasonic RF-2600 recently. Coupled with the Palomar Loop, it makes a very good receiver. Sensitivity is very good, but when I need that little extra kick, I get out the Radio West Loop. I hope to improve selectivity, with the addition of a Murata CFS455J filter in the near future. I recently purchased a set of those light weight stereo headphones made for the Walkman style cassette players. I just bought a cheap pair, but it makes DXing with phones much more bearable for me. Normal style phones tended to bother me in extended sessions, and would make my ears sweat slightly. I hardly even know these are there. Many of the cheaper models sound real crisp, and can be bought for less than \$15, if you watch for sales. I use phones now more than ever. It sure does make a difference when trying to dig an ID out of the mud. Conditions have been auroral as of late. The dials have been filled with Latins. I have come up with several new stations, but did not have the time I would have liked to have spent at the dials to take full advantage of the conditions. The Redskins are 4 and 0, maybe this is the year.

Richard C. Evans, P. O. Box 1294, North Wales, Pennsylvania 19454

I hadn't noticed that the DX Calendar was showing WCHE as 1250 until Rob Gerardi mentioned it in his Forum rpt this week. They are a daytime regular here, but were real weak on the test, being clobbered here by WKBW. I couldn't believe how strong "KB" was here, so close to WCHE. A v/l already back from WCHE, carrying an inside date of 12/16 but here on 12/11! Dave said he had reports from Boston, Rochester, NY, and St. Louis, Mo. (He also returned my stamp!) A big shock a couple of weeks ago was pulling a v/q from CIHI-1260 N.B. out of the box. The verie was in here just two days shy of one year from the date of reception. Now up to 9 veries here out of 11 reports sent out. Speaking of headphones (Mike, above), I ran across an adaptor plug to convert from mono to stereo at Kmart several months ago. It works like a charm, and it sure feels great to have audio in both ears again while using the headphones. Almost landed an evening job in Philadelphia, but they needed someone "immediately", so...They said they may have another opening in a couple of months, so I'll keep my hopes up. It may not be Chicago, but at least it's evenings, which I consider to be the ideal shift. Merry Christmas. PTL.



Western DX Forum

★ ★ ★ ★

IRCA—Serving the Broadcast Band DX'er Since 1964

Editor: Ric Heald, 1632 J St., #4, Eureka, CA 95501

1982/3 DEADLINES - WEEKLY ON TUESDAY, 12 DAYS PRIOR TO PUBLICATION DATE

GENE MARTIN, 3303 E. EVANS AVE., DENVER, CO 80210

For the final three days of November, I was up in Denver's early morning checking into reception conditions around the period of 0900-1200 GMT which is 0400-0700 EST. Extremely auroral is the only possible description for what I found these three days in those hours.

My most useful test for the extent of auroral activity at any given time is 760 kHz. I often sit on it a few minutes to find out what is there. On these three mornings, with the loop on an east/west bearing, WJR has been ranging between missing and barely audible, most of the time. 760 has belonged to Cuba and KFMB on the E/W bearing. . .to Mexico City and Baranquilla when KFMB is nulled. No trace of WJR could be found on Sunday morning and Tuesday morning and it was "way under" on Monday morning. The A-Index these days has been 23 and 26. Now when conditions are good, WJR overwhelms KFMB on this frequency along with the Cuban. New Zealand's carrier at 756 is a constant thing in these hours even under these conditions, its audio ranging between missing and barely audible. So you can put it down as a fact of propagation that New Zealand arrives here under the most severe auroral conditions. But it's also a conspicuous thing that 1YA delivered a better signal on many mornings during the summer. There were times in the summer when I found it at almost the same strength as KFMB, 30-to-60 minutes ahead of the Denver sunrise. Both winter and summer, it seems the 1YA signal tends to peak near 1100 GMT or 0600 EST.

For the most part, reception conditions have been lousy in September, October and November, Japanese signals found on only a few mornings, and never with the strength often noted two or three years ago.

I wonder just where we are in the sunspot cycle. I had thought we were supposed to be heading into better days by this time, but there is no evidence of that I can detect, nor can I find any in the reports of other international DX'ers. 73. (If my calculations are correct, Gene, next quiet spot is not until the late '80s, if, in fact, it's every 11 years, I'm basing this on the quiet cycle of '66. Anyone else have better information?-RtH.)

ALBERT S. LOBEL, P.O. BOX 26762, SAN DIEGO, CA 92126 (619) 484-0604, (619) 566-0092 or Unlisted Number

You may phone, prepaid, between 1800 and 2145 PLT. I will intercept the answering machine if I'm home and hear your voice; otherwise, leave up to a 30-second message.

Today, 05 December, the power was off to about 5,000 homes including mine. The only receiver with good batteries was the Superadio. I tried a little DX and was astounded with the reception. The power was off from 0756-to-1119 PLT. The 10-watt Los Angeles International Airport TIS 530 was heard just as if I was at the terminal and my QTH is 145 mi/232km south of the airport (as the planes fly). The dial was completely free of all noise. The Phoenix Airport (Sky Harbor-RtH) on 1609 was also audible but not good, estimated S/meter reading of S/2 (the Superadio doesn't have an S/meter).

Too bad the power outage couldn't have been the next day between the hours of 0000 and 0600 (my scheduled DX time) as 06 December is my birthday. It would have been a perfect present from SDGE. 73 and good DX de ASL.

RIC HEALD, 1632 J ST., #4, EUREKA, CA 95501

Gee, do I hear an echo in here? Where is everyone this week? Help, JJ, it's time for another "journal." hi.

Gene, how about some more forums on old-time radio? You've been around the media for quite some time and I'm sure the membership would like an insider's view of radio from the '30s to the early '50s. I know it sure holds my attention and I really enjoy typing them up.

Albert, during the power outage (during your minor storm by North Coast comparison, hi), were any of the locals off the air? This area is so prepared for major storms (we're having one as I type this), nothing goes off the air, \$*%&@ #@!(%&#, hi.

Continued on page 12



the irca technical column

Editor: Nick Hall-Patch
1538 Amphion St.
Victoria, B.C. V8R 4Z6
Canada

NRD-515 vs. R-7.....MW PERFORMANCE AND MODIFICATIONS

by Don Moman

"...the NRD-515 and R-7A compliment each other unusually well--off-times, one's shortcomings is the other's virtue. It's hard to conceive of a more estimable DX "shack" than one equipped with a Drake R-7A plus a Japan Radio NRD-515..." That's what Larry Magne commented in his series of reviews in the 1982 WRTH, and there's no need to go through all the features of both sets; Larry's article does an excellent job. In fact, now would be a good time to re-read it!

Well, I've used them both for some time now, both in the shack and on a variety of DX'peditions. The close proximity of several 50 kw locals makes DX'ing a real challenge, and neither the R-7 or NRD-515 come close to withstanding the several volts of RF my longwire gathers! Obviously, a passive loop antenna is the only solution that is useful, other than using some kind of RF selectivity ahead of the set. However, both sets also show moderate signs of overload in "rural" locations. More on that later.

First off in the comparison, I'll mention some of the low and high points of each set, with the MW DXer in mind.

NRD-515

--extremely easy to use when configured with the optional memory unit, and even more so with the remote key-pad control. "Continuous" tuning.

--very pleasant audio in 6 kHz mode, quite muffled in the 2.3 kHz mode.

--no pass band tuning in AM mode

--digital noise from tuning dial, but only if optional memory unit is plugged in. Much worse on some portions of the higher SW spectrum.

--MW preselector overloads on strong signals (creates its own intermodulation distortion (IMD)). This is caused by the variable-capacitance diodes used to tune the preselector, which can't always handle the voltage swings that strong MW signals generate. Problem is worse at low end of ECB.

--doesn't run on 12 volts and is hard to modify for 24 volt power, but it can be done.

MODIFICATIONS

Drake R-7.....I've only made a few, relatively unimportant mods to mine. Minor things like a non-detachable AC cord and poor antenna connectors were the first to go! Much effort has gone into getting rid of the "birdies" on MW, but it hasn't been totally eliminated. Much of the noise goes away when the counter is switched off, indicating the multiplexing of the display is part of the problem. Shielding and/or removing the cabinet top has helped, but it's impossible to use a loop nearby when the top is off!

JRC NRD-515...As received, in the factory version, the 515 was useless for MW DX'ing here. Obviously, the arrestor diodes were creating IMD, so out they went! (ed: perhaps a Transitrapp surge protector could be installed) Better, but the MW preselector would now create sever IMD when peaked near a strong signal. Not only that, but it was lossy too. Also, when used with the 50 ohm splitter in the R-7, the 515 virtually shorted out the signal and made it impossible to use with the R-7's otherwise useful antenna splitter. Other sets work fine. It also didn't "like" my own MW tuner (very high insertion loss) so I decided there must be something unusual about the

R-7

--MW broken up into three 500 kHz segments which make fast scanning inconvenient. Not all frequencies are covered with equal sensitivity, due to the pass bands of the RF filters being designed for hams, not MW DXers!

--Synchro-Phase selectable sideband system is excellent for "splits" and allows one to make the most of the excellent selectivity characteristics. Also very good on ECSS (exalted carrier selectable sideband) reception, better than the NRD

---12 volt power input is standard.

--notch filter is useful, but the depth is only about 40 dB, much less than is really needed (and is found on the older SPR-4)

--digital circuitry creates weak "birdies" on MW, annoying when searching for hets.

impedance in the front end. So, let's get rid of the front end! Easily done, just unplug P36 and connect an antenna input to TP4. This is now going nearly directly into the mixer stage. Without some kind of preselector the set will now overload easily, but using my own Interface unit (with the MW tuner section described in the Tech column Aug 7/82 DXM) as the "new" front end, the 515 performed very, very well. Sensitivity is now excellent and it now "likes" both the R7 splitter and my RAI unit--no impedance problems. On DX-peditions it's often possible to feed the antenna direct to the mixer as signals aren't enough to cause overload, thus allowing the memory unit to permit instant checks of suspected DX channels. Memory is somewhat inconvenient to use on MW when the stock (or other) preselector is used, as the preselector must be retuned with each new MW channel recalled from the memory.

However, before it could be taken on DX-peditions it had to be converted for DC operation, a complex task. Mine is now set up for two 12 volt battery operation, with a car battery for one, and a 20 amp/hr Gel Cell for the other. Draw is 1.6 amps from the car battery and .6 A from the smaller cell. This gives over 30 hours of use.

