

# BROADCASTING

The Weekly Newsmagazine of Radio

Broadcast Advertising

National Press Bldg.

SUPPLEMENT TO ISSUE OF MARCH 24, 1941

Washington, D. C.

## *New Broadcast Allocations*

Ordered Under The

*North American Regional Broadcasting Agreement*

(Havana Treaty)

Effective March 29, 1941



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# We congratulate the 126 CBS stations



for the many special things they are doing to move 29,300,000  
U.S. radio families "less than an inch" on their dials!

They've let their imaginations wander along the path of good promotion...planned the *basic* things first... and then put into effect the *unusual*, the things that mark CBS stations as smartly aggressive.

They're arranging sales with local department stores, with the sale price the same as the new frequency of the station... a \$10.70 sale in one of Los Angeles' leading stores will call sharp attention to the new frequency of KNX, for example.

They're giving prizes to everybody whose telephone number, social security number, street address or automobile license is the same as the new frequency. They're covering railroad trains, street cars, buses, taxicabs, with posters featuring the change. They're even flying kites imprinted with the new frequency!

They're getting circulars in all customer mail sent out by their own local clients. They're flooding their

cities with crews of boys and girls, carrying portable radio sets and placards announcing the change. They're enlisting civic groups, business groups, religious groups, education groups, to spread word of their new frequencies.

They're doing all these things *in addition to* the basic comprehensive plan sent to stations by the NAB.

They're doing them *in addition to* the "irreducible minimum" suggested by CBS.

They're doing them *in addition to* the distribution of over 1,600,000 pieces of display material sent out by CBS and the individual stations.\*

With the net result that these 126 CBS stations will transfer their audiences... or hold them at the old addresses... "without spilling a drop," on March 29.

So... our congratulations to the CBS stations: the most alert group of stations in radio!

## THE COLUMBIA BROADCASTING SYSTEM

\*Samples of all display material are included in the "CBS working kit," with copies available on request to any advertiser.

# Log of U. S. Broadcast Stations

Call Letter List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty

(As approved by the United States Government)

## ABBREVIATIONS

U—Unlimited Time. D—Daytime. N—Night Time. S—Shares Time. SH—Specified Hours. LS—Power Until Local Sunset. L—Limited Time With Dominant Station. CP—Construction Permit. DA—Directional Antenna. \*—CP for New Station. †—CP for New Frequency.

## EXPLANATION

Powers shown are those at present authorized. Classifications of stations, however, govern potential power allowed. Many stations already are installing new equipment which will qualify them for the higher power permissible under their classifications. For classes and potential powers see definitions on Page 36. All powers are U unless otherwise designated. Where LS and D powers are shown, the upper designation is the night power. Radiation in terms of millivolts-per-meter (mv/m) indicates the average (RMS) unattenuated field strength at one mile for 1,000 watts.

(Corrected to March 20, 1941)

Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class	Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
<b>K</b>											
KABC.....	San Antonio, Tex.	250	1450	U	IV	KFAC.....	Los Angeles, Cal.	1,000	1330	U	III-A
KABR.....	Aberdeen, S. D.	500 1,000—LS CP-5,000—U	1420	U	III-A	KFAM.....	St. Cloud, Minn.	250	1450	U	IV
KADA.....	Ada, Okla.	250	1230	U	IV	KFAR.....	Fairbanks, Alaska	1,000	610	U	III-A
KALB.....	Alexandria, La.	250	1240	U	IV	KFBB.....	Great Falls, Mont.	1,000 5,000—LS CP-5,000—U	1310	U	III-A
KALE.....	Portland, Ore.	1,000 5,000—LS CP-5,000—U	1330	U	III-A	KFBC.....	Cheyenne, Wyo.	250	1240	U	IV
KAND.....	Corsicana, Tex.	100	1340	U	IV	KFBL.....	Wichita, Kan.	5,000 CP-1,000—N CP-5,000—LS	1070	L-KNX CP-U	II
KANS.....	Wichita, Kan.	250	1240	U	IV	KFBK.....	Sacramento, Cal.	10,000	1530	U	I-B
KARK.....	Little Rock, Ark.	5,000	920	U	III-A	KFDA.....	Amarillo, Tex.	250	1230	U	IV
KARM.....	Fresno, Cal.	250	1340	U	IV	KFDM.....	Beaumont, Tex.	1,000	560	U	III-A
KASA.....	Elk City, Okla.	100	1240	U	IV	KFDY.....	Brookings, S. D.	1,000	790	SHD	III
KAST.....	Astoria, Ore.	250	1230	U	IV	KFEL.....	Denver, Col.	1,000 CP-5,000	950	U	III-A
KATE.....	Albert Lea, Minn.	250	1450	U	IV	KFEQ.....	St. Joseph, Mo.	500 2,500—LS	680	L-KPO	II
KAVE.....	Carlsbad, N. M.	250	1240	U	IV	KFGQ.....	Boone, Ia.	100	1400	SHD	IV
KAWM.....	Gallup, N. M.	100	1490	U	IV	KFH.....	Wichita, Kan.	1,000 5,000—LS CP-5,000—U	1330	U	III-A
KBIX.....	Muskogee, Okla.	100 CP-250	1490	U	IV	KFI.....	Los Angeles, Cal.	50,000	640	U	I-A
*KBIZ.....	Ottumwa, Ia.	100	1240	U	IV	KFIO.....	Spokane, Wash.	100	1150	D	IV
KBKR.....	Baker, Ore.	250	1490	U	IV	KFIZ.....	Fond du Lac, Wis.	100	1450	U	IV
KBND.....	Bend, Ore.	250	1340	U	IV	KFJB.....	Marshalltown, Ia.	250	1230	U	IV
KBPS.....	Portland, Ore.	100	1450	S-KXL	IV	KFJI.....	Klamath Falls, Ore.	100	1240	U	IV
KBST.....	Big Spring, Tex.	100	1490	U	IV	KFJM.....	Grand Forks, N. D.	500 1,000—LS	1440	U	III-B
KBTM.....	Jonesboro, Ark.	100 250—LS	1230	U	IV	KFJZ.....	Fort Worth, Tex.	1,000 CP-5,000	1270	U	III-A
*KBUR.....	Burlington, Ia.	250	1490	U	IV	KFKA.....	Greeley, Col.	1,000	910	S-KPOF	III-A
*KBWD.....	Brownwood, Tex.	500	1380	U	III-B	KFKU.....	Lawrence, Kan.	1,000 5,000—LS	1250	S-WREN	III-A
KCKN.....	Kansas City, Kan.	250	1340	U	IV	*KFMB.....	San Diego, Cal.	250	1450	U	IV
KCMC.....	Texarkana, Tex.	250	1450	U	IV	KFNF.....	Shenandoah, Ia.	500 1,000—LS	920	S-KUSD	III-B
KCMO.....	Kansas City, Mo.	1,000 5,000—LS	1480	U	III-B	KFOR.....	Lincoln, Neb.	100 250—LS CP-250—U	1240	U	IV
KCRC.....	Enid, Okla.	250 (Proposed 1,000)	1390	U	IV III-B	KFOX.....	Long Beach, Cal.	1,000	1280	U	III-A
KCRJ.....	Jerome, Ariz.	250	1340	U	IV	KFPL.....	Dublin, Tex.	100 250—LS	1340	U	IV
KDAL.....	Duluth, Minn.	250	1490	U	IV	KFPW.....	Ft. Smith, Ark.	250	1400	U	IV
KDB.....	Santa Barbara, Cal.	250	1490	U	IV	KFPY.....	Spokane, Wash.	5,000	920	U	III-A
KDFN.....	Casper, Wyo.	1,000	1470	U	III-B	KFQD.....	Anchorage, Alaska	250	790	SH	IV
KDKA.....	Pittsburgh, Pa.	50,000	1020	U	I-A	KFRD.....	San Francisco, Cal.	5,000	610	U	III-A
KDLR.....	Devils Lake, N. D.	250	1240	U	IV	KFRO.....	Longview, Tex.	1,000	1370	U	III-B
KDNT.....	Denton, Tex.	100	1450	U	IV	KFRU.....	Columbia, Mo.	250	1400	U	IV
KDON.....	Monterey, Cal.	100	1240	U	IV	KFSB.....	San Diego, Cal.	1,000 CP-5,000	600	U	III-A
KDRO.....	Sedalia, Mo.	250	1490	U	IV	KFSG.....	Los Angeles, Cal.	1,000 2,500—LS	1150	S-KRKD	III-A
*KDTH.....	Dubuque, Ia.	1,000	1370	U	III-B	KFUO.....	Clayton, Mo.	1,000 CP-5,000	850	L-KOA	II
KDYL.....	Salt Lake City, Utah	1,000 5,000—LS CP-5,000—U	1320	U	III-A	KFVD.....	Los Angeles, Cal.	1,000	1020	L-KDKA	II
KECA.....	Los Angeles, Cal.	1,000 5,000—LS CP-5,000—U	790	U	III-A	KFVS.....	Cape Girardeau, Mo.	250	1400	U	IV
KELA.....	Centralia, Wash.	1,000	1470	U	III-A	KFWB.....	Los Angeles, Cal.	5,000	980	U	III-A
KELD.....	El Dorado, Ark.	250	1400	U	IV	KFXD.....	Nampa, Ida.	250	1230	U	IV
KELO.....	Sioux Falls, S. D.	250	1230	U	IV	KFXJ.....	Grand Junction, Col.	250	1230	U	IV
KENO.....	Las Vegas, Nev.	250	1400	U	IV	KFXM.....	San Bernardino, Cal.	250	1240	S-KPPC	IV
KERN.....	Bakersfield, Cal.	1,000	1410	U	III-A	KFYO.....	Lubbock, Tex.	250	1340	U	IV
KEUB.....	Price, Utah	250	1450	U	IV	KFYR.....	Bismarck, N. D.	1,000 6,000—LS CP-5,000—U	550	U	III-A
KEVR.....	Seattle, Wash.	100	1400	S-KRKO	IV	KGA.....	Spokane, Wash.	5,000 (Proposed 10,000)	1510	U	II I-B
KEX.....	Portland, Ore.	5,000 (Proposed 50,000)	1190	U	II I-B	KGB.....	San Diego, Cal.	1,000	1360	U	III-A
*KEYS.....	Corpus Christi, Tex.	250	1490	U	IV	*KGBS.....	Harlingen, Tex.	250	1240	U	IV
KFAB.....	Lincoln, Neb.	10,000 (Proposed 50,000—U) (Proposed 1110)	780	S-WBBM	I-B	KGBU.....	Ketchikan, Alaska	500	930	U	III-B
						KGBX.....	Springfield, Mo.	5,000	1260	U	III-A
						KGCU.....	Mandan, N. D.	250 (Proposed 500)	1270	U	IV III-B
						KGCC.....	Wolf Point, Mont.	1,000	1480	U	III-A
						KGDE.....	Fergus Falls, Minn.	100 250—LS	1230	U	IV
						KGDM.....	Stockton, Cal.	1,000	1130	D	II
						KGEK.....	Sterling, Col.	100	1230	SH	IV
						KGER.....	Long Beach, Cal.	1,000	1390	U	III-A
						KGEZ.....	Kalispell, Mont.	100 CP-1,000	1340 †1460	U	IV III-B
						KGFF.....	Shawnee, Okla.	250	1450	U	IV

Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class	Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
KGFI	Brownsville, Tex.	100 250—LS	1490	U	IV	KMLB	Monroe, La.	250	1230	U	IV
KGFL	Los Angeles, Cal.	100	1230	U	IV	KMMJ	Grand Island, Neb.	1,000	750	L-WSB	II
KGFL	Roswell, N. M.	100	1400	U	IV	KMO	Tacoma, Wash.	1,000 CP-5,000	1360	U	III-A
KGFW	Kearney, Neb.	250	1340	U	IV	KMOX	St. Louis, Mo.	50,000	1120	U	I-A
KGFX	Pierre, S. D.	200	630	SHD	IV	KMPC	Beverly Hills, Cal.	1,000 5,000—LS CP-5,000—U	710	U	II
KGGF	Coffeyville, Kan.	500 1,000—LS	690	U	II	KMTR	Los Angeles, Cal.	1,000	570	U	III-A
KGGM	Albuquerque, N. M.	1,000	1260	U	III-A	KMYC	Marysville, Cal.	100	1450	U	IV
KGHF	Pueblo, Col.	500	1350	U	III-B	*KMYR	Denver, Col.	100 250—LS	1340	U	IV
KGHI	Little Rock, Ark.	250	1230	U	IV	KNEL	Brady, Tex.	100 250—LS	1490	U	IV
KGHL	Billings, Mont.	1,000 5,000—LS CP-5,000—U	790	U	III-A	KNET	Palestine, Tex.	100	1450	D	IV
KGIR	Butte, Mont.	5,000	1370	U	III-A	KNOW	Austin, Tex.	250	1490	U	IV
KGIW	Alamosa, Col.	100	1450	SH-KIDW	IV	KNX	Los Angeles, Cal.	50,000	1070	U	I-B
KGKB	Tyler, Tex.	250	1490	U	IV	KOA	Denver, Col.	50,000	850	U	I-A
KGKL	San Angelo, Tex.	250	1400	U	IV	KOAC	Corvallis, Ore.	1,000 CP-5,000—LS	550	U	III-A
KGKO	Fort Worth, Tex.	1,000 5,000—LS CP-5,000—U	570	U	III-A	KOAM	Pittsburg, Kan.	1,000	810	D	II
KGKY	Scottsbluff, Neb.	250	1490	U	IV	KOB	Albuquerque, N. M.	10,000 CP-50,000	1030	U	II
KGLO	Mason City, Ia.	250 CP-1,000	1300	U	III-B	KOBH	Rapid City, S. D.	250	1400	U	IV
KGLU	Safford, Ariz.	250	1450	U	IV	KOCA	Kilgore, Tex.	250	1240	U	IV
KGMB	Honolulu, T. H.	5,000	590	U	III-A	KOCY	Oklahoma City, Okla.	250	1340	U	IV
KGNC	Amarillo, Tex.	1,000 2,500—LS CP-5,000—LS	1440	U	III-A	KODL	The Dalles, Ore.	100 250—LS	1230	U	IV
KGNE	North Platte, Neb.	1,000	1460	D	III	KOH	Reno, Nev.	1,000	630	U	III-A
KGNO	Dodge City, Kan.	250 1,000—LS	1370	U	III-B	KOIL	Omaha, Neb.	1,000 5,000—LS CP-5,000—U	1290	U	III-A
KGO	San Francisco, Cal. (Proposed 10,000)	7,500	810	U	I-B	KOIN	Portland, Ore.	5,000	970	U	III-A
KGU	Honolulu, T. H.	2,500	760	L-WJR	II	KOKO	La Junta, Col.	100	1400	U	IV
KGVO	Missoula, Mont.	1,000 5,000—LS	1290	U	III-A	KOL	Seattle, Wash.	1,000 5,000—LS	1300	U	III-A
KGW	Portland, Ore.	1,000 5,000—LS CP-5,000—U	620	U	III-A	KOMA	Oklahoma City, Okla. (Proposed 50,000)	5,000	1520	U	II I-B
KGY	Olympia, Wash.	100	1240	U-except when KTW operating	IV	KOME	Tulsa, Okla.	250	1340	U	IV
KHAS	Hastings, Neb.	250	1230	U	IV	KOMO	Seattle, Wash.	1,000 5,000—LS CP-5,000—U	950	U	III-A
KHBC	Hilo, T. H.	250	1230	U	IV	*KONB	Omaha, Neb.	250	1490	U	IV
KHBG	Okmulgee, Okla.	250	1240	U	IV	KONO	San Antonio, Tex.	250	1400	S-KMAC	IV
KHJ	Los Angeles, Cal.	1,000 5,000—LS CP-5,000—U	930	U	III-A	KOOS	Marshfield, Ore.	250	1230	U	IV
*KHMO	Hannibal, Mo.	250	1340	U	IV	KORE	Eugene, Ore.	250	1450	U	IV
*KHON	Honolulu, T. H.	250	1340	U	IV	KORN	Fremont, Neb.	250	1400	U	IV
KHQ	Spokane, Wash.	5,000	590	U	III-A	KOTN	Pine Bluff, Ark.	250	1490	U	IV
KHSL	Chico, Cal.	500 1,000—LS	1290	U	III-B	KOVC	Valley City, N. D.	250	1490	U	IV
KHUB	Watsonville, Cal.	250	1340	U	IV	KOVO	Provo, Utah	250	1240	U	IV
KICA	Clovis, N. M.	100	1400	U	IV	KOWH	Omaha, Neb.	500	660	D	II
KID	Idaho Falls, Ida.	500 5,000—LS	1350	U	III-B	KOY	Phoenix, Ariz.	1,000	550	U	III-A
KIDO	Boise, Ida.	1,000 2,500—LS	1380	U	III-A	KPAB	Laredo, Tex.	250	1490	U	IV
KIDW	Lamar, Col.	100	1450	SH-KGIW	IV	KPAC	Port Arthur, Tex.	500	1250	U	III-B
KIEM	Eureka, Cal.	500 1,000—LS	1480	U	III-B	KPDN	Pampa, Tex.	100	1340	U	IV
KIEV	Glendale, Cal.	250	870	D	II	KPFA	Helena, Mont.	250	1240	U	IV
KINY	Juneau, Alaska	1,000	1460	U	III-A	KPHO	Phoenix, Ariz.	250	1230	U	IV
KIRO	Seattle, Wash.	1,000 CP-50,000	710	U	I-B	KPLC	Lake Charles, La.	250	1490	U	IV
KIT	Yakima, Wash.	1,000	1280	U	III-A	KPLT	Paris, Tex.	250	1490	U	IV
KITE	Kansas City, Mo.	1,000	1590	U	III-A	KPMC	Bakersfield, Cal.	1,000	1600	U	III-A
KIUL	Garden City, Kan.	100	1240	U	IV	KPO	San Francisco, Cal.	50,000	680	U	I-B
KIUN	Pecos, Tex.	100	1400	U	IV	KPOF	Denver, Col.	1,000	910	S-KFKA	III-A
KIUP	Durango, Col.	250	1400	U	IV	*KPOW	Powell, Wyo.	250	1230	U	IV
KJBS	San Francisco, Cal.	500	1100	L-WTAM	II	KPPC	Pasadena, Cal.	100	1240	S-KFXM	IV
KJR	Seattle, Wash. (Proposed 10,000)	5,000	1000	U	I-B	KPQ	Wenatchee, Wash.	250	1490	U	IV
KLBM	LaGrande, Ore.	250	1450	U	IV	KPRC	Houston, Tex.	1,000 5,000—LS CP-5,000—U	950	U	III-A
KLCN	Blytheville, Ark.	100	1320	D	IV	KQV	Pittsburgh, Pa.	1,000	1410	U	III-B
KLO	Ogden, Utah	5,000	1430	U	III-A	KQW	San Jose, Cal.	1,000 5,000—LS (Proposed 5,000—U)	740	U	II
KLPM	Minot, N. D.	1,000	1390	U	III-A	KRBA	Lufkin, Tex.	250	1340	D	IV
KLRA	Little Rock, Ark.	5,000	1420	U	III-A	KRBC	Abilene, Tex.	250	1450	U	IV
KLS	Oakland, Cal.	250 CP-1,000	1310	U	III-A	KRBM	Bozeman, Mont.	250	1450	U	IV
KLUF	Galveston, Tex.	250	1400	U	IV	KRE	Berkeley, Cal.	250	1400	U	IV
KLX	Oakland, Cal.	1,000	910	U	III-A	KRGV	Weslaco, Tex.	1,000	1290	U	III-A
KLZ	Denver, Col.	5,000	560	U	III-A	KRIC	Beaumont, Tex.	250	1450	U	IV
KMA	Shenandoah, Ia.	1,000 5,000—LS	960	U	III-A	KRIS	Corpus Christi, Tex.	500 CP-1,000	1360	U	III-A
KMAC	San Antonio, Tex.	250	1400	S-KONO	IV	*KRJF	Miles City, Mont.	250	1340	U	IV
KMBC	Kansas City, Mo.	5,000	980	U	III-A	KRKD	Los Angeles, Cal.	1,000 2,500—LS	1150	S-KFSG	III-A
KMED	Medford, Ore.	1,000	1440	U	III-A	KRKO	Everett, Wash.	50 CP-100 CP-250—LS	1400	S-KEVR	IV
KMJ	Fresno, Cal.	5,000	580	U	III-A	KRLC	Lewiston, Ida.	250	1400	U	IV
						KRLD	Dallas, Tex.	50,000	1080	U	I-B
						KRLH	Midland, Tex.	100 CP-250	1450	U	IV
						KRMC	Jamestown, N. D.	250	1400	U	IV

MARCH  
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## "GUESS IT'S TIME TO CHANGE FREQUENCIES!"

● Now that we're shucking off our old 1000 K. C. frequency, and going to our brand new 1040, we think you'll be interested in a progress report on your favorite Midwestern station.

First—WHO, as you would judge, of course, has been designated as a Class 1 outlet with 50,000

watts—will be the *only* U. S. station operating on 1040 K. C., day or night.

Second — Under Paul A. Loyet, the world-known WHO engineering staff will of course preserve our long record of leadership in radio transmission, with continuing research on synchronization, facsimile, polyphase and recording technique and equipment.

Third — As in the past, WHO's 50,000-watt voice will continue to serve a wide area in the Middle West—our "Iowa Plus".

In other words—we're changing frequencies, but nothing else. To millions of WHO friends, that's the best news ever!

# WHO

+ for IOWA PLUS! +

DES MOINES . . . 50,000 WATTS

J. O. MALAND, MANAGER

FREE & PETERS, INC. . . . National Representatives

Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
KRMD	Shreveport, La.	250	1340	U	IV
KRRR	Roseburg, Ore.	100 250—LS	1490	U	IV
KRNT	Des Moines, Ia.	1,000 5,000—LS CP-5,000—U	1350	U	III-A
KROC	Rochester, Minn.	250	1340	U	IV
KROD	El Paso, Tex.	500 1,000—LS	600	U	III-B
KROW	Oakland, Cal.	1,000	960	U	III-A
KROY	Sacramento, Cal.	100	1240	U	IV
KRRV	Sherman, Tex.	1,000	910	U	III-B
KRSC	Seattle, Wash.	1,000	1150	U	III-A
KSAC	Manhattan, Kan.	500 1,000—LS	580	S-WIBW	III-B
KSAL	Salina, Kan.	500 1,000—LS CP-1,000—U	1150	U	III-B
KSAM	Huntsville, Tex.	250	1490	D	
KSAN	San Francisco, Cal.	250	1450	U	IV
KSCJ	Sioux City, Ia.	1,000 5,000—LS CP-5,000—U	1360	U	III-A
KSD	St. Louis, Mo.	1,000 5,000—LS	550	U	III-B
KSEL	Pocatello, Ida.	250 1,000—LS	930	U	III-B
KSFO	San Francisco, Cal.	1,000 5,000—LS	560	U	III-A
KSL	Salt Lake City, Utah	50,000	1160	U	I-A
KSLM	Salem, Ore.	1,000	1390	U	III-A
KSO	Des Moines, Ia.	1,000 5,000—LS CP-5,000—U	1460	U	III-A
KSOO	Sioux Falls, S.D.	5,000	1140	L-WRVA	II
KSRO	Santa Rosa, Cal.	250 CP-1,000	1350	U	III-B
KSTP	St. Paul, Minn.	50,000	1500	U	I-B
KSUB	Cedar City, Utah	100	1340	U	IV
KSUN	Lowell, Ariz.	250	1230	U	IV
*KSWO	Lawton, Okla.	250	1150	D	IV
KTAB	Phoenix, Ariz.	5,000	620	U	III-A
KTBC	Austin, Tex.	1,000	1150	SHD-WTAW	III
KTBS	Shreveport, La.	1,000	1480	U	III-B
KTEM	Temple, Tex.	250	1400	U	IV
KTFI	Twin Falls, Ida.	1,000	1270	U	III-A
KTHS	Hot Springs, Ark. (Proposed 50,000)	10,000	1090	U	I-B
KTEC	Visalia, Cal.	1,000	920	U	III-B
KTMS	Santa Barbara, Cal.	1,000	1250	U	III-B
KTOH	Lihue, T. H.	250	1490	U	IV
KTOK	Oklahoma City, Okla.	250	1400	U	IV
KTRB	Modesto, Cal.	250	860	D	II
KTRH	Houston, Tex.	1,000 5,000—LS CP-5,000—U	1320	U	III-A
KTRI	Sioux City, Ia.	250	1450	U	IV
KTSA	San Antonio, Tex.	1,000 5,000—LS	550	U	III-A
KTSM	El Paso, Tex.	500	1380	U	III-B
KTSW	Emporia, Kan.	250	1400	U	IV
KTUC	Tucson, Ariz.	250	1400	U	IV
KTUL	Tulsa, Okla.	5,000	1430	U	III-A
KTW	Seattle, Wash.	1,000	1250	S-KWSC	III-A
KUIN	Grants Pass, Ore.	250	1340	U	IV
KUJ	Walla Walla, Wash.	100 CP-1,000	1420	U	III-A
KUOA	Siloam Springs, Ark.	5,000	1290	D	III
KUSD	Vermillion, S. D.	500	920	S-KFNF	III-B
KUTA	Salt Lake City, Utah	250 CP-1,000	1570	U	III-B
KVAK	Atchison, Kan.	100	1450	U	IV
KVAN	Vancouver, Wash.	250	910	D	IV
KVCV	Redding, Cal.	250	1230	U	IV
KVEC	San Luis Obispo, Cal.	250	1230	U	IV
KVFD	Ft. Dodge, Ia.	250	1400	SH	IV
KVGB	Great Bend, Kan.	250	1400	U	IV
KVI	Tacoma, Wash.	5,000	570	U	III-A
KVIC	Victoria, Tex.	250	1340	U	IV
KVNU	Logan, Utah	250	1230	U	IV
KVOA	Tucson, Ariz.	1,000	1290	U	III-A
KVOD	Denver, Col.	1,000	630	U	III-A
KVOE	Santa Ana, Cal.	250	1490	U	IV
KVOL	Lafayette, La.	250	1340	U	IV
KVOO	Tulsa, Okla. (Proposed 50,000)	25,000	1170	U	I-B
KVOR	Colorado Springs, Col.	1,000	1300	U	III-A
KVOS	Bellingham, Wash.	250	1230	U	IV

Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
KVOX	Moorhead, Minn.	250	1340	U	IV
KVRS	Rock Springs, Wyo.	250	1400	U	IV
KVSF	Santa Fe, N. M.	100	1340	U	IV
KVSO	Ardmore, Okla.	100 250—LS	1240	U	IV
KVWC	Vernon, Tex.	250	1490	U	IV
KWAL	Wallace, Ida.	250	1450	U	IV
KWAT	Watertown, S. D.	250	1240	U	IV
KWBG	Hutchinson, Kan.	100	1450	U	IV
KWEW	Hobbs, N. M.	100	1490	U	IV
KWFC	Hot Springs, Ark.	250	1340	U	IV
KWFT	Wichita Falls, Tex.	1,000 5,000—LS	620	U	III-A
KWG	Stockton, Cal.	100	1230	U	IV
KWIL	Albany, Ore.	250	1240	U	IV
KWJB	Globe, Ariz.	250	1240	U	IV
KWJJ	Portland, Ore.	500 CP-1,000—U	1080	L-KRLD WTIC	II
KWK	St. Louis, Mo.	1,000 5,000—LS CP-5,000—U	1380	U	III-A
KWKH	Shreveport, La.	50,000	1130	U	I-B
KWLC	Decorah, Ia.	100 CP-250	1240	SH	IV
KWLE	Longview, Wash.	250	1400	U	IV
KWLM	Willmar, Minn.	250	1340	U	IV
KWNO	Winona, Minn.	250	1230	U	IV
KWOC	Poplar Bluff, Mo.	250	1340	U	IV
KWOS	Jefferson City, Mo.	250	1340	U	IV
KWSC	Pullman, Wash.	5,000	1250	S-KTW	III-A
KWTO	Springfield, Mo.	5,000 1,000 (5 to 6 a.m.)	560	D (5 a.m. to local sunset)	III
KWYO	Sheridan, Wyo.	250	1400	U	IV
KXA	Seattle, Wash.	1,000	770	L-WJZ	II
KXL	Portland, Ore.	250	1450	S-KBPS	IV
KXO	El Centro, Cal.	100	1490	U	IV
KXOK	St. Louis, Mo.	5,000	630	U	III-A
KXOX	Sweetwater, Tex.	250	1240	U	IV
KYRO	Aberdeen, Wash.	250	1340	U	IV
KXYZ	Houston, Tex.	1,000	1470	U	III-A
KYA	San Francisco, Cal.	1,000 5,000—LS	1260	U	III-A
KYAN	Cheyenne, Wyo.	250	1400	U	IV
KYCA	Prescott, Ariz.	250	1490	U	IV
KYOS	Merced, Cal.	250	1080	D	II
KYSM	Mankato, Minn.	250	1230	U	IV
KYUM	Yuma, Ariz.	250	1240	U	IV
KYW	Philadelphia, Pa.	50,000	1060	U	I-B
*NEW	Clinton, Ia.	250	1340	U	IV

**W**

WAAB	Boston, Mass.	1,000	1440	U	III-A
WAAF	Chicago, Ill.	1,000	950	D	III
WAAT	Jersey City, N. J.	500 CP-1,000	970	U	III-B
WABC	New York, N. Y.	50,000	880	U	I-A
WABI	Bangor, Me.	250 CP-5,000	1230	U	III-A
WABY	Albany, N. Y.	250	1400	U	IV
WACO	Waco, Tex.	250	1450	U	IV
WADC	Akron, O.	5,000	1350	U	III-A
WAGA	Atlanta, Ga.	500 1,000—LS	1480	U	III-B
*WAGE	Salina, N. Y.	1,000	620	U	III-B
WAGF	Dothan, Ala.	250	1400	U	IV
WAGM	Presque Isle, Me.	100	1450	SH	IV
WAIM	Anderson, S. C.	100 CP-250	1230	U	IV
WAIR	Winston-Salem, N. C.	250	1340	U	IV
WAJR	Morgantown, W. Va.	250	1230	U	IV
WAKR	Akron, O.	1,000	1590	U	III-A
WALA	Mobile, Ala.	500 1,000—LS CP-5,000—U	1410	U	III-A
*WALB	Albany, Ga.	1,000	1590	U	III-A
WAML	Laurel, Miss.	250	1340	U	IV
WAOV	Vincennes, Ind.	100	1450	U	IV
WAPI	Birmingham, Ala. (Proposed 50,000)	5,000	1170	U	II
WAPO	Chattanooga, Tenn. (Proposed 1070)	250	1150	U	III-B
WARD	Brooklyn, N. Y.	500 CP-1,000 CP-5,000—LS	1430	S-WBBC, WLTH, WVFW	III-B
WARM	Scranton, Pa.	250	1400	U	IV
WASH	Grand Rapids, Mich. (Proposed 5,000)	500	1300	S-WOOD	III-B III-A
WATL	Atlanta, Ga.	250	1400	U	IV
WATN	Watertown, N. Y.	250	1240	U	IV
WATR	Waterbury, Conn.	250	1320	U	IV
WATW	Ashland, Wis.	100	1400	U	IV



**TWO BIG EVENTS  
FOR MAY 1941:**

ST. LOUIS: THE NAB CONVENTION

BALTIMORE: THE OPENING OF . . .



