The establishment of the first 50,000-wett transmitters west of the Appalachians was a major event in radio history in the United States. In the days when stations placed a premium on the skywave and services to large areas, the first 50-kilowatters in Cincinnati and Chicago became the first stations actually able to serve tremendous areas of the nation.

In the fall of 1927, 50,000-watt stations were located in New York, Schencetady, and Pittsburgh -- "EAF (now MNBC), "GY and KDKA, respectively. However, transmission conditions were and are always unfavorable in the region from Pittsburgh on castward, end none of these three ever managed to deliver e potent signal across great distances. WJZ, New York (now MABC), was rated at 30 kilowatts.

The story of high power at Cincinnati began in another place altogether, with station No. 296 in my logbook, a mystery station in a strange place and with a totally different sort of call letters. The notation reads, "3XN, Whittany, N.J., 428.3 meters, Boll Telephone Co. experimental station. Organ, Song of the Wanderor, testing, 11:40 p.m. Nov. 4, 1927." It was not until some time later that I learned the name of the teum was Whippany, and that there was good reason for testing on that wavelength, which is 700 kc.

As it turns out, this same transmitter rakes a second appearance in my DXing records, as No. 396, on Oct. 18, 1928. The notation reads, "M&XAL, Cincinnati, Ohio, Chennel 70, 50,000 watts, 11:29 p.m., testing," and I added the comment, "Tromendous signal strength." At that time, I was living in Dallas, my DXing location from 1926 to 1931.

I do not know whether Foucll Crosley commissioned Bell Telephone to build that transmitter for MLM, or whether Bell built it on its own first and then sold it to Crosley, but whichever way it was, that transmitter first took the air in New Jersey. It soon supplented the 5,000-watt WLM of 1928, and the radio audience across the nation got its first tasts of a full-time, far-ranging skywave service. MLM was commonly described as "like a local" at night from Maine to Texas, and from Florida to Hontana.

Today's DXers should remember that these were the days of flattop transmission antennas which radiate highly-superior skywaves, as compared to today's vertical radiators. As an oldtime DXer, I am halfway persuaded that today's 5C-thousand-watt stations deliver skywaves not much stronger than the 5,000-watt transmitters of that ora. The present iLW with its vertical radiator concentrates remarkably-steady signal strength within about 175 miles from Mason, Ohio, at which distance its first fading zone begins. The purpose of the vertical rediator is to improve the signal in the primary area, yet it reduces it at distant points.

Monnwhile, the first 50,000-watt station took the air in Chicago. It made its first appearance in my legbook on March 27, 1928. The notation reads, "MOXF, Downers Grovo, Ill., 288.3 motors, (1040 kc) 50,000 watts, 4:06 a.m. The now transmitter of WENN-IMEON."

LBCN of that day soon merged into WENR and becars extinct, which is the story of so many old stations. After this, the 50-kw MENR divided time for about three years with a 5-kw MLS until the latter began using the same transmitter, too. It was in the 1940's when the newborn MBC Network purchased both stations, put the venerable WENR to death, and left MLS as the 50-kilowatt survivor.

(For at least 35 years of its life, MLS was mainly known as a country music station on a par with MSM. The younger generation of the Thirties, Fortics and Fifties would not have been found dead listening to MLS.)

By the fall of 1928, two 50-kw stations were on the air in the Midwast, but the Chicego station was only a half-time affair, and its program; quality never came up to the fine signal it radiated. Meantime, WLW was beginning its astounding 25 years in which these call letters became the cost distinguished in the world, and a professional career at WLW became the equivalent of a degree from Hervard. Many major contributions to big-time radio, both in program fare and connercially, were originated and perfected in the old Arlington Street headquartors of WLW in Cincinnati's Will Creek valley. I will name just one, the first scap opera. "Ma Parkins." Some may snear at the scap opera, but also remember that it dominated daytims network redio for 20 years. NBC filled the daytime period with about eight hours of scap opera, and CBS "scepers" weren't far behind. Some opera was born at WLW.

No other station ever influenced the whole structure of broadcasting to the same extent, and set the standards for excellence over such a long period of time. WLW spent heavily for talent and program development in these early days before radio fully realized it was soon to be the No. 1 advertising medium.