Having used the noise blanker in my FRG-7700 (didn't get the NB in the R-7) and being generally pleased with its performance on some forms of powerline noise, etc., I expected the one in the 515 to be at least equal. Since the Russian Woodpecker doesn't get into the MW bands, we'll not mention it! In many cases, the blanker in the 515 "smeared" the noise, actually making it worse! Removing R256 helped, but the circuit seemed to need more sensitivity, so R113 was changed to 4.7k. Now the blanker works as it should, although it could still use more amplification in the noise detection circuit. I installed scope jacks on TP15 and TR13 (collector) to observe NB action. The noise detector works well but some of the detected noise is too small to trigger the blanker. Still, performance is good, with 20-40 dB of blanking on appropriate signals.

Other things that needed to be changed on the 515 included the very tight and binding main tuning dial. Replacement of the end-bearing washer in the shaft encoder with a slightly thinner one reduced the drag and made the dial a marvel of smoothness!

Applying power to the R-7 will cause the frequency to come up in a predetermined band, although the VFO will remain where it was (has to--it's mechanical). But the 515 forgets about the VFO and just comes on the even MHz, unless the memory is engaged. Instructions are supplied to install a "keep-alive" battery system. Not having a small battery to fit in, I opted for an easier solution; just use a good low leakage capacitor in place of the battery. Current draw is extremely small and the capacitor I used keeps the circuit alive for at least 24 hours. Use from 10 to 100 uF can't remember the exact size I used, but it's not critical. Note: this has nothing to do with the battery back-up for the 96 channel memory unit.

Test Results

1) 50 km SE of Edmonton, about equidistant from all the Edmonton stations and super strong (and broad) CFCW-790. 790 was 80 dB over S9 on the R-7, with other signals being in the 50-60 dB over S-9 range. This caused the R-7 severe problems on all channels. The 515 fared much better with its internal preselector, but had trouble near 790 from preselector overload. With the outboard tuner, neither set had any trouble, and with the 515, a large improvement in the readability of weak signals was noted, about 2-4 S units. Both sets had a severe image of CFCW-790 on 650, but the tuner eliminated that also.

2) 150 km SSE of Edmonton near Stettler. Signals were much weaker here, none over 50 dB over S9, and many in the 35-45 dB range (this with a 200' longwire). I would call this a rural location, typical of many areas. Most channels were OK but both sets had a few problem ones. The 515 had bad IM on 830 and 1200/1210; and just a trace on 660. The R-7 had severe IM on 660 but just a trace on the others. Both sets seemed equally sensitive, but the 515 and outboard tuner combo improved signals by a few S units as before. The longwire fed directly into the 515 mixer produced IM on most channels.

Conclusions

Personally, I much prefer my own version of the 515, especially with the outboard antenna tuner modification. The versatility of the "endless" tuning system and the 96 channel memory allow me to cover many more potential DX frequencies. Since my DX interests are not limited to MW, the 515 allows the maximum in coverage, especially important when you're on a DX-pedition. However, if I had to live with the stock NRD, I'd be quite

unhappy with it! Not everyone may experience the problems I've described, but if you have, then I'd like to know what you did to cure them!

In choosing the 515 over the R-7, I willingly acknowledge the superior "DX-ability" of the R-7. But in the real world the R-7's edge is rarely clear-cut, and often is negligible. The Synchro-AM system is highly desirable, and with the excellent IF filters available, the system is very versatile in combatting interference. But the 515 isn't far behind, and for those willing to some of the mods I've mentioned, I feel the 515 is the more desirable of the two, especially if one has interests beyond MW. The MW only DXer might prefer the R-7, particularly if he can't modify the NRD-515 however.

One last comment. Both of these sets are well over US\$1000. Are they that much better than the under \$1000 sets--like the R-1000 and FRG-7700? Likely not, especially if one DXes with a loop or uses a good MW tuner. Recently the ICOM IC-R70 has been introduced, similar in many ways to the R-7 (still no Synchro-AM though). It's basically the receiver portion of the IC720 transceiver, which I've used briefly. If it performs like the 720 did, it would be very desirable, and is about half the price of the NRD-515 and R-7!

* * * * *

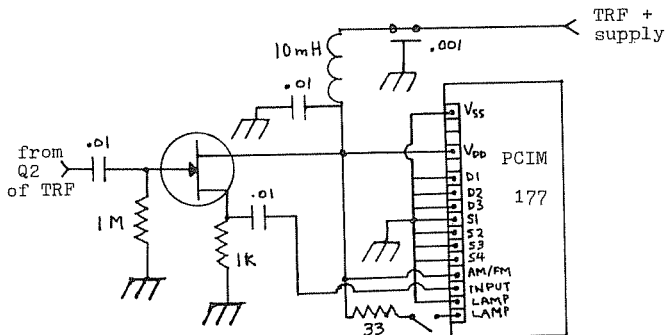
More on Digital Readout for the TRF

by NHP

The PCIM177 LCD digital display described by Frank Aden and Bill Block in the May 1, 1982 DX Monitor is an ideal match for the Realistic 12-655 (and the later 12-656) "TRF", and probably other AM DX portables. It uses 5 to 7 volts DC at a very low current, is compact, and relatively cheap at \$25.

There are a couple of problems however. The major one mentioned by Block and Aden is that the unit develops broadband noise which is easily detected by the loop antenna of the radio. The simplest solution to the problem is to switch the unit off once the frequency is determined. It bothered me to be switching the readout on and off all the time, and I also wanted to use the module with more sensitive receivers as well, so I tried suppressing the noise, with a good deal of success. Putting an LC filter between the TRF power supply/battery pack and the 177 VDD input certainly reduces the noise to a degree, but the module itself radiates the noise, so there's still a lot left to be picked up by the antenna, if the module's anywhere near it, e.g. inside the radio's case.

So the module was bolted into a 2 1/4 x 3 1/4 x 1" aluminum minibox with a suitable hole cut in the front for the display. The LC filter was contained within the box as was an FET source follower:



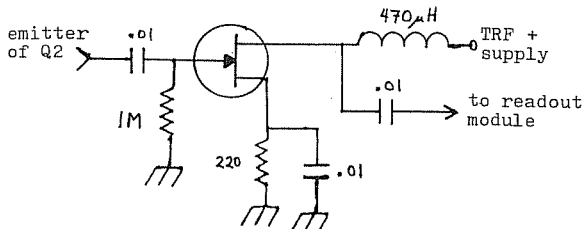
The FET can be any common N-channel RF type (MPP102, 2N3819 etc.) Although I didn't wire in the lamp in mine, I have indicated it; the lamp should be switched, as it draws much more current than the rest of the module. Some may question the source follower at the input, as the PCIM177 already has a high input impedance. The module works fine without the input circuit, but there is about 15 mV rms of 6.5536 MHz energy (from the 177's crystal oscillator) at the module input which is then radiated back to the input of the TRF. This signal interacts with harmonics of the TRF's local oscillator yielding birdies at about 1578 and 1070 kHz. These can be lived with, but what the heck, might as well do the job properly, and eliminate them with

this input circuit. The feedthrough capacitor in the LC filter circuit can probably be replaced by an ordinary capacitor if a feedthrough isn't available.

The box is now bolted to the left side of the TRF's speaker grille. A BEZ-10 bezel from Ambit International is used to pretty up the display (the MB-10 from PCI is the same thing I believe).

The .1 kHz accuracy may seem a bit too fine for some; one should be able to get accuracy to the nearest kHz (with .1 kHz blanked) by disconnecting "D2" and "D3" on the module from the ground, and attaching them to the V_{DD} line. Other possibilities are noted in the data sheet which comes with the device. The accuracy of the readout may lead to the realization that the IF filter of the TRF is not exactly 455 kHz. My TRF's signals peak about 1 kHz below their true frequency, indicating a 454 kHz IF filter. Next mod, a better IF filter?

Finally, my TRF's converter transistor didn't put out enough of a voltage through shielded cable to drive the PCIM177 entirely accurately. If this is a problem, an amplifier can be quickly haywired together off the edge of the PC board, such as one below:



The components are small and can be self supporting. Again, any N-channel RF FET can be used here. With any luck, your TRF won't need this. Conversely, this circuit could be built next to the readout module and a short shielded cable run to it from the emitter of Q2, thus eliminating

source follower. Or, a source follower could be used at Q2, and a transistor amplifier (as shown in the PCIM177 data sheet) used at the module.

So, it was a bit of work, but I now have a digital display for my TRF which can be left on while using the radio. There is no noise or birdies interfering with the weakest signal, even using a Shotgun loop a few inches from the display. This lack of readout noise bodes well for using the PCIM177 with high sensitivity DX receivers. The PCIM177 is available from Printed Circuits International, 1145 Sonora Court, Sunnyvale, CA 94086.

* * * * *

Bits

---The Kenwood R-2000: Grant Manning sent an info sheet on this new receiver. At first glance, it looks like an R-1000 with memory, but this uses a digital local oscillator (one that tunes in steps of a certain number of Hertz, rather than the continuous tuning in the R-1000 and most others). Anyway this has 10 memory channels (each tuneable, and stores mode as well as frequency), scanning capabilities, two 24 hour clock/timers, slow/fast AGC, RF step attenuator, 6 kHz and 2.7 kHz (at -6 dB) IF filters, 100 Hz resolution on the readout etc. etc.

Larry Magne reviewed this on R. Canada International's SWL Digest on December 12, and was generally positive about it, but noted that the 6 kHz filter was more like 8 kHz and that a filter between the "6" kHz and 2.7 kHz one would be nice. ECSS tuning was limited by not being able to tune between the 50 Hz oscillator steps. Dynamic range was "above average" but not as good as some of the over \$1000 receivers. He said "reception of MW signals is good", but compared to what? Price is around \$600.

---Sheldon Remington notes that R&R Electronics, P.O. Box 5324, Garden Grove, CA 92645 is offering the NE561B PLL IC (the synchronous detector described in A DXer's Technical Guide used this IC) at \$10 with a \$2 handling charge for orders under \$25. This IC had been discontinued; does anybody know for sure if this is just a special company stock, or is the IC being manufactured again?

---also from Sheldon is some bibliographical info: QST Mar/82 had a somewhat negative review of the DA-100D active whip. QST Jun/82 had an interesting interview with Harold Beverage. Almost every issue of QST lately has had either a project or a review of an audio filter, with a number of

interesting features cropping up. QEX (a new ARRL newsletter) had 10 pages of "A PTO Substitute for the R390A" ---a massive undertaking. An updater for "From Beverages to OSCAR" covering 1979-81 is now out for (I think) \$10.95 postpaid from Rich Rosen, and I recommend it.