**One of America's Great Radio Stations**

Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class	Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
WAVE	Louisville, Ky.	5,000	970	U	III-A	WCLE	Cleveland, O.	500	610	D	III
WAWZ	Zarephath, N. J.	1,000	1380	S-WBNX	III-A	WCLO	Janesville, Wis.	250	1230	U	IV
WAYX	Waycross, Ga.	250	1230	U	IV	WCLS	Joliet, Ill.	100 CP-250	1340	U	IV
WAZL	Hazleton, Pa.	250	1450	U	IV	WCMI	Ashland, Ky.	250	1340	U	IV
WBAA	West Lafayette, Ind.	500 1,000—LS CP-1,000—N CP-5,000—LS	920	SH CP-U	III-B	WCNC	Elizabeth City, N. C.	250	1400	U	IV
WBAB	Atlantic City, N. J.	250	1490	U	IV	WCNW	Brooklyn, N. Y.	250 (Proposed 500)	1600	S-WWRL	IV III-B
WBAL	Baltimore, Md.	10,000 CP-50,000	1090	U	I-B	WCOA	Pensacola, Fla.	500 1,000—LS	1370	U	III-B
WBAP	Fort Worth, Tex.	50,000	820	S-WFAA	I-A	WCOC	Meridian, Miss.	1,000	910	U	III-A
WBAX	Wilkes-Barre, Pa.	100	1240	U	IV	WCOL	Columbus, O.	250	1230	U	IV
WBBC	Brooklyn, N. Y.	500	1430	S-WARD, WLTH WVFW	III-B	WCOP	Boston, Mass.	500	1150	D CP-U	III-B
WBBL	Richmond, Va.	100	1240	SH	IV	WCOS	Columbia, S. C.	250	1400	U	IV
WBBM	Chicago, Ill.	50,000	780	U	I-A	WCOU	Lewiston, Me.	250	1240	U	IV
WBBR	Brooklyn, N. Y.	1,000	1330	S-WEVD, WHAZ	III-A	WCOV	Montgomery, Ala.	100 CP-250	1240	U	IV
WBBZ	Ponca City, Okla.	250	1230	U	IV	WCPO	Cincinnati, O.	250	1230	U	IV
WBCM	Bay City, Mich.	500 1,000—LS	1440	U	III-B	WCRW	Chicago, Ill.	100	1240	SH-WEDC, WSBC	IV
WBEN	Buffalo, N. Y.	1,000 5,000—LS CP-5,000—U	930	U	III-A	WCSC	Charleston, S. C.	500 1,000—LS (Proposed 1,000)	1390	U	III-B III-A
WBHP	Huntsville, Ala.	250	1230	U	IV	WCSH	Portland, Me.	1,000 2,500—LS CP-5,000—U	970	U	III-A
WBIG	Greensboro, N. C.	1,000 5,000—LS CP-5,000—U	1470	U	III-A	WDAE	Tampa, Fla.	5,000	1250	U	III-A
*WBIR	Knoxville, Tenn.	250	1240	U	IV	WDAF	Kansas City, Mo.	5,000	610	U	III-A
WBLJ	Dalton, Ga.	250	1230	U	IV	WDAK	West Point, Ga.	250	1340	U	IV
WBLK	Clarksburg, W. Va.	250	1400	U	IV	WDAN	Danville, Ill.	250	1490	U	IV
WBML	Macon, Ga.	250	1240	U	IV	WDAS	Philadelphia, Pa.	250	1400	U	IV
WBNS	Columbus, O.	1,000 5,000—LS	1460	U	III-B	WDAY	Fargo, N. D.	5,000	970	U	III-A
WBNY	New York, N. Y.	5,000	1380	S-WAWZ	III-A	*WDBC	Escanaba, Mich.	250	1490	U	IV
WBNY	Buffalo, N. Y.	250	1400	S-SVSV	IV	WDBJ	Roanoke, Va.	1,000 5,000—LS CP-5,000—U	960	U	III-A
WBOC	Salisbury, Md.	250	1230	U	IV	WDBO	Orlando, Fla.	5,000	580	U	III-A
WBOW	Terre Haute, Ind.	250	1230	U	IV	WDEF	Chattanooga, Tenn.	250	1400	U	IV
WBRB	Red Bank, N. J.	100	1240	S-WGBB	IV	WDEL	Wilmington, Del.	250 1,000—LS CP-5,000—U	1150	U	III-A
WBRC	Birmingham, Ala.	1,000 5,000—LS CP-5,000—U	960	U	III-A	WDEV	Waterbury, Vt.	1,000	550	D	III
WBRE	Wilkes-Barre, Pa.	250	1340	U	IV	WDGY	Minneapolis, Minn.	1,000 5,000—LS	1130	SH (Proposed U)	II
WBRK	Pittsfield, Mass.	250	1340	U	IV	WDLP	Panama City, Fla.	100 250—LS	1230	U	IV
WBRW	Welch, W. Va.	250	1340	U	IV	WDMJ	Marquette, Mich.	250	1340	U	IV
WBRY	Waterbury, Conn.	1,000 CP-5,000	1590	U	III-A	WDNC	Durham, N. C.	250	1490	U	IV
WBT	Charlotte, N. C.	50,000	1110	U	I-B	WDOD	Chattanooga, Tenn.	1,000 5,000—LS CP-5,000—U	1310	U	III-A
*WBTA	Batavia, N. Y.	250	1490	U	IV	WDRG	Hartford, Conn.	5,000	1360	U	III-A
WBTH	Williamson, W. Va.	250	1400	U	IV	WDSM	Superior, Wis.	100	1230	U	IV
WBTM	Danville, Va.	100 250—LS	1400	U	IV	WDSU	New Orleans, La.	1,000 CP-5,000	1280	U	III-A
WBZ	Boston, Mass.	50,000	1030	U-Synchro- nized with WBZA	I-B	WDWS	Champaign, Ill.	250	1400	U	IV
WBZA	Springfield, Mass.	1,000	1030	U-Synchro- nized with WBZ	II	WDZ	Tuscola, Ill.	1,000	1050	D	II
WCAD	Canton, N. Y.	500	1250	SHD	III	WEAF	New York, N. Y.	50,000	660	U	I-A
WCAE	Pittsburgh, Pa.	5,000	1250	U	III-A	WEAN	Providence, R. I.	1,000 5,000—LS CP-5,000—U	790	U	III-A
WCAL	Northfield, Minn.	5,000	770	S-WLB (1/3 daytime)	II	WEAU	Eau Claire, Wis.	1,000 5,000—LS	1070	L-KFBI	II
WCAM	Camden, N. J.	500	1310	S-WCAP, WTNJ	III-B	WEBC	Duluth, Minn.	1,000 5,000—LS CP-5,000—U	1320	U	III-A
WCAO	Baltimore, Md.	500 1,000—LS	600	U	III-B	WEBQ	Harrisburg, Ill.	250	1240	U	IV
WCAP	Asbury Park, N. J.	500	1310	S-WCAM, WTNJ	III-B	WEBR	Buffalo, N. Y.	250	1340	U	IV
WCAR	Pontiac, Mich.	1,000	1130	D	II	WEDC	Chicago, Ill.	250	1240	SH-WCRW, WSBC	IV
WCAT	Rapid City, S. D.	100	1230	SHD	IV	WEED	Rocky Mount, N. C.	250	1450	U	IV
WCAU	Philadelphia, Pa.	50,000	1210	U	I-A	WEEI	Boston, Mass.	5,000	590	U	III-A
WCAX	Burlington, Vt.	250	1230	U	IV	WEEU	Reading, Pa.	1,000	850	D	II
WCAZ	Carthage, Ill.	100	1080	D	II	WELI	New Haven, Conn.	250 500—LS CP-500—N CP-1,000—LS	960	U	III-B
WCBA	Allentown, Pa.	500	1470	S-WSAN	III-B	WELL	Battle Creek, Mich.	250	1400	U	IV
WCBD	Chicago, Ill.	5,000	1110	L-WBT, S-WMBI	II	WEMP	Milwaukee, Wis.	250	1340	U	IV
WCBM	Columbus, Miss.	250	1400	U	IV	WENR	Chicago, Ill.	50,000	890	S-WLS	I-A
WCBM	Baltimore, Md.	250	1400	U	IV	WENY	Elmira, N. Y.	250	1230	U	IV
WCBS	Springfield, Ill.	250	1450	U	IV	WEOA	Evansville, Ind.	250	1400	U	IV
WCBT	Roanoke Rapids, N. C.	250	1230	U	IV	*WERC	Erie, Pa.	100 250—LS	1490	U	IV
WCCO	Minneapolis, Minn.	50,000	830	U	I-A	WEST	Easton, Pa.	250	1400	U	IV
*WCED	DuBois, Pa.	250	1230	U	IV	WESX	Salem, Mass.	100	1230	U	IV
WCFL	Chicago, Ill.	5,000 CP-10,000	1000	U	I-B	WEVD	New York, N. Y.	1,000 CP-5,000	1330	S-WBBR, WHAZ	III-A
WCHS	Charleston, W. Va.	5,000	580	U	III-A	WEW	St. Louis, Mo.	1,000	770	D	II
WCHV	Charlottesville, Va.	250	1450	U	IV	WEXL	Royal Oak, Mich.	50 CP-250	1340	U	IV
WCKY	Cincinnati, O.	50,000	1530	U	I-B	WFAA	Dallas, Tex.	50,000	820	S-WBAP	I-A
						WFAM	South Bend, Ind.	100	1230	SH	IV



# LINGO FOR FM

## IMPORTANT NEW FEATURES:

Radiates horizontal polarized signal with substantially uniform circular field pattern.

Custom built, factory adjusted to operating frequency. No field adjustments necessary.

Improved design greatly simplifies method of feeding and coupling.

Turnstile elements fed by coaxial lines. No

open turnstile wires used.

Lighting equipment, climbing steps installed without interfering with operation of turnstile.

Heating elements may be used in turnstile arms for sleet melting where necessary.

Available with 2, 4, 6, 8 and 10 layers of turnstile elements, depending upon desired gain.

tubular steel mounting pole, turnstile elements, coupling equipment, transmission lines feeding the elements, etc. Climbing steps, lighting equipment and sleet melting units available as optional equipment. Erection on your supporting tower or building roof can also be included.

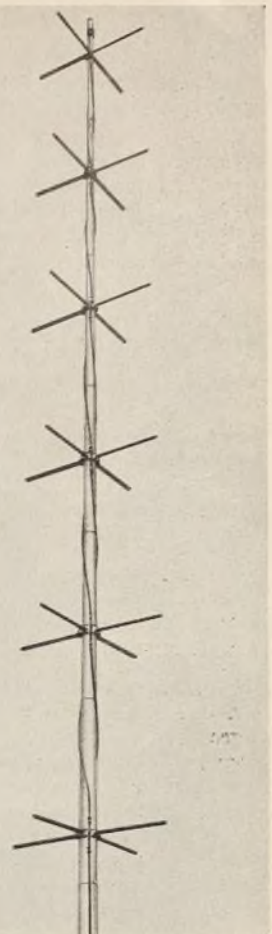


# TURNSTILE (PATENTED DESIGN) ANTENNA

—Already Proven By Experience to Assure You of Complete Satisfaction and the Utmost in Efficiency!

Improved in design—completely developed—the Lingo FM Antenna comes to you as a "finished product" offering distinct improvements over all previous designs. Lingo has a definite, important place in your FM plans and offers you antenna performance and efficiency based on EXPERIENCE and not *experiment!*

Write today for technical facts and price quotation. Please indicate your proposed frequency, power and location. Quotations will be gladly submitted for individual applications only and will include the essential



Dept. B-31 CAMDEN, N. J.

# LINGO VERTICAL TUBULAR STEEL RADIATORS

JOHN E. LINGO & SON, Inc.

# LINGO FOR AM

## PARTIAL LIST OF INSTALLATIONS:

- |                    |                         |
|--------------------|-------------------------|
| WTAR Norfolk       | WFPG Altoona            |
| WIBW Topeka        | WMOG Brunswick          |
| WCSH Portland      | WOLF Syracuse           |
| WBOC Salisbury     | WGKV Charleston         |
| WWSW Pittsburgh    | WAOV Vincennes          |
| KTSW Emporia       | WSLS Roanoke            |
| WSAV Savannah      | WAJR Morgantown         |
| WFBG Atlantic City | WIBM Jackson            |
| WBTH Williamston   | WLLH Lawrence           |
| WCOU Lewiston      | CFAC Calgary, Alb.      |
| WPID Petersburg    | CJKL Kirkland Lake Ont. |
| WRJN Racine        | CKGB Timmins, Ont.      |

# VERTICAL TUBULAR STEEL RADIATOR

Double Duty for Your Dollars:

- REDUCES MAINTENANCE COSTS
- INCREASES STATION PERFORMANCE

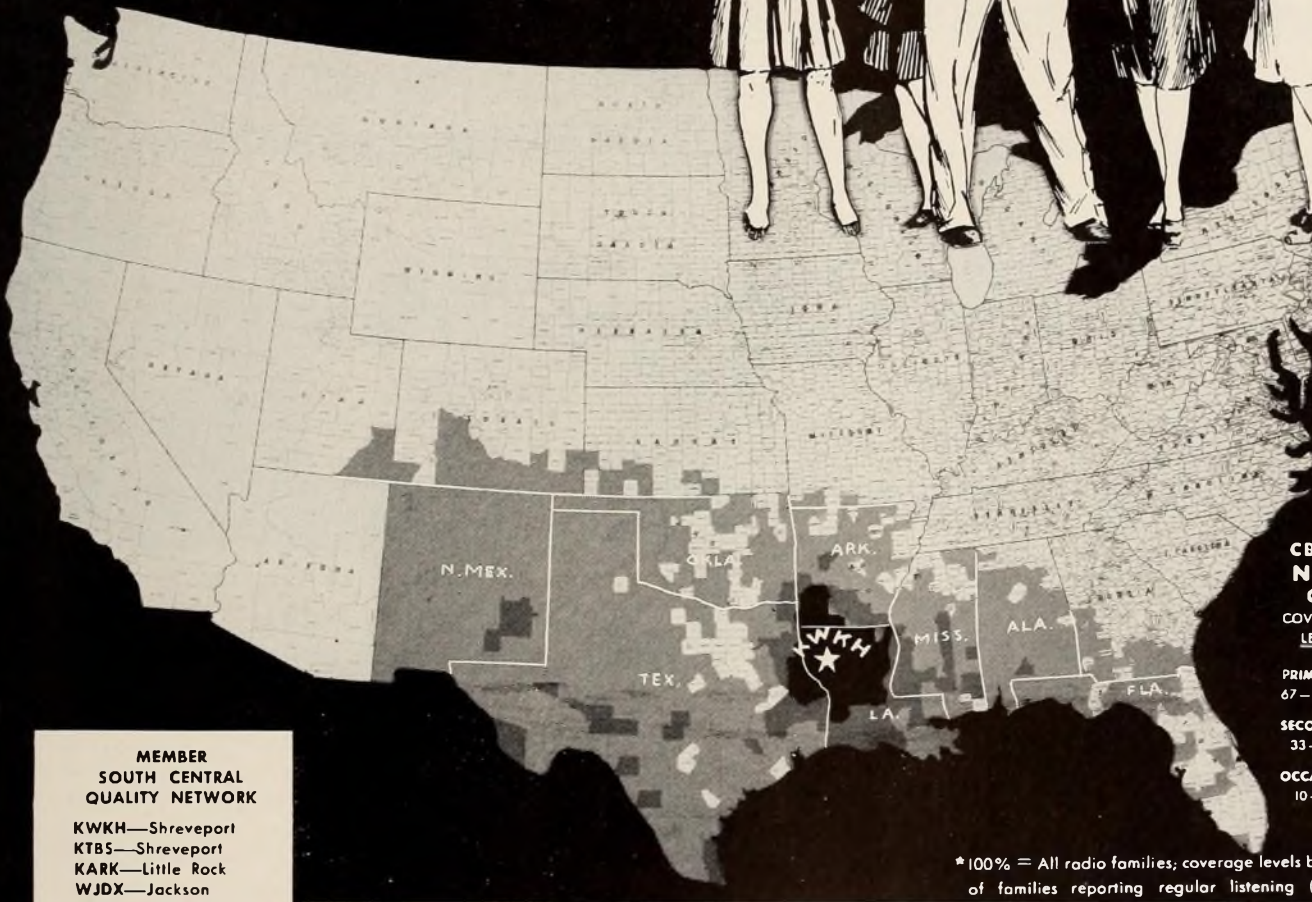
BROADCASTERS: If overhead costs are as important with you as performance is with your engineers—then *all* will enjoy the satisfaction of a Lingo Tubular Steel Radiator. Facts *prove* that you can expect *highest efficiency* and *pay less for maintenance*. The moderate initial cost and low upkeep cost, plus assured *peak performance* combine to give you more profits through better coverage.

Yes, we want to tell YOU our important story. Our engineering staff will be pleased to provide you with technical details as they apply in your own particular case—without obligation, of course. In writing please give location, power and frequency of station.



Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class	Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
WFAS.....	White Plains, N. Y.	250	1240	S-WGBB	IV	WHBL.....	Sheboygan, Wis.	250 1,000-LS	1330	U	III-B
WFBC.....	Greenville, S. C.	1,000 5,000-LS CP-5,000-U	1330	U	III-A	WHBQ.....	Memphis, Tenn.	100	1400	U	IV
WFBG.....	Altoona, Pa.	250	1340	U	IV	WHBU.....	Anderson, Ind.	250	1240	U	IV
WFBL.....	Syracuse, N. Y.	5,000	1390	U	III-A	WHBY.....	Appleton, Wis.	250	1230	U	IV
WFBM.....	Indianapolis, Ind.	1,000 5,000-LS CP-5,000-U	1260	U	III-A	WHCU.....	Ithaca, N. Y.	1,000	870	L-WWL	II
WFBR.....	Baltimore, Md.	1,000 5,000-LS (Proposed 5,000)	1300	U	III-A	WHDF.....	Calumet, Mich.	250	1400	U	IV
*WFCL.....	Pawtucket, R. I.	1,000	1420	U	III-B	WHDH.....	Boston, Mass.	1,000	850	L-KOA	II
WFDF.....	Flint, Mich.	100 CP-1,000	1910	U	III-B	WHDL.....	Olean, N. Y.	250	1450	U	IV
WFEA.....	Manchester, N. H.	500 1,000-LS CP-5,000-U	1370	U	III-A	WHEB.....	Portsmouth, N. H.	1,000	750	L-WSB	II
WFHR.....	Wisconsin Rapids, Wis.	100 250-LS	1340	U	IV	WHEC.....	Rochester, N. Y.	500 1,000-LS	1460	U	III-B
WFIG.....	Sumter, S. C.	100 250-LS	1340	U	IV	WHFC.....	Cicero, Ill.	250	1450	U	IV
WFIL.....	Philadelphia, Pa.	1,000	560	U	III-A	WHIO.....	Dayton, O.	1,000 5,000-LS CP-5,000-U	1290	U	III-A
WFLA.....	Tampa, Fla.	1,000 5,000-LS	970	U	III-B	WHIP.....	Hammond, Ind.	5,000	1520	6:00 a.m. to LS at Buffalo, N. Y.	II
WFMD.....	Frederick, Md.	500	930	U	III-B	WHIS.....	Bluefield, W. Va.	500 1,000-LS	1440	U	III-B
WFMJ.....	Youngstown, O.	250	1450	U	IV	WHIZ.....	Zanesville, O.	250	1240	U	IV
WFNC.....	Fayetteville, N. C.	250	1370	D	IV	WHJB.....	Greensburg, Pa.	250	620	D	IV
WFOR.....	Hattiesburg, Miss.	100 CP-250	1400	U	IV	WHK.....	Cleveland, O.	5,000	1420	U	III-A
WFOY.....	St. Augustine, Fla.	250	1240	U	IV	WHKC.....	Columbus, O.	500	640	L-KFI	II
WFGP.....	Atlantic City, N. J.	250	1450	U	IV	WHKY.....	Hickory, N. C.	250	1400	U	IV
WFTC.....	Kinston, N. C.	250	1230	U	IV	WHLB.....	Virginia, Minn.	250	1400	U	IV
WFTL.....	Ft. Lauderdale, Fla.	250	1400	U	IV	WHLD.....	Niagara Falls, N. Y.	1,000	1290	D	III
WFTM.....	Fort Myers, Fla.	250	1240	U	IV	*WHLN.....	Harlan, Ky.	250	1450	U	IV
WFVA.....	Fredericksburg, Va.	250	1290	D	IV	WHLS.....	Port Huron, Mich.	250	1450	U	IV
WGAC.....	Augusta, Ga.	250	1240	U	IV	WHMA.....	Anniston, Ala.	250	1450	U	IV
WGAL.....	Lancaster, Pa.	250	1490	U	IV	WHN.....	New York, N. Y.	1,000 5,000-LS CP-50,000	1050	U	II
WGAN.....	Portland, Me.	5,000	560	U	III-A	WHO.....	Des Moines, Ia.	50,000	1040	U	I-A
WGAR.....	Cleveland, O.	1,000 5,000-LS	1480	U	III-B	WHOM.....	Jersey City, N. J.	500 1,000-LS	1480	U	III-B
WGAU.....	Athens, Ga.	250	1340	U	IV	WHOP.....	Hopkinsville, Ky.	250	1230	U	IV
WGBB.....	Freeport, N. Y.	100	1240	S-WBRB, WFAS	IV	WHP.....	Harrisburg, Pa.	1,000 5,000-LS	1460	U	III-B
WGBF.....	Evansville, Ind.	1,000 5,000-LS	1280	U	III-B	WHUB.....	Cookeville, Tenn.	250	1400	U	IV
WGBI.....	Scranton, Pa.	500 1,000-LS	910	S-WQAN	III-B	*WHYN.....	Holyoke, Mass.	250	1400	U	IV
WGBR.....	Goldsboro, N. C.	250	1400	U	IV	WIBA.....	Madison, Wis.	1,000 5,000-LS CP-5,000-U	1310	U	III-A
WGCM.....	Gulfport, Miss.	250	1240	U	IV	WIBC.....	Indianapolis, Ind.	1,000 CP-5,000-LS	1070	U	II
WGES.....	Chicago, Ill.	500 (Sunday) 1,000-LS CP-5,000-U	1390	SH CP-U	III-A	WIBG.....	Glenside, Pa.	1,000	990	D	II
*WGA.....	Gainesville, Ga.	250	1240	U	IV	WIBM.....	Jackson, Mich.	250	1450	U	IV
WGH.....	Newport News, Va.	250	1340	U	IV	WIBU.....	Poynette, Wis.	250	1240	U	IV
WGIL.....	Galesburg, Ill.	250	1400	U	IV	WIBW.....	Topeka, Kan.	1,000 5,000-LS CP-5,000-U	580	S-KSAC	III-A
WGKV.....	Charleston, W. Va.	100	1490	U	IV	WIBX.....	Utica, N. Y.	250	1230	U	IV
WGL.....	Ft. Wayne, Ind.	250	1450	U	IV	WICA.....	Ashtabula, O.	1,000	970	D	III
WGN.....	Chicago, Ill.	50,000	720	U	I-A	WICC.....	Bridgeport, Conn.	500 1,000-LS	600	U	III-B
WGNC.....	Gastonia, N. C.	250	1450	U	IV	WIGM.....	Medford, Wis.	100	1490	U	IV
WGNV.....	Newburgh, N. Y.	250	1250	D	IV	WIL.....	St. Louis, Mo.	250	1230	U	IV
WGOV.....	Valdosta, Ga.	250	1450	U	IV	WILL.....	Urbana, Ill.	5,000	580	D	III
WGPC.....	Albany, Ga.	250	1450	U	IV	WILM.....	Wilmington, Del.	250	1450	U	IV
WGR.....	Buffalo, N. Y.	1,000 5,000-LS	550	U	III-B	*WINC.....	Winchester, Va.	250	1400	U	IV
WGRB.....	Grands Rapids, Mich.	250	1230	U	IV	WIND.....	Gary, Ind.	1,000 5,000-LS CP-5,000-U	560	U	III-A
WGRD.....	New Albany, Ind.	250	1400	U	IV	WING.....	Dayton, O.	5,000	1410	U	III-A
WGRM.....	Greenwood, Miss.	250	1240	U	IV	WINN.....	Louisville, Ky.	100 250-LS	1240	U	IV
WGST.....	Atlanta, Ga.	1,000 5,000-LS	920	U	III-A	WINS.....	New York, N. Y.	1,000 CP-50,000	1000	L-WCFL CP-U	U
WGTC.....	Greenville, N. C.	250	1490	U	IV	WINX.....	Washington, D. C.	250	1340	U	IV
WGTM.....	Wilson, N. C.	250	1340	U	IV	WIOD.....	Miami, Fla.	1,000 CP-5,000	610	U	III-A
WGY.....	Schenectady, N. Y.	50,000	810	U	I-B	WIP.....	Philadelphia, Pa.	5,000	610	U	III-A
WHA.....	Madison, Wis.	5,000	970	D	III	WIRE.....	Indianapolis, Ind.	5,000	1430	U	III-A
WHAJ.....	Greenfield, Mass.	250	1240	U	IV	WIS.....	Columbia, S. C.	1,000 5,000-LS CP-5,000-U	560	U	III-A
*WHAL.....	Saginaw, Mich.	500	980	D	III	WISE.....	Asheville, N. C.	250	1400	U	IV
WHAM.....	Rochester, N. Y.	50,000	1180	U	I-A	*WISH.....	Indianapolis, Ind.	1,000 5,000-LS	1310	U	III-B
WHAS.....	Louisville, Ky.	50,000	840	U	I-A	WISN.....	Milwaukee, Wis.	250 1,000-LS CP-5,000	1150	U	III-A
WHAT.....	Philadelphia, Pa.	100	1340	S-WTEL	IV	WITH.....	Baltimore, Md.	250	1230	U	IV
WHAZ.....	Troy, N. Y.	1,000	1330	S-WBRB WEVD	III-A	WIZE.....	Springfield, O.	100	1340	U	IV
WHB.....	Kansas City, Mo.	1,000	880	D	II	WJAC.....	Johnstown, Pa.	250	1400	U	IV
WHBB.....	Selma, Ala.	100	1490	U	IV	WJAG.....	Norfolk, Neb.	1,000 (Proposed 780)	1090	L-WBAL KTHS	II
WHBC.....	Canton, O.	250	1230	U	IV	WJAR.....	Providence, R. I.	1,000 5,000-LS CP-5,000-U	920	U	III-A
WHBF.....	Rock Island, Ill.	1,000 CP-5,000-U	1270	U	III-A	WJAS.....	Pittsburgh, Pa.	1,000 5,000-LS CP-5,000-U	1320	U	III-A
WHBI.....	Newark, N. J.	1,000 2,500-LS	1280	S-WNEW	III-A						

**SUCH**  
*Popularity*  
**MUST**  
**BE DESERVED!**



**MEMBER**  
**SOUTH CENTRAL**  
**QUALITY NETWORK**  
 KWKH—Shreveport  
 KTBS—Shreveport  
 KARK—Little Rock  
 WJDX—Jackson  
 WMC—Memphis  
 WSMB—New Orleans

**CBS AUDIT OF NIGHTTIME COVERAGE**  
 COVERAGE LEVEL KEY  
 PRIMARY 67-100%\*   
 SECONDARY 33-67%   
 OCCASIONAL 10-33%

\*100% = All radio families; coverage levels based on percentage of families reporting regular listening (weekly or better).