Within two years of the inauguration of 50,000 watts at Cincinnati, WLW advertising rates were the highest in the nation. Programming enterprise hitched to that far-renging clear channel signal gave it a large and far-flung audience numbering in in the millions. As a slogan, "The Nation's Station" contained as much truth as puffery. In the period of 1929-30, there was even a small station in the Arkensas Ozerks which relayed MLW efter sundown as its regular night-time program fare, taking Cincinneti right off the air and fooding it into the transmitter. I con't imagine how they handled the commercials, or if they carried them gratis. I believe this station was KFPW, Siloam Springs, arkensas.

On November 10, 1928, the Federal Radio Commission announced grants for higher power to many stations, and the system of classifying frequencies as clear, regional, and local was discernible for the first time.

Stations authorized to build to 50 kilowatts included WSK, KAOX, KFI, MTIC, MJZ (now WABC), MBAP, MFAA, and NOAI. Ten-thousend-watt authorizations were given to KRLD, KGO, MHAS, MCCO, and MTFF (now MTOP). KOA was authorized to build to 12,500 wetts.

Five-thousend-watt grants went to WAFI, KNX, KPO (now KNBR), WSB, WMAQ, WOWO, WOI, KARH, WAL, KFAB, WPTF, WRVA, KJR, WWVA, WRR, KYW Chicago, KTNT Museatine, Iowa (now extinct), and KFKE, Eilford, Kansas, the encestor of the present KFDI, Wichita.

(KYW is the most extensively-traveled set of call letters in radio, for Westinghouse has transferred it from its original Chicago to Fhiledelphia to Cleveland and back to Fhiledelphia.)

Various shall stations now set out to become as large as the major powerhouses of MLW and WENR. For the Dallas Morning News, this meant building JFas from 500 watts to 50,000, and for Earle C. Anthony, the Los Angeles-San Francisco Peckard automobile dealer, it meant raising KFI from 4,000 to 50,000.

The race to become the 6th 50,000-watt station in the U.S. was won by WFAA, which took the air May 10, 1930, on 800 kc. WFAA was the first 50-kilowatter in the South, and the first one west of Chicago. For the delivery of a potent skywave, WFAA outperformed both WENR and WLW, an outgrowth of its more Southern location. During the years of its flattop entenna operation with 50 kw, I heard it with the greatest volume from Colorado, Northern Misconsin, New York City, and many other points between. The WFAA flattop was mounted on 300-foot towers, 700 fest apart.

WFAA was another helf-time station, sharing 800 with a ten-kilowatt NBAP, which never got around to building its own 50-kw plant. By the late 1930's, however, WBAP was using the WFAA transmitter at Grapovine, equidistant from Dallas and Pt. Worth. Then in 1970, MBAP took over this transmitter full-time and WFAA dropped to the status of a 5,000-watt regional station at 570. WBAP paid \$32 million to WFAA as this switch was made.

By November of 1930, three more 50-kilowatt stations make their appearance in the listings: WOAI, KNOX and MTAM (now MXYC). WON and MBBH are rated at 25 kw at this time while MBZ is listed at 15 kw.

Almost a year and a half later, February, 1932, the 50-kilowatt ranks have been swelled by KFI, MTIC, WABC (new MCBS) and MLS, which had begun to hitchhike on the MENR Downers Grove transmittor. MBZ, by this time, is up to 25 kw, while WJR and MCAU are listed at 10 kw.

Radio Index ("Radex") of February, 1932, also shows the existence of a splitfrequency pest of the worst order, XER, 75 kw, at 735 kc, Villa Acuña, Mexico. This was the relatively short-lived border station erected by Dr. John R. Brinkley of Milford, Konses, known far and wide as the "goat gland surgeon," and in bad repute with the American Medical association. I don't recall when XER suffered its derise, but it took place years ago.

(Ed. note: Dr. Brinkley started KFMB, Kilford, and moved to Mexico after the Federal Radio Commission, predacessor of today's FCC, revoked KFKB's license, the first U.S. radio license to swar be revoked for non-technical reasons. The existence of XER on a split frequency probably led to the establishment of the six Mexican clear channels in the 1940 NARBA, three of which program XER-type programs in English to North America with super power. -BH.)