---in a similar vein to the above, E.H. Grossman draws attention to the Oct/82 QST which had an article on "Electrical Antenna Null Steering" which describes a 2 random wire system for nulling undesired signals in the ham bands. Phase shifting is accomplished using delay lines and potentiometers rather than tuneable LC circuits. Might be possible to make something similar for MW, but the delay line lengths would be pretty long!

--MFJ Enterprises is now selling their MFJ-1024 "outdoor active receiving antenna", an amplified whip that gives broadband reception from 50 kHz to 30 MHz. Seems to be a similar idea to ones put out by Radio West and McKay Dymek. Costs \$129.95 plus shipping. Write MFJ, P.O. Box 494, Mississippi State, MS 39762 for details.

---Shortwave Horizons, 6815 12 Ave., Edmonton, Alberta, Canada T6K 3J6 sells individual MuRata CFS455J or Vernitron 4 kHz ceramic IF filters. These are sometimes hard to obtain due to minimum order requirements from the manufacturers.

---In the exotic commercial receiver line, Matt Stutterheim sends word of the Vigilant SR500 series communications receivers. 50 kHz-29.999 MHz range, push button synthesized tuning, reasonable sensitivity, a selectivity selection with good shape factors, reasonable dynamic range (but not as good as an R-7). If you're still interested after seeing the \$2800 price tag, contact Hamilton Communications Systems, Suite 4545, One World Trade Center, New York, NY 10048.

---FT-ONE: If any reader owns the Yaesu FT-ONE (a ham transceiver with a good quality 150 kHz-30 MHz receiver section) with serial numbers beginning with 01 to 04, there is a receiver stability improvement modification. Thanks to Armand DiFilippo, I have the instructions for this mod, if you can't get them through your Yaesu dealer.

* * * * *

Best wishes to everyone for 1983, especially these fine contributors: Derek Claridge, Armand DiFilippo, E.H. Grossman, Jim Herkimer, Jim Hill, Glen Kippel, Grant Manning, Don Moman, Tim O'Hare, Ben Peters, Bruce Portzer, Sheldon Remington, Ralph Sanserino, Charles R. Smiley, Matt Stutterheim, Charlie Taylor, Pete Taylor, Randy Tomer, Dick Truax, and Karl Zuk. You folks have helped make 1982 the best year yet for the Tech column.

73 N^ok

If anyone needs a station from this area, you might want to try 790 before LSR. KEKA signs on daily at 0600 PLT with full power (5 kw), regardless of local sunrise time. Also, KURY 910 Brookings, Oregon, has a daily 0600 s/on time. The NRC Log says they operate with 500 watts PSA, but it sure sounds like full power to me.

Love daytime DX from here this time of year. Nothing like from the Bay Area. Great to hear KBOI among many other 24 hours a day. Still trying for something on 1240 daytime; wish Corvallis and Susanville would leave the air so I could really hear something, hi.

WGE, to answer your comment a few issues ago; I too, wish I could quit moving, but as mentioned earlier, I had no choice in this last move. I mean, it was either work or starve, and because I like to eat, I chose the former!

Some comments regarding radio of 17 years ago, and earlier. When I first began DX'ing in '59, it was very common to sit on nearly any regional frequency on a MM and listen to 1 kw EC stations s/on.

In the mid-'60s, the only Bay Area stations that were NSP were: KABL 960 and KPAT (now back to KRE) 1400. Everyone else had a SP. Because KFRC shared KSFO's tower, they both had a SM SP, 0200-0500. KNBR, believe it or not, was off during the week, some mornings with OC, others totally off. From time to time, KYA 1260 would go through NSP periods, then back off again. KEWE 910 and KLIV were off faithfully every MM. And KDIA 1310, bless them, were off both MM and Tuesday morning. All the San Jose stations had SPs, and as I recall, KLOK was off at 2300 PLT nightly and were doing blocks of foreign language. And nearby in the Sacramento/Stockton and Salinas/Monterey, everyone was off on MM.

I also remember when KRE (pre-KPAT) had a standard 150-foot antenna in the salt pond in back of their studios and were operating 250 watts day/night. That tower got KO'ed in a storm and the present 500-foot one was erected. At night in San Leandro, 12 miles from KRE, they were virtually non-existent until the new tower went in.

Enough rambling for now. More in future issues. 73 de Rth. .

EASTERN DX ROUNDUP

Bob Lazar

1711 Wainwright Dr.

Reston, VA 22090

Deadlines: Saturdays 1/8, 1/15, 1/22, etc.

- 620 WRJZ TN Knoxville, 12/6 1653 wx forecast by f, ID. Fair to good. (WPT-DC)
- 810 WATI IN Indianapolis, 11/24 0640 behind WGY, w/ nx or farm report, numerous mentions of WATI. Are they now fulltime? This was at least an hour before their local sunrise. (CS-PA) (They were most likely on the air using their pre-sunrise authorization (PSA), which allows many daytimers to come on the air before sunrise, often with reduced power. I suspect that WATI is allowed to s/on at WGY's sunrise, which is 0630 in Nov. Most regional freq PSA's are allowed to s/on at 6 a.m. local time. The NRC Log shows WATI's PSA power as 250 watts; the same power as their regulat daytime power.--ed)
- 970 WRCS NC Ahoskie, 12/12 1753 fair w/ "last wx before s/off" by f, pop song. S/off 1800 w/ pop version of SSB. (RAL-VA)
- WTKN PA Pittsburgh, 12/12 1805 finally logged their call change. Fair-good w/ Ac rx, Accu-wx, talk pgm. (RAL-VA)
- 1400 WTSI NH Hanover, 11/29 2018 in mix. The one playing oldies, I think, "18 past the hour w/ on WTSI." (BC-VT)
- 1420 WBEC MA Pittsfield, 11/30 1640 "WBEC Weather Watch" promo. Fair.(BC)
- 1610 WXOX NY New York, noted at 2320 11/28 switching to this freq from 1620. Boasted about taking over this channel from Caribbean Beacon. (CMS-ON)

DX test

- 1520 WCHE PA West Chester, very poor on DX test 11/29 0010-0034, clobbered by WKBW-Buffalo, NY most of the time. Some oldies, plenty of repetitive ID's. (RCE-PA)

Eastern DXers

- RCE - Richard C. Evans, P.O. Box 1294, North Wales, PA 19454
- RAL - Bob Lazar, 1711 Wainwright Dr., Reston, VA 22090
(Yaesu FRG-7, SM-2)
- CS - Cary Simpson, 601 Fifth St., Tyrone, PA 16686
- CMS - C.M. Stanbury II, RR#1, Ridgeway, ON LOS 1No
(HQ-200, 90 ft. LW)
- WPT - Bill Townshend, 4500 Connecticut Ave. NW, #901, Washington, DC 20008
(Realistic TRF, Sony ICF-S5W)
- BC - Bob Curtis, 17 Cobbleview Dr., Colchester, VT 05446
(Philco, SP600)

Will we have another 50,000-watt station?

Seattle Times
December 4, 1982

With the sale of KMO, Tacoma, under way, there's a chance the Puget Sound area might get one more radio station. The sale strengthens Jim Baine's case to develop a new station at the 660 kHz frequency.

Baine sold KMO, a pioneer Tacoma station, to Jim Nelly, most recently an owner of KUI, Walla Walla.

Nelly, a native Tacoman, started in radio sales at KMO, and later worked at KTAC. Thus, he's buying the station where he started.

The transaction, initiated in October and filed at the beginning of November, is

subject to Federal Communications Commission approval. Baine, an investor in the country-music station since 1962, acquired control through a stock swap in 1977.

"I'm not getting out of the business," Baine said. For sure. He has 15 applications pending for TV channels and holds an application to start a new radio station in Fife.

Baine has had his eye on the 660 spot for eight years. Previously he filed to move KMO from 1360 to 660, a clear-channel dial position that eventually could hold a 50,000-watt station. Those kinds of dial positions are scarcer than hen's teeth these days, and have been for 30 years or more. Five other individuals also want the frequency.

One of the keys to the issue involves radio licenses for "cities without primary signal coverage." Baine's offices, in the KMO building on Pacific Highway South, are in Fife. He has amended his application now that KMO is sold. He is retaining the KMO office space and tower in Fife and a transmitter site on Indian Hill. KMO's new owner gets the Browns Point transmitter site.

Baine holds that if the permit were granted to him in Fife, the new station certainly would reach the residents of Fife — and listeners throughout the Puget Sound region.

CENTRAL DX ROUNDUP

Robert Kramer
6416 N. Richmond
Chicago, IL 60645

UnIDED, CHANGES, SPECIAL, et. al.