Night Coverage: Primary — 169,000; Secondary — 201,150; Columbia audit all areas total — 425,683 radio families.

**KWKH, as a Class I-B 50,000 Watt Station Attains Maximum Coverage of One of the Nation's Richest Markets**

KWKH boasts of many new friends in a greater area, as shown on the map above, which is the new CBS audit of night-time coverage. Not only lady friends, please, because there's just hundreds of thousands of

soldiers all around us. A great portion of Uncle Sam's defense expenditures has been concentrated in the KWKH coverage area. And so, with this new CBS listening audit, we are more popular than ever . . . AND SUCH POPULARITY MUST BE DESERVED.

*KWKH moves to 1130 on March 29, 1941*

REPRESENTED BY THE BRANHAM CO.

**K W K H**

*A Shreveport Times Station*

BASE MAP copyrighted by the Columbia Broadcasting System, Inc., 1941.

**C B S**



**50,000 Watts**

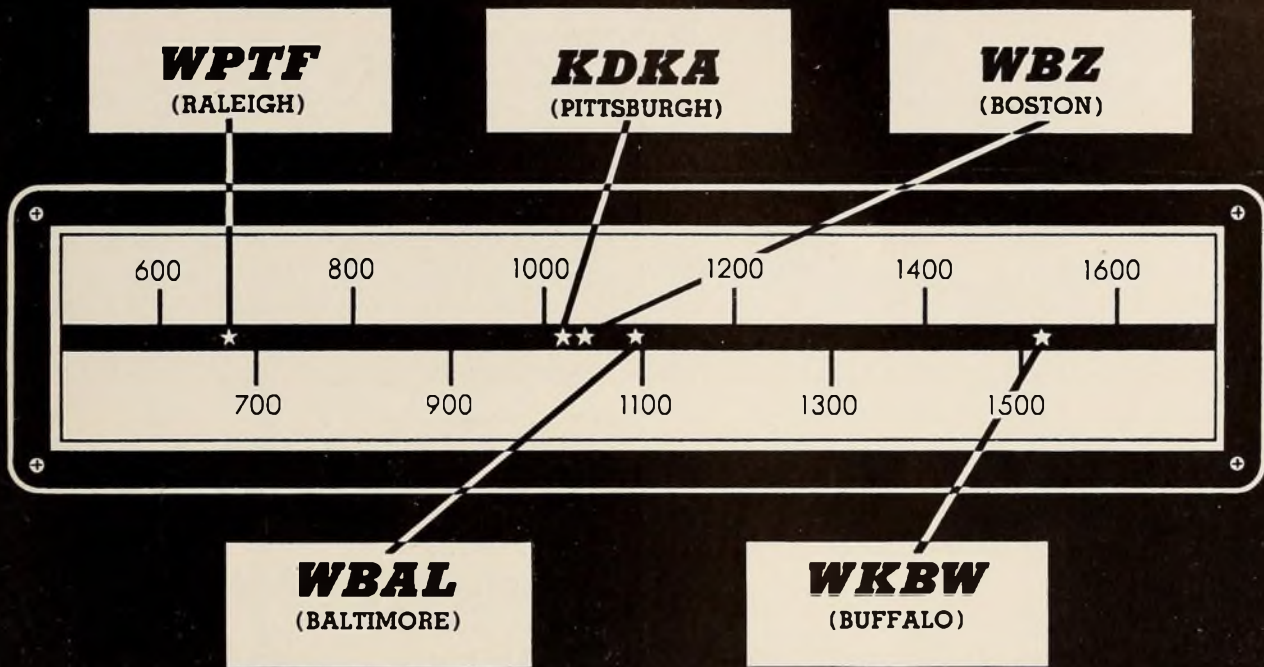


**SHREVEPORT**  
**LOUISIANA**

Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class	Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
WJAX	Jacksonville, Fla.	1,000 5,000—LS	930	U	III-A	WLLOL	Minneapolis, Minn.	1,000	1330	U	III-B
WJBC	Bloomington, Ill.	250	1230	U	IV	WLPM	Suffolk, Va.	250	1450	U	IV
WJBK	Detroit, Mich.	250	1490	U	IV	WLS	Chicago, Ill.	50,000	890	S-WENR	I-A
WJBO	Baton Rouge, La.	1,000 CP-5,000	1150	U	III-A	WLTH	New York, N. Y.	500	1430	S-WARD WBBC WVFW	III-B
WJBW	New Orleans, La.	250	1230	U	IV	WLVA	Lynchburg, Va.	250	1230	U	IV
WJBY	Gadsden, Ala.	250	1240	U	IV	WLW	Cincinnati, O.	50,000	700	U	I-A
WJDY	Jackson, Miss.	1,000 5,000—LS	1300	U	III-A	WMAL	Washington, D. C.	5,000	630	U	III-A
WJEJ	Hagerstown, Md.	250	1240	U	IV	WMAM	Marinette, Wis.	250	570	D	IV
WJHL	Johnson City, Tenn.	1,000	910	U	III-B	WMAN	Mansfield, O.	250	1400	U	IV
WJHO	Opelika, Ala.	100 250—LS	1400	U	IV	WMAQ	Chicago, Ill.	50,000	670	U	I-A
WJHP	Jacksonville, Fla.	250	1320	U	IV	WMAS	Springfield, Mass.	250	1450	U	IV
WJIM	Lansing, Mich.	250	1240	U	IV	*WMAW	Worcester, Mass.	250	1230	U	IV
WJJD	Chicago, Ill.	20,000	1160	L-KSL	II	WMAZ	Macon, Ga.	250 5,000—LS (Proposed 5,000—U)	940	U	II
WJLB	Detroit, Mich.	250	1400	U	IV	WMBD	Peoria, Ill.	1,000 5,000—LS	1470	U	III-B
WJLS	Beckley, W. Va.	250	1240	U	IV	WMBG	Richmond, Va.	5,000	1380	U	III-A
WJMC	Rice Lake, Wis.	250	1240	U	IV	WMBH	Joplin, Mo.	250	1450	U	IV
WJMS	Ironwood, Mich.	250	1450	U	IV	WMBI	Chicago, Ill.	5,000	1110	L-WBT, S-WCBD	I
WJNO	W. Palm Beach, Fla.	250	1230	U	IV	WMBO	Auburn, N. Y.	250	1340	U	IV
WJOB	Hammond, Ind.	100	1230	U	IV	WMBR	Jacksonville, Fla.	250	1400	U	IV
WJPF	Herrin, Ill.	250	1340	U	IV	WMBS	Uniontown, Pa.	250 CP-1,000	1590	U	III-B
WJPR	Greenville, Miss.	250	1340	U	IV	WMC	Memphis, Tenn.	1,000 5,000—LS	790	U	III-A
WJR	Detroit, Mich.	50,000	760	U	I-A	WMCA	New York, N. Y.	1,000 5,000—LS	570	U	III-A
WJRD	Tuscaloosa, Ala.	250	1230	U	IV	*WMDF	Greenwood, S. C.	250	1450	U	IV
WJSV	Washington, D. C.	50,000	1500	U	I-B	WMEX	Boston, Mass.	5,000	1510	U	II
WJTN	Jamestown, N. Y.	250	1240	U	IV	WMFD	Wilmington, N. C.	250	1400	U	IV
WJW	Akron, O.	250	1240	U	IV	WMFF	Plattsburg, N. Y.	250	1340	U	IV
WJZ	New York, N. Y.	50,000	770	U	I-A	WMFG	Hibbing, Minn.	250	1240	U	IV
*WJZM	Clarksville, Tenn.	250	1400	U	IV	WMFJ	Daytona Beach, Fla.	250	1450	U	IV
WKAQ	San Juan, Puerto Rico	1,000 CP-5,000	†620	U	III-A	WMFR	High Point, N. C.	250	1230	U	IV
WKAR	East Lansing, Mich.	5,000	870	D	II	WMGA	Moultrie, Ga.	250	1400	U	IV
WKAT	Miami Beach, Fla.	1,000	1360	U	III-B	WMIN	St. Paul, Minn.	250	1400	U	IV
WKBB	Dubuque, Ia.	250	1490	U	IV	WMJM	Cordele, Ga.	100 250—LS	1490	U	IV
WKBH	LaCrosse, Wis.	1,000 CP-5,000	1410	U	III-A	WMMN	Fairmont, W. Va.	1,000 5,000—LS CP-5,000—U	920	U	III-A
WKBN	Youngstown, O.	500 1,000—LS	570	SH-WOSU	III-B	WMOB	Mobile, Ala.	250	1230	U	IV
WKBO	Harrisburg, Pa.	250	1230	U	IV	WMOG	Brunswick, Ga.	100 250—LS	1490	U	IV
WKBV	Richmond, Ind.	100	1490	U	IV	WMPC	Lapeer, Mich.	250	1230	SH	IV
WKBW	Buffalo, N. Y.	5,000 CP-50,000	1520	U	II I-B	WMPS	Memphis, Tenn.	500 1,000—LS	1460	U	III-B
WKBZ	Muskegon, Mich.	250	1490	U	IV	WMRC	Greenville, S. C.	250	1490	U	IV
WKEU	Griffin, Ga.	100	1450	U	IV	*WMRF	Lewistown, Pa.	250	1490	U	IV
WKIP	Poughkeepsie, N. Y.	1450	250	U	IV	WMRN	Marion, O.	250	1490	U	IV
*WKMO	Kokomo, Ind.	250	1400	U	IV	WMRO	Aurora, Ill.	250	1280	D	IV
WKNE	Keene, N. H.	5,000	1290	U	III-A	WMSD	Muscle Shoals City, Ala.	250	1450	U	IV
WKNY	Kingston, N. Y.	250	1490	U	IV	WMSL	Decatur, Ala.	250	1400	U	IV
WKOK	Sunbury, Pa.	250	1240	U	IV	WMT	Cedar Rapids, Ia.	1,000 5,000—LS CP-5,000—U	600	U	III-A
WKPA	New Kensington, Pa.	250	1150	D	IV	*WMUR	Manchester, N. H.	1,000 5,000—LS	610	U	III-B
WKPT	Kingsport, Tenn.	250	1400	U	IV	*WMVA	Martinsville, Va.	100 250—LS	1450	U	IV
WKRC	Cincinnati, O.	1,000 5,000—LS	550	U	III-B	WMWH	Augusta, Ga.	250	1450	U	IV
*WKRO	Cairo, Ill.	250	1490	U	IV	*WNAB	Bridgeport, Conn.	250	1450	U	IV
WKST	New Castle, Pa.	1,000	1280	D CP-U	III	WNAC	Boston, Mass.	1,000 5,000—LS CP-5,000—U	1260	U	III-A
*WKWK	Wheeling, W. Va.	250	1400	U	IV	WNAD	Norman, Okla.	1,000	640	D	II
WKY	Oklahoma City, Okla.	1,000 5,000—LS CP-5,000—U	930	U	III-A	WNAX	Yankton, S. D.	1,000 5,000—LS CP-5,000—U	570	U	III-A
WKZO	Kalamazoo, Mich.	1,000 CP-5,000—LS	590	U	III-B	WNBC	New Britain, Conn.	1,000 CP-5,000—LS	1410	U	III-B
WLAC	Nashville, Tenn.	5,000 (Proposed 50,000)	1510	U	II I-B	WNBK	Binghamton, N. Y.	250	1490	U	IV
WLAG	La Grange, Ga.	250	1240	U	IV	WNBH	New Bedford, Mass.	250	1340	U	IV
WLAK	Lakeland, Fla.	250	1340	U	IV	WNBZ	Saranac Lake, N. Y.	100	1320	D	IV
WLAP	Lexington, Ky.	250	1450	U	IV	WNEL	San Juan, Puerto Rico	1,000 2,500—LS CP-5,000—U	1320	U	III-A
WLAV	Grand Rapids, Mich.	250	1340	U	IV	WNEW	New York, N. Y.	1,000 5,000—LS CP-5,000—U	1230	S-WHBI	III-A
WLAW	Lawrence, Mass.	5,000	680	U	II	WNLC	New London, Conn.	250	1490	U	IV
WLB	Minneapolis, Minn.	5,000	770	S-WCAL (2/3 daytime)	II	WNOE	New Orleans, La.	250	1450	U	IV
WLBK	Muncie, Ind.	250	1340	U	IV	WNOX	Knoxville, Tenn.	1,000 5,000—LS	990	U	II
WLBK	Bowling Green, Ky.	250	1340	U	IV	WNYC	New York, N. Y.	1,000	830	L-WCCO	II
WLBL	Stevens Point, Wis.	5,000	930	D	III						
WLBZ	Bangor, Me.	500 1,000—LS CP-5,000—U	620	U	III-A						
WLEU	Erie, Pa.	250	1450	U	IV						
WLLH	Lowell, Mass.	250	1400	U	IV						
WLNH	Laconia, N. H.	250	1340	U	IV						
WLOF	Orlando, Fla.	250	1230	U	IV						
WLOG	Logan, W. Va.	100	1230	U	IV						
WLOK	Lima, O.	250	1240	U	IV						

**THESE STATIONS ARE NOW OPERATING OR INSTALLING**

# Westinghouse 50-HG Transmitters

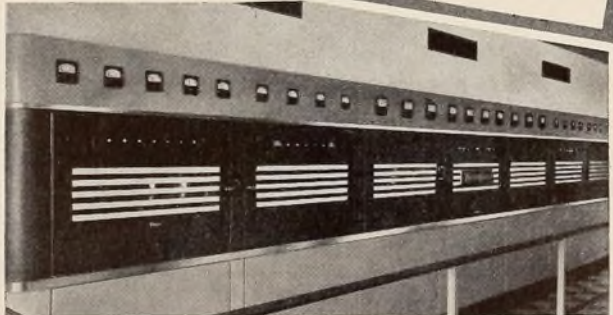


The Westinghouse 50-HG Broadcast Transmitter is a 50 kilowatt set built for broadcasting stations by a company that has been engaged in practical radio station operation since the industry started. The 50-HG first demonstrated its economy, reliability, and operating convenience in Pittsburgh's KDKA early in 1940. Since then four other big time radio stations have chosen 50-HG performance—WBZ, WPTF, WBAL and WKBW. Out of four stations granted 50,000-watt permits in 1940, THREE selected the Westinghouse 50-HG Transmitter.

**UNDIVIDED RESPONSIBILITY**—In addition to complete broadcast transmitters, Westinghouse manufactures ALL the other equipment needed for transmitting station operation. This service includes station lighting, tower lighting, antenna phasing and tuning, and all auxiliary power equipment.

Get in touch with your nearest Westinghouse office for complete information on Westinghouse COMPLETE broadcast equipment. Whatever your need, Westinghouse has the experience and apparatus to fill it exactly.

**WITH THESE OPERATING ADVANTAGES:**  
 Air-cooled tubes in all stages • Extremely low operating costs • Metal rectifiers throughout, except main high-voltage rectifier • Inductive neutralization of the power amplifier • Equalized feedback • Compressed gas condensers • Complete elimination of fuses • Spare rectifier tube at operating temperature • Ease of adjustment • Unit construction throughout • Full automatic control • Relatively low plate voltages • Conservative operation of all tubes.



J-08035

# Westinghouse

**BROADCAST EQUIPMENT**



Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class	Call Letters	Location	Power in Watts	New Frequency in Kc.	Time Designation	Class
WOAI.....	San Antonio, Tex.	50,000	1200	U	I-A	WSB.....	Atlanta, Ga.	50,000	750	U	I-A
WOC.....	Davenport, Ia.	250	1450	U	IV	WSBC.....	Chicago, Ill.	250	1240	SH-WCRW, WEDC	IV
WOCB.....	Hyannis, Mass.	250	1240	U	IV	†WSBT.....	South Bend, Ind.	250 500—LS CP-500—U	†960	SH U	III-B
WOI.....	Ames, Ia.	5,000	640	D	II	WSFA.....	Montgomery, Ala.	500 1,000—LS	1440	U	III-B
WOKO.....	Albany, N. Y.	500 1,000—LS	1460	U	III-B	WSGN.....	Birmingham, Ala.	250 CP-1,000—U	1340 †610	U	IV III-B
WOL.....	Washington, D. C.	1,000	1260	U	III-A	WSIX.....	Nashville, Tenn.	250 CP-1,000—N CP-5,000—LS	1240 †980	U	IV
WOLF.....	Syracuse, N. Y.	250	1490	U	IV	WSJS.....	Winston-Salem, N. C.	250 CP-1,000	†600	U	III-B
WOLS.....	Florence, S. C.	250	1230	U	IV	WSKB.....	McComb, Miss.	250	1230	U	IV
WOMI.....	Owensboro, Ky.	250	1490	U	IV	WSLB.....	Ogdensburg, N. Y.	250	1400	U	IV
WOMT.....	Manitowoc, Wis.	100	1240	U	IV	WSLI.....	Jackson, Miss.	250	1450	U	IV
WOOD.....	Grand Rapids, Mich. (Proposed 5,000)	500	1300	S-WASH	III-B III-A	WSLS.....	Roanoke, Va.	250	1490	U	IV
WOPI.....	Bristol, Tenn.	250	1490	U	IV	WSM.....	Nashville, Tenn.	50,000	650	U	I-A
WOR.....	New York, N. Y.	50,000	710	U	I-B	WSMB.....	New Orleans, La.	5,000	1350	U	III-A
WORC.....	Worcester, Mass.	500 CP-1,000	1310	U	III-B	WSNJ.....	Bridgeton, N. J.	250	1240	U	IV
WORD.....	Spartanburg, S. C.	250	1400	U	IV	WSOC.....	Charlotte, N. C.	100 250—LS	1240	U	IV
WORK.....	York, Pa.	1,000	1350	U	III-B	WSOO.....	Sault Ste. Marie, Mich.	100	1230	U	IV
WORL.....	Boston, Mass.	1,000	950	D	III	WSOY.....	Decatur, Ill.	250	1340	U	IV
WOSU.....	Columbus, O.	1,000	570	SH-WKBN	III-A	WSPA.....	Spartanburg, S. C.	1,000 CP-1,000—N CP-5,000—LS	950	D CP-U	III-B
WOV.....	New York, N. Y.	5,000 CP-10,000	1130	U	I-B	WSPB.....	Sarasota, Fla.	250	1450	U	IV
WOW.....	Omaha, Neb.	5,000	590	U	III-A	WSPD.....	Toledo, O.	5,000	1370	U	III-A
WOWO.....	Ft. Wayne, Ind. (Proposed 50,000)	10,000	1190	SH (Proposed U)	I-B	WSPR.....	Springfield, Mass.	250 500—LS CP-500—U	†1270	SH CP-U	III-B
WPAB.....	Ponce, Puerto Rico	1,000	1370	U	III-A	WSTP.....	Salisbury, N. C.	250	1490	U	IV
WPAD.....	Paducah, Ky.	250	1450	U	IV	WSTV.....	Steubenville, O.	250	1340	SH-WSAJ	IV
WPAR.....	Parkersburg, W. Va.	100 CP-250	1450	U	IV	WSUI.....	Iowa City, Ia.	1,000 5,000—LS	910	U	III-A
*WPAT.....	Paterson, N. J.	1,000	930	D	III	WSUN.....	St. Petersburg, Fla.	5,000	620	U	III-A
WPAX.....	Thomasville, Ga.	250	1240	U	IV	WSVA.....	Harrisonburg, Va.	500 CP-1,000	550	D	III
WPAY.....	Portsmouth, O.	100 CP-250	1400	U	IV	WSVS.....	Buffalo, N. Y.	50	1400	SH-D-WBNY	IV
WPEN.....	Philadelphia, Pa.	1,000 CP-5,000	950	U	III-A	WSYB.....	Rutland, Vt.	250	1490	U	IV
*WPER.....	Deland, Fla.	250	1340	U	IV	WSYR.....	Syracuse, N. Y.	1,000	570	U	III-A
WPIC.....	Sharon, Pa.	1,000	790	D	III	WTAD.....	Quincy, Ill.	1,000	930	U	III-B
WPID.....	Petersburg, Va.	250	1240	U-Except Sunday when WBBI operates	IV	WTAG.....	Worcester, Mass.	1,000 5,000—LS CP-5,000—U	580	U	III-A
WPRA.....	Mayaguez, Puerto Rico	1,000 2,500—LS	790	U	III-A	WTAL.....	Tallahassee, Fla.	100 250—LS	1340	U	IV
WPRO.....	Providence, R. I.	5,000	630	U	III-A	WTAM.....	Cleveland, O.	50,000 *	1100	U	I-A
WPRP.....	Ponce, Puerto Rico	250 CP-1,000—N CP-5,000—LS	1420 †1520	U	IV II	WTAQ.....	Green Bay, Wis.	5,000	1360	U	III-A
WPTF.....	Raleigh, N. C.	5,000 CP-50,000	680	U	II	WTAR.....	Norfolk, Va.	5,000	790	U	III-A
WQAM.....	Miami, Fla.	1,000	560	U	III-A	WTAW.....	College Station, Tex.	500 CP-1,000	1150	SH-D-KTBC	III
WQAN.....	Scranton, Pa.	500 1,000—LS	910	S-WGBI	III-B	WTAX.....	Springfield, Ill.	100	1240	U	IV
WQBC.....	Vicksburg, Miss.	1,000	1390	D	III	WTBO.....	Cumberland, Md.	250	820	L-WFAA, WBAP	II
WQXR.....	New York, N. Y. (Proposed 10,000)	5,000	1560	U	II	WTCM.....	Traverse City, Mich.	250	1400	U	IV
WRAK.....	Williamsport, Pa.	250	1400	U	IV	WTCN.....	Minneapolis, Minn.	1,000 5,000—LS	1280	U	III-A
WRAL.....	Raleigh, N. C.	250	1240	U	IV	WTEL.....	Philadelphia, Pa.	100	1340	S-WHAT	IV
WRAW.....	Reading, Pa.	250	1340	U	IV	WTHT.....	Hartford, Conn.	250	1230	U	IV
WRBL.....	Columbus, Ga.	250	1230	U	IV	WTIC.....	Hartford, Conn.	50,000	1080	U	I-B
WRC.....	Washington, D. C.	1,000 5,000—LS CP-5,000—U	980	U	III-A	WTJS.....	Jackson, Tenn.	250 CP-1,000	†1390	U	III-B
WRDO.....	Augusta, Me.	100	1400	U	IV	WTMA.....	Charleston, S. C.	250	†1250	U	IV
WRDW.....	Augusta, Ga.	250	1490	U	IV	WTMC.....	Ocala, Fla.	100 CP-1,000	1490	U	IV
WREC.....	Memphis, Tenn.	1,000 5,000—LS CP-5,000—U	600	U	III-A	WTMJ.....	Milwaukee, Wis.	1,000 5,000—LS CP-5,000—U	620	U	III-A
WREN.....	Lawrence, Kan.	1,000 5,000—LS CP-5,000	1250	S-KFKU	III-A	WTMV.....	E. St. Louis, Ill.	250	1490	U	IV
WRGA.....	Rome, Ga.	250	1490	U	IV	WTNJ.....	Trenton, N. J.	500	1310	S-WCAM, WCAP	III-B
WRJN.....	Racine, Wis.	250	1400	U	IV	WTOC.....	Savannah, Ga.	1,000 5,000—LS	1290	U	III-A
*WRLC.....	Toccoa, Ga.	250	1450	U	IV	WTOL.....	Toledo, O.	250	1230	U	IV
WRNL.....	Richmond, Va.	1,000	910	U	III-B	WTRC.....	Elkhart, Ind.	250	1340	U	IV
WROK.....	Rockford, Ill.	500 1,000—LS	1440	U	III-B	WTRY.....	Troy, N. Y.	1,000	980	U	III-B
WROL.....	Knoxville, Tenn.	500 1,000—LS	620	U	III-B	WTSP.....	St. Petersburg, Fla.	250 CP-500 1,000—LS	†1380	U	III-B
WRR.....	Dallas, Tex.	500 CP-5,000	1310	U	III-A	WVFW.....	Brooklyn, N. Y.	500	1430	S-WARD WBBC, WLTH	III-B
WRUF.....	Gainesville, Fla.	5,000	850	L-KOA	II	*WWDC.....	Washington, D. C.	250	1450	U	IV
WRVA.....	Richmond, Va.	50,000	1140	U	I-B	WWJ.....	Detroit, Mich.	1,000 5,000—LS CP-5,000—U	950	U	III-A
WSAI.....	Cincinnati, O.	1,000 5,000—LS CP-5,000—U	1360	U	III-A	WWL.....	New Orleans, La.	50,000	870	U	I-A
WSAJ.....	Grove City, Pa.	100	1340	SH	IV	WWNC.....	Asheville, N. C.	1,000	570	U	III-A
WSAM.....	Saginaw, Mich.	100	1230	SH	IV	WWNY.....	Watertown, N. Y.	500	1300	D	III
WSAN.....	Allentown, Pa.	500	1470	S-WCBA	III-B	WWRL.....	Woodside, N. Y. (Proposed 500)	250	1600	S-WCNW	IV III-B
WSAR.....	Fall River, Mass.	1,000	1480	U	III-B	WWSR.....	St. Albans, Vt.	1,000	1420	D	III
WSAU.....	Wausau, Wis.	250	1400	U	IV	WWSW.....	Pittsburgh, Pa.	250	1490	U	IV
WSAV.....	Savannah, Ga.	250	1340	U	IV	WWVA.....	Wheeling, W. Va. (Proposed 50,000)	5,000	1170	SH	II
WSAY.....	Rochester, N. Y.	250	1240	U	IV	WXYZ.....	Detroit, Mich.	5,000	1270	U	III-A
WSAZ.....	Huntington, W. Va.	250 1,000—LS CP-1,000—U	930	SH	III-B	*NEW.....	Stamford, Conn.	250	1400	U	IV
						*NEW.....	Endicott, N. Y.	250	1450	U	IV
						*NEW.....	Natchez, Miss.	250	1490	U	IV

**NEW SPOT ON THE DIAL**

**BUT..**



**the same friendly,  
profitable audience  
in**

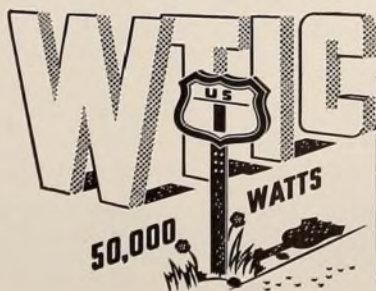
**AMERICA'S  
No. 1  
MARKET**



**W**AVE-LENGTH changes and the necessity for new dial settings won't faze the friendly people in the profitable Southern New England market. They'll turn to WTIC as a matter of course for, during the more than 15 years of WTIC's existence, these folks have developed an "unbreakable" listening habit.