As the 50-kilowatters spread across the country during the mid-1930's, MLW could forse its own position of eminence threatened, and reacted in characteristic fashion. In the summer of 1934, MEXO began test brondensts from Kason, Ohio, 500,000 watts on 700. By the following winter, this had become the regular MLW transmitter, and that stentorian voice could be heard over much of the world. MLW engineers in the late 1940's showed me a greatly-prized reception report of 1937 from King Hackon VII of Norway. He was a DXer too, and was reporting fine reception of Cincinneti in the Royal Palace.

MLW with half-a-million watts remained the giant of American radio for seven years. Its coverage was so great and its commercial rates so high that only national sponsors could afford it; thus it competed for sponsors with the networks rather then other stations in its immediate area. As a point of interest to DKers, the MLW engineering staff numbered about 60, and the total payroll on the station numbered as high as 600. It was the third largest radio payroll in the nation, exceeded only by NBC and CBS. that was it like listening to a 500-kilowett station? My interest in DXing hed waned during these years, but I listened regularly to it from Texas, Kansas, and Coloredo. It was substantially stronger than the 50-kilowett MLW, all right, but probably no more than twice as strong. On this point, I would like to hear free club actions who go that far back, who also pondered that question at that time. 500 kilowatts is how much stronger than 50?

In 1935-38, I worked in the KLZ newsroom beginning my career as a radio news writer and news editor. We regularly monitored the ll p.m. ML. news show with Paul Sullivan, using a Hallierafters, its aerial on the roof of the Shirley-Savoy Hetel in downtown Denver. We were mainly interested in picking up pointers on style and technique, and the Paul Sullivan news was the best educator in the business. But I do remember that it bound into the newsroom with scarcely a ripple of extraneous noise. It was superb.

Of course, I didn't dream at that time that in enother ten years, I would find myself writing the 11 p.m. WLW news for Peter Grant, and that I would spend 1944-1950 at "The Nation's Station."

Seven years of 500-kilowatt operation at MLW was brought to an end through the old American mistrust of bigness and competitive pressures translated into political action. No other station had followed MLW into the use of super-power, although the road was open for any station which wanted to woult into the Bigtime.

Over the years, many stations in the eastern half of the nation found that they were losing sizeable portions of what they had thought was their audience to the big station in Cincinnati. It is at least possible that some of those listeners had gravitated over to 700 because they preferred what they heard there.

But then, as now, radio station managements had a tendency to take their compatitive problems to thehington for a solution. Many other stations wanted MLM muffled, and their combined clamor finally reached Capitel Hill. Senator Burton K. theeler, Montana Democrat, introduced a resolution expressing it as the sense of the U.S. Senate that no American station should be permitted to use more than 50,000 watts. The resolution was adopted in 1941, and MLM returned to being a 50-kilowatt station, the giant brought down by pygnics.

Unloss things have changed recently, that half-million-watt transmitter is still housed intact there at Mason, Ohio, lined up along 40 fact of the north wall at the MLW transmitter.

The Wheeler resolution was adopted more than 30 years ago, but its effects were far-reaching, and they are still with us.

For one thing, it committed the U.S. to a policy of limiting the kilowatts. This is the reason why the largest American stations today are considerably less powerful than in many other countries of the world.

The limitation on power also set the stage for the incredible number of all stations existing today, the bedlam of thousands of small voices, each of them reaching a sliver of audience.

Out of this wast proliferation of stations has come that other aspect of broadcasting, carefully-contrived program formats in which each station socks out a narrow niche for itself and slavishly adheres to it. Stations have turned to narrow specialization as a means of economic survival in the over-crowded broadcast spectrum. The competitive struggle is going to be intensified in the future through the growth of community antenna television systems with many spare channels capable of feeding audio programs into hences by direct wire, thus abolishing radio.

As an un-reconstructed oldtimer, I cannot see how the present number of AM and FM stations can continue to survive economically. A spokeman for the Colorado Association of Broadcasters paints a glocmy picture already; he says about one-third of the radio stations in this state are losing money -- another third are breaking even -- and the other third are making a profit.

Finally, I nominate as the worst thing which ever happened to radio broadcasting in the U.S. not the birth of television, but the existence through all these years of a Federal Communications Commission which never knew when to stop issuing more licenses.

--by Geno Martin, 3303 E. Evans Ave., Denver, CO, 80210.