- 530 KNFW-940 DALLAS-FORT WORTH, There is a new TIS here with info on parking, etc. at Dallas-Fort Worth Airport. CG-TX
- 1560 KTXZ TX WEST LAKE HILLS, 11/30 1900 very poor U/WQXR W/K-Texas Radio ID & into AP mx, MOYL format. REM-IL, 12/7 1851 in & out U/WPAD W/MOYL mx & ID. DF-IL
- All da Rest
- 540 CJSB ON OTTAWA, 11/21 0210 weak W/ads & ment. of CJSB. Slight KNOE QRM. CR-IL
- 570 WNAX SD YANKTON, 11/16 1740 fair W/C&W mx, many IDs. CR-IL
- 590 WPLO GA ATLANTA, hrd W/C&W 12/6 2300. CG-TX
- 610 KILT TX HOUSTON, 11/22 2120 hrd briefly before WDAF fade in W/ID; "KILT the only Houston Radio Station to...". CR-IL
- 730 WMTC KY VANCELEVE, 12/4 1650 fair W/Rel, ID, spot & KY Nx. RK-IL
- 750 KSEO OK DURANT, 11/24 0715 poor W/ads, pop mx & AM & FM ID. CR-IL
- 860 WEVA VA EMFORIA, 11/21 0330 poor W/rck mx & ID as "WEVA Emporia", more mx. CR-IL
- 910 WSUI IA IOWA CITY, 11/13 1720 good W/NPR nx pgm, ID. CR-IL
- WBSM WI HAYWARD, 11/16 1715 fair W/pop mx & S/Off, ment. 101.7 FM CR-IL
- CKLY ON LINDSEY, 11/16 1730 fair W/nx, wx & ment. of Lindsey & CKLY. CR-IL
- 930 KDET TX CENTER, 12/5 1727 W/PSA, good W/WTAD null'd, no KWOC. DF-IL
- 950 KRRP LA COUSHATTA, 11/25 1808 poor in heavy QRM W/lcl spots ment. Coushatta & K Double R P. REM-IL, 12/4 1814 briefly on top W/"K-Double R-P" ID. DF-IL
- 980 CHEX ON PETERBOROUGH, 11/22 0430 poor mixing W/WONE W/"CHEX RADIO 98" ID. CR-IL
- 990 WNYR NY ROCHESTER, 11/22 0255 fair W/"990 WNYR" ID, followed by nx headlines. CR-IL
- KNIN TX WICHITA FALLS, 11/22 0225 good W/pop mx, PSA & "K99" IDs. CR-IL
- 1070 KWEL TX MIDLAND, 12/1 1846 fair W/light QRM, SS mx, S/Off in EE, SSB. DF-IL
- 1110 WTTT FL TAMPA, 12/7 1730 S/Off at end of rel pgm. very good sigs, no WBT/KFAB. DF-IL
- 1130 WJSP KY MURRAY, 12/7 0735 alone here W/lcl nx, "Nx 11" IDs, spots, obits, good. DF
- 1220 CJRB MB BOTSEVAIN, 11/12 2205 fair W/Rel pgm, "CJRB 1220" ID O/WGAR. CR-IL
- 1240 WJMC WI RICE LAKE, 12/9 1841 W/promo then into XMAS mx, poor in mess. DRW-IL
- 1250 WHNY MS MCCOMB, 11/28 1800 poor-fair O/QRM W/Saints FB game & ID. REM-IL
- KPRE TX PARIS, 12/1 1830 barely audible W/S/Off, heavy QRM. DF-IL
- CHAM ON HAMILTON, 11/22 0254 fair W/Hamilton's favorite mx. DRW-IL
- 1300 KFLO LA HAYREVEFORT, 12/7 1802 fair, moderate QRM, rel pgm, Church events, ID. DF-IL
- KKUB TX BROWNFIELD, 11/30 1845 good W/S/Off, some WKXI. DF-IL
- KKAS TX SILLISBEE, 12/1 1828 weak W/ID & tlk about Sillsbee, much WKXI QRM. DF-IL
- 1310 WHEP AL FOLEY, 12/7 1745 barely readable ID on apparent S/Off, being killed by WJAM. DF-IL
- KEZM LA SULPHUR, 12/1 1800 very good, light QRM W/R&B mx, ID, lcl spots. DF-IL
- KUZM LA WEST MONROE, 12/7 1710 good W/lcl spots, light QRM. DF-IL
- 1330 KVEE AR CONWAY, 12/1 1753 good W/lcl notes, ID, MoR mx. DF-IL (Dave, are you sure about the calls, they're supposed to be KTDOW now, ed.)
- 1360 WIXO AL MOBILE, 12/11 1759½ fair-good W/S/Off o/UnIDed S/Off. RK-IL
- 1400 KILE TX GALVESTON, 12/1 1813 fair W/ID, much WDS QRM. DF-IL
- 1410 KKIT TX DALHART, 11/30 1820 fair mixing W/KJCH W/ID, C&W mx. DF-IL
- KNAL TX VICTORIA, 11/29 2030 poor O/weak QRM W/ID-KNAL Victoria, your # 1 country music radio station. REM-IL DRW-IL
- 1430 WWVQ FL PANAMA CITY, 11/27 0053 fair W/3Wq, wx, C&W mx, spot, into live from Giley's WCMY IL OTTAWA, 11/26 1715 relaying its sister FM stn WRXK, W/sports & "95X-WRXK" IDs. The only ment. of WCMY was during S/Off. CR-IL
- 1460 WBNS OH COLUMBUS, 11/3 2110 poor W/sports tlk show. CR-IL
- KRME TX HONDO, 11/30 1844 poor-fair O/QRM W/SS mx then EE S/Off, inst. SSB. REM-IL
- 1490 WKAY KY CLASCOM, 12/7 1657 mixing W/WCSV, lcl spot & ID. DF-IL
- WCSV TN CROSSVILLE, 11/29 1708 W/lcl nx, many IDs, fair W/moderate QRM in WESL null. DF-IL
- 1500 KANI TX WHARTON, 12/7 1842 alone W/long list of area businesses, very good sig. DF
- 1550 KWBC TX NAVASOTA, 12/7 1822 W/ID poor & much KHEJ QRM. DF-IL
- 1560 WSQR IL SYCAMORE, 12/9 1730 good W/S/Off. DRW-IL
- 1560 KAJN LA CROWLEY, 12/6 & 7 noted on late both days W/rel. mx, promise to S/Off @1830, sounded like S/Off @1830, but still on Signing-off @1835. Finally did go, my maps show they should go off @1815. DF-IL
- KCUL TX PORT LAVACA, 12/7 1831 ending SS pgm, SID & gone, good much QRM. DF-IL
- 1590 KKOL TX EL PASO, 11/30 1850 W/long list of contest winners, fair sigs, much ment. of El Paso. DF-IL

HELD FOR RANSOM

DF... David Faulkner Box 602 Witt, IL 62094
 (TRF)
 CG... Charles George 6407 Howard Dallas, TX
 (RF-2600, 30' LW, SM-2)
 RK... Ralph Kramerhoffersteinowitzheimermanberg
 (R-1000, HQ-140X, HQ-129X, Radio West Loop, Kowalski Loop, spiral loop, bird)
 REM... Robert McKinley RR# 2 Box 120 Clinton, IL 61727
 (R-300, SM-1)
 CR... Christos Rigas 4832 N. Drake Chicago, IL 60625
 (Superadio)
 DRW... Don Weinzierl 6100 W. 97th St. Oak Lawn, IL 60453
 (Hallicrafters SX-42, SM-1)

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Roy's program and entire organization is sponsored by donations from his listening audience and people who have gained benefit from his teachings.

LOS ANGELES, CALIFORNIA

KIEV*	870 AM	9:30-10:30 am	MTWTF
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*Live call-in (213) 559-3712 & 559-3716

SAN FRANCISCO, CALIFORNIA

KEST	1450 AM	2:30-3:30 pm	MTWTF
KFAX	1100 AM	1:30-2:30 am	Sun-Sat

PACIFIC COAST

XPRS	1090 AM	9:30-10:30 pm	MTWTF
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HONOLULU, HAWAII

KIOE	1080 AM	6:00-7:00 pm	MTWTF
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LAS VEGAS, NEVADA

KDWN	720 AM	midnt.-1:00 am	MTWTF
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CENTRAL U.S.

WOAI	1200 AM	midnt.-1:00 am (Central Standard Time)	Mon-Sat
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EASTERN U.S.

WCKY	1530 AM	4:00-5:00 am	MTWTF
WLAC	1510 AM	11:00 pm-12:00 midnt. (Central Standard Time)	Sat & Sun

NEW YORK/NEW JERSEY

WMCA	570 AM	11:00 pm-12:00 midnt.	Sat & Sun
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PHILADELPHIA, TRENTON, WILMINGTON

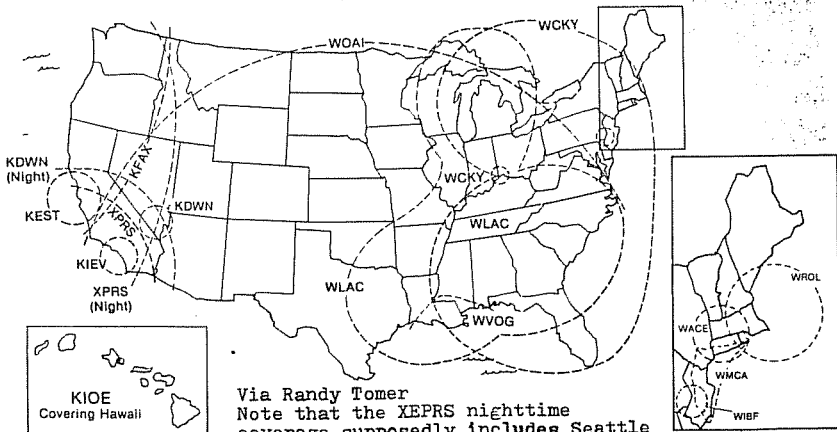
WIBF	104 FM	10:00-11:00 am	MTWTF
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MASSACHUSETTS

WROL	950 AM	4:00-5:00 pm	MTWTF
WACE	730 AM	4:00-5:00 pm	MTWTF

NEW ORLEANS, LOUISIANA

WVOG	600 AM	4:00-5:00 pm	MTWTF
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Via Randy Tomer
 Note that the XEPRS nighttime coverage supposedly includes Seattle which has 50kw KING on the same freq!