These listeners enjoy the entertainment that WTIC affords them and they respect the services that it renders just as WTIC respects, and enjoys serving them.

You won't find a better market for your product than this rich Southern New England area, especially now that additional millions of dollars are flowing into vital defense industries. And you won't find a better means than WTIC to get your message across in this territory.



**DIRECT ROUTE TO AMERICA'S NO. 1 MARKET**

*The Travelers Broadcasting Service Corporation  
Member of NBC Network and Yankee Network*

Representatives: WEED & COMPANY, New York, Chicago, Detroit, San Francisco

# Log of U. S. Broadcast Stations

Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty  
(As approved by the United States Government)

## ABBREVIATIONS

U—Unlimited Time. D—Daytime. N—Night Time. S—Shares Time. SH—Specified Hours. LS—Power Until Local Sunset. L—Limited Time With Dominant Station. CP—Construction Permit. DA—Directional Antenna. \*—CP for New Station. †—CP for New Frequency.

## EXPLANATION

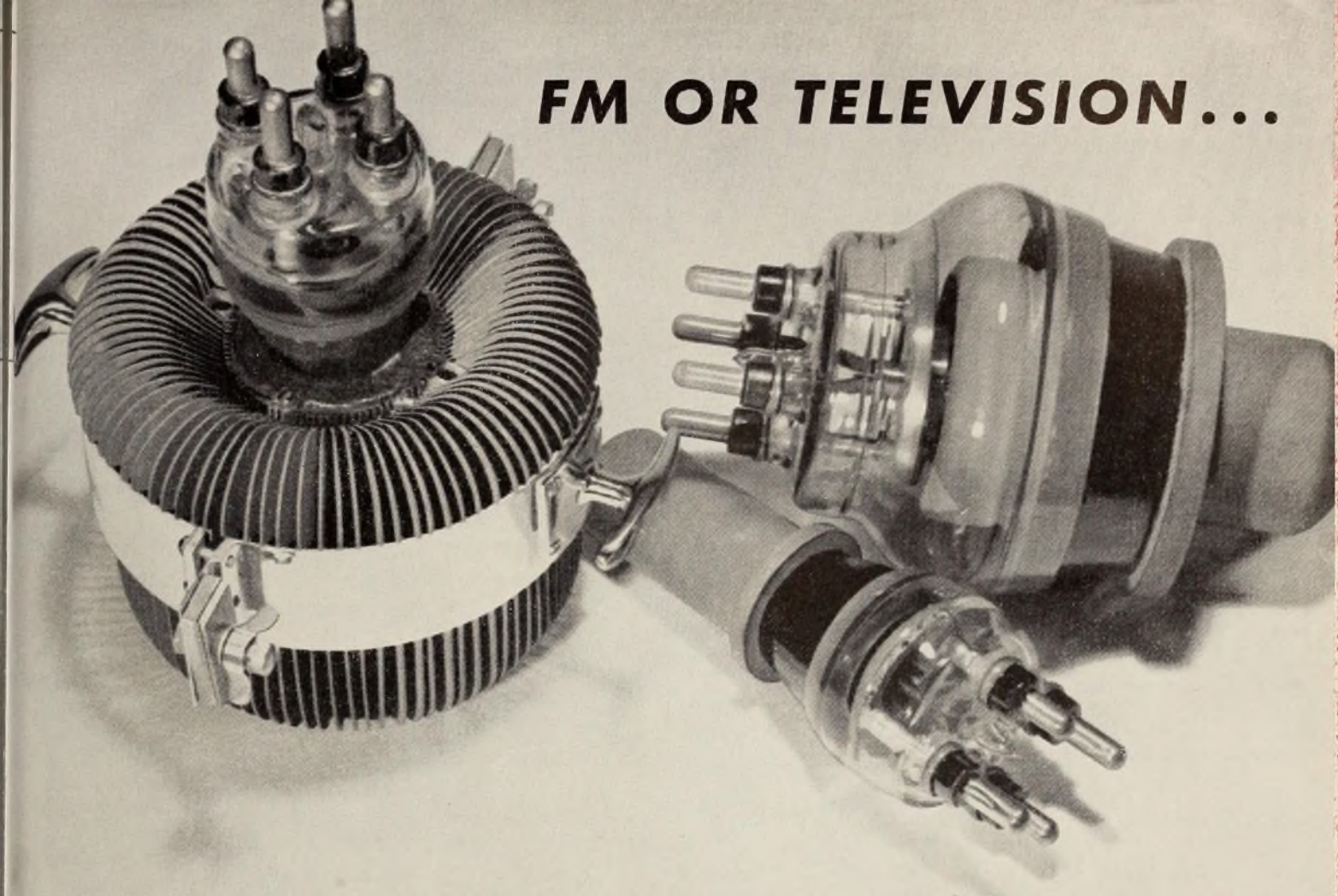
Powers shown are those at present authorized. Classifications of stations, however, govern potential power allowed. Many stations already are installing new equipment which will qualify them for the higher power permissible under their classifications. For classes and potential powers see definitions on Page 36. All powers are U unless otherwise designated. Where LS and D powers are shown, the upper designation is the night power. Radiation in terms of millivolts-per-meter (mv/m) indicates the average (RMS) unattenuated field strength at one mile for 1,000 watts.

(Corrected to March 20, 1941)

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class	Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>550 KILOCYCLES</b>						<b>590 KILOCYCLES</b>					
KOY.....	Phoenix, Ariz.	1,000	175	U	III-A	KGMB.....	Honolulu, Hawaii	5,000	175	U	III-A
KSD.....	St. Louis, Mo.	1,000 5,000—LS	200 DA-N	U	III-B	WEEL.....	Boston, Mass.	5,000	DA	U	III-A
WGR.....	Buffalo, N. Y.	1,000 5,000—LS	175 DA-N	U	III-B	WKZO.....	Kalamazoo, Mich.	1,000 CP-5,000—LS	189 DA-N	U	III-B
KFYR.....	Bismarck, N. D.	1,000 5,000—LS CP-5,000—U	210 DA-N	U	III-A	WOW.....	Omaha, Neb.	5,000	180	U	III-A
WKRC.....	Cincinnati, O.	1,000 5,000—LS	DA	U	III-B	†WMBS.....	Uniontown, Pa.	250 CP-1,000	175 DA-N	U	III-A
KOAC.....	Corvallis, Ore.	1,000 CP-5,000—LS	DA	U	III-A	KHQ.....	Spokane, Wash.	5,000	235	U	III-A
KTSA.....	San Antonio, Tex.	1,000 5,000—LS	175	U	III-A	<b>600 KILOCYCLES</b>					
WDEV.....	Waterbury, Vt.	1,000	180	D	III	KFSD.....	San Diego, Cal.	1,000 CP-5,000	175	U	III-A
WSVA.....	Harrisonburg, Va.	500—D CP-1,000—D	175	D	III	WICC.....	Bridgeport, Conn.	500 1,000—LS	DA	U	III-B
<b>560 KILOCYCLES</b>						WMT.....	Cedar Rapids, Ia.	1,000 5,000—LS CP-5,000—U	180 DA-N	U	III-A
KSFO.....	San Francisco, Cal.	1,000 5,000—LS	175	U	III-A	WCAO.....	Baltimore, Md.	500 1,000—LS	175	U	III-B
KLZ.....	Denver, Colo.	5,000	DA	U	III-A	†WSJS.....	Winston-Salem, N. C.	250 CP-1,000	DA-N	U	III-B
WQAM.....	Miami, Fla.	1,000	175	U	III-A	WREC.....	Memphis, Tenn.	1,000 5,000—LS CP-5,000—U	DA	U	III-A
WIND.....	Gary, Ind.	1,000 5,000—LS CP-5,000—U	DA	U	III-A	KROD.....	El Paso, Tex.	500 1,000—LS	175	U	III-B
WGAN.....	Portland, Me.	5,000	175 DA	U	III-A	<b>610 KILOCYCLES</b>					
KWTO.....	Springfield, Mo.	5,000 1,000 (5 a.m. to 6 a.m.)	190	D (5 a.m. to local sunset)	III	KFAR.....	Fairbanks, Alaska	1,000	175	U	III-A
WFIL.....	Philadelphia, Pa.	1,000	175	U	III-A	KFRC.....	San Francisco, Cal.	5,000	175	U	III-A
WIS.....	Columbia, S. C.	1,000 5,000—LS CP-5,000—U	175 DA-N	U	III-A	WIOD.....	Miami, Fla.	1,000 CP-5,000	DA	U	III-A
KFDM.....	Beaumont, Tex.	1,000	175	U	III-A	WDAF.....	Kansas City, Mo.	5,000	185	U	III-A
<b>570 KILOCYCLES</b>						*WMUR.....	Manchester, N. H.	1,000 5,000—LS	DA	U	III-B
KMTR.....	Los Angeles, Cal.	1,000	175	U	III-A	WCLE.....	Cleveland, O.	500	175	D	III
WMCA.....	New York City	1,000 5,000—LS	DA	U	III-A	WIP.....	Philadelphia, Pa.	5,000	DA	U	III-A
WSYR.....	Syracuse, N. Y.	1,000	DA	U	III-A	†WSGN.....	Birmingham, Ala. (See 1340 kc.)	1,000	175 DA-N	U	III-B
WWNC.....	Asheville, N. C.	1,000	175	U	III-A	<b>620 KILOCYCLES</b>					
WOSU.....	Columbus, O.	1,000	175	SH-WKBN	III-A	KTAR.....	Phoenix, Ariz.	5,000	DA	U	III-A
WKBN.....	Youngstown, O.	500 1,000—LS	175	SH-WOSU	III-B	WSUN.....	St. Petersburg, Fla.	5,000	183 DA-N	U	III-A
WNAX.....	Yankton, S. D.	1,000 5,000—LS CP-5,000—U	190 DA-N	U	III-A	WLBZ.....	Bangor, Me.	500 1,000—LS CP-5,000—U	DA	U	III-A
KGKO.....	Fort Worth, Tex.	1,000 5,000—LS CP-5,000—U	180 DA-N	U	III-A	*WAGE.....	Salina, N. Y. (near Syracuse)	1,000	175 DA-N	U	III-B
†KUTA.....	Salt Lake City, Utah	250 CP-1,000	DA	U	III-B	KGW.....	Portland, Ore.	1,000 5,000—LS CP-5,000—U	DA	U	III-A
KVI.....	Tacoma, Wash.	5,000	190	U	III-A	WHJB.....	Greensburg, Pa.	250	150	D	IV
WMAM.....	Marinette, Wis.	250	175	D	IV	†WKAQ.....	San Juan, P. R.	1,000 CP-5,000	195	U	III-A
<b>580 KILOCYCLES</b>						WROL.....	Knoxville, Tenn.	500 1,000—LS	175 DA-N	U	III-B
KMJ.....	Fresno, Cal.	5,000	175	U	III-A	KWFT.....	Wichita Falls, Tex.	1,000 5,000—LS	DA	U	III-A
WDEO.....	Orlando, Fla.	5,000	175 DA-N	U	III-A	WTMJ.....	Milwaukee, Wis.	1,000 5,000—LS CP-5,000—U	190 DA-N	U	III-A
WILL.....	Urbana, Ill.	5,000	DA	D	III	<b>630 KILOCYCLES</b>					
KSAC.....	Manhattan, Kan.	500 1,000—LS	175	S-WIBW	III-B	KVOD.....	Denver, Colo.	1,000	205 DA-N	U	III-A
WIBW.....	Topeka, Kan.	1,000 5,000—LS CP-5,000	190 DA-N	S-KSAC	III-A	WMAL.....	Washington, D. C.	5,000	DA	U	III-A
WTAG.....	Worcester, Mass.	1,000 5,000—LS CP-5,000—U	DA	U	III-A	KXOK.....	St. Louis, Mo.	5,000	DA	U	III-A
WCHS.....	Charleston, W. Va.	5,000	175 DA-N	U	III-A	KOH.....	Reno, Nev.	1,000	175 DA-N	U	III-A
						WPRO.....	Providence, R. I.	5,000	210 DA-N	U	III-A
						KGFX.....	Pierre, S. D.	200	150	SH-D	IV



# FM OR TELEVISION...



**INTERNATIONAL OR STANDARD BROADCASTING—**

## *Here Is High Efficiency at High Power*

**Primarily developed for the new high-frequency services, GL-889-R, GL-889, and GL-880 provide superior performance for all present-day broadcasting.**

### **GL-889-R**

High efficiency and economical forced-air-cooling are now available to the entire realm of broadcasting with the G-E developed GL-889-R. Its small size and short leads make it especially valuable for ultra-high-frequency operation.

At frequencies up to 25 megacycles, a pair of 889-R's is capable of 8,000 watts output plate-modulated, or 20,000 watts class C telegraph. For FM service, 10,000 watts output is very conservative operation.

Internal design is the same as the GL-889. GL-889-R's are used as output tubes in G-E 10,000-watt FM transmitters.

### **GL-889**

Twenty-five years of G-E tube manufacturing experience contributed to the successful design of the GL-889—the tube which started a new trend in u-h-f construction. The GL-889 incorporates dual grid leads for separation of neutralizing and excitation circuits. It is fully shielded to prevent electron bombardment of the glass envelope.

Its compact construction makes possible short internal and external leads. Low driving power is required.

Water-cooled, it is rated at 10,000 watts output, class C telegraph, and 4,000 watts output in plate-modulated class C service.

### **GL-880**

General Electric's GL-880 stands alone today in the field of high-power u-h-f transmitting tubes. Its unique construction—utilizing a re-entrant anode—resulted in a decrease in internal lead length of 10 inches compared with existing designs. Full ratings apply up to 25 megacycles. Reduced ratings to 100 mc.

A pair of GL-880's gives an easy 50,000-watt output in 42- to 50-mc FM broadcast service. Low driving power is required. The G-E 50,000-watt FM broadcast transmitter, excited by a 3,000-watt amplifier, uses push-pull GL-880's in the output stage.

*Technical information sheets on all G-E tubes are available through our local G-E representative. Place your next order for tubes with him. There are G-E sales engineers in 80 principal cities. General Electric, Schenectady, N. Y.*

**GENERAL  ELECTRIC**

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>640 KILOCYCLES</b>					
KFI.....	Los Angeles, Cal.	50,000	225	U	I-A
WOI.....	Ames, Ia.	5,000	180	D	II
WHKC.....	Columbus, O.	500	175	L-KFI	II
WNAD.....	Norman, Okla.	1,000	175	D	II
<b>650 KILOCYCLES</b>					
WSM.....	Nashville, Tenn.	50,000	225	U	I-A
<b>660 KILOCYCLES</b>					
KOWH.....	Omaha, Neb.	500	175	D	II
WEAF.....	New York City	50,000	DA	U	I-A
<b>670 KILOCYCLES</b>					
WMAQ.....	Chicago, Ill.	50,000	225	U	I-A
<b>680 KILOCYCLES</b>					
KPO.....	San Francisco, Cal.	50,000	225	U	I-B
WLAW.....	Lawrence, Mass.	5,000	175 DA-N	U	II
EFEQ.....	St. Joseph, Mo.	500 2,500-LS	175	L-KPO	II
WPTF.....	Raleigh, N. C.	5,000 CP-50,000	187 DA-N	U	II
<b>690 KILOCYCLES</b>					
KGGF.....	Coffeyville, Kan.	500 1,000-LS	DA	U	II
<b>700 KILOCYCLES</b>					
WLW.....	Cincinnati, O.	50,000	260	U	I-A
<b>710 KILOCYCLES</b>					
EMPC.....	Beverly Hills, Cal.	1,000 5,000-LS CP-5,000-U	DA	U	II
WOR.....	New York City	50,000	DA	U	I-B
KIRO.....	Seattle, Wash.	1,000 CP-50,000	DA	U	I-B
<b>720 KILOCYCLES</b>					
WGN.....	Chicago, Ill.	50,000	250	U	I-A
<b>740 KILOCYCLES</b>					
KQW.....	San Jose, Cal.	1,000 5,000-LS (Proposed 5,000-U)	DA	U	II
<b>750 KILOCYCLES</b>					
WSB.....	Atlanta, Ga.	50,000	235	U	I-A
KMMJ.....	Grand Island, Neb.	1,000	180	L-WSB	II
WHEB.....	Portsmouth, N. H.	1,000	175	L-WSB	II
<b>760 KILOCYCLES</b>					
KGU.....	Honolulu, Hawaii	2,500	175	L-WJR	II
WJR.....	Detroit, Mich.	50,000	225	U	I-A
<b>770 KILOCYCLES</b>					
WLB.....	Minneapolis, Minn.	5,000	175	S-WCAL (2/3 daytime)	II
WCAL.....	Northfield, Minn.	5,000	180	S-WLB (1/3 daytime)	II
WEW.....	St. Louis, Mo.	1,000	175	D	II
WJZ.....	New York City	50,000	235	U	I-A
KXA.....	Seattle, Wash.	1,000	175	L-WJZ	II
<b>780 KILOCYCLES</b>					
WBBM.....	Chicago, Ill.	50,000	225	U	I-A
WJAG.....	Norfolk, Neb. (See 1090 kc.)	1,000	175	L-WBBM	II
KFAB.....	Lincoln, Neb. (Proposed 1110 kc.)	10,000	225	S-WBBM	II
<b>790 KILOCYCLES</b>					
KFQD.....	Anchorage, Alaska	250	150	SH	IV
KECA.....	Los Angeles, Cal.	1,000 5,000-LS CP-5,000-U	200 DA-N	U	III-A
EGHL.....	Billings, Mont.	1,000 5,000-LS CP-5,000-U	205 DA-N	U	III-A
WPIC.....	Sharon, Pa.	1,000	175	D	III
WPRA.....	Mayaguez, P. R.	1,000 2,500-LS	175	U	III-A
WEAN.....	Providence, R. I.	1,000 5,000-LS CP-5,000-U	DA	U	III-A
KFDY.....	Brookings, S. D.	1,000	175	SH-D	III
WMC.....	Memphis, Tenn.	1,000 5,000-LS	235 DA-N	U	III-A
WTAR.....	Norfolk, Va.	5,000	181 DA-N	U	III-A

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>810 KILOCYCLES</b>					
KGO.....	San Francisco, Cal. (Proposed 10,000)	7,500	225	U	I-B
KOAM.....	Pittsburg, Kan.	1,000	185	D	II
WGY.....	Schenectady, N. Y.	50,000	235	U	I-B
<b>820 KILOCYCLES</b>					
WTBO.....	Cumberland, Md.	250	175	L-WFAA- WBAP	II
WFAA.....	Dallas, Tex.	50,000	245	S-WBAP	I-A
WBAP.....	Fort Worth, Tex.	50,000	245	S-WFAA	I-A
<b>830 KILOCYCLES</b>					
WCCO.....	Minneapolis, Minn.	50,000	245	U	I-A
WNYC.....	New York City	1,000	DA	L-WCCO	II
<b>840 KILOCYCLES</b>					
WHAS.....	Louisville, Ky.	50,000	250	U	I-A
<b>850 KILOCYCLES</b>					
KOA.....	Denver, Colo.	50,000	225	U	I-A
WRUF.....	Gainesville, Fla.	5,000	175	L-KOA	II
WHDH.....	Boston, Mass.	1,000	175	L-KOA	II
KFUO.....	Clayton, Mo.	1,000 CP-5,000	175	L-KOA	II
WEEU.....	Reading, Pa.	1,000	175	D	II
<b>860 KILOCYCLES</b>					
KTRB.....	Modesto, Cal.	250	175	D	II
<b>870 KILOCYCLES</b>					
KIEV.....	Glendale, Cal.	250	175	D	II
WWL.....	New Orleans, La.	50,000	DA	U	I-A
WKAR.....	East Lansing, Mich.	5,000	175	D	II
WHCU.....	Ithaca, N. Y.	1,000	175	L-WWL	II
<b>880 KILOCYCLES</b>					
WHB.....	Kansas City, Mo.	1,000	175	D	II
WABC.....	New York City	50,000	225	U	I-A
<b>890 KILOCYCLES</b>					
WENR.....	Chicago, Ill.	50,000	240	S-WLS	I-A
WLS.....	Chicago, Ill.	50,000	240	S-WENR	I-A
<b>910 KILOCYCLES</b>					
KLX.....	Oakland, Cal.	1,000	175	U	III-A
KPOF.....	Denver, Colo.	1,000	175	S-KFKA	III-A
KFKA.....	Greeley, Colo.	1,000	175	S-KPOF	III-A
WSUI.....	Iowa City, Ia.	1,000 5,000-LS	DA	U	III-A
†WFDF.....	Flint, Mich.	100 CP-1,000	DA	U	III-B
WCOC.....	Meridian, Miss.	1,000	190	U	III-A
WGBI.....	Scranton, Pa.	500 1,000-LS	175	S-WQAN	III-B
WQAN.....	Scranton, Pa.	1,000 5,000-LS	175	S-WGBI	III-B
WJHL.....	Johnson City, Tenn.	1,000	175 DA-N	U	III-B
KRRV.....	Sherman, Tex.	1,000	DA	U	III-B
WRNL.....	Richmond, Va.	1,000	DA	U	III-B
KVAN.....	Vancouver, Wash.	250	175	D	IV
†WABI.....	Bangor, Me. (See 1230 kc.)	5,000	DA-N	U	III-A
<b>920 KILOCYCLES</b>					
KARK.....	Little Rock, Ark.	5,000	212 DA-N	U	III-A
KTKC.....	Visalia, Cal.	1,000	180 DA-N	U	III-B
WGST.....	Atlanta, Ga.	1,000 5,000-LS	185	U	III-A
WBAA.....	West Lafayette, Ind.	500 1,000-LS CP-1,000-N CP-5,000-LS	175 DA-N	SH CP-U	III-B
KFNF.....	Shenandoah, Ia.	500 1,000-LS	220	S-KUSD	III-B
WJAR.....	Providence, R. I.	1,000 5,000-LS CP-5,000-U	DA	U	III-A
KUSD.....	Vermillion, S. D.	500	175	S-KFNF	III-B
KFPY.....	Spokane, Wash.	5,000	210	U	III-A
WMMN.....	Fairmont, W. Va.	1,000 5,000-LS CP-5,000-U	177 DA-N	U	III-A

# I am the American Radio Listener!



For me, genius has slaved.

For me, Marconi dared, Edison worked on, great men and minds schemed and sweated that a sound might come to me in the loneliness of the night.

Now to my living-room, come the voices of presidents, kings, statesmen, and holy men, such as no man gone before ever heard.

To my ears, from the four corners of the earth, comes the news of the day as it happens—without prejudice or censorship—that I may know what's about me.

To my farm come prices from the world's market places that I may, each day, receive fair exchange for my labors in the field.

To my home comes the music of the world's greatest masters; the thoughts of the world's greatest men—without compulsion or cost.

At my finger tips is the world's finest entertainment, to take or leave as I wish—for many compete for my favor.

No person decrees to what I shall listen; no government taxes me. In America radio is free.

*A message in the interests of the American System of Broadcasting by one proud to be a part thereof; by one privileged from time to time to have contributed to its progress; by one seeking new opportunities to broaden its service to the American listener.*

This is the American System of Broadcasting.

I am perfectly willing to gamble with the advertiser who pays the bill because he is perfectly willing to gamble with me. I do not have to listen if he doesn't interest me.

There is always someone else, somewhere on the dial, should he bore me; there is always adequate redress should he offend me.

When emergency strikes, radio lifts me from the flood waters, brings me shelter and food, reunites my family, opens the purse strings of the nation to my plight.

When the night sets in, radio fills up the long hours; through the day brings my children wholesome stimulation; my wife relaxation and enjoyment.

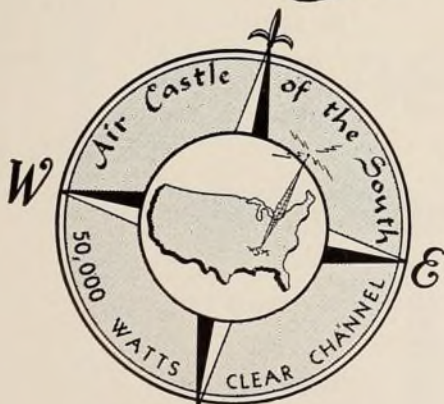
I am the beginning and end of every radio consideration, for I am the American radio listener!

I am pleased because I am well served. That is why I own 30,000,000 radio sets—that I may listen to what I choose, when I choose.

W S M  
The Air Castle of the South  
50,000 WATTS  
HARRY STONE, General Manager  
Nashville, Tennessee

E. W. CRAIG, Vice-Pres.  
The National Life

*Against the Shock  
of Current Years  
This Portrait  
Stands Unchanged*



W S M

NASHVILLE, TENN.

HARRY L. STONE, Gen'l. Mgr.

OWNED AND OPERATED BY  
THE NATIONAL LIFE AND ACCIDENT INSURANCE COMPANY, INC.  
NATIONAL REPRESENTATIVES, EDWARD PETRY & CO., INC.

NEW assignments under Havana Treaty allocations will add another step to Radio's stairway of progress . . . but, through the changes of the day, WSM's policies remain unchanged.

And we take this opportunity to announce that it will be unnecessary to change WSM's broadcasting frequency.

