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THE N A B CODE

ADOPTED BY THE 17th ANNUAL CONVENTION OF THE NAB

JULY 11, 1939

(Amended April 28, 1943)

RECOGNIZING the importance of radio broadcasting in the national life and believing that broadcasters have sufficient experience with the social side of the industry to formulate basic standards for the guidance of all, the National Association of Broadcasters hereby formulates the following revised Code:

Children's Programs

Programs designed specifically for children reach impressionable minds and influence social attitudes, aptitudes and approaches