WESTERN

Nancy Hardy

2301 Pacific Avenue
Aberdeen, WA 98520

DX ROUNDUP

All times are
Eastern Local

Phone for hot WDXR tips: (206)532-6827 till 10pm(PLT)--no collect calls

DEADLINES: Mon. 12/27; Tuesdays 1/4, 1/11, 1/18, 1/25, 2/1, 2/8, 2/15

REPORTERS FOR THIS ISSUE:

- (JH) Jim Hilliker-DX'ing 22 mi. east of Twentynine Palms, CA
Barlow Wadley XCR-30, NE Beverage
- (EH) Ed Hoffman-P.O. Box 125-Burlington, WA 98233
RF-2900, SM-2
- (PM) Pat Martin-P. O. Box 843-Seaside, OR 97138
Hammarlund SP-600JX, 200' terminated LW, 1200' E/W Beverage
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118
GE long-range portable, Sh-2

- 540 KVPJ CA, Redding 12/4 1846 fair at SSS w/ID, relig. mx. (EH-WA)
?KNNX? NM, Las Vegas 12/5 0922 SS talk & mx, no ID hrd. Loud & clear.
Many other stns from NW hrd today. (JH-CA) (Try for their EE
s/on at sunrise--0900 in Dec., 0915 in Jan.--NH)
- 570 KCNO CA, Alturas 12/6 1820 fair w/ments of Alturas, ID into C&W
mx. KVI nulled. (EH-WA)
- 580 KRSA AK, Petersburg hrd fairly well again 12/3 from 1005, w/nx,
"Channel Chatter", sports, spots, etc. Seems to be a regular
o/domestics (lower 48), hrd several times lately. (PK-OR)
KFXD ID, Nampa-Boise 12/5 0900 oldies mx, legal ID, fair, fading
in & out moderately. (JH-CA)
- 590 KSUB UT, Cedar City 12/4 2110 pop mx, DJ gave big ID "5-90, K-S-U-E
Cedar City, Utah", into Barry Manilow song. Good. Also 12/5
0900 $\frac{1}{2}$, caught their s/on, also good. (JH-CA)
- 600 KCLS AZ, Flagstaff 12/5 0900 out of NBC nx, Yl anncr "K-C-L-S,
Flagstaff, it's 17 \circ ", gave wx forecast, into soft mx. Good. (JH)
KNYO CA, Independence hrd well o/unIDs 12/6 1130 w/lots of spots,
and C&W (K. Rogers) mx, topped freq. for quite a while, for
only 500w (listed). New. (PK-OR)
- 700 WLW OH, Cincinnati 12/4 2120 out of song, male DJ "700, W-L-W at
9:20". Good, in fact about the loudest clear channel at this
time, except for WOAI-1200, KSL-1160 & KOA-850. (JH-CA)
- 730 KBOY OR, Medford 12/4 1940 fair at SSS in CKLG fade w/ID into rr
mx. (EH-WA)
CKDM ME, Dauphin 12/4 0725 good w/C&W mx, TC of 6:25am, ID "73
C-K-D-N". CKL; nulled. (EH-WA)
- 760 *KFWB* CA, San Diego 12/5 0530 noted w/OC, TT later on. (RW-CA)
+12/5 0540 noted w/OC, TT. (EH-WA)
- 810 KAFE NM, Santa Fe 12/5 0915 u/KGO, then on top for awhile to hear
ID & temp, ads; fair then poor. (JH-CA)
- 860 KWHO UT, Salt Lake City 12/4 1857 fair in KTRB null at s/off w/ment
of KWHO-FM. (EH-WA)
- 870 KAIM HI, Honolulu 12/5 0318 good way o/WWL w/church service in some
strange dialect. (RW-CA)
- 910 ?KBIM? NM, Roswell 12/5 0926 tent., nx story, talk on northwest NM,
into ad for First Interstate Bank, faded, mixing w/KJJJ. (JH)
- 930 KFLG AZ, Flagstaff 12/5 0933 ad for S. AZ Auto Club, ID, temp.,
ment. bumper sticker contest for KFLG & FM KAPP, MOR mx.
Good. (JH-CA)
KSEI ID, Pocatello 12/4 2125 hrd Idaho St. basketball game, no ID,
then got definite ID 12/5 1000, also ment. FM 104. Fair. (JH)
- ?KCCC? NM, Carlsbad 12/5 0932 out of Mutual nx, ad for Ford, slogan
"K-C-93", faded out. Poor. (JH-CA) (KSEI also uses "K-C"
slogan. Both KSEI & KCCC are Mutual.--NH)
- 950 KKIC ID, Boise 12/4 1825 very good signal in KJR null w/C&W mx,
"Country Kicks" slogans. No sign of KMTX for some time now. (EH)
KNFT NM, Bavid 12/5 0920 tent. ID, ad for Radio Advertising
Bureau, end of PSA gave address for Silver City, NM. Into
relig. mx. Fair. (JH-CA)
- *KJR* WA, Seattle 12/6 0418 noted ET'ing w/OC on rare SP. (EH-WA)
- 990 KKIS CA, Pittsburg 12/2 1932 fair at SSS w/local nx, "K-Kiss"
slogans. KOMO-1000 slop. (EH-WA)
- *KKIS* 12/1 0330 noted w/a strange sounding TT, like a jet taking off,
o/Larry King! Also, now carries a sports program 2200-0300. (RW)

- 1050 KOFY CA, San Mateo topping freq. 1930-2000 (s/off) w/soul mx, amnts in EE/SS, way o/all, until 1950, when XED was taking over. (PM-OR) (Date?-NH)
- 1080 KRFX UT, Price 12/4 approx. 1855 DX'ing in car on way to Beverage site, pop mx, ID o/u KSCO. (JH-CA)
- 1090 KANN UT, Ogden 12/4 1845 also hrd in car near 29 Palms, contemp. Christian mx, many IDs. Fair to good. (JH-CA)
- 1100 KREX CO, Grand Junction 12/5 1045 ID, sports mx. Good. (JH-CA)
- 1130 KWKH LA, Shreveport 12/4 2050 many IDs, C&W mx. Loud. (JH-CA)
- 1150 ?KDEF? NM, Albuquerque 12/5 1050 tent. ID, poor mixing w/other stn.
- KAGO OR, Klamath Falls 12/5 1058 legal ID, wx. Fair.(JH) (JH-CA)
- 1170 CK?Y AB, Red Deer 12/6 0310 weak w/ID, C&W mx. KLOK nulled, KPUG off. (EH-WA)
- 1190 KLIF TX, Dallas 12/5 0000 ad, ment. Dallas, barely hrd call letters. Poor. (JH-CA)
- 1230 KYVA NE, Gallup 12/5 0003 faded up, good & clear, male voice "...the voice of the fighting Bengals, K-Y-V-A, Gallup." Into spot. Good. (JH-CA)
- 1240 KNNY CA, Monterey 12/6 0300 hrd well o/all w/s/off info.(PM-OR)
KSUE CA, Susanville 12/6 hrd in & out of the jumble w/spots, and KSUE ID at 2130. (PM-OR)
KFLI ID, Mountain Home 12/6 0137 briefly on top in KNNY null w/wx. (RW-CA)
KELK NV, Elko 12/6 0245 way on top w/promo for high school BKB on KELK, then o/u mess after. (RW-CA)
- 1280 KBRQ CO, Denver 12/4 2015 C&W mx, ID, poor w/lots of fading, mixing w/another stn. (JH-CA)
- 1330 KHYT AZ, South Tucson 12/4 1140 pop mx, ID "new 13-30, K-Hit." PSA for CB, REACT, ment. channel 9. Fair. (JH-CA)
KGAK NM, Gallup 12/4 1143 "9:43 at KGAK", C&W mx, good to fair, mixing w/KHYT. (JH-CA)
- 1340 KWXY CA, Cathedral City 12/4 DX'ing in car on way to Beverage site, 1800-1803, ads, TC, more ads, finally, gave ID (legal) 1804, into BTFL mx. Fair. (JH-CA)
KBET NV, Reno topping freq. for a while w/Christmas spots, ID, and wx at 1933. (PM-OR)
- 1350 KIDN CO, Pueblo 12/4 2003 C&W mx, ID, slogan "Kid'n Country". Fair. (JH-CA)
- 1370 (KEEN) CA, San Jose 11/30 0413 knocked off air due to very strong storm through area, OC until 0445 when back on RS. (RW-CA)
- 1380 (KTOM) CA, Salinas 11/30 0420 also noted totally off, also possibly knocked off air. Freq. virtually dead except for KGMS.(RW) 12/6 0437 good w/ID, C&W mx w/KRKO off. Sounded like RS. The NRC Log lists their s/off as 0300? (EH-WA)
- KSRV OR, Ontario 12/5 1110 hrd ID, good. (JH-CA)
KTSM TX, El Paso 12/4 2200 out of PSA, "This is K-T-S-M, El Paso, it's 46° at 9 o'clock." Into NEC mx. Good. (JH-CA) (El Paso is on Mountain Time. 2200 should be 8pm there.--NH)
- 1390 KJZJ CO, Denver 12/5 0815-0830 mix of pop & jazz, YL DJ, "K-J-J-Z" and "K-Jazz" IDs. 0830 had feature called "Career Woman of the Day". (JH-CA)
KSLW OR, Salem 11/22 0110-0130 MM fair to good w/some deep fades. Almost certain my unID is KSLW, as I checked map of Oregon and found Willamette Valley as DJ gave wx for this area. Singing jingle, muddy, sounds like KSLW. New. (JH-CA)
- 1400 ?KCHS? NM, Truth or Consequences 12/5 0315 tent. ID, poor "K-C-?-S", C&W mx, in GY mess, faded out. (JH-CA)
- 1450 KDXU UT, St. George 12/6 0845 poor w/KEST w/local spot. (RW-CA)
- 1460 KQTE CA, Santa Rosa 12/5 this is now a regular all day, since KWIP moved to 880, w/KNWX way behind, noticed w/MOYL at 1513.(PM)
- 1470 KUFY CA, Palmdale in & o/KXOA 12/6 0410, w/C&W mx, Christmas greeting spots, listed w/500w at night, not a bad signal. New. (PM)
- 1490 KJQM UT, Ogden 12/5 0345 ID "K-J-Q-N", ment. Cougars sports, wx. Fair. (JH-CA) (Bill Harms, aren't these guys still "K-J-Q" except on the hour?--NH)
KOWL CA, South Lake Tahoe 12/6 hrd in passing w/ID at 0300. (PM)
- 1500 (KHFT) CA, San Jose 11/30 0410 noted totally off, also possibly knocked off due to storm. Not back on RS by 0530. (RW-CA)
- 1510 KTIM CA, San Rafael this also seems to be a regular, hrd all day on 12/5 w/Big Band mx, caught 1526 on 12/6 also. (PM-OR)
- 1520 KAMX NM, Albuquerque 12/5 0843 pop mx w/KOMA, then strong, o/KOMA. ID "Good morning, this is Albuquerque Now". Fair. (JH-CA)

- 1550 KVAN WA, Vancouver 12/5 1200 mx, male voice "This is K-V-A-N, Vancouver". Into AP net nx. Good. (JH-CA)
 1600 KIAK CO, Lakewood 12/4 2006 "You've come to the far right of your dial, Radio-16, K-L-A-K, where all the good songs have gone". C&W mx; good. (JH-CA)

F/C's per list:

- Dec. 1st MK 0245-0300 KGHL--790 MT (RW-CA)
 0300-0330+ KQIK-1230 OR (RW-CA)
 0330-0??? KWCL-1240 ID (RW-CA)

UNIDs:

- 610 12/4 2115 male DJ "61 Country..." C&W mx. Poor. (JH-CA) (Most likely WDAF-MO.--NH)
 1280 12/5 1112 CNN nx, ads for the super station (WTBS-TV). Good. (JH-CA) (Both KDYL & KBDF use CNN.--NH)
 1380 11/30 0441 unID noted w/Larry King. Ideas? (RW-CA) (KTSN-TX & KOTA-SD are listed.--NH)

Happy New Year everyone! ♥

Radio World
 December 15, 1982
 via Pete
 Taylor

AM Broadcasting in the PRC



John Battison

Columbus OH ... This month's column will take us far afield from the United States for a look at broadcasting in the People's Republic of China.