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class	Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>930 KILOCYCLES</b>						<b>1020 KILOCYCLES</b>					
KGBU.....	Ketchikan, Alaska	500	175	U	III-B	KFVD.....	Los Angeles, Cal.	1,000	185	L-KDKA	I-I
KHJ.....	Los Angeles, Cal.	1,000 5,000—LS CP-5,000—U	DA	U	III-A	KDKA.....	Pittsburgh, Pa.	50,000	295	U	I-A
WJAX.....	Jacksonville, Fla.	1,000 5,000 LS	190	U	III-A	<b>1030 KILOCYCLES</b>					
KSEL.....	Pocatello, Ida.	250 1,000—LS	175	U	III-B	WBZ.....	Boston, Mass.	50,000	DA	U-Synchronized with WBZA	I-B
WTAD.....	Quincy, Ill.	1,000	185 DA-N	U	III-B	WBZA.....	Springfield, Mass.	1,000	175	U-Synchronized with WBZ	II
WFMD.....	Frederick, Md.	500	185 DA-N	U	III-B	KOB.....	Albuquerque, N. M.	10,000 CP-50,000	225 DA-N	U	II
*WPAT.....	Paterson, N. J.	1,000	175	D	III	<b>1040 KILOCYCLES</b>					
WBEN.....	Buffalo, N. Y.	1,000 5,000—LS CP-5,000—U	200 DA-N	U	III-A	WHO.....	Des Moines, Ia.	50,000	225	U	I-A
WKY.....	Oklahoma City, Okla.	1,000 5,000—LS CP-5,000—U	190 DA	U	III-A	<b>1050 KILOCYCLES</b>					
†WSAZ.....	Huntington, W. Va.	250 1,000—LS CP-1,000—U	DA	SH	III-B	WDZ.....	Tuscola, Ill.	1,000	180	D	II
WLBL.....	Stevens Point, Wis.	5,000	200	D	III	WHN.....	New York City	1,000 5,000—LS CP-50,000—U	175 DA-N	U	II
<b>940 KILOCYCLES</b>						<b>1060 KILOCYCLES</b>					
WMAZ.....	Macon, Ga.	250 5,000—LS (Proposed 5,000—U)	175 (Proposed DA)	U	II	KYW.....	Philadelphia, Pa.	50,000	DA	U	I-B
<b>950 KILOCYCLES</b>						<b>1070 KILOCYCLES</b>					
KFEL.....	Denver, Colo.	1,000 CP-5,000	DA	U	III-A	WAPI.....	Birmingham, Ala. (Proposed 50,000) (See 1170 kc.)	DA-N	U	II	
WAAF.....	Chicago, Ill.	1,000	175	D	III	KNX.....	Los Angeles, Cal.	50,000	245	U	I-B
WORL.....	Foston, Mass.	1,000	185	D	III	WIBC.....	Indianapolis, Ind.	1,000 CP-5,000—LS	190 DA-N	D CP-U	II
WWJ.....	Detroit, Mich.	1,000 5,000—LS CP-5,000—U	210 DA-N	U	III-A	KFBI.....	Wichita, Kan.	5,000 CP-1,000 CP-5,000—LS	175 DA-N	L-KNX CP-U	II
WPEN.....	Philadelphia, Pa.	1,000 CP-5,000	175 DA-N	U	III-A	WEAU.....	Eau Claire, Wis.	1,000 5,000—LS	190 DA-N	L-KFBI	II
WSPA.....	Spartanburg, S. C.	1,000—D CP-1,000—N CP-5,000—LS	180 DA-N	D CP-U	III-B	<b>1080 KILOCYCLES</b>					
KPRC.....	Houston, Tex.	1,000 5,000—LS CP-5,000—U	200 DA-N	U	III-A	KYOS.....	Merced, Cal.	250	175	D	II
KOMO.....	Seattle, Wash.	1,000 5,000—LS CP-5,000—U	245 DA-N	U	III-A	WTIC.....	Hartford, Conn.	50,000	226 DA-N	U	I-B
<b>960 KILOCYCLES</b>						<b>1090 KILOCYCLES</b>					
WBRC.....	Birmingham, Ala.	1,000 5,000—LS CP-5,000—U	175 DA-N	U	III-A	WCAZ.....	Carthage, Ill.	100	185	D	II
KROW.....	Oakland, Cal.	1,000	175	U	III-A	KWJJ.....	Portland, Ore.	500 CP-1,000—U	190 DA-N	L-KRLD, WTIC CP-U	II
WELI.....	New Haven, Conn.	250 500—LS CP-500—N CP-1,000—LS	184 DA-N	U	III-B	KRLD.....	Dallas, Tex.	50,000	225 DA-N	U	I-B
†WSBT.....	South Bend, Ind.	250 500—LS CP-500—U	DA	SH CP-U	III-B	<b>1100 KILOCYCLES</b>					
KMA.....	Shenandoah, Ia.	1,000 5,000—LS	225	U	III-A	KTHS.....	Hot Springs, Ark. (Proposed 50,000)	10,000 DA-N	225	U	I-B
WDBJ.....	Roanoke, Va.	1,000 5,000—LS CP-5,000—U	210 DA-N	U	III-A	WBAL.....	Baltimore, Md.	10,000 CP-50,000	225 DA-N	U	I-B
<b>970 KILOCYCLES</b>						<b>1110 KILOCYCLES</b>					
WFLA.....	Tampa, Fla.	1,000 5,000—LS	175 DA-N	U	III-B	WJAG.....	Norfolk, Neb. (Proposed 780 kc.)	1,000 (Proposed 780 kc.)	175	L-WBAL, KTHS	II
WAVE.....	Louisville, Ky.	5,000	DA	U	III-A	<b>1120 KILOCYCLES</b>					
WCSH.....	Portland, Me.	1,000 2,500—LS CP-5,000—U	DA	U	III-A	KJBS.....	San Francisco, Cal.	500	175	L-WTAM	II
WAAT.....	Jersey City, N. J.	500—D CP-1,000	175 DA-N	U	III-B	WTAM.....	Cleveland, O.	50,000	225	U	I-A
WDAY.....	Fargo, N. D.	5,000	175 DA-N	U	III-A	<b>1130 KILOCYCLES</b>					
WICA.....	Ashtabula, O.	1,000	175	D	III	WCBD.....	Chicago, Ill.	5,000	225	L-WBT, S-WMBI	II
KOIN.....	Portland, Ore.	5,000	224 DA-N	U	III-A	WMBI.....	Chicago, Ill.	5,000	250	L-WBT, S-WCBD	II
WHA.....	Madison, Wis.	5,000	175	D	III	KFAB.....	Lincoln, Neb. (See 780 kc.) (Proposed 50,000)	10,000 DA-N	225	U	I-B
<b>980 KILOCYCLES</b>						<b>1140 KILOCYCLES</b>					
KFWB.....	Los Angeles, Cal.	5,000	220	U	III-A	WBT.....	Charlotte, N. C. (Proposed DA-N)	50,000	225	U	I-B
WRC.....	Washington, D. C.	1,000 5,000—LS CP-5,000—U	185 DA-N	U	III-A	<b>1120 KILOCYCLES</b>					
*WHAJ.....	Saginaw, Mich.	500	175	D	III	KMOX.....	St. Louis, Mo.	50,000	225	U	I-A
KMBC.....	Kansas City, Mo.	5,000	224 DA-N	U	III-A	<b>1130 KILOCYCLES</b>					
WTRY.....	Troy, N. Y.	1,000	DA	U	III-B	KGDM.....	Stockton, Cal.	1,000	175	D	II
†WSIX.....	Nashville, Tenn. (See 1240 kc.)	1,000 5,000—LS	DA-N	U	III-B	KWKH.....	Shreveport, La.	50,000	253 DA-N	U	I-B
<b>990 KILOCYCLES</b>						<b>1140 KILOCYCLES</b>					
WIBG.....	Glenside, Pa.	1,000	175	D	II	WCAR.....	Pontiac, Mich.	1,000	185	D	II
WNOX.....	Knoxville, Tenn.	1,000 5,000—LS	235 DA-N	U	II	WDGY.....	Minneapolis, Minn.	1,000 5,000—LS	175	SH (Proposed U-DA-N)	II
<b>1000 KILOCYCLES</b>						<b>1140 KILOCYCLES</b>					
WCFL.....	Chicago, Ill.	5,000 CP-10,000	DA	U	I-B	WOV.....	New York City	5,000 CP-10,000	DA	U	I-B
WINS.....	New York City	1,000 CP-50,000—U	DA	L-WCFL	I-I	<b>1140 KILOCYCLES</b>					
KJR.....	Seattle, Wash. (Proposed 10,000)	5,000 DA-N	250	U	II I-B	KSOO.....	Sioux Falls, S. D.	5,000	180 DA-N	L-WRVA	II
						WRVA.....	Richmond, Va.	50,000	DA	U	I-B



IN COLUMBIA LEADERSHIP

- *in Coverage*
- *in Popularity*
- *in Power*
- *in Affiliation*

# KRLD

## 50,000 Watts

*New Frequency*  
**1080 Kilocycles**

# KRLD

*The Times Herald Station*  
ADOLPHUS HOTEL, DALLAS

THE BRANHAM COMPANY NATIONAL REPRESENTATIVES

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1150 KILOCYCLES</b>					
KFSG.....	Los Angeles, Cal.	1,000 2,500—LS	175	S-KRKD	III-A
KRKD.....	Los Angeles, Cal.	1,000 2,500—LS	175	S-KFSG	III-A
WDEL.....	Wilmington, Del.	250 1,000—LS CP-5,000—U	DA	U	III-A
KSAL.....	Salina, Kan.	500 1,000—LS CP-1,000—U	200 DA-N	U	III-B
WJBO.....	Baton Rouge, La.	1,000 CP-5,000	225 DA	U	III-A
WCOP.....	Boston, Mass.	500	185 CP-DA-N	D CP-U	III-B
*KSWO.....	Lawton, Okla.	250	175	D	IV
WKPA.....	New Kensington, Pa.	250	150	D	IV
†WAPO.....	Chattanooga, Tenn.	250 CP-1,000 CP-5,000—LS	195 DA-N	U	III-B
KTBC.....	Austin, Tex.	1,000	175	SH-D-WTAW	III
WTAW.....	College Station, Tex.	500 CP-1,000	175	SH-D-KTBC	III
KRSC.....	Seattle, Wash.	1,000	175	U	III-A
KFIO.....	Spokane, Wash.	100	150	D	IV
WISN.....	Milwaukee, Wis.	250 1,000—LS CP-5,000—U	DA	U	III-A

**1160 KILOCYCLES**

WJJD.....	Chicago, Ill.	20,000	175	L-KSL	II
KSL.....	Salt Lake City, Utah	50,000	225	U	I-A

**1170 KILOCYCLES**

KVOO.....	Tulsa, Okla.	25,000 (Proposed 50,000)	175 DA-N	U	I-B
WWVA.....	Wheeling, W. Va.	5,000 (Proposed 50,000)	195 DA	SH U	II I-B
WAPI.....	Birmingham, Ala.	5,000 (Proposed 50,000 on 1070 kc)	DA	U	II

**1180 KILOCYCLES**

WHAM.....	Rochester, N. Y.	50,000	245	U	I-A
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**1190 KILOCYCLES**

WOWO.....	Fort Wayne, Ind.	10,000 (Proposed 50,000)	245 DA	SH U	I-B
KEX.....	Portland, Ore.	5,000 (Proposed 50,000)	225 DA	U	II I-B

**1200 KILOCYCLES**

WOAI.....	San Antonio, Tex.	50,000	225	U	I-A
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**1210 KILOCYCLES**

WCAU.....	Philadelphia, Pa.	50,000	225	U	I-A
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**1230 KILOCYCLES**

WBHP.....	Huntsville, Ala.	250	175	U	IV
WMOB.....	Mobile, Ala.	250	150	U	IV
WJRD.....	Tuscaloosa, Ala.	250	175	U	IV
KSUN.....	Lowell, Ariz.	250	185	U	IV
KPHO.....	Phoenix, Ariz.	250	150	U	IV
KBTM.....	Jonesboro, Ark.	100 250—LS	180	U	IV
EGHI.....	Little Rock, Ark.	250	150	U	IV
EGFJ.....	Los Angeles, Cal.	100	150	U	IV
KVCV.....	Redding, Cal.	250	150	U	IV
KVEC.....	San Luis Obispo, Cal.	250	185	U	IV
KWG.....	Stockton, Cal.	100	150	U	IV
KFXJ.....	Grand Junction, Colo.	250	180	U	IV
KGEK.....	Sterling, Colo.	100	150	SH	IV
WTHT.....	Hartford, Conn.	250	150	U	IV
WLOF.....	Orlando, Fla.	250	150	U	IV
WDLP.....	Panama City, Fla.	100 250—LS	150	U	IV
WJNO.....	West Palm Beach, Fla.	250	175	U	IV
WRBL.....	Columbus, Ga.	250	180	U	IV
WBLJ.....	Dalton, Ga.	250	150	U	IV
WAYX.....	Waycross, Ga.	250	150	U	IV
KHBC.....	Hilo, Hawaii	250	150	U	IV
KFXD.....	Nampa, Ida.	250	150	U	IV
WJBC.....	Bloomington, Ill.	250	180	U	IV
WJOB.....	Hammond, Ind.	100	150	U	IV
WFAM.....	South Berd, Ind.	100	150	SH	IV
WBOW.....	Terre Haute, Ind.	250	190	U	IV
KFJB.....	Marshalltown, Ia.	250	180	U	IV
WHOP.....	Hopkinsville, Ky.	250	180	U	IV
KMLB.....	Monroe, La.	250	175	U	IV
WJBW.....	New Orleans, La.	250	185	U	IV
WABL.....	Bangor, Me. (†910kc)	250	195	U	IV
WITH.....	Baltimore, Md.	250	150	U	IV
WBOC.....	Salisbury, Md.	250	150	U	IV

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1230 KILOCYCLES—Continued</b>					
WESX.....	Salem, Mass.	100	175	U	IV
*WMAW.....	Worcester, Mass.	250	150	U	IV
*WGRB.....	Grand Rapids, Mich.	250	150	U	IV
WMPC.....	Lapeer, Mich.	250	150	SH	IV
WSAM.....	Saginaw, Mich.	100	150	SH	IV
WOOO.....	Sault Ste. Marie, Mich.	100 250—LS	150	U	IV
KGDE.....	Fergus Falls, Minn.	100 250—LS	150	U	IV
KYSM.....	Mankato, Minn.	250	200	U	IV
KWNO.....	Winona, Minn.	250	190	U	IV
WSKB.....	McComb, Miss.	250	190	U	IV
WIL.....	St. Louis, Mo.	250	150	U	IV
KHAS.....	Hastings, Neb.	250	190	U	IV
WENY.....	Elmira, N. Y.	250	240	U	IV
WIBX.....	Utica, N. Y.	250	150	U	IV
WMFR.....	High Point, N. C.	250	150	U	IV
WFTC.....	Kinston, N. C.	250	175	U	IV
WCBT.....	Roanoke Rapids, N. C.	250	150	U	IV
WHBC.....	Canton, O.	250	265	U	IV
WCPO.....	Cincinnati, O.	250	150	U	IV
WCOL.....	Columbus, O.	250	150	U	IV
WTOL.....	Toledo, O.	250	150	U	IV
KADA.....	Ada, Okla.	250	175	U	IV
WBBZ.....	Ponca City, Okla.	250	150	U	IV
KAST.....	Astoria, Ore.	250	175	U	IV
KODL.....	The Dalles, Ore.	100 250—LS	150	U	IV
KOOS.....	Marshfield, Ore.	250	150	U	IV
*WCED.....	Du Bois, Pa.	250	150	U	IV
WBBO.....	Harrisburg, Pa.	250	150	U	IV
WAIM.....	Anderson, S. C.	100 CP-250	150	U	IV
WOLS.....	Florence, S. C.	250	165	U	IV
WCAT.....	Rapid City, S. D.	100	180	SH-D	IV
KELO.....	Sioux Falls, S. D.	250	150	U	IV
KFDA.....	Amarillo, Tex.	250	150	U	IV
KVNU.....	Logan, Utah	250	150	U	IV
WCAX.....	Burlington, Vt.	250	150	U	IV
WLVA.....	Lynchburg, Va.	250	150	U	IV
KVOS.....	Bellingham, Wash.	250	175	U	IV
WLOG.....	Logan, W. Va.	100	150	U	IV
WAJR.....	Morgantown, W. Va.	250	150	U	IV
WHBY.....	Appleton, Wis.	250	150	U	IV
WCLO.....	Janesville, Wis.	250	195	U	IV
WDSM.....	Superior, Wis.	100	175	U	IV
*KPOW.....	Powell, Wyo.	250	150	U	IV

**1240 KILOCYCLES**

WJBY.....	Gadsden, Ala.	250	175	U	IV
WCOV.....	Montgomery, Ala.	100 CP-250	175	U	IV
KWJB.....	Globe, Ariz.	250	180	U	IV
KYUM.....	Yuma, Ariz.	250	175	U	IV
KDON.....	Monterey, Cal.	100	150	U	IV
KPPC.....	Pasadena, Cal.	100	150	S-KFXM	IV
KROY.....	Sacramento, Cal.	100	175	U	IV
KFXM.....	San Bernardino, Cal.	250	175	S-KPFC	IV
WFTM.....	Fort Myers, Fla.	250	150	U	IV
WFOY.....	St. Augustine, Fla.	250	175	U	IV
WGAC.....	Augusta, Ga.	250	150	U	IV
*WGA.....	Gainesville, Ga.	250	180	U	IV
*WLAG.....	LaGrange, Ga.	250	150	U	IV
WBML.....	Macon, Ga.	250	150	U	IV
WPAX.....	Thomasville, Ga.	250	150	U	IV
WCRW.....	Chicago, Ill.	100	150	SH-WEDC, WSBC	IV
WEDC.....	Chicago, Ill.	250	150	SH-WCRW, WSBC	IV
WSBC.....	Chicago, Ill.	250	150	SH-WCRW, WEDC	IV
WEBQ.....	Harrisburg, Ill.	250	150	U	IV
WTAX.....	Springfield, Ill.	100	150	U	IV
WHBU.....	Anderson, Ind.	250	150	U	IV
†KWLC.....	Decorah, Ia.	100 CP-250—D	150	SH	IV
*KBIZ.....	Ottumwa, Ia.	100	150	U	IV
KIUL.....	Garden City, Kan.	100	150	U	IV
KANS.....	Wichita, Kan.	250	150	U	IV
WINN.....	Louisville, Ky.	100 250—LS	150	U	IV
KALB.....	Alexandria, La.	250	150	U	IV

GEORGIA'S 1-A STATION

# WNSB

**ATLANTA, GEORGIA**

*In Southern Ohio*

IT'S  
**WHIO**  
DAYTON

**POWER  
PROGRAMS  
PUBLICITY**

*In Florida*

IT'S  
**WIOD**  
MIAMI

*Sales*  
**THE VOICE OF THE SOUTH**

**50,000 WATTS — NBC-RED — CLEAR CHANNEL**

**EDWARD PETRY & CO., INC.—National Representatives**

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1240 KILOCYCLES—Continued</b>					
WCOU.....	Lewiston, Me.	250	180	U	IV
WJEJ.....	Hagerstown, Md.	250	150	U	IV
WHAI.....	Greenfield, Mass.	250	175	U	IV
WOCB.....	Hyannis, Mass.	250	150	U	IV
WJIM.....	Lansing, Mich.	250	150	U	IV
WMFG.....	Hibbing, Minn.	250	150	U	IV
WGRM.....	Greenwood, Miss.	250	150	U	IV
WGCM.....	Gulfport, Miss.	250	150	U	IV
KPFA.....	Helena, Mont.	250	150	U	IV
KFOR.....	Lincoln, Neb.	100	150	U	IV
		250—LS			
		CP-250—U			
WSNJ.....	Bridgeton, N. J.	250	175	U	IV
WBRB.....	Red Bank, N. J.	100	150	S-WGBB	IV
KAVE.....	Carlsbad, N. M.	250	180	U	IV
WGBB.....	Freeport, N. Y.	100	150	S-WBRB, WFAS	IV
				U	IV
WJTN.....	Jamestown, N. Y.	250	175	U	IV
WSAY.....	Rochester, N. Y.	250	150	U	IV
WATN.....	Watertown, N. Y.	250	150	U	IV
WFAS.....	White Plains, N. Y.	250	150	S-WGBB	IV
WSOC.....	Charlotte, N. C.	100	150	U	IV
		250—LS			
		CP-250—U			
WRAL.....	Raleigh, N. C.	250	175	U	IV
KDLR.....	Devils Lake, N. D.	250	180	U	IV
WJW.....	Akron, O.	250	150	U	IV
WLOK.....	Lima, O.	250	150	U	IV
WHIZ.....	Zanesville, O.	250	150	U	IV
KVSO.....	Ardmore, Okla.	100	150	U	IV
		250—LS			
KASA.....	Elk City, Okla.	100	150	U	IV
KHBG.....	Okmulgee, Okla.	250	175	U	IV
KWIL.....	Albany, Ore.	250	150	U	IV
KFJI.....	Klamath Falls, Ore.	100	150	U	IV
WKOK.....	Sunbury, Pa.	250	150	U	IV
WBAX.....	Wilkes-Barre, Pa.	100	175	U	IV
KWAT.....	Watertown, S. D.	250	150	U	IV
*WBIR.....	Knoxville, Tenn.	250	150	U	IV
WSIX.....	Nashville, Tenn. (1980 kc.)	250	150	U	IV
*KGBS.....	Harlingen, Tex.	250	150	U	IV
KOCA.....	Kilgore, Tex.	250	170	U	IV
KXOX.....	Sweetwater, Tex.	250	180	U	IV
KOVO.....	Provo, Utah	250	170	U	IV
WPID.....	Petersburg, Va.	250	180	U-except Sunday when WBBL operates	IV
				SH	IV
WBBL.....	Richmond, Va.	100	150	U-except when KTW is operating	IV
KGY.....	Olympia, Wash.	100	150	U	IV
WJLS.....	Beckley, W. Va.	250	180	U	IV
WOMT.....	Manitowoc, Wis.	100	150	U	IV
WIBU.....	Poynette, Wis.	250	190	U	IV
WJMC.....	Rice Lake, Wis.	250	180	U	IV
KFBC.....	Cheyenne, Wyo.	250	150	U	IV

**1250 KILOCYCLES**

KTMS.....	Santa Barbara, Cal.	1,000	DA	U	III-B
WDAE.....	Tampa, Fla.	5,000	DA	U	III-A
KFKU.....	Lawrence, Kan.	1,000	175	S-WREN	III-A
		5,000—LS			
WREN.....	Lawrence, Kan.	1,000	DA	S-KFKU	III-A
		5,000—LS			
		CP-5,000			
WCAD.....	Canton, N. Y.	500	175	SH-D	III
WGNV.....	Newburgh, N. Y.	250	180	DA-N	IV
WCAE.....	Pittsburgh, Pa.	5,000	215	U	III-A
				DA-N	
†WTMA.....	Charleston, S. C.	250	215	U	III-B
		CP-1,000	DA-N		
KPAC.....	Port Arthur, Tex.	500	187.5	U	III-B
			DA-N		
KWSC.....	Pullman, Wash.	5,000	180	S-KTW	III-A
KTW.....	Seattle, Wash.	1,000	175	S-KWSC	III-A

**1260 KILOCYCLES**

KYA.....	San Francisco, Cal.	1,000	230	U	III-A
		5,000—LS			
WOL.....	Washington, D. C.	1,000	DA	U	III-A
WFBM.....	Indianapolis, Ind.	1,000	245	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
WNAC.....	Boston, Mass.	1,000	DA	U	III-A
		5,000—LS			
		CP-5,000—U			
KGBX.....	Springfield, Mo.	5,000	175	U	III-A
			DA-N		
KGGM.....	Albuquerque, N. M.	1,000	190	U	III-A

**1270 KILOCYCLES**

KTFI.....	Twin Falls, Ida.	1,000	250	U	III-A
WHBF.....	Rock Island, Ill.	1,000	DA	U	III-A
		CP-5,000			
†WSPR.....	Springfield, Mass.	250	DA	SH	III-B
		500—LS			
		CP-500—U			
WXYZ.....	Detroit, Mich.	5,000	227	U	III-A
			DA-N		
KGCU.....	Mandan, N. D.	250	180	U	IV
		(Proposed 500)			III-B
		1,000—LS)			

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
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**1270 KILOCYCLES—Continued**

KFJZ.....	Fort Worth, Tex.	1,000	DA	U	III-A
		CP-5,000			
<b>1280 KILOCYCLES</b>					
KFOX.....	Long Beach, Cal.	1,000	175	U	III-A
WMRO.....	Aurora, Ill.	250	175	D	IV
WGBF.....	Evansville, Ind.	1,000	200	U	III-B
		5,000—LS	DA-N		
WDSU.....	New Orleans, La.	1,000	DA	U	III-A
		CP-5,000			
WTCN.....	Minneapolis, Minn.	1,000	210	U	III-A
		5,000—LS			
WHBI.....	Newark, N. J.	1,000	175	S-WNEW	III-A
		2,500—LS			
WNEW.....	New York City	1,000	DA	S-WHBI	III-A
		5,000—LS			
		CP-5,000—U			
WKST.....	New Castle, Pa.	1,000	190	D	III
			DA-N	CP-U	III-B
KIT.....	Yakima, Wash.	1,000	185	U	III-A

**1290 KILOCYCLES**

KVOA.....	Tucson, Ariz.	1,000	175	U	II I
KUOA.....	Siloam Springs, Ark.	5,000	250	D	III
KHSL.....	Chico, Cal.	500	190	U	III-B
		1,000—LS			
WTOC.....	Savannah, Ga.	1,000	175	U	III-A
		5,000—LS	DA-N		
KGVO.....	Missoula, Mont.	1,000	190	U	III-A
		5,000—LS			
KOIL.....	Omaha, Neb.	1,000	210	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
WHLD.....	Niagara Falls, N. Y.	1,000	190	D	III
WHIO.....	Dayton, O.	1,000	200	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
KRGV.....	Weslaco, Tex.	1,000	185	U	III-A
WKNE.....	Keene, N. H.	5,000	DA	U	III-A
WFVA.....	Fredericksburg, Va.	250	180	D	IV

**1300 KILOCYCLES**

KVOR.....	Colorado Springs, Colo.	1,000	190	U	III-A
†KGLO.....	Mason City, Ia.	1,000	205	U	III-B
		CP-1,000	DA-N		
WFBR.....	Baltimore, Md.	1,000	DA	U	III-A
		5,000—LS			
		(Proposed 5,000—U)			
WASH.....	Grand Rapids, Mich.	500	175	S-WOOD	III-B
		(Proposed 5,000)	DA-N	(Proposed III-A)	
WOOD.....	Grand Rapids, Mich.	500	175	S-WASH	III-B
		(Proposed 5,000)	DA-N	(Proposed III-A)	
WJDX.....	Jackson, Miss.	1,000	215	U	III-A
		5,000—LS			
WWNY.....	Watertown, N. Y.	500	175	D	III
KOL.....	Seattle, Wash.	1,000	230	U	III-A
		5,000—LS			

**1310 KILOCYCLES**

KLS.....	Oakland, Cal.	250	175	U	III-A
		CP-1,000			
*WISH.....	Indianapolis, Ind.	1,000	DA-N	U	III-B
		5,000—LS			
WORC.....	Worcester, Mass.	500	DA	U	III-B
		CP-1,000			
KFBB.....	Great Falls, Mont.	1,000	250	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
WCAP.....	Asbury Park, N. J.	500	175	S-WCAM, WTNJ	III-B
WCAM.....	Camden, N. J.	500	175	S-WCAP, WTNJ	III-B
WTNJ.....	Trenton, N. J.	500	190	S-WCAM, WCAP	III-B
WDOD.....	Chattanooga, Tenn.	1,000	215	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
WRR.....	Dallas, Tex.	500	194	U	III-A
		CP-5,000	DA-N		
WIBA.....	Madison, Wis.	1,000	231	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			

**1320 KILOCYCLES**

KLCN.....	Blytheville, Ark.	100	175	D	IV
WATR.....	Waterbury, Conn.	250	DA	U	IV
WJHP.....	Jacksonville, Fla.	250	150	U	IV
WEBC.....	Duluth, Minn.	1,000	225	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
WNBZ.....	Saranac Lake, N. Y.	100	150	D	IV
WJAS.....	Pittsburgh, Pa.	1,000	180	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
WNEL.....	San Juan, P. R.	1,000	175	U	III-A
		2,500—LS			
		CP-5,000—U			
KTRH.....	Houston, Tex.	1,000	230	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
KDYL.....	Salt Lake City, Utah	1,000	DA	U	III-A
		5,000—LS			
		CP-5,000—U			



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## U N I T E D P R E S S



Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1330 KILOCYCLES</b>					
KFAC.....	Los Angeles, Cal.	1,000	175	U	III-A
KFH.....	Wichita, Kan.	1,000 5,000—LS CP-5,000—U	245 DA-N	U	III-A
WLOL.....	Minneapolis, Minn.	1,000	DA	U	III-B
WBBR.....	Brooklyn, N. Y.	1,000	175	S-WEVD, WHAZ	III-A
WEVD.....	New York City	1,000 CP-5,000	DA	S-WBBR, WHAZ	III-A
WHAZ.....	Troy, N. Y.	1,000	175	S-WBBR, WEVD	III-A
KALE.....	Portland, Ore.	1,000 5,000—LS CP-5,000—U	180 DA-N	U	III-A
WFBC.....	Greenville, S. C.	1,000 5,000—LS CP-5,000—U	185 DA-N	U	III-A
WHL.....	Sheboygan, Wis.	250 1,000—LS	200	U	III-B
<b>1340 KILOCYCLES</b>					
WSGN.....	Birmingham, Ala. (†610kc.)	250	150	U	IV
KCRJ.....	Jerome, Ariz.	250	150	U	IV
KWFC.....	Hot Springs, Ark.	250	150	U	IV
KARM.....	Fresno, Cal.	250	200	U	IV
KHUB.....	Watsonville, Cal.	250	175	U	IV
*KMYR.....	Denver, Colo.	100 250—LS	150	U	IV
WINX.....	Washington, D. C.	250	150	U	IV
*WPER.....	DeLand, Fla.	250	150	U	IV
WLAK.....	Lakeland, Fla.	250	180	U	IV
WTAL.....	Tallahassee, Fla.	100 250—LS	150	U	IV
WGAU.....	Athens, Ga.	250	175	U	IV
WSAV.....	Savannah, Ga.	250	175	U	IV
WDAK.....	West Point, Ga.	250	150	U	IV
*KHON.....	Honolulu, Hawaii	250	150	U	IV
WSOY.....	Decatur, Ill.	250	180	U	IV
WJPF.....	Herrin, Ill.	250	150	U	IV
WCLS.....	Joliet, Ill.	100 CP-250	185	U	IV
WTRC.....	Elkhart, Ind.	250	180	U	IV
WLBC.....	Muncie, Ind.	250	150	U	IV
*NEW.....	Clinton, Ia.	250	150	U	IV
KCKN.....	Kansas City, Kan.	250	150	U	IV
WCMI.....	Ashland, Ky.	250	150	U	IV
WLB.....	Bowling Green, Ky.	250	180	U	IV
KVOL.....	Lafayette, La.	250	175	U	IV
KRMD.....	Shreveport, La.	250	150	U	IV
WNBH.....	New Bedford, Mass.	250	150	U	IV
WBRK.....	Pittsfield, Mass.	250	150	U	IV
WLAV.....	Grand Rapids, Mich.	250	150	U	IV
WDMJ.....	Marquette, Mich.	250	150	U	IV
WEXL.....	Royal Oak, Mich.	50 CP-250	150	U	IV
KVOX.....	Moorhead, Minn.	250	175	U	IV
KROC.....	Rochester, Minn.	250	180	U	IV
KWLM.....	Willmar, Minn.	100	175	U	IV
WJPR.....	Greenville, Miss.	250	185	U	IV
WAML.....	Laurel, Miss.	250	180	U	IV
*KHM.....	Hannibal, Mo.	250	150	U	IV
KWOS.....	Jefferson City, Mo.	250	185	U	IV
KWOC.....	Poplar Bluff, Mo.	250	150	U	IV
KGEZ.....	Kalispell, Mont. (†1460 kc.)	100	190	U	IV
*KRJF.....	Miles City, Mont.	250	150	U	IV
KGFW.....	Kearney, Neb.	250	175	U	IV
WLNH.....	Laconia, N. H.	250	180	U	IV
KVSF.....	Santa Fe, N. M.	100	150	U	IV
WMBO.....	Auburn, N. Y.	250	175	U	IV
WEBR.....	Buffalo, N. Y.	250	150	U	IV
WMFF.....	Plattsburg, N. Y.	250	150	U	IV
WGTM.....	Wilson, N. C.	250	150	U	IV
†WAJR.....	Winston-Salem, N. C.	250	150	U	IV
WIZE.....	Springfield, O.	100	150	U	IV
WSTV.....	Steubenville, O.	250	150	SH-WSAJ	IV
KOCY.....	Oklahoma City, Okla.	250	150	U	IV
KOME.....	Tulsa, Okla.	250	195	U	IV
KBND.....	Bend, Ore.	250	180	U	IV
KUIN.....	Grants Pass, Ore.	250	150	U	IV
WFBG.....	Altoona, Pa.	250	150	U	IV
WSAJ.....	Grove City, Pa.	100	150	SH	IV
WHAT.....	Philadelphia, Pa.	100	150	S-WTEL	IV
WTEL.....	Philadelphia, Pa.	100	150	S-WHAT	IV
WRAW.....	Reading, Pa.	250	150	U	IV
WBRE.....	Wilkes-Barre, Pa.	250	180	U	IV
WFIG.....	Sumter, S. C.	100 250—LS	150	U	IV
KAND.....	Corsicana, Tex.	100	175	U	IV

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1340 KILOCYCLES—Continued</b>					
KFPL.....	Dublin, Tex.	100 250—LS	175	U	IV
KFYO.....	Lubbock, Tex.	250	150	U	IV
KRBA.....	Lufkin, Tex.	250	175	D	IV
KPDN.....	Pampa, Tex.	100	175	U	IV
KVIC.....	Victoria, Tex.	250	175	U	IV
KSUB.....	Cedar City, Utah.	100	170	U	IV
WGH.....	Newport News, Va.	250	170	U	IV
KXRO.....	Aberdeen, Wash.	250	180	U	IV
WBRW.....	Welch, W. Va.	250	150	U	IV
WEMP.....	Milwaukee, Wis.	250	150	U	IV
WFHR.....	Wisconsin Rapids, Wis.	250	150	U	IV
<b>1350 KILOCYCLES</b>					
†KSRO.....	Santa Rosa, Cal.	250 CP-1,000	DA	U	III-B
KGHF.....	Pueblo, Colo.	500	175	U	III-B
KID.....	Idaho Falls, Ida.	500 5,000—LS	200	U	III-B
KRNT.....	Des Moines, Ia.	1,000 5,000—LS CP-5,000—U	210 DA-N	U	III-A
WSMB.....	New Orleans, La.	5,000	228 DA-N	U	III-A
WADC.....	Akron, O.	5,000	DA	U	III-A
WORK.....	York, Pa.	1,000	175 DA-N	U	III-B
<b>1360 KILOCYCLES</b>					
KGB.....	San Diego, Cal.	1,000	175	U	III-A
WDR.....	Hartford, Conn.	5,000	DA	U	III-A
WKAT.....	Miami Beach, Fla.	1,000	175	U	III-B
KSCJ.....	Sioux City, Ia.	1,000 5,000—LS CP-5,000—U	214 DA-N	U	III-A
WSAI.....	Cincinnati, O.	1,000 5,000—LS CP-5,000—U	250 DA-N	U	III-A
KRIS.....	Corpus Christi, Tex.	500 CP-1,000	204	U	III-A
KMO.....	Tacoma, Wash.	1,000 CP-5,000	175	U	III-A
WTAQ.....	Green Bay, Wis.	5,000	DA	U	III-A
<b>1370 KILOCYCLES</b>					
WCOA.....	Pensacola, Fla.	500 1,000—LS	175	U	III-B
*KDTH.....	Dubuque, Ia.	1,000	175 DA-N	U	III-B
EGNO.....	Dodge City, Kan.	250 1,000—LS	175	U	III-B
KGIR.....	Butte, Mont.	5,000	175	U	III-A
WFEA.....	Manchester, N. H.	500 1,000—LS CP-5,000—U	DA	U	III-B III-A
WFNC.....	Fayetteville, N. C.	250	150	D	IV
WSPD.....	Toledo, O.	5,000	175 DA-N	U	III-A
WPAB.....	Ponce, P. R.	1,000	175	U	III-A
KPRO.....	Longview, Tex.	1,000	185 DA-N	U	III-B
<b>1380 KILOCYCLES</b>					
†WTSP.....	St. Petersburg, Fla.	250 CP-500 CP-1,000—LS	175	U	III-B
KIDO.....	Boise, Ida.	1,000 2,500—LS	190	U	III-A
KWK.....	St. Louis, Mo.	1,000 5,000—LS CP-5,000—U	DA	U	III-A
WAWZ.....	Zarephath, N. J.	1,000	DA	S-WBNX	III-A
WBNX.....	New York City	5,000	DA	S-WAWZ	III-A
*KBWD.....	Brownwood, Tex.	500	175	U	III-B
KTSM.....	El Paso, Tex.	500	175	U	III-B
WMBG.....	Richmond, Va.	5,000	175 DA-N	U	III-B
<b>1390 KILOCYCLES</b>					
KGER.....	Long Beach, Cal.	1,000	175	U	III-A
WGES.....	Chicago, Ill.	500 1,000—LS (Sundays) CP-5,000—U	175 DA	SH	III-B III-A
WQBC.....	Vicksburg, Miss.	1,000	175	D	III
WFB.....	Syracuse, N. Y.	5,000	235 DA-N	U	III-A
KLPM.....	Minot, N. D.	1,000	185	U	III-A
KCRC.....	Enid, Okla.	250 (Proposed 1,000)	175	U	IV III-B
KSLM.....	Salem, Ore.	1,000	180	U	III-A
WCSC.....	Charleston, S. C.	500 1,000—LS (Proposed 1,000)	175	U	III-B
†WTJS.....	Jackson, Tenn.	250 CP-1,000	DA-N	U	III-B

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1400 KILOCYCLES</b>					
WMSL.....	Decatur, Ala.	250	150	U	IV
WAGF.....	Dothan, Ala.	250	150	D	IV
WJHO.....	Opelika, Ala.	100 250—LS	150	U	IV
KTUC.....	Tucson, Ariz.	250	150	U	IV
KELD.....	El Dorado, Ark.	250	150	U	IV
KFPW.....	Fort Smith, Ark.	250	150	U	IV
KRE.....	Berkeley, Cal.	250	175	U	IV
KIUP.....	Durango, Colo.	250	150	U	IV
KOKO.....	La Junta, Colo.	100	185	U	IV
*NEW.....	Stamford, Conn.	250	150	U	IV
WFTL.....	Ft. Lauderdale, Fla.	250	180	U	IV
WMBR.....	Jacksonville, Fla.	250	175	U	IV
WATL.....	Atlanta, Ga.	250	150	U	IV
WMGA.....	Moultrie, Ga.	250	225	U	IV
KRLC.....	Lewiston, Ida.	250	215	U	IV
WDWS.....	Champaign, Ill.	250	150	U	IV
WGIL.....	Galesburg, Ill.	250	150	U	IV
WEOA.....	Evansville, Ind.	250	150	U	IV
*WKMO.....	Kokomo, Ind.	250	150	U	IV
WGRC.....	New Albany, Ind.	250	195	U	IV
KFGQ.....	Boone, Ia.	100	150	SH-D	IV
KVFD.....	Fort Dodge, Ia.	250	215	SH	IV
KTSW.....	Emporia, Kan.	250	180	U	IV
KVGB.....	Great Bend, Kan.	250	185	U	IV
WRDO.....	Augusta, Me.	100	150	U	IV
WCBM.....	Baltimore, Md.	250	150	U	IV
*WHYN.....	Holyoke, Mass.	250	150	U	IV
WLLH.....	Lowell, Mass.	250	150	U	IV
WELL.....	Battle Creek, Mich.	250	150	U	IV
WHDF.....	Calumet, Mich.	250	185	U	IV
WJLB.....	Detroit, Mich.	250	150	U	IV
WTCM.....	Traverse City, Mich.	250	150	U	IV
WMIN.....	St. Paul, Minn.	250	175	U	IV
WHLB.....	Virginia, Minn.	250	175	U	IV
WCBI.....	Columbus, Miss.	250	150	U	IV
WFOR.....	Hattiesburg, Miss.	100 CP-250	150	U	IV
KFVS.....	Cape Girardeau, Mo.	250	150	U	IV
KFRU.....	Columbia, Mo.	250	150	U	IV
KORN.....	Fremont, Neb.	250	190	U	IV
KENO.....	Las Vegas, Nev.	250	150	U	IV
KICA.....	Clovis, N. M.	100	175	U	IV
KGFL.....	Roswell, N. M.	100	150	U	IV
WABY.....	Albany, N. Y.	250	150	U	IV
WBNY.....	Buffalo, N. Y.	250	150	All hours except those WSVS operates SH-D-WBNY	IV
WSVS.....	Buffalo, N. Y.	50	150		IV
WSLB.....	Ogdensburg, N. Y.	250	150	U	IV
WISE.....	Asheville, N. C.	250	150	U	IV
WCNC.....	Elizabeth City, N. C.	250	175	U	IV
WGBR.....	Goldsboro, N. C.	250	180	U	IV
WHKY.....	Hickory, N. C.	250	150	U	IV
WMFD.....	Wilmington, N. C.	100 250—LS	150	U	IV
KRMC.....	Jamestown, N. D.	250	180	U	IV
WMAN.....	Mansfield, O.	250	175	U	IV
WPAY.....	Portsmouth, O.	100 CP-250	150	U	IV
KTOK.....	Oklahoma City, Okla.	250	175	U	IV
WEST.....	Easton, Pa.	250	170	U	IV
WJAC.....	Johnstown, Pa.	250	150	U	IV
WDAS.....	Philadelphia, Pa.	250	185	U	IV
WARM.....	Seranton, Pa.	250	150	U	IV
WRAC.....	Williamsport, Pa.	250	180	U	IV
WCOS.....	Columbia, S. C.	250	190	U	IV
WORD.....	Spartanburg, S. C.	250	150	U	IV
KOBH.....	Rapid City, S. D.	250	150	U	IV
WDEF.....	Chattanooga, Tenn.	250	150	U	IV
*WJZM.....	Clarksville, Tenn.	250	150	U	IV
WHUB.....	Cookeville, Tenn.	250	150	U	IV
WKPT.....	Kingsport, Tenn.	250	150	U	IV
WHBQ.....	Memphis, Tenn.	100	150	U	IV
KLUF.....	Galveston, Tex.	250	175	U	IV
KIUN.....	Pecos, Tex.	100	150	U	IV
KGKL.....	San Angelo, Tex.	250	175	U	IV
KMAC.....	San Antonio, Tex.	250	175	S-KONO	IV
KONO.....	San Antonio, Tex.	250	150	S-KMAC	IV
KTEM.....	Temple, Tex.	250	175	U	IV
WBTM.....	Danville, Va.	100 250—LS	150	U	IV
*WINC.....	Winchester, Va.	250	150	U	IV
KRKO.....	Everett, Wash.	50 CP-100 CP-250—LS	150	S-KEVR	IV
KWLK.....	Longview, Wash.	250	150	U	IV
KEVR.....	Seattle, Wash.	100	150	S-KRKO	IV
WBLK.....	Clarksburg, W. Va.	250	200	U	IV
*WKWK.....	Wheeling, W. Va.	250	150	U	IV
WBTH.....	Williamson, W. Va.	250	150	U	IV
WATW.....	Ashland, Wis.	100	150	U	IV

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1400 KILOCYCLES—Continued</b>					
WRJN.....	Racine, Wis.	250	175	U	IV
WSAU.....	Wausau, Wis.	250	150	U	IV
KYAN.....	Cheyenne, Wyo.	250	190	U	IV
KVRS.....	Rock Springs, Wyo.	250	175	U	IV
KWYO.....	Sheridan, Wyo.	250	185	U	IV
<b>1410 KILOCYCLES</b>					
WALA.....	Mobile, Ala.	500 1,000—LS CP-5,000—U	190 DA-N	U	III-A
KERN.....	Bakersfield, Cal.	1,000	175	U	III-A
WNBC.....	New Britain, Conn.	1,000	DA	U	III-B
WING.....	Dayton, O.	5,000	175 DA-N	U	III-A
KQV.....	Pittsburgh, Pa.	1,000	185 DA-N	U	III-B
WKBH.....	La Crosse, Wis.	1,000 CP-5,000	2 <sup>90</sup> DA-N	U	III-A
<b>1420 KILOCYCLES</b>					
KLRA.....	Little Rock, Ark.	5,000	215 DA-N	U	III-A
WHK.....	Cleveland, O.	5,000	205 DA-N	U	III-A
*WFCI.....	Pawtucket, R. I.	1,000	DA	U	III-B
KABR.....	Aberdeen, S. D.	500 1,000—LS CP-5,000—U	194 DA-N	U	III-A
WWSR.....	St. Albans, Vt.	1,000	175	D	III
†KUJ.....	Walla Walla, Wash.	100 CP-1,000	175	U	III-A
WPRP.....	San Juan, P. R. (†1520 kc.)	250	150	U	IV
<b>1430 KILOCYCLES</b>					
WIRE.....	Indianapolis, Ind.	5,000	244 DA-N	U	III-A
WARD.....	Brooklyn, N. Y.	500	180	S-WBBC, WLTH, WVFW	III-B
WBBC.....	Brooklyn, N. Y.	500	175	S-WARD, WLTH, WVFW	III-B
WVFW.....	Brooklyn, N. Y.	500	175	S-WARD, WBBC, WLTH	III-B
WLTH.....	New York City	500	175	S-WARD, WBBC, WVFW	III-B
KTUL.....	Tulsa, Okla.	5,000	238 DA-N	U	III-A
KLO.....	Ogden, Utah	5,000	DA	U	III-A
<b>1440 KILOCYCLES</b>					
WSFA.....	Montgomery, Ala.	500 1,000—LS	190	U	III-B
WROK.....	Rockford, Ill.	500 1,000—LS	200	U	III-B
WAAB.....	Boston, Mass.	1,000	250	U	III-A
WBCM.....	Bay City, Mich.	500 1,000—LS	175	U	III-B
KFJM.....	Grand Forks, N. D.	500 1,000—LS	175	U	III-B
KMED.....	Medford, Ore.	1,000	175	U	III-A
KGNC.....	Amarillo, Tex.	1,000 2,500—LS CP-5,000—LS	175	U	III-A
WHIS.....	Bluefield, W. Va.	500 1,000—LS	175	U	III-B
<b>1450 KILOCYCLES</b>					
WBMA.....	Anniston, Ala.	250	150	U	IV
WMSD.....	Muscle Shoals City, Ala.	250	150	U	IV
KGLU.....	Safford, Ariz.	250	175	U	IV
KMYC.....	Marysville, Cal.	100	150	U	IV
*KFMB.....	San Diego, Cal.	250	150	U	IV
KSAN.....	San Francisco, Cal.	250	150	U	IV
KGIW.....	Alamosa, Colo.	100	150	SH-KIDW	IV
KIDW.....	Lamar, Colo.	100	150	SH-KGIW	IV
*WNAB.....	Bridgeport, Conn.	250	150	U	IV
WILM.....	Wilmington, Del.	250	150	U	IV
*WWDG.....	Washington, D. C.	250	150	U	IV
WMFJ.....	Daytona Beach, Fla.	250	150	U	IV
WSPB.....	Sarasota, Fla.	250	180	U	IV
WGPC.....	Albany, Ga.	250	150	U	IV
*WMWH.....	Augusta, Ga.	250	150	U	IV
WKEU.....	Griffin, Ga.	100	150	U	IV
*WRLC.....	Toocoo, Ga.	250	150	U	IV
WGOV.....	Valdosta, Ga.	250	150	U	IV
KWAL.....	Wallace, Ida.	250	185	U	IV
WHFC.....	Cicero, Ill.	250	150	U	IV
WCBS.....	Springfield, Ill.	250	150	U	IV
WGL.....	Fort Wayne, Ind.	250	150	U	IV
WAOV.....	Vincennes, Ind.	100	150	U	IV
WOC.....	Davenport, Ia.	250	150	U	IV
KTRI.....	Sioux City, Ia.	250	150	U	IV
KVAK.....	Atchison, Kan.	100	175	U	IV
KWBG.....	Hutchison, Kan.	100	150	U	IV
*WHLN.....	Harlan, Ky.	250	150	U	IV
WLAP.....	Lexington, Ky.	250	150	U	IV
WPAD.....	Paducah, Ky.	250	185	U	IV

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1450 KILOCYCLES—Continued</b>					
WNOE	New Orleans, La.	250	180	U	IV
WAGM	Presque Isle, Me.	100	150	SH	IV
WMAS	Springfield, Mass.	250	240	U	IV
WJMS	Ironwood, Mich.	250	150	U	IV
WIBM	Jackson, Mich.	250	150	U	IV
WHLS	Port Huron, Mich.	250	190	U	IV
KATE	Albert Lea, Minn.	250	150	U	IV
KFAM	St. Cloud, Minn.	250	185	U	IV
WSLI	Jackson, Miss.	250	180	U	IV
WMBH	Joplin, Mo.	250	200	U	IV
KRBM	Bozeman, Mont.	250	175	U	IV
WFPG	Atlantic City, N. J.	250	150	U	IV
*NEW	Endicott, N. Y.	250	150	U	IV
WHDL	Olean, N. Y.	250	210	U	IV
WKIP	Poughkeepsie, N. Y.	250	150	U	IV
WGNC	Gastonia, N. C.	250	150	U	IV
WEED	Rocky Mount, N. C.	250	175	U	IV
WFMJ	Youngstown, O.	250	150	U	IV
KGFF	Shawnee, Okla.	250	200	U	IV
KORE	Eugene, Ore.	250	150	U	IV
KLBM	La Grande, Ore.	250	185	U	IV
KBPS	Portland, Ore.	100	150	S-KXL	IV
KXL	Portland, Ore.	250	150	S-KBPS	IV
WLEU	Erie, Pa.	250	150	U	IV
WAZL	Hazleton, Pa.	250	150	U	IV
*WMDP	Greenwood, S. C.	250	150	U	IV
KRBC	Abilene, Tex.	250	175	U	IV
KRIC	Beaumont, Tex.	250	175	U	IV
KDNT	Denton, Tex.	100	150	U	IV
KRLH	Midland, Tex.	100	150	U	IV
KNET	Palestine, Tex.	100	150	D	IV
KABC	San Antonio, Tex.	250	150	U	IV
KCMC	Texarkana, Tex.	250	150	U	IV
WACO	Waco, Tex.	250	150	U	IV
KEUB	Price, Utah	250	175	U	IV
WCHV	Charlottesville, Va.	250	175	U	IV
*WMVA	Martinsville, Va.	100	150	U	IV
WLPM	Suffolk, Va.	250—LS	180	U	IV
WPAR	Parkersburg, W. Va.	100	150	U	IV
KFIZ	Fond du Lac, Wis.	100	150	U	IV

**1460 KILOCYCLES**

KINY	Juneau, Alaska	1,000	200	U	III-A
KSO	Des Moines, Ia.	1,000	234	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
†KGEZ	Kalispell, Mont.	1,000	DA	U	III-B
KGNF	North Platte, Neb.	1,000	175	D	III
WOKO	Albany, N. Y.	500	175	U	III-B
		1,000—LS			
WHEC	Rochester, N. Y.	500	220	U	III-B
		1,000—LS			
WBNS	Columbus, O.	1,000	190	U	III-B
		5,000—LS	DA-N		
WHP	Harrisburg, Pa.	1,000	193	U	III-B
		5,000—LS	DA-N		
WMPS	Memphis, Tenn.	500	175	U	III-B
		1,000—LS			
<b>1470 KILOCYCLES</b>					
WMBD	Peoria, Ill.	1,000	205	U	III-B
		5,000—LS			
WBIG	Greensboro, N. C.	1,000	225	U	III-A
		5,000—LS	DA-N		
		CP-5,000—U			
WCBA	Allentown, Pa.	500	180	S-WSAN	III-B
WSAN	Allentown, Pa.	500	180	S-WCBA	III-B
KXYZ	Houston, Tex.	1,000	175	U	III-A
KELA	Centralia, Wash.	1,000	190	U	III-A
KDFN	Casper, Wyo.	1,000	210	U	III-B

**1480 KILOCYCLES**

KIEM	Eureka, Cal.	500	175	U	III-B
		1,000—LS			
WAGA	Atlanta, Ga.	500	240	U	III-B
		1,000—LS			
KTBS	Shreveport, La.	1,000	175	U	III-B
WSAR	Fall River, Mass.	1,000	DA	U	III-B
KCMO	Kansas City, Mo.	1,000	179	U	III-B
		5,000—LS	DA-N		
KGCX	Wolf Point, Mont.	1,000	175	U	III-A
WHOM	Jersey City, N. J.	500	230	U	III-B
		1,000—LS	DA-N		
WGAR	Cleveland, O.	1,000	233	U	III-B
		5,000—LS	DA-N		

**1490 KILOCYCLES**

WHBB	Selma, Ala.	100	150	U	IV
KYCA	Prescott, Ariz.	250	150	U	IV
KOTN	Pine Bluff, Ark.	250	150	U	IV
KXO	El Centro, Cal.	100	150	U	IV
KVOE	Santa Ana, Cal.	250	175	U	IV
KDB	Santa Barbara, Cal.	250	150	U	IV
WNLC	New London, Conn.	250	175	U	IV
WTMC	Ocala, Fla.	100	175	U	IV
WRDW	Augusta, Ga.	250	190	U	IV
WMOG	Brunswick, Ga.	100	180	U	IV
		250—LS			
WMJM	Cordele, Ga.	100	180	U	IV
		250—LS			

Call Letters	Location	Power in Watts	Radiation mv/m	Time Designation	Class
<b>1490 KILOCYCLES—Continued</b>					
WRGA	Rome, Ga.	250	150	U	IV
KTOH	Lihue, Hawaii	250	150	U	IV
*WKRO	Cairo, Ill.	250	150	U	IV
WDAN	Danville, Ill.	250	230	U	IV
WTMV	East St. Louis, Ill.	250	150	U	IV
WKBV	Richmond, Ind.	100	150	U	IV
*KBUR	Burlington, Ia.	250	150	U	IV
WKB	Dubuque, Ia.	250	200	U	IV
WOMI	Owensboro, Ky.	250	180	U	IV
KPLC	Lake Charles, La.	250	150	U	IV
WJBK	Detroit, Mich.	250	150	U	IV
*WDBC	Escanaba, Mich.	250	150	U	IV
WKBZ	Muskegon, Mich.	250	190	U	IV
KDAL	Duluth, Minn.	250	150	U	IV
*NEW	Natchez, Miss.	250	150	U	IV
KDRO	Sedalia, Mo.	250	180	U	IV
*KONB	Omaha, Neb.	250	150	U	IV
KGKY	Scottsbluff, Neb.	250	150	U	IV
WBAB	Atlantic City, N. J.	250	150	U	IV
KAWM	Gallup, N.M.	100	150	U	IV
KWEW	Hobbs, N. M.	100	180	U	IV
*WBTA	Batavia, N. Y.	250	150	U	IV
WBNF	Binghamton, N. Y.	250	200	U	IV
WOLF	Syracuse, N. Y.	250	150	U	IV
WKNY	Kingston, N. Y.	250	185	U	IV
WDNC	Durham, N. C.	250	225	U	IV
WGTC	Greenville, N. C.	250	220	U	IV
WSTP	Salisbury, N. C.	250	225	U	IV
KOVC	Valley City, N. D.	250	150	U	IV
WMRN	Marion, O.	250	150	U	IV
KBIX	Muskogee, Okla.	100	150	U	IV
		CP-250			
KBKR	Baker, Ore.	250	180	U	IV
KRNR	Roseburg, Ore.	100	150	U	IV
		250—LS			
*WERC	Erie, Pa.	100	150	U	IV
		250—LS			
WGAL	Lancaster, Pa.	250	150	U	IV
*WMRF	Lewistown, Pa.	250	150	U	IV
WWSW	Pittsburgh, Pa.	250	175	U	IV
WMRC	Greenville, S. C.	250	150	U	IV
WOPI	Bristol, Tenn.	250	150	U	IV
KNOW	Austin, Tex.	250	150	U	IV
KBST	Big Spring, Tex.	100	180	U	IV
KNEL	Brady, Tex.	100	150	U	IV
		250—LS			
KGFI	Brownsville, Tex.	100	150	U	IV
		250—LS			
*KEYS	Corpus Christi, Tex.	250	150	U	IV
KSAM	Huntsville, Tex.	250	150	D	IV
KPAB	Laredo, Tex.	250	175	U	IV
KPLT	Paris, Tex.	250	175	U	IV
KGKB	Tyler, Tex.	250	175	U	IV
KVWC	Vernon, Tex.	250	175	U	IV
WSYB	Rutland, Vt.	250	175	U	IV
WLSL	Roanoke, Va.	250	150	U	IV
KPQ	Wenatchee, Wash.	250	195	U	IV
WGKV	Charleston, W. Va.	100	175	U	IV
*WIGM	Medford, Wis.	100	150	U	IV

**1500 KILOCYCLES**

WJSV	Washington, D. C.	50,000	DA	U	I-B
KSTP	St. Paul, Minn.	50,000	DA	U	I-B

**1510 KILOCYCLES**

WMEX	Boston, Mass.	5,000	DA	U	II
WLAC	Nashville, Tenn.	5,000	225	U	II
		(Proposed 50,000)	DA-N		I-B
KGA	Spokane, Wash.	5,000	200	U	II
		(Proposed 10,000)	DA		I-B

**1520 KILOCYCLES**

WHIP	Hammond, Ind.	5,000	DA	6 a.m. to LS Buffalo, N. Y.	II
WKBW	Buffalo, N. Y.	5,000	250	U	II
		CP-50,000	DA		I-B
KOMA	Oklahoma City, Okla.	5,000	225	U	II
		(Proposed 50,000)	DA-N		I-B
†WPRP	Ponce, P. R.	1,000	175	U	II
		5,000—LS			

**1530 KILOCYCLES**

KFBK	Sacramento, Cal.	10,000	235	U	I-B
		(Proposed DA)			
WCKY	Cincinnati, O.	50,000	DA	U	I-B

**1560 KILOCYCLES**

WQXR	New York City	5,000	DA	U	II
		(Proposed 10,000)			

**1590 KILOCYCLES**

WBRY	Waterbury, Conn.	1,000	DA	U	III-A
		CP-5,000			
*WALB	Albany, Ga.	1,000	DA-N	U	III-A
KITE	Kansas City, Mo.	1,000	175	U	III-A
WAKR	Akron, O.	1,000	DA	U	III-A

**1600 KILOCYCLES**

KPMC	Bakersfield, Cal.	1,000	175	U	III-A
WCNW	Brooklyn, N. Y.	250	175	S-WWRL	IV
		(Proposed 500)		(Proposed III-B)	
WWRL	Woodside, N. Y.	250	175	S-WCNW	IV
		(Proposed 500)		(Proposed III-B)	

**MEETING MODERN NEEDS**  
*Economically*

# MONOTUBE VERTICAL RADIATORS

*Plus F-M. High Gain Arrays*

## OFFER YOU THESE ADVANTAGES:

LONGER LIFE ✓ UNIFORM REACTANCE ✓  
SIMPLE TO DISMANTLE AND MOVE ✓ GREATER  
STRENGTH WITH LESS WEIGHT ✓ 65 to 100 FEET  
BETWEEN GUY LEVELS ✓ EASY DELIVERY AND  
ERECTION ✓ LOW MAINTENANCE COSTS ✓  
THE IDEAL UNIFORM CROSS SECTION ✓ ✓ ✓

★ ★ ★

• All Monotube Radiators are constructed of a series of guyed double-tapered hollow steel tubes designed and guaranteed to withstand pressures developed during a HURRICANE with wind velocities of 100 mph., a one-half inch ice load, and a temperature change of plus and minus 50 degrees Fahrenheit. To this is added a safety factor of 3.6 on the steel and 5.0 on the guy assemblies.