In September, 1982, I gave a 30-hour medium wave (AM) directional antenna course to the graduate students of the Beijing (Peking) Broadcasting Institute in the People's Republic of China. I was invited to teach this course by the People's Republic when I visited the same institute with Dale Ouzts, the General Manager

vices, as well as the "local" 350 kW medium wave transmitter operating on 720 kHz, are located here. Another medium wave transmitter, located on the other side of town and operating on 639 kHz

interior of one of the transmitter halls with the medium wave transmitter at the far end. The equipment was fairly old, but very well maintained, and interiors were spotless. In fact, not a speck of dust was anywhere in sight; quite different from many US transmitting plants that I've inspected!

Modulation techniques

Standard high level modulation techniques were employed and the control desks are shown in Figure 2. In view of the FCC's recent move to eliminate type-approval of modulation monitors I wonder what the Commission's reaction would be to the monitor shown in Figure 3.

All transmitters, both medium wave and HF, use CRT's with a trapezoid pattern for modulation level indication. Very little compression is used and, from an eyeball judgement, I guessed about 70 to 80 percent was the average modulation level!

The HF antenna installation shows the usual type of overseas antenna installation: curtains, dipoles and rhombics. For AM, the 720 KHz radiator is approximately 180 meters high, non-directional, and is fed by a 150 ohm open wire coaxial
 Continued on p22

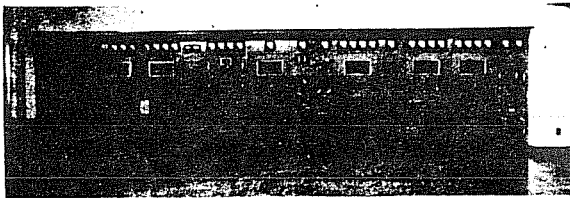


Fig. 1. 350 kW, 720 kHz Shaanxi transmitter (not much larger than old Westinghouse 50 kW TX formerly used at WWWE, Cleveland OH)



Fig. 2. Overall view of HF & MF transmitter hall at Shaanxi

of WOSU stations, to lecture on television in 1981. Because Beijing is probably typical of the larger cities in China, my recent visit there provided an up-to-date glimpse of broadcasting in the People's Republic.

Beijing transmitter complex

The main transmitting plant of the Chinese Broadcasting Administration is located at Shanghai—about five miles west of Beijing and about two miles past the Broadcast Institute. Eight HF (short-wave) transmitters used for overseas ser-

with 300 kW, also serves Beijing.

As a matter of interest, I was informed that I was the first American ever to visit the HF and medium wave transmitting complex in Beijing!

Figure 1 shows a general view of the

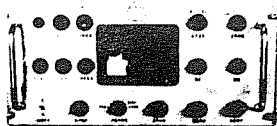


Fig. 3. Modulation monitoring by trapezoid!

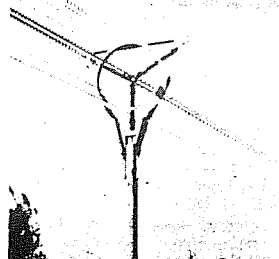
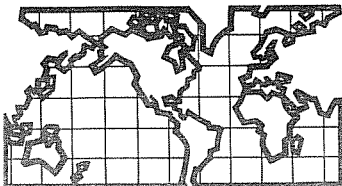


Fig. 4. Something not often seen in the USA these days—a 150 ohm open coaxial transmission line



DX WORLDWIDE - WEST

Pat Martin - Editor

P.O. Box 843, Seaside, Oregon 97138

(503)861-3185 · deadline MONDAY

We only have a short column for you this week. Few reports, and conditions haven't been the greatest. Quite a bit of Pacific stuff has been heard here, but nothing new. On with reports: Oh yes, we have a new reporter this week, also, Mike Burns. Welcome to the DX Worldwide-West Column, report often.

PAN-AMERICAN DX ROUNDUP

- 800 NETHERLAND ANTILLES, Bonaire-TWR hrd w/Xmas mx at 0054, into nx on the hour with ID. Rock solid signal as strong as KOA here. All alone on frequency. (MB-Ca) (Date??? PM)
- 825 ST. KITTS, Radio Paradise-12/5 OM reading Caribbean area nx w/ment. of Antigua at 2300 in accented EE. Into hymns at 2305. (MB-Ca) (It sounds like your times are in EST, please report in GMT. PM)
- 1220 COLOMBIA, La Voz de la Colombia Romantica, noted at 2345 w/OM introducing musical pgm in SS (MB-Ca) (Date?? PM)

TRANS-PACIFIC DX ROUNDUP

- 549 AUSTRALIA, Orange-2CR heard fairly well at 1100 w/ABC mx, after Times on 12/13. (PM-Or)
- 558 FIJI, Suva-Radio Fiji here w/OM in Fijian at 0744 on 12/13. (PM-Or)
- 639 FIJI, Lautoka-Radio Fiji 1, heard local-like, with KFI off at 0815 on 12/13 (PM), man in Fijian, no het. (PM-Or)
- 648 AMERICAN SAMOA, Pago Pago-WVUV, vy strong w/KORL off at 1000 on 12/13, OM in EE w/US rr, broken EE, no het, but a little DU QRM-648. (PM-Or)
- 666 NEW CALEDONIA, Noumea-FR3, fair w/YL in FF, lite Jazz at 0834-12/13 (PM)
- 684 FIJI, Labasa-Radio Fiji, here w/Island mx, in 680/690 alop at 0919, on 12/13 (PM-Or)
- 738 TAHITI, Papeete-FR3, here vy good next to KCBS (almost equal), at 0445 w/US Pops, YL in Tahitian, later heard OM in FF, good all eve. until s/off at 0730 w/anthem, on 12/13. (PM-Or)
- 774 FIJI, Suva-Radio Fiji 2, heard with OM in EE to 0700, with OM in Hindi after 0700, ment. of Radio Fiji 2, on 12/13 (PM-Or)
- 790 HAWAII, Kealahou-KKON, here on top w/fair signal, w/rr mx, OM ment KKON, w/TC at 0820 on 12/13, while looking for KCEE test, not needed but nice to hear. (PM-Or)
- 810 FIJI, Labasa-Radio Fiji 1, hrd way under KGO all eve. on 12/13, mx OM in Fijian, later EE/Fijian. Not needed, but always nice to hear. Strange, but was giving KGO a little trouble, with one antenna. (PM-Or)
- 830 HAWAII, Honolulu-KIKI, 12/6 Live concert with girl singing and playing guitar, followed by YL ann w/ID at 0110. Also noted 1 hr later w/same pgm and male ancr. Weak (MB-Ca)
- 891 FIJI, Lautoka-Radio Fiji 2, hrd well // 774 at 0650-12/13 (PM-Or)
- 927 FIJI, Sigatoka-Fiji also good here w/Island mx in passing-0645 on 12/13 (PM-Or)
- 945 SOLOMON ISLANDS, Gizo-hrd // 1035 at 0715 on 12/13, OM in Fijian and EE mx. Haven't hrd in a while, fair (PM-Or)

VERIES:

- 580 ALASKA, Petersburg-KRSA, kind-of--a-verie here, from Washington Ham operator, made contact w/Ham Operator that is the CE at KRSA, sent Xmas card w/ QSL Message, thanking me for taped report, and ment. a written QSL will follow. TIM (AL7DS) C.E. KRSA. (PM-Or)

THANKS TO THESE REPORTERS: Merry Christmas and the best for 1983 to All!!!!

- MB-Ca Mike Burns-710 C East Elk Avenue-Glendale, California 91205
Lafayette HE-80 w/4 Foot Loop
- PM-Or Yer Editor-
SP-600 JX, 200 foot Terminated LW(NE), w/Ground system/.

DX WW II

EDITED BY
PETER V. TAYLOR
2614 JACKSON STREET
SAN FRANCISCO, CA. 94115

TRANS - PACIFIC

AUSTRALIA - A new National outlet, 6PB-738, 5kw DA, Manjamp WA goes on next year. VL2UV will move to 1692, and 1RPH (Canberra), 4RPH (Brisbane) and 7RPH (Hobart) go to 1620. 2RPH (Sydney) and 3RPH (Melbourne) go to 1629. All will have 500w (DXers Calling)

BRUNEI - Latest schedule. 594/200kw, 675/100kw in Malay 2200-1400. 972/1kw, 711/10kw in EE 2300-0030, 0300-0530, 1200-1400, and CC 0030-0300, 0800-1100; Ghurka programming 1100-1200, Sats. 0530-0630. Note that 891, 1098, 1242 as listed in WRTH are not on the schedule, and that 711 has been upgraded to 10kw (DXers Calling)

CAMBODIA/KAMPUCHEA - A new relay station has been established in Prey Veng on 11/26 (BBC) (no freq.-pt)

CHINA - Beijing-720 has 350kw UI from a 180 meter antenna which is fed by a 150 ohm open wire coaxial transmission line; Beijing-639 has 300kw (J. Battison, Radio World). "Radio Peking" becomes "Radio Beijing" on January 1 (letter from them--pt). **PLA-1** for offshore islands and Taiwan on 666/846/1017/1269 is on from 1000-2400 in Standard Chinese except Amoy 1200-1230, 1600-1630, 2000-2030 and Std. Chinese/Amoy weather 1130-1140 and 2300-2315. **PLA-2** on 819/954/1008/1377/1539 is in Standard Chinese 0400-1800 except Amoy 0530-0600, 0930-1000, 1430-1500, 1630-1700, and a Std. Chinese/Amoy weather pgm. 1100-1115. **Foreign Service:** Korean on 1018kHz 1100-1500 (Changchun-1017?? - pt). **English** on Guangzhou-1341 1200-1400 and Tagalog 1430-1500. **Hindi** on Kunming-1207 1500-1800 and **Vietnamese** on Kunming-1296 1130-1700. **Urdu** for India & Pakistan is on 1323 from 1600-1700 (BBC) (ITU lists Lhasa-1323 100kw DA 330 degrees (null 180-240 deg.) which wouldn't make any sense for that target area. Also, the 719, 1018, and 1207 are what we always get. I don't know if this represents loose conversion from meters, or if they're really on these freqs. The 719 with JJ service was readable from Shanghai in 1979 on 723 - pt). **Anhui PBS** observed on 915 & 1483. **Jining-1503** IDs as Ulanqab PBS. **Taiyuan PBS-1422** (Shanxi) noted (FERC). And in case you were holding your breath, the PRC station I logged on 677kHz from Hong Kong 11/19/75 was identified by the local consulate as NMPBS (Hohhot).