The articulated joint used between the sections prevents the transference of bending moments (introduced by wind) from section to section, thus placing the point of maximum stress in the center of each isolated section: the stress curve falling off to each end.

The taper used in the MONOTUBE sections follows this stress curve, placing the greatest diameter and most material in the center at the point of maximum stress and lessening the diameter and amount of material at the ends at the points of minimum stress.

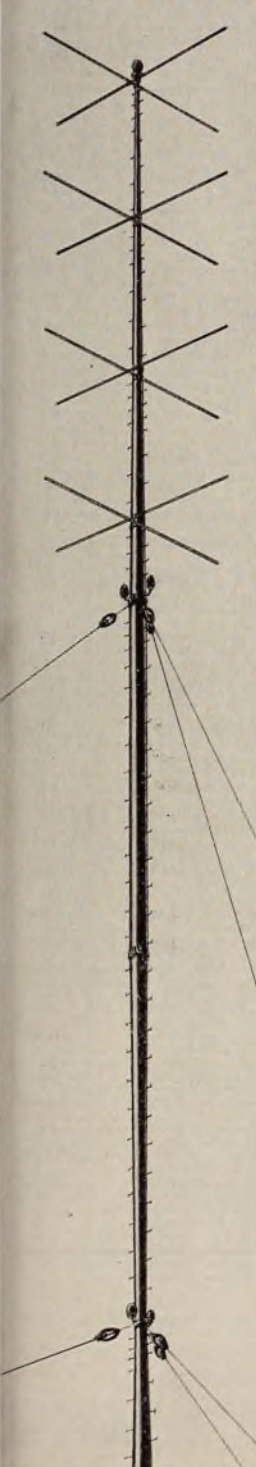
Each MONOTUBE RADIATOR is individually engineered against power and frequency to properly sectionalize the guy cable assemblies against the eighth harmonic thus eliminating absorption, reflection, and directivity in the cables which would otherwise introduce serious distortion in the theoretical field pattern. Insulation in all cases is designed to maintain non-resonance in the guy cables during adverse weather conditions.

Our attention to these details in the guy-cable design makes the MONOTUBE RADIATORS the ideal units for Directional Antenna Systems.

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CLEVELAND, OHIO

DISTRIBUTORS AND ERECTORS

MANUFACTURERS **THE UNION METAL MFG. CO.** CANTON, OHIO



Write The Bass Construction Co., Cleveland, Ohio, for quotation on your antenna system completely erected, painted, and lighted. Enclose frequency, power, and height.

# Log of Canadian Broadcast Stations

Call Letter List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty  
(As released by Radio Branch, Department of Transport, Dominion of Canada, Ottawa)

## ABBREVIATIONS

D—Daytime. N—Night Time. DA—Directional Antenna

Call Letters	Location	Power in Watts	Frequency in Kc.	Class	Call Letters	Location	Power in Watts	Frequency in Kc.	Class
CBA	Sackville, N. B.	50,000	1070	I-B	CJBR	Rimouski, Que.	1,000	900	II
CBF	Montreal, Que.	50,000	690	I-A	CJCA	Edmonton, Alta.	1,000	930	III-A
CBJ	Chicoutimi, Que.	100	1240	IV	CJCB	Sydney, N. S.	1,000	1270	III-A
CBK	Watrous, Sask.	50,000	540	I-A	CJCJ	Calgary, Alta.	100	1230	IV
CBL	Toronto, Ont.	50,000	740	I-A	CJCS	Stratford, Ont.	50	1240	IV
CBM	Montreal, Que.	5,000	940	I-B	CJGX	Yorkton, Sask.	1,000	1460	III-A
CBO	Ottawa, Ont.	1,000	910	III-B	CJIC	Sault Ste. Marie, Ont.	100	1490	IV
CBR	Vancouver, B. C.	5,000	1130	I-B	CJKL	Kirkland Lake, Ont.	1,000	560	III-B
CBV	Quebec, Que.	1,000	980	III-A	CJLS	Yarmouth, N. S.	100	1340	IV
CBY	Toronto, Ont.	1,000	1010	II	CJOC	Lethbridge, Alta.	100	1400	IV
CFAC	Calgary, Alta.	1,000	960	III-A	CJOR	Vancouver, B. C.	1,000	600	III-A
CFAR	Flin Flon, Man.	100	1400	IV	CJRC	Winnipeg, Man.	1,000	630	III-A
CFCF	Montreal, Que.	500	600	III-B	CJRM	Regina, Sask.	1,000	980	III-B
CFCH	North Bay, Ont.	100	1230	IV	CKAC	Montreal, Que.	5,000	730	II
CFCN	Calgary, Alta.	10,000	1010	I-A	CKBI	Prince Albert, Sask.	1,000	900	II
CFCO	Chatham, Ont.	100	630	IV	CKCA	Kenora, Ont.	100-N. 250-D.	1450	IV
CFCT	Victoria, B. C.	500	1480	III-B	CKCH	Hull, Que.	100	1240	IV
CFCY	Charlottetown, P. E. I.	1,000	630	III-A	CKCK	Regina, Sask.	1,000	620	III-B
CFGP	Grande Prairie, Alta.	250	1340	IV	CKCL	Toronto, Ont.	1,000-DA	580	III-B
CFJC	Kamloops, B. C.	1,000	910	III-A	CKCO	Ottawa, Ont.	100	1340	IV
CFLC	Prescott, Ont.	100	1450	IV	CKCR	Waterloo, Ont.	100	1490	IV
CFNB	Fredericton, N. B.	1,000	550	III-B	CKCV	Quebec, Que.	100	1340	IV
CFOS	Owen Sound, Ont.	100	1400	IV	CKCW	Moncton, N. B.	100	1400	IV
CFPL	London, Ont.	1,000	1570	II	CKGB	Timmins, Ont.	1,000	1470	III-B
CFPR	Prince Rupert, B. C.	50	1240	IV	CKLN	Nelson, B. C.	100	1450	IV
CFQC	Saskatoon, Sask.	1,000	600	III-A	CKLW	Windsor, Ont.	5,000	800	II
CFRB	Toronto, Ont.	10,000	860	I-A	CKMC	Cobalt, Ont.	50	1240	IV
CFRC	Kingston, Ont.	100	1490	IV	CKMO	Vancouver, B. C.	1,000	1410	III-A
CFRN	Edmonton, Alta.	1,000	1260	III-A	CKNB	Campbellton, N. B.	100	1240	IV
CHAB	Moose Jaw, Sask.	1,000	1220	II	CKNX	Wingham, Ont.	100	1230	IV
CHCK	Charlottetown, P. E. I.	50	1340	IV	CKOC	Hamilton, Ont.	500-N. 1,000-D.	1150	III-B
CHGB	Ste. Anne de la Pocatiere, Que.	100	1230	IV	CKOV	Kelowna, B. C.	1,000	630	III-A
CHGS	Summerside, P. E. I.	50	1480	IV	CKPC	Brantford, Ont.	100	1380	IV
CHLN	Three Rivers, Que.	100	1450	IV	CKPR	Port Arthur, Ont.	1,000	580	III-A
CHLP	Montreal, Que.	100	1490	IV	CKRN	Rouyn, Que.	250	1400	IV
CHLT	Sherbrooke, Que.	100	1240	IV	CKSO	Sudbury, Ont.	1,000	790	III-B
CHML	Hamilton, Ont.	1,000	900	II	CKTB	St. Catharines, Ont.	100 CP-1,000	1230 CP-1550	IV I-B
CHNC	New Carlisle, Que.	1,000	610	III-A	CKUA	Edmonton, Alta.	1,000	580	III-A
CHNS	Halifax, N. S.	1,000	960	III-A	CKVD	Val d'Or, Que.	100	1230	IV
CHRC	Quebec, Que.	100	1400	IV	CKWX	Vancouver, B. C.	1,000	980	III-A
CHSJ	St. John, N. B.	1,000	1150	III-B	CKX	Brandon, Man.	1,000	1150	III-A
CHWK	Chilliwack, B. C.	100	1340	IV	CKY	Winnipeg, Man.	15,000	990	I-A
CJAT	Trail, B. C.	1,000	610	III-B					

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**GLENN D. GILLET and Associates**  
Consulting Radio Engineers

National Press Bldg.

Washington, D. C.

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**A**FTER eighteen months of war, Canadian business is at a new high level. Industry operates at capacity. Retail sales show steady gains. Incomes are up . . . unemployment is down. In a country geared to increasing production . . . business is good!

During these months, the CBC National Network has been a vital unifying force. Today, in more than 1,600,000 radio homes, Canadian listeners look to CBC for authentic news . . . for broadcasts of national and international importance . . . for the best in radio entertainment.

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Now . . . more intensively than ever . . .  
**CBC COVERS CANADA.**

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#### COMMERCIAL DEPARTMENT

55 YORK STREET, TORONTO  
1231 ST. CATHERINE ST. WEST  
MONTREAL

## CANADIAN BROADCASTING CORPORATION

# Log of Canadian Broadcast Stations

Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty  
(As released by Radio Branch, Department of Transport, Dominion of Canada, Ottawa)

## ABBREVIATIONS

D—Daytime. N—Night Time. DA—Directional Antenna

Call Letter	Location	Power in Watts	Radiation mv/m	Class
<b>540 KILOCYCLES</b>				
CBK	Watrous, Sask.	50,000	250	I-A
<b>550 KILOCYCLES</b>				
CFNB	Fredericton, N. B.	1,000	150	III-B
<b>560 KILOCYCLES</b>				
CJKL	Kirkland Lake, Ont.	1,000	160	III-B

This assignment is agreed to between the United States and Canada as listed. Canada agrees to interpose no objection to an increase in the operating power of WFIL to 5 kw with the radiation to Kirkland Lake on the bearing 338 degrees not to exceed 392 mv/m unattenuated at one mile (that produced by a nondirectional 5 kw station having 175 mv/m at one mile for 1 kw). It is further agreed that the frequency 1220 kc will not be assigned within the United States for a reasonable time to permit assignment of CJKL to this frequency if the station should so elect. If subsequent investigations indicate the frequency 560 kc to be more desirable and CJKL elects to remain on this channel under the aforementioned conditions, further use of the frequency 1220 kc in the northeastern portion of North America will be the subject of further negotiations on the basis of established priorities.

<b>580 KILOCYCLES</b>				
CKUA	Edmonton, Alta.	1,000	125	III-A
CKPR	Port Arthur, Ont.	1,000	180	III-A
CKCL	Toronto, Ont.	1,000	DA	III-B

<b>600 KILOCYCLES</b>				
CJOR	Vancouver, B. C.	1,000	145	III-A
CFQC	Saskatoon, Sask.	1,000	150	III-A
CFCF	Montreal, Que.	500	125	III-B

<b>610 KILOCYCLES</b>				
CJAT	Trail, B. C.	1,000	185	III-B
CHNC	New Carlisle	1,000	150	III-A

<b>620 KILOCYCLES</b>				
CKCK	Regina, Sask.	1,000	175	III-B

<b>630 KILOCYCLES</b>				
CFCY	Charlottetown, P. E. I.	1,000	150	III-A
CFCO	Chatham, Ont.	100	125	IV
CKOV	Kelowna, B. C.	1,000	150	III-A
CJRC	Winnipeg, Man.	1,000	175	III-A

<b>690 KILOCYCLES</b>				
CBF	Montreal, Que.	50,000	250	I-A

<b>730 KILOCYCLES</b>				
CKAC	Montreal, Que.	5,000	165	II

This assignment is accepted by Mexico subject to a directional antenna if objectionable interference exists on the Mexican border as a result of the operation of this station at night.

<b>740 KILOCYCLES</b>				
CBL	Toronto, Ont.	50,000	250	I-A

<b>790 KILOCYCLES</b>				
CKSO	Sudbury, Ont.	1,000	150	III-B

<b>800 KILOCYCLES</b>				
CKLW	Windsor, Ont.	5,000	190	II

<b>860 KILOCYCLES</b>				
CFRB	Toronto, Ont.	10,000	150	I-A

Call Letter	Location	Power in Watts	Radiation mv/m	Class
<b>900 KILOCYCLES</b>				
CJBR	Rimouski, Que.	1,000	180	II
CHML	Hamilton, Ont.	1,000	DA	II
CKBI	Prince Albert, Sask.	1,000	165	II

<b>910 KILOCYCLES</b>				
CBO	Ottawa, Ont.	1,000	160	III-B
CFJC	Kamloops, B. C.	1,000	150	III-A

<b>930 KILOCYCLES</b>				
CJCA	Edmonton, Alta.	1,000	130	III-A

<b>940 KILOCYCLES</b>				
CBM	Montreal, Que.	5,000	172	I-B

<b>960 KILOCYCLES</b>				
CFAC	Calgary, Alta.	1,000	175	III-A
CHNS	Halifax, N. S.	1,000	160	III-A

<b>980 KILOCYCLES</b>				
CJRM	Regina, Sask.	1,000	160	III-B

KMBC permitted to continue operation with 5 kw power, unlimited time and the directional antenna now installed and on file with the Federal Communications Commission and the Department of Transport subject to the determination of actual interference to CJRM in accordance with the provision for such determination established by the Treaty. If interference is found to exist to greater than 4 mv/m, appropriate action by the Commission will be taken to require KMBC to reduce the radiation on the bearing 331 degrees to such an amount that the limitation at Regina does not exceed 4 mv/m.

CBV	Quebec, Que.	1,000	185	III-A
CKWX	Vancouver, B. C.	1,000	125	III-A

<b>990 KILOCYCLES</b>				
CKY	Winnipeg, Man.	15,000	155	I-A

<b>1010 KILOCYCLES</b>				
CFCN	Calgary, Alta.	10,000	170	I-A
CBY	Toronto, Ont.	1,000	195	II

<b>1070 KILOCYCLES</b>				
CBA	Sackville, N. B.	50,000	250	I-B

<b>1130 KILOCYCLES</b>				
CBR	Vancouver, B. C.	5,000	220	I-B

Reclassification of KWKH, 50 kw Class II station (Treaty provision) at Shreveport, Louisiana, to I-B acceptable so long as CBR, Class I-B station at Vancouver continues to operate with 5 kw power as provided by the Treaty. When power of CBR is increased to 50 kw, classification of KWKH to be dependent upon interference received from CBR. If CBR is operated with directional antenna which provides satisfactory service to the British Columbia area and protects the service of KWKH as a I-B station in accordance with the Treaty, this classification may be continued.

<b>1150 KILOCYCLES</b>				
CKX	Brandon, Man.	1,000	150	III-A
CKOC	Hamilton, Ont.	500-N 1,000-D	125	III-B
CHSJ	St. John, N. B.	1,000	140	III-B

<b>1220 KILOCYCLES</b>				
CHAB	Moose Jaw, Sask.	1,000	125	II

This assignment is accepted by Mexico subject to a directional antenna if objectionable interference exists on the Mexican border as a result of the operation of this station at night.

<b>1230 KILOCYCLES</b>				
CJCJ	Calgary, Alta.	100	125	IV
CFCH	North Bay, Ont.	100	125	IV
CKNX	Wingham, Ont.	100	125	IV
CKTB	St. Catharines, Ont. (See 1550 kc.)	100	190	IV
CHGB	Ste. Anne de la Pocatiere, Que.	100	180	IV
CKVD	Val d'Or, Que.	100	125	IV



Call Letter	Location	Power in Watts	Radiation mv/m	Class
<b>1240 KILOCYCLES</b>				
CFPR.....	Prince Rupert, B. C.	50	125	IV
CBJ.....	Chicoutimi, Que.	100	125	IV
CKMC.....	Cobalt, Ontario	50	125	IV
CJCS.....	Stratford, Ont.	50	125	IV
CKCH.....	Hull, Que.	100	160	IV
CHLT.....	Sherbrooke, Que.	100	165	IV
CKNB.....	Campbellton, N. B.	100	125	IV
<b>1260 KILOCYCLES</b>				
CFRN.....	Edmonton, Alta.	1,000	150	III-A
<b>1270 KILOCYCLES</b>				
CJCB.....	Sydney, N. S.	1,000	190	III-A
<b>1340 KILOCYCLES</b>				
CKCO.....	Ottawa, Ont.	100	125	IV
CKCV.....	Quebec, Que.	100	135	IV
CHCK.....	Charlottetown, P. E. I.	50	125	IV
CJLS.....	Yarmouth, N. S.	100	160	IV
CFGP.....	Grande Prairie, Alta.	250	190	IV
CHWK.....	Chilliwack, B. C.	100	125	IV
<b>1380 KILOCYCLES</b>				
CKPC.....	Brantford, Ont.	100	135	IV
<b>1400 KILOCYCLES</b>				
CJOC.....	Lethbridge, Alta.	100	125	IV
CFAR.....	Flin Flon, Man.	100	125	IV
CKRN.....	Rouyn, Que.	250	125	IV
CHRC.....	Quebec, Que.	100	125	IV
CKCW.....	Moncton, N. B.	100	160	IV
CFOS.....	Owen Sound, Ont.	100	125	IV
<b>1410 KILOCYCLES</b>				
CKMO.....	Vancouver, B. C.	1,000	130	III-A
<b>1450 KILOCYCLES</b>				
CKLN.....	Nelson, B. C.	100	125	IV
CKCA.....	Kenora, Ont.	100-N 250-D	165	IV
CHLN.....	Three Rivers, Que.	100	200	IV
CFLC.....	Prescott, Ont.	100	125	IV
<b>1460 KILOCYCLES</b>				
CJGX.....	Yorkton, Sask.	1,000	160	III-A
<b>1470 KILOCYCLES</b>				
CKGB.....	Timmins, Ont.	1,000	150	III-B
<b>1480 KILOCYCLES</b>				
CFCT.....	Victoria, B. C.	500	180	III-B
CHGS.....	Summerside, P. E. I.	50	125	IV
<b>1490 KILOCYCLES</b>				
CKCR.....	Waterloo, Ont.	100	130	IV
CFRC.....	Kingston, Ont.	100	190	IV
CHLP.....	Montreal, Que.	100	130	IV
CJIC.....	Sault Ste. Marie, Ont.	100	160	IV
It was agreed between the delegates from the United States and Canada that if an increase in power beyond that of a local station is contemplated for either CJIC or WSOO, the Department of Transport will advise the Commission, or vice versa, in order that the increase in power of either station may be considered in conjunction with that of the other.				
<b>1550 KILOCYCLES</b>				
CKTB.....	St. Catharines, Ont. (Construction Permit)	1,000	DA	I-B
<b>1570 KILOCYCLES</b>				
CFPL.....	London, Ont.	1,000	DA	II

# UP IN CANADA 30 NATIONAL ADVERTISERS CAN'T BE WRONG...

in using 40% of a CFRB working week, the year 'round!

## IN A TYPICAL WEEK...

SUN	MON	TUES	WED	THUR	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

10 NATIONAL ADVERTISERS  
used 26 1/4 hours of CFRB's  
119 hours on-the-air!  
THE NEXT 10  
used 15 1/2 hours!  
ANOTHER 10  
used 5 hours!  
a grand average of 40%, or, over 1 1/2 hours  
each, per week, the year 'round!

Of course shrewd advertisers use CFRB to sell their wares in Canada's richest market! The figures prove it. But more important is the answer to the question "Why are more and more advertisers reaching this market over CFRB?" . . . Here are a few reasons:

- 1 CFRB is the key to an immediate audience that represents 29% of the population of Canada, and nearly 50% of its purchasing power!
- 2 CFRB's listening area includes 12 cities, 42 towns and 192,174 farm homes!
- 3 CFRB's monthly mail averages over 200,000 letters!
- 4 In a recent "survey" comprising 1600 personal interviews, 53.4% of the interviewees named CFRB their favourite station. *In fact, CFRB led the runner-up by nearly 2 to 1!*

CFRB is now in its 14th year of continuous service. Before placing your advertising in Ontario, Canada's 2 1/2 billion dollar market, get all the facts concerning CFRB—the key to Ontario sales!

**AFTER MARCH 29—10,000 WATTS ON 860 KC.**

**CFRB** The most popular station  
in Canada's richest market!  
**TORONTO**

Advertising representatives in U. S. A.  
JOSEPH HERSHEY McGILLVRA  
New York • Chicago • Boston  
San Francisco • Los Angeles • Atlanta

# Log of Mexican Broadcast Stations

Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty

(As Released by the Government of Mexico, March 13, 1941)

DA—Directional Antenna

## NOTE

Where two powers are shown, lower wattage represents operating power, higher represents authorized potential power.  
Class designation refers to authorized potential power.

Call Letters	City	Power in Watts	Class	Call Letters	City	Power in Watts	Class	Call Letters	City	Power in Watts	Class	Call Letters	City	Power in Watts	Class
<b>580 KILOCYCLES</b>				<b>960 KILOCYCLES</b>				<b>1260 KILOCYCLES</b>				<b>1360 KILOCYCLES</b>			
XEMU	Piedras Negras, Coah.	250	IV	XEFE	Nuevo Laredo, Tams.	250 1,000	III-A	XEL	Mexico, D. F.	250 750	III-B	XEBI	Aguascalientes, Ags.	250	IV
<b>600 KILOCYCLES</b>				XEU	Veracruz, Ver.	500	III-B	XEBL	Culiacan, Sin.	500	III-B	<b>1370 KILOCYCLES</b>			
XEZ	Merida, Yuc.	2,000	III-A	XEHK	Guadalajara, Jal.	125 250	IV	XEBM	San Luis Potosi, S. L. P.	150	IV	XEMR	Monterrey, N. L.	500	III-B
<b>610 KILOCYCLES</b>				<b>970 KILOCYCLES</b>				XEDW	Minatitlan, Ver.	250	IV	XEAF	Nogales, Son.	750 1,000	III-A
XEBX	Sabinas, Coah.	250 500	III-B	XEK	Mexico, D. F.	200 500	III-B	XEBU	Chihuahua, Chih.	100	IV	XEA	Campeche, Cam.	250	IV
XERJ	Mazatlan, Sin.	600	III-B	XEJ	Ciudad Juarez, Chih.	1,000 5,000	III-A	XEBP	Torreón, Coah.	250	IV	<b>1380 KILOCYCLES</b>			
<b>630 KILOCYCLES</b>				<b>980 KILOCYCLES</b>				XEDF	Nuevo Laredo, Tams.	250	IV	XEMX	Mexico, D. F.	100 500	III-B
XEFB	Monterrey, N. L.	500	III-B	<b>990 KILOCYCLES</b>				<b>1270 KILOCYCLES</b>				<b>1390 KILOCYCLES</b>			
<b>660 KILOCYCLES</b>				XEFQ	Cananea, Son.	500	III-B	XEDL	Navojoa, Son.	500	III-B	XEM	Chihuahua, Chih.	500	III-B
XEBZ	Mexico, D. F.	100 500	II DA	XEXT	Tepic, Nay.	1,000	III-A	XEFM	Leon, Gto.	20 100	IV	XEAZ	Reynosa, Tams.	250	IV
<b>680 KILOCYCLES</b>				<b>1010 KILOCYCLES</b>				XEBC	Morelia, Mich.	100	IV	<b>1400 KILOCYCLES</b>			
XED	Guadalajara, Jal.	1,000	II DA	XEBG	Tijuana, B. C.	500	II	XEBA	C. Guzman, Jal.	20 250	IV	XEAM	Matamoros, Tams.	250	IV
<b>690 KILOCYCLES</b>				<b>1050 KILOCYCLES</b>				XEFV	C. Juarez, Chih.	50 100	IV	XEF	C. Juarez, Chih.	100	IV
XEN	Mexico, D. F.	1,000 5,000	II	XEG	Monterrey, N. L.	50,000 150,000	I-A	XEME	Merida, Yuc.	400 500	III-B	XEAJ	Navojoa, Son.	100	IV
XEAC	Tijuana, B. C.	5,000	II	<b>1090 KILOCYCLES</b>				<b>1280 KILOCYCLES</b>				XEI	Morelia, Mich.	250	IV
<b>730 KILOCYCLES</b>				XERB	Rosarito, B. C.	50,000	I-B DA	XEX	Monterrey, N. L.	500	III-B	<b>1410 KILOCYCLES</b>			
XEDP	Mexico, D. F.	500 150,000	I-A	XEHR	Puebla, Pue.	250	II	XEE	Durango, Dgo.	50 100	IV	XEBS	Mexico, D. F.	200 750	III-B
<b>790 KILOCYCLES</b>				<b>1110 KILOCYCLES</b>				XEOX	Los Mochis, Sin.	250	IV	<b>1420 KILOCYCLES</b>			
XERC	Mexico, D. F.	500 1,000	III-A	XEFO	Mexico, D. F.	5,000 20,000	II	XELK	Zaca'ecas, Zac.	100	IV	XEDS	Mazatlan, Sin.	500	III-B
<b>†800 KILOCYCLES</b>				<b>1140 KILOCYCLES</b>				XEBW	Chihuahua, Chih.	250 600	III-B	<b>1430 KILOCYCLES</b>			
XERA	Villa Acuna, Coah.	500,000	I-A	XENT	Nuevo Laredo, Tams.	50,000	I-B DA	XERL	Colima, Col.	250	IV	XECZ	San Luis Potosi, S. L. P.	100 1,000	III-A
†Log does not indicate frequency for XERA, operated by Dr. John R. Brinkley; allocation approved at Washington conference in January lists a 150,000-watt station at Nogales on 800 kc.				<b>1150 KILOCYCLES</b>				<b>1290 KILOCYCLES</b>				XEOK	Progreso, Yuc.	100	IV
<b>810 KILOCYCLES</b>				XEON	Tijuana, B. C.	2,000	II	XEDA	Mexico, D. F.	200 1,000	III-A	<b>1440 KILOCYCLES</b>			
XEFW	Tampico, Tams.	300 5,000	II DA	<b>1170 KILOCYCLES</b>				XEAP	C. Obregon, Son.	50 100	IV	XELZ	Mexico, D. F.	250 1,000	III-A
<b>830 KILOCYCLES</b>				XEJP	Mexico, D. F.	100 600	III-B	<b>1300 KILOCYCLES</b>				XEFI	Chihuahua, Chih.	1,000	III-B
XELA	Mexico, D. F.	1,000	II	XEJS	Cananea, Son.	100 500	III-B	XEP	C. Juarez, Chih.	500	III-B	<b>1450 KILOCYCLES</b>			
<b>860 KILOCYCLES</b>				<b>1190 KILOCYCLES</b>				XES	Tampico, Tams.	100 5,000	III-A	XEY	S. L. Rio Colorado, Son.	250	IV
XEMO	Tijuana, B. C.	5,000	II	XELO	Tijuana, B. C.	10,000 50,000	I-B DA	XEC	Tijuana, B. C.	100	IV	XECC	Zamora, Mich.	100	IV
XEUN	Mexico, D. F.	1,000 5,000	II	<b>1220 KILOCYCLES</b>				XEHV	Veracruz, Ver.	1,000	III-A	XEBQ	Torreón, Coah.	100	IV
<b>900 KILOCYCLES</b>				XEB	Mexico, D. F.	20,000 100,000	I-A	XEAD	Guadalajara, Jal.	500	III-B	XEDJ	Magdalena, Son.	100	IV
XEW	Mexico, D. F.	100,000	I-A	<b>1250 KILOCYCLES</b>				<b>1320 KILOCYCLES</b>				XEFK	Merida, Yuc.	100	IV
<b>910 KILOCYCLES</b>				XEAT	Parral, Chih.	250 600	III-B	XEAI	Mexico, D.F.	500	III-B	XERK	Tepic, Nay.	100	IV
XEAO	Mexicali, B. C.	250	IV	<b>1270 KILOCYCLES</b>				<b>1330 KILOCYCLES</b>				XEXE	Texcoco, Mex.	100	IV
<b>920 KILOCYCLES</b>				XEH	Monterrey, N. L.	100 250	IV	XEKS	Saltillo, Coah.	100	IV	XEBJ	C. Victoria, Tams.	100	IV
XEBH	Hermosillo, Son.	1,000	III-B	<b>1290 KILOCYCLES</b>				XEBO	Irapuato, Gto.	600	III-B	XEPP	Orizaba, Ver.	100	IV
<b>940 KILOCYCLES</b>				XED	Puebla, Pue.	350	II	<b>1340 KILOCYCLES</b>				<b>1470 KILOCYCLES</b>			
XEQ	Mexico, D. F.	50,000	I-B	<b>1310 KILOCYCLES</b>				XELW	Guadalajara, Jal.	250	IV	XEAU	Tijuana, B. C.	250 5,000	III-A
<b>950 KILOCYCLES</b>				XEDH	Villa Acuna, Coah.	200	IV	XEDK	N. Laredo, Tams.	100	IV	XESM	Mexico, D. F.	500 1,000	III-A
XEGM	Tijuana, B. C.	2,500	III-A DA	XEFZ	Coatzacoalcos, Ver.	250	IV	XEDL	N. Laredo, Tams.	100	IV	<b>1490 KILOCYCLES</b>			
<b>960 KILOCYCLES</b>				XEDM	Coatzacoalcos, Ver.	250	IV	XEDN	Coatzacoalcos, Ver.	250	IV	XEJR	H. del Parral, Chih.	100	IV
<b>970 KILOCYCLES</b>				XEDP	Coatzacoalcos, Ver.	250	IV	XEDO	Coatzacoalcos, Ver.	250	IV	XEDR	Guaymas, Son.	100	IV
<b>980 KILOCYCLES</b>				XEDQ	Coatzacoalcos, Ver.	250	IV	XEDP	Coatzacoalcos, Ver.	250	IV	XECH	Toluca, Mex.	250	IV
<b>990 KILOCYCLES</b>				XEDR	Coatzacoalcos, Ver.	250	IV	XEDQ	Coatzacoalcos, Ver.	250	IV	<b>1500 KILOCYCLES</b>			
<b>1000 KILOCYCLES</b>				XEDS	Coatzacoalcos, Ver.	250	IV	XEDR	Coatzacoalcos, Ver.	250	IV	XERH	Mexico, D. F.	400 500	III-B
<b>1010 KILOCYCLES</b>				XEDT	Coatzacoalcos, Ver.	250	IV	XEDS	Coatzacoalcos, Ver.	250	IV	<b>1570 KILOCYCLES</b>			
<b>1020 KILOCYCLES</b>				XEDU	Coatzacoalcos, Ver.	250	IV	XEDT	Coatzacoalcos, Ver.	250	IV	XEAW	Reynosa, Tams.	100,000	I-A
<b>1030 KILOCYCLES</b>				XEDV	Coatzacoalcos, Ver.	250	IV	XEDU	Coatzacoalcos, Ver.	250	IV	<b>1590 KILOCYCLES</b>			
<b>1040 KILOCYCLES</b>				XEDW	Coatzacoalcos, Ver.	250	IV	XEDV	Coatzacoalcos, Ver.	250	IV	XEMC	Mexico, D. F.	200 5,000	III-A
<b>1050 KILOCYCLES</b>				XEDX	Coatzacoalcos, Ver.	250	IV	XEDW	Coatzacoalcos, Ver.	250	IV	<b>1600 KILOCYCLES</b>			
<b>1060 KILOCYCLES</b>				XEDY	Coatzacoalcos, Ver.	250	IV	XEDX	Coatzacoalcos, Ver.	250	IV	<b>1610 KILOCYCLES</b>			
<b>1070 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDY	Coatzacoalcos, Ver.	250	IV	<b>1620 KILOCYCLES</b>			
<b>1080 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1630 KILOCYCLES</b>			
<b>1090 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1640 KILOCYCLES</b>			
<b>1100 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1650 KILOCYCLES</b>			
<b>1110 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1660 KILOCYCLES</b>			
<b>1120 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1670 KILOCYCLES</b>			
<b>1130 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1680 KILOCYCLES</b>			
<b>1140 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1690 KILOCYCLES</b>			
<b>1150 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1700 KILOCYCLES</b>			
<b>1160 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1710 KILOCYCLES</b>			
<b>1170 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1720 KILOCYCLES</b>			
<b>1180 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1730 KILOCYCLES</b>			
<b>1190 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1740 KILOCYCLES</b>			
<b>1200 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1750 KILOCYCLES</b>			
<b>1210 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1760 KILOCYCLES</b>			
<b>1220 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1770 KILOCYCLES</b>			
<b>1230 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1780 KILOCYCLES</b>			
<b>1240 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1790 KILOCYCLES</b>			
<b>1250 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1800 KILOCYCLES</b>			
<b>1260 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1810 KILOCYCLES</b>			
<b>1270 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1820 KILOCYCLES</b>			
<b>1280 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1830 KILOCYCLES</b>			
<b>1290 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1840 KILOCYCLES</b>			
<b>1300 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1850 KILOCYCLES</b>			
<b>1310 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1860 KILOCYCLES</b>			
<b>1320 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1870 KILOCYCLES</b>			
<b>1330 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1880 KILOCYCLES</b>			
<b>1340 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1890 KILOCYCLES</b>			
<b>1350 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1900 KILOCYCLES</b>			
<b>1360 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1910 KILOCYCLES</b>			
<b>1370 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1920 KILOCYCLES</b>			
<b>1380 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1930 KILOCYCLES</b>			
<b>1390 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1940 KILOCYCLES</b>			
<b>1400 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1950 KILOCYCLES</b>			
<b>1410 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1960 KILOCYCLES</b>			
<b>1420 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1970 KILOCYCLES</b>			
<b>1430 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1980 KILOCYCLES</b>			
<b>1440 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>1990 KILOCYCLES</b>			
<b>1450 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>2000 KILOCYCLES</b>			
<b>1460 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250	IV	XEDZ	Coatzacoalcos, Ver.	250	IV	<b>2010 KILOCYCLES</b>			
<b>1470 KILOCYCLES</b>				XEDZ	Coatzacoalcos, Ver.	250									

# Log of Cuban Broadcast Stations

Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty  
Including Assignments to Haiti and the Dominican Republic  
(As Approved by the Respective Governments)

## ABBREVIATIONS

†—Present Authorized Power. D—Daytime. N—Night time. ST—Shares Time. DA—Directional Antenna.

Call Letters	City	Power in Watts	Class	Call Letters	City	Power in Watts	Class	Call Letters	City	Power in Watts	Class	Call Letters	City	Power in Watts	Class
CMW	Havana	550 KC. 2,500	III-A	CMKS*	Guantanamo	900 KC. 250	II	CMJM	Ciego de Avila	1270 KC. 1,000	II	CMKZ	Palma Soriano	1430 KC. 250	IV
CMKM	Manzanillo	560 KC. 250	IV	CMCF	Havana	910 KC. 5,000	III-A	CMHA	Sagua la Grande	1280 KC. 250	IV	CMGH	Matanzas	1440 KC. 1500	III-A
CHMI	Santa Clara	570 KC. 10,000 15,000	II DA	CMJL	Camaguey	920 KC. 5,000	III-A (Reserved)**	CMCH	Havana	1290 KC. 250	IV	CMJI	Ciego de Avila	1450 KC. 250	IV
CMCY	Havana	590 KC. 15,000	II DA	CMKN	Santiago de Cuba	930 KC. 1,000	III-A	CMCX	Havana	ST-CMCX 250	IV	CMAB	Pinar del Rio	1450 KC. 250	IV
CMKV	Holguin	600 KC. 1,000	III-A	CMBZ	Havana	950 KC. 5,000-D 1,000-N	III-A	CMKD	Santiago de Cuba	ST-CMCH 1,800	III-A	CMHM	Cien Fuegos	1460 KC. 250	IV
CMJK	Camaguey	620 KC. 250	IV	CMHN	Santa Clara	960 KC. 1,000	III-A (Reserved)**	CMAN	Pinar del Rio	1300 KC. 1,000	III-A	CMCG	Havana	1470 KC. 250	II
CMZ	Havana	630 KC. 15,000	II DA	CMKU	Santiago de Cuba	970 KC. 5,000	III-A (Reserved)**	CMJF	Camaguey	250	IV	CMKQ	Santiago de Cuba	500	III-B
CMQ	Havana	690 KC. 25,000-D 15,000-N	II DA	CMCK	Havana	980 KC. 5,000	III-A	CMGN	Jovellanos	1310 KC. 1,000	III-A	CMGE	Cardenas	250	IV
This assignment of 25 kw. day and 15 kw. with directional antenna at night at Havana is accepted by Canada only on the distinct understanding that the directional antenna used protects the Canadian I-A assignment strictly within the provisions of the NARB Agreement, failing which the night power must be reduced to effect such protection.				CMHT	Trinidad	990 KC. 250	II	CMHP	Placetatas	250	IV	CMJX	Ciego de Avila	1480 KC. 250	IV
CMK	Havana	740 KC. 250	II	CMKW	Santiago de Cuba	1000 KC. 1,000	II	CMKE	Manzanillo	250	IV	CMHX	Santa Clara	1490 KC. 250	IV
CMJN	Camaguey	790 KC. 1,000	II	CMX	Havana	1010 KC. 10,000	I-B DA	CMBG	Havana	1330 KC. 1,500	III-A	CMOX	Havana	250	IV
CMBC	Havana	800 KC. 5,000-D 1,000-N	III-A	CMKG*	Santiago de Cuba	1050 KC. 250	II	CMBS	Havana	ST-CMBS 250	IV	CMCA	Havana	ST-CMCA 250	IV
CMHQ	Santa Clara	810 KC. 5,000	II DA (Reserved)**	CMJ*	Camaguey	1060 KC. 250	II	CMCBG	Havana	ST-CMGBG 250	IV	CMKF	Holguin	250	IV
CMAX	Artemisa	830 KC. 250-D (Reserved)**	II DA	CMKX*	Banes	1090 KC. 250	II	CMJC	Camaguey	1340 KC. 250	IV	CMBH	Havana	1540 KC. 5,000	II
Assignment of 250 w. Class II station daytime only at Havana on a clear channel assigned to a Class I-A station in the U. S., acceptable to the U. S. without regard to signal of more than 5 uv. daytime only at the nearest border.				CMBY*	Havana	1110 KC. 250-D	II	CMHJ	Cien Fuegos	1350 KC. 250	IV	CMHD	Caibarien	1560 KC. 1,250 1,000	II
CMBL	Havana	860 KC. 5,000	II DA	CMKH*	Guantanamo	1130 KC. 250	II	CMKY	Puerto Padre	100	IV	CMCJ	Havana	1580 KC. 250	IV
This assignment is accepted by Canada provided that the directional antenna used protects the Canadian I-A assignment as required by the terms of the NARB Agreement, failing which the night power must be reduced to effect such protection.				CMKQ*	Holguin	1150 KC. 250	II	CMC	Havana	1360 KC. 250	IV	CMCR	Havana	ST-CMCR 250	IV
CMCO	Havana	1230 KC. 250	IV	CMBQ	Havana	1190 KC. 5,000-D 1,000-N	III-A	CMOA	Havana	ST-CMOA 250	IV	CMCJQ	Neuvas	ST-CMCJ 250	IV
CMCW	Havana	250	IV	CMCU*	Havana	1220 KC. 250	II	CMAC	Guanajay	1370 KC. 100	IV	<b>DOMINICAN REPUBLIC</b>			
CMJE	Camaguey	250	IV	CMKO*	Holguin	1250 KC. 250	II	CMJH	Ciego de Avila	250	IV				
CMGF	Matanzas	1240 KC. 250	IV	CMCO	Havana	1230 KC. 250	IV	CMHK	Cruces	1380 KC. 250	IV	HIX	Ciudad Trujillo	950 KC. 1,000	III-A
CMHO	Santa Clara	1250 KC. 250	IV	CMCW	Havana	250	IV	CMCB	Havana	1390 KC. 250	IV	HIN	Ciudad Trujillo	1090 KC. 150	II
CMKC	Santiago de Cuba	250	IV	CMJE	Camaguey	250	IV	CMCBX	Havana	ST-CMCB 250	IV	HIZ	Ciudad Trujillo	1350 KC. 200	IV
CMBF	Havana	1260 KC. 5,000	III-A	CMJE	Camaguey	250	IV	CMKR	Santiago de Cuba	250	IV	HI8Q	Ciudad Trujillo	1470 KC. 25	IV
				CMGF	Matanzas	1240 KC. 250	IV	CMJW	Camaguey	1400 KC. 250	IV	<b>HAITI</b>			
				CMHO	Santa Clara	1250 KC. 250	IV	CMHB	Sancti Spiritus	1410 KC. 250	IV				
				CMKC	Santiago de Cuba	250	IV	CMBD	Havana	1420 KC. 1,250	IV	HHK	Leogane	1080 KC. 25,000	II DA
				CMBF	Havana	1260 KC. 5,000	III-A	CMCQ	Havana	ST-CMCQ 5,000	III-A	HHW	Port au Prince	1230 KC. 100	IV

Assignments acceptable without regard to slight daytime interference with WKAT, 1 kw., Class III-B station at Miami, Fla. If more than 250 w power is proposed at any time, operation with a directional antenna or a different frequency assignment to be required giving protection to the U. S. stations in accordance with the engineering standards of the Treaty.

\* This 250 w. Class II assignment acceptable to U. S. (or other affected nations) without directional antenna unless interference results with secondary service of the Class I station on channel. If interference exists or the power is increased above 250 w., directional antenna to protect Class I stations in accordance with the engineering standards of the Treaty to be required.

\*\* The term "reserved" is understood to mean that the Cuban government intends placing stations designated on the channels mentioned.

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# Definitions of Station Classes Under The Reallocation

As Contained in North American Broadcasting Agreement (Havana Treaty)

C—Classes of Stations and Use of The Several Classes of Channels

1. *Classes of stations*—Broadcast stations are divided into four principal classes, to be designated Class I, Class II, Class III, and Class IV, respectively.

2. *Definitions of classes*—The four classes of broadcast stations are defined as follows:

*Class I:* A dominant station operating on a clear channel and designed to render primary and secondary service over an extended area and at relatively long distances. Class I stations are subdivided into two classes:

*Class I-A:* A Class I station which operates with power of 50 kw or more and which has its primary service area, within the limits of the country in which the station is located, free from objectionable interference from other stations on the same and adjacent channels, and its secondary service area, within the same limits, free from objectionable interference from stations on the same channel, in accordance with the engineering standards hereinafter set forth.

*Class I-B:* A Class I station which operates with power of not less than 10 kw or more than 50 kw and which has its primary service area free from objectionable interference from other stations on the same and adjacent channels and its secondary service area free from objectionable interference from stations on the same channel, in accordance with the engineering standards hereinafter set forth.

(a) When two Class I-B stations on the same channel are separated by a distance of 2800 miles or more, neither station shall be required to install a directional antenna.

(b) When two Class I-B stations on the same channel are separated by a distance of more than 1800 miles

and less than 2800 miles, it will, in the absence of proof to the contrary, be assumed that each station is free of objectionable interference caused by the other and neither shall be required to install directional antennae or take other precautions to avoid such interference. In case the existence of objectionable interference is proved, the governments concerned will consult with each other regarding the desirability and practicability of installation of directional antennae or the taking of other precautions to eliminate the interference and will determine by special arrangement the measures, if any, to be taken.

(c) When two Class I-B stations on the same channel are separated by a distance of less than 1800 miles, it will, in the absence of proof to the contrary, be assumed that the installation of directional antennae or the taking of other precautions to avoid interference is necessary, and the governments concerned will consult with each other and will take such measures as may be agreed upon between them to the end that the objectionable interference may be reduced or eliminated.

*Class II:* A "secondary" station which operates on a clear channel and is designed to render service over a primary service area which, depending on geographical location and power used, may be relatively large, but which is limited by and subject to such interference as may be received from Class I stations. A station of this class shall operate with power of not less than 0.25 kw. or more than 50 kw. Whenever necessary a Class II station shall use a directional antenna or other means to avoid interference, in accordance with the engineering standards hereinafter set forth, with Class I stations and with other Class II stations.

*Class III:* A station which operates on a regional channel and is designed to render service primarily to a metropolitan district and the rural area contained therein and contiguous thereto. Class III stations are subdivided into two classes:

*Class III-A:* A Class III station which operates with power not less than one kilowatt or more than five kilowatts and the service area of which is subject to interference in accordance with the engineering standards hereinafter set forth.

*Class III-B:* A Class III station which operates with a power not less than 0.5 kw or more than 1 kw night and 5 kw daytime and the service area of which is subject to interference in accord with the engineering standards hereinafter set forth.

*Class IV:* A station using a local channel and designed to render service primarily to a city or town and the suburban and rural areas contiguous thereto. The power of a station of this class shall not be less than 0.1 kw or more than 0.25 kw and its service area is subject to interference in accord with the engineering standards hereinafter set forth.

3. *Change of class*—If a station or stations in Class III-B located in any country can, through the use of directional antennae or otherwise, so reduce the interference caused or received by such station or stations to the field contour to which interference to stations in Class III-A is allowed, such station or stations shall automatically be classified and included in Class III-A and shall thereafter be so recognized and treated by the Administrations of all countries within the Region.

4. *Use of clear channels:*

(a) In principle and subject only to the exception hereinafter set forth,

Class I stations shall be assigned only to clear channels.

(b) Class II stations may be assigned to clear channels only on condition that objectionable interference will not be caused to any Class I stations. Where any country has priority of use of a clear channel for any class I-A station, no other country shall assign any Class II station to that channel for nighttime operation (from sunset to sunrise at the location of the Class II station) unless such Class II station is located not less than 650 miles from the nearest border of the country in which the Class I-A station is located; provided, however, that where an assignment for a Class II station is specifically stated in Appendix I, such assignment shall be deemed as authorized under the limitations therein set forth.

5. *Use of regional channels:*

(a) In general only Class III-A and Class III-B stations shall be assigned to regional channels.

(b) On condition that interference be not caused to any Class III-A or Class III-B station, and subject to such interference as may be received from Class III-A or Class III-B stations, Class IV stations may be assigned to regional channels.

(c) Because of their geographical location with respect to the North American continent, special consideration will be given to the use by Cuba, the Dominion Republic, Haiti and Newfoundland of stations of Classes I and II assigned to certain regional channels under certain conditions, with respect to power and precautions to avoid objectionable interference as set forth in Appendix VII.

6. *Use of local channels*—Only Class IV stations shall be assigned to local channels.

McNARY & CHAMBERS

Radio Engineers

Washington, D. C.

National Press Building

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Consulting Radio Engineers

WASHINGTON, D. C.

**STANDARDS OF GOOD ENGINEERING PRACTICE  
CONCERNING STANDARD BROADCAST STATIONS**  
(550-1600 kc.)

**1. ENGINEERING STANDARDS OF ALLOCATION**

Section 3.28 requires that individual broadcast station assignments shall be made in accordance with the standards of good engineering practice prescribed and published by the Commission. These standards are set out below.

Sections 3.21 to 3.34, inclusive, in

**STANDARDS OF GOOD ENGINEERING PRACTICE  
CONCERNING HIGH FREQUENCY BROADCAST STATIONS**  
(43,000-50,000 kc.)

**1. ENGINEERING STANDARDS OF ALLOCATION**

(a) Section 3.225 prescribes three groups of channels for the use of high frequency broadcast stations. The stations within each group of channels have a specific purpose in the plan of allocation and provide a service to a particular type of area. Section 3.222 of the rules requires that high frequency broadcast stations be licensed on the basis of an area in square miles in the service area and that the contour be within 40 miles in the service area.

# STANDARDS

..... Their proper interpretation with respect to any broadcast problem suggests the use of an organization offering a complete radio engineering service backed by years of extensive training, research and experience.

..... The objective of Jansky & Bailey Engineering is to produce the fundamental facts essential to the most effective use of broadcasting as a medium for public service.

## **JANSKY & BAILEY**

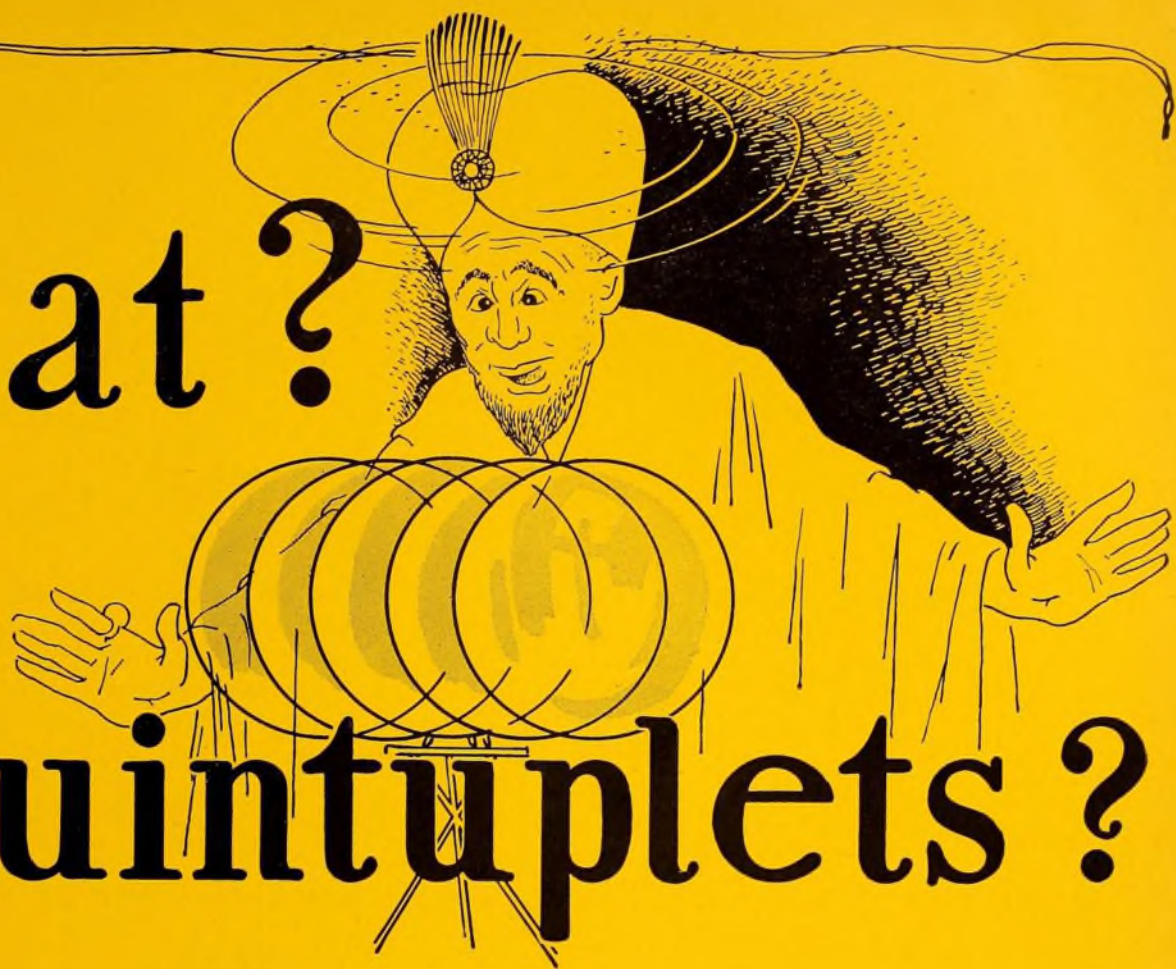
Consulting Radio Engineers

National Press Bldg.

Washington, D. C.



# What?



# Quintuplets?

**Al-haak, 'tis enough to make the Swami's head swim. He sees not one survey . . . but five! And, miracle of miracles, five surveys with but a single thought. Waka, such wonders come only with the grace of Allah.**

**Dear reader, would you, too, know the amazing truths that the Swami unfolds? Then gaze deeply . . .**



**Transcription Firm Survey:** 1,000 national advertisers and agency executives selected at random from McKittrick's. BROADCASTING received nearly as many votes as choices two, three, four, five and six combined.\*



**West Coast Station Survey:** Agency men coast to coast asked which of 12 advertising trade publications are best bets for station promotion. BROADCASTING voted no. 1.\*



**Station Representative Survey:** Agency executives were asked which of three leading advertising trade publications carrying this representative's ad was best read. BROADCASTING tops again.\*



**Midwest Station Survey:** Top-flight agency radio executives were asked in which of seven advertising trade papers "our ads would be seen by you." BROADCASTING led the field.\*



**Eastern Stations Survey:** 160 agency executives were asked which publications they would use if they were buying trade paper space for a station. Nine trade magazines listed. BROADCASTING way on top.\*

*\* The Swami will show you more, too.*



# Radio Answers the Call of Total Defense

With characteristic speed, radio is responding to the call of national defense. Enrolled to serve the public interest and to fortify the Nation's invisible life-lines of communication are: Research, Engineering, Manufacturing, Broadcasting, International Circuits, Ship-and-Shore Stations. The Radio Corporation of America was organized in 1919, as an American-owned,

American-controlled radio company. RCA has established a world-wide communications system, independent of all foreign interests, and has pioneered in the creation and development of a new art and a new industry. Today, each of its services is equipped and ready for action in the first line of America's total defense on land, sea, and in the air.

## RCA CALLS THE ROLL OF ITS SERVICES TO THE NATION:

### WORLD-WIDE COMMUNICATIONS

Vital to defense and commerce, RCA operates 24-hour direct communication service to 43 countries. This service avoids the censorship, errors, and delays which might occur at relay points. The Nation is protected against the loss of overseas communications through the cutting of submarine cables in war-time. Supplementing these globe-girdling channels, RCA operates a domestic radiotelegraph system that links 12 key cities in the United States.

### MARINE COMMUNICATIONS

Life and property at sea are guarded by modern radio coastal stations and radio-equipped ships. Eighteen hundred American ships are equipped with RCA apparatus. The shore-lines of the United States are fringed with radio beacon transmitters to guide the fleet and shipping in American waters. American ships do not have to depend upon foreign-controlled means of communication to send messages home.

### BROADCASTING

RCA pioneered in establishing the first nation-wide network of broadcasting. The National Broadcasting Company, formed in 1926, today serves an American radio audience through 50,000,000 receiving sets. NBC provides these listeners with serious and popular music, news and information, drama and education, public forums and religious services. Under the American system of broadcasting, the finest and most

extensive variety of programs to be had anywhere in the world is free to the listening public. *The richest man cannot buy what the poorest man gets free by radio.*

NBC broadcasting service is also maintained internationally, by short wave, and helps to strengthen good-will and cultural and economic relations between the Americas, and with other parts of the world.

An informed public opinion, promoted by a free press and a free system of broadcasting, is a highly important national asset in total defense.

### MANUFACTURING

The RCA Manufacturing Company operates five plants, strategically located at Camden and Harrison, N. J., Indianapolis and Bloomington, Ind., and Hollywood, California. Within the year the company has invested millions of dollars in expansion to facilitate production and rapid filling of orders from the Army and Navy. Machinery is geared for national defense in addition to providing for normal requirements of the public.

### RESEARCH AND ENGINEERING

Through science and research, the RCA Laboratories are enrolled in the national defense. Research in electronics, wave propagation, television, facsimile, acoustics, optics, and in other fields has opened new services and extended the scope of existing services, both commercial and military.

No longer must an aviator "just look to the ground" to find his way to a target or to his base. He may fly

and land "blind" by radio. The electron microscope, a product of RCA Laboratories, is a new means to help protect the national welfare as it opens new horizons for bacteriologist, chemist, physicist and industrialist. In these and many other ways, radio research in peace-time has built new bulwarks of defense for our Nation.

### INVENTIONS AND THEIR USE

RCA licenses many other manufacturers to use its inventions and patents. By making them widely available, RCA has helped to create an industry as well as an art.

Through this licensing policy the radio industry has access to results of the research of RCA Laboratories. In this way, competition has been stimulated, and numerous sources of supply opened to the public and the Government.

### EMPLOYEES

Labor relations between RCA and its employees are excellent. Employment in the RCA organization in 1940 increased from 22,000 to 27,000 employees. Principal officers and many employees of RCA are members of the Army and Navy Reserves.

For 21 years the pioneering efforts and services of RCA have safeguarded American preeminence in radio. *RCA continues to serve the public interest and is fully prepared and ready to carry on in the first line of total defense!*

# RADIO CORPORATION of AMERICA

RADIO CITY  NEW YORK

THE SERVICES OF RCA: RCA MANUFACTURING COMPANY, INC. RADIOMARINE CORPORATION OF AMERICA RCA LABORATORIES  
NATIONAL BROADCASTING COMPANY, INC. R. C. A. COMMUNICATIONS, INC. RCA INSTITUTES, INC.