HAWAII - KKON-790 wants 800kHz, 10kw rather than 50kw. KAIM-870 presumably went 24h November 25. KPUA-970 Hilo does C&W 0400-1000. The 1310, 1380, and 1600kHz Hawaiians are not on yet. KGU-760 is now news/talk, competing with K10E-1080, but with a superior signal. Honolulu stations were off the night of the storm, with the exception of KGU and KKUA-690, which had emergency power. (Hawaiian update courtesy of Chuck Boehnke, who was recently there)

IRAN - A new 50kw stn. in Bushehr opened 11/19 (BBC) (No freq.-pt)

KOREA, NORTH - HLKY-837 Seoul now on 2000-1600 as of 10/1. HLAZ-1566 has KK 2000-2230, EE 2230-2240, CC 1000-1230 & 1345-1500, JJ 1230-1345, and RR 1500-1800. HLKX-1188 has KK 2030-0100 & 0830-1230, EE 0700-0830, CC 1230-1430, RR 1430-1500(FERC)

PHILIPPINES - DWRF-1476, Iba, Zambales, runs 5kw non-D. days with local programming before turning on the mighty 250kw DA rig at night (D. Lynneberg or C. Taylor, NZDXT)

SAMOA, AMERICAN - KBQN-585 plans 1600-1200 operation when it starts in early 1983 (WRTH via SCDX)

SIKKIM - AIR is operating a new 10kw outlet on 1125kHz in Gangtok (NZDXT)

TAIWAN - New BCC stations: Nan'ao-1449, 2200-1600, and Chengpin-1422. Kaohsiung Shih BS-1089 is new, 2155-1600. Hsien Sheng BC-774, Taoyuan, s/off 1700 (Sun. 1600). Cheng Kung BC, Kaohsiung, heard on 1044. Chaijo Yu BS-1494 is silent (Asian Bcg. Institute via FERC)

USSR - Far East/Asian Service:

585kHz: CC 09-13, 1330-2230

630kHz: JJ 0930-1300, 14-15

648kHz: CC 09-13, 1330-2230

720kHz: JJ 0930-1300, 14-15, 22-2230

801kHz: Mong. 0930-11, 12-1245 1430-15

CC 1130-12, 1245-1315, 1330-1430, 15-16, 18-21

810kHz: CC 1500-2200

827kHz: Mong. 1200-1245

900kHz: CC 1700-1800

1026kHz: CC 1500-2200

(The above from BBCMS, which lists the 585kHz XR as being on 583). New Siberian outlet in CC noted on 540 (DXers Calling). **Dushanbe-1143** has Dari 0200-0300, 1230-1300, 1400-1430, 1800-1830, and Persian 1530-1600, 1730-1800. **Yerevan-864** has Armenian 1530-1630, 1800-1830, 1900-2100, Kurdish 1730-1800 and 1314kHz has AA 1830-1900 (BBC).

1080kHz: Mong. 10-11, 12-1245, 1430-15

CC 11-12, 1245-1315, 1330-1430,

1500-1600, 1800-2100

1143kHz: Pashto 1600-1700

1170kHz: CC 14-1430, 1500-2100

1251kHz: CC 1500-2200;

JJ 0930-1500, 2200-2230

1476kHz: KK 0930-12, 1330-1400;

CC 1200-1300, 1400-2230

*864kHz: Pers. 15-1530, 1630-17, 1830-19



KPUA

The Flower of Big Island Broadcasting

T R A N S - A T L A N T I C

ANGOLA - RNA-A is on 702/944/1367 from 0400-2400. The 1088kHz outlet carries "A" 0400-0530 and 2300-2400 Mon.-Sat. and 0400-1600, 2200-2400 Sundays, and "B" 0530-2300 Mon.-Fri. and 1600-2200 Sun. Em. Regional da Luanda Sul is on 1241, and ER de Cabinda is on 1586 (WRTH/BBC via MWSC)

CHAD - RNT-840, N'djamena, is on 0530-0730, 0900-1300, 1600-2030. Radio Sarh-720, 1kw, poor signal (is hard to hear even a few km away) is on M-F 1500-1900; Sat. 1500-2030; Sun. 1500-2000 (WRTH via MWSC) (WRTH Newsletter via SCDX).

CZECHOSLOVAKIA - Usti-nad-Labem, 864kHz:6kw 0700-1700, 1kw 1700-0400 (DXC via MWSC)

GREECE - ERT is setting up a 300 million drachma monitoring facility in 1983 for checking radio frequencies and locating pirates (BBC)

IRAN - Sari-820 is a new outlet (BBC)

ITALY - Radio Milano Intl. is to commission a 5kw station on 1305kHz (they tested on 1458) (DXers Calling). Programming is automated and is from World Music Radio, formerly on Radio Andorra (WRTH via SCDX). Noted on 1300kHz (HGV, TL, TS in ARC)

MALTA - DW-1557 is back on. The dispute with the government is over (BBC)

MOROCCO - Radio Mediterranean Intl. continues on 1044/1233 (& 173LW) with news in FF & AA at 2200 & 2300 respectively (BBC)

SENEGAL - The Senegal outlets mentioned last issue on 1305 & 1503 are on 0600-2200 (WRTH via MWSC)

SOUTH AFRICA/TRANSKEI - "Radio Goodwill," a new religious station, will rent the old Capital Radio 500kw rig in Herschel and will operate at nights on 1200kHz. Capital itself will install a 100kw XR in Butterworth to operate on 585kHz, DA towards East London, and a 100kw XR in Umzumkulu with DA towards Durban. They are moving studios to Johannesburg (Dave Cherry, Capital Radio CE, in DXers Calling)

SPAIN - AWR Europe began 3 months of tests in September to determine its Northern Africa coverage on EAJ55-1260, R. Algeciras, 5kw. The 10 min. AA programs were at 2120 (L. Stejskal & J. Crespo, SCDX)

SWEDEN: Schedule through March 6, 1983 (half hour programs) on Horby-1179: EE 1600, 1830, 2300. PP: 1730. FF: 1800, 2030. GG: 1630, 2000; SS: 2230; RR: 1930, 2200. At other times it is on the air, it is in Swedish (RSI schedule from SCDX)

USSR - European Foreign Service (not incl. RMWS EE service):

936kHz: Serbo/Croat 17-1800, 20-2100

1314kHz: AA 1630-1830, 1900-2130

Ital. 2100-2200

1431kHz: Alb. 1530-16, 18-19,

972kHz: AA 15-1630, 1730-1830, 19-20, 21-2130

1930-20, 2030-2100, 2130-2200;

Turkish 1630-1730, 1830-1900, 2000-2100

Greek 1600-1630, 1730-1800, 1900-1930,

1143kHz: Polish 0430-0630, 1500-2200

20-2030, 2100-2130;

1170kHz #1: Turk. 1530-16; Yid. 16-1630;

Bulgarian 1630-1730

AA 1630-1730, 1830-2130

1494kHz: Norw. 16-1630, 18-1900;

Hebrew 1730-1800; Greek 1800-1830

Finnish 1630-1800; Swedish 1900-

1170kHz #2: Czech 16-17; Czech/Slovak

2000; Danish 2000-2100

17-1730, 1800-2000; Hungarian 1730-1800,

1548kHz: Romanian 1600-2000;

2000-2100; Italian 2100-2200

Italian 2030-2100

From another list, **Radio Kiev**-1548 has Moldavian 2000-2030* and 1242kHz has Ukrainian 2200-2400* (*-unconfirmed). **Radio Riga** has Swedish Sundays 0800-0830 on 576, and 2130-2200 Tue.-Thu.-Sat. on 576/1350/1422. **Radio Tallinn**-1035 has Finnish Sun. 0800-0900*, and on Mon.-Sat. from 0915-1000* and 1600-1630; Swedish 0900-0930* Sun. and 2105-2135* Mon.-Sun. **Radio Vilnius** has EE 2230-2300 on 666/1107/1557 (BBC)

YUGOSLAVIA - Radio Pristina-1413, 1000kw, began operation 11/26 in Albanian, Serbo-Croatian, and Turkish; it is on 19 hours a day. Another 1000kw station, in Zadar, goes on in 1983 (BBC) (no freq-pt)

ZANZIBAR - R. Tanzania is upgrading the facility here to 10kw, but it will stay on 584 (DXers Calling)

ZIMBABWE - New city names: Chipinge (ex-Chipinga); Nyanda (Ft. Victoria); Kadoma (Gatooma); Gweru (Gwelo); Kwekwe (Que Que); Harare (Salisbury); Mutare (Umtali); and Mthwakazi (BuWayo) (BDXC via MWSC)

UNID - "Radio Nacional de la Rep. de Sahara Democratica" w/Polisario program in SS noted in Scandinavia on 1355kHz (HGV, ARC)

P A N A M E R I C A N

COLOMBIA - Radio Sindamanoy-1300 5kw, Mocoa City, has CP (BBC). HJTU-1360, R. Reloj, Cartagena, is 7.5kw. HJZH-1500 R. Disco, Medellin, 5kw (MWSC)

CUBA - R. Surcos, Ciego de Avila, celebrated its 30th anniversary on 10/10 by increasing power to 15kw on 1190kHz. It also inaugurated a 500w provincial music station, "Radio Musical Avilena" (BBC via ARC) (no freq.-pt)

HONDURAS - Radio San Pedro-850, San Pedro Sula, was briefly seized by members of the "Lorenzo Zelaya Rev. People's Command" on Nov. 20 (BBC). (Zelaya is a province in Nicaragua but I don't know if there is a connection - pt). (Not only that, a newer BBC article says they took over Radio Fiesta-1120 instead - pt). The UNID station heard down under on 790kHz was Radio Satellite, Tegucigalpa, 1kw 24h (IRCA member Don Moore in DXers Calling)

MEXICO - XERA-760, San Cristobal, is on with 5kw 18 hours a day in 6 languages for the Indians of Chiapas; it is a government station (Toronto Globe & Mail via SWNS). Another report, from BBOMS, says there are six radio stations broadcasting in Indian dialects to the approx. 5 million Indians in Mexico: (1)La Voz de la Montana, Michoacan state, in Perepecha; (2)LV de los Chontales, broadcasting in several dialects to the

Lacadone, Toztile, and Chontale Indians living in SE Mexico; (3)LV de la Mixteca, Oaxaca, in Mixteca; (4)Radio XEPET in Yucatan, in Mayan; (5)LV Tarahumara, recently inaugurated in Chihuahua state, in Tarahumaran (BBC) (yep, only 5 were listed...-pt)

PANAMA - R. Tic Tac-1080 Panama City is on 1100-0530; R. Continente-700 is 24h (BBC)

TURKS & CAICOS - ARC, FERC & ADXN take note. The correct Caicos Beacon name is Dan Durrigan (not Durringham), Quality Media Corp., Box 7008, Columbus GA 31908, as per an interview on Radio Nederlands (pt)

Credits. A special Happy New Year thanks to all of our friends and organizations who supply us with material each issue: BBC - BBC Monitoring Service (copyrighted). NZDX - NZ DX Times. SCDX - Sweden Calling DXers. CAT - Charles A. Taylor in Okinawa. WRTH - World Radio TV Handbook. DXers Calling (DX Australia publication). Chuck Boehnke, frequent "big island" visitor. FERC - Far East Radio Club (Japan). MWSC - Mittelwellen Special Club (W. Germany). Thanks everyone for helping IRCAs keep up to date with the latest foreign broadcast information. We are now getting regular information from Asia (Japan), Oceania (NZ & Australia), Africa, and Europe, and I am working on a South American exchange.

中华人民共和国

广西人民广播电台

GUANGXI PEOPLE'S BROADCASTING STATION
THE PEOPLE'S REPUBLIC OF CHINA

If you wonder why WRTH never meets your expectations when it comes to Latin American accuracy, digest these figures relating to questionnaires sent to stations compared to responses: Costa Rica 32 sent, 2 responded; Dominican Republic, 105/19, Guatemala 92/9, Haiti 24/2, Honduras 88/9, Mexico 11/1, Nicaragua 58/2, Panama 47/5 (Central America: 510/59, 11.5%). South America: Argentina 148/17, Bolivia 143/19, Brazil 1007/105, Chile 146/24, Colombia 313/49, Ecuador 245/24, Peru 201/22, Uruguay 79/16, Venezuela 151/13 (2433/289, 11.9%). As you can see, loggings and DXer visits cannot possible compensate for the 88% non-return...

We are now on an exchange basis with MWSC and its publication, Skala. It is excellent. However, it is written in GG, and while I can make my way through ARC (much of it in EE), I have had to make a few phone calls to some GG speaking friends for help! If you are interested in your own subscription, write Wilhelm Herbst, Postfach 45 0767, D-5000 Koln 41, W. Germany. MWSC has about 240 members and was founded in April 1977 and is exclusively MW. We look forward to a mutually beneficial relationship with MWSC. (Thanks bp for setting this up-pt).

And that does it for 1982. A super 73 in 83 desde pt. And a thanks to Art Peterson for the Wade Giles/Pinyin compilation -- alot of work! (Where's Ulanhot?)

Continued from Page 18

transmission line shown in Figure 4. The HF transmitters were also fed by open lines.

Forgotten FM

Many years ago, during the birth of FM, "many people said" the initials stood for "forgotten medium." I must admit with embarrassment that, because of my interest in the AM operations and, I suppose, partially due to the fact that I had gone to China to discuss AM DA's, I completely failed to obtain much information about the two FM channels in Beijing! They operate on 95.6 and 98.2 MHz. The other AM station operates on 639 kHz with a power of 300 kW.

The Vice President, Director of Engi-

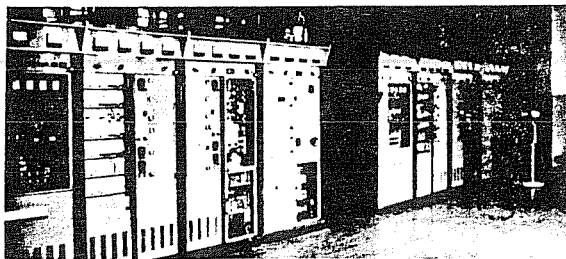


Fig 4. FM transmitters, CBAC Station, Shanghai

neering and Chief Engineer of the transmitter station are shown in Figure 5. My interpreter wrote down their names for me, and after our visit gave me the paper. On reviewing my notes on my return to the States I discovered he had written it down in Chinese! So for the moment, these three fine people must be anonymous.

It was interesting to note that the Chief Engineer, standing on the right in the photograph, is a woman. The idea of sex equality appears to have caught on far better in China than it has in the United States!

This tour of China ended with a visit to Shanghai and there I was greeted by the Vice President, Chief Engineer and the Group Leader of the Antenna Group, Messrs Fan Yu-Xian, Wang Zhu Yun and Wang Zhigiang.

We did not visit the medium wave antennas, but I visited the television and FM tower. The FM transmitter shown in Fig-

ure 6 was built in China, and recently was replaced by a new transmitter. These transmitters are located at the foot of the broadcasting tower and standard practices are observed in the transmission and radiating system.

The studios in Shanghai appeared to be newer than those in Beijing, are larger, and have newer technical facilities.

In all, this was a busy, successful and most rewarding trip. My wife, Sara, accompanied me—also as a guest of the Chinese—and she taught English while I was running the directional antenna course.

It was fortunate she was with me because in common with many visitors to China I developed an acute attack of bronchitis during the last few days of my visit. But it was well worth the effort. The graduate students were very responsive to the DA material and three of them are enrolling in The Ohio State University this year!

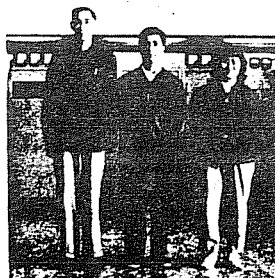


Fig 5. (l to r) Vice President of School Transmitter Station, Director of Engineering and Chief Engineer

Verification Signers

Rob Gerardi
420 1/2 N. Main
Benton JL
62812

560 KWTO q (f/u) by Unsigned CE (KVJ)
KSFO v/f Unsigned (BP)
WIS v/l Jack G. Lovelady, Engr. (DLR)
570 WNAX v/f, CM, Strk. Jenny Oster, Operations Manager (BP)
650 WSM v/l Charles E. Burch, CE (WS)
780 KROW v/Strk (1), & 2 other strks. John Gradijun, CE (BP)
830 KBOA v/l Mike Shaw, CE (KVJ)
860 WDMG v/q Wm. B. Fletcher, CE (CG)
870 WGTL q Fred H. Whitley, Pres. & Gen. Mgr. (Visit) (KVJ)
910 WEPG y/l Eaton P. Govan III, Manager (Visit) (KVJ)
WGAF v/l Alan Murray, Gen. Mgr. (DLR)
930 WJAX v/l Richard Langolis, P.D. (DLR)
WSLI v/l Walt Grayson, Oper. Mgr. (KVJ)
CKNS v/l (f/u) Dal Ross, Oper. Mgr. (KVJ)
970 WBKH v/l Franklin Davis, Gen. Mgr. (KVJ)
980 WDVH q Wayne Payne, Gen. Mgr. (KVJ)
WPIP q (f/u) Robert George, P.D. & CE (KVJ)
1000 WXTN v/l Fanny Cothran, Mgr. (KVJ)
1030 WBDX v/l Richard Albright, Oper. Mgr. (DLR)
1060 WSKY v/l Jeff Hoover (KVJ)
1090 WSLG v/l Ted Sauceman, CE (DLR)
1140 WIXC v/l Bill Monk (KVJ)
1190 WHIY v/f Rice Towry, PD (KVJ)
1230 WSBB v/l Thomas P. Smithers, Mx Dir. (KVJ)
KLIC v/q (f/u) Don Kelley, PD (KVJ)
1250 WLCK v/l Reba Lonas (DLR)
1270 WLSM v/l Ann Tolar (KVJ)
WHYD v/l Bill Routon, Oper. Mgr. (KVJ)
WLSM v/q Ray Tolar, Gen. Mgr. (KVJ)
1280 WITB v/q Unsigned, CE (KVJ)
1300 WSYD v/l Farah S. Hull, PD (KVJ)
1320 KWHN CM, Station profile w/ verification typed onto it,
signature illegible by C.E. (GG)
WAGY v/l Donna Shir1, Oper. Mgr. (KVJ)
WVOJ v/l John F.X. Davis, Gen. Mgr. (DLR)
1390 WANY v/l Randy Speck (DLR)
1440 WHHY v/l Margie Robinson, Program Secretary (DLR)
1450 WBHF v/l Hershell Wisebram, Station Mgr. (KVJ)
1460 WDOG v/l H. Carl Gooding, Pres. (KVJ)
WROY v/l Peter Gude, Ch. Oper. (KVJ)
1480 WTILO v/l J. Allen Brown, Gen. Mgr. (BP)
1490 KOWL v/l Mark Lennartz, PD (KVJ)
WYSL v/l D. Fulghum, Office Mgr. (KVJ)
1530 WXPQ v/l Chester Alexander (DLR)
1550 WYNX v/l Allison Owens (KVJ)
1570 WTLK v/l Lonnie Carrigan, PD (Visit) (KVJ)
WCRL v/l L.D. Bentley jr., Mgr. (KVJ)
1600 WOKB v/l Lebli Schorr, Traff. Dept. (KVJ)

AND THESE OUT OF PLACE, Sorry
680 WCTT v/q Ken Ambern (DLR)
1330 KFH v/l Pam Kibly, Public Relations (DLR)
1460 KSO v/q Joe Raskas, CE (DLR)
1480 WABB v/l M.W. Peacock, CE (DLR)

WITH A BIG THANKS TO:

CG=Charles George, 6407 Howard, Dallas, TX 75227
KVJ=Karl V. Jeter, 3590-C Clubhouse Circle East, Decatur, GA 30032
BP=Bruce Portzer, 6546 19 Ave. NE, Seattle, WA 98115
DLR=David L. Reitz, 9332 Fairground Rd., Fern Creek, KY 40291
WS=William Steinberg, 1901 Whiteface Ct., Virginia Beach, VA 24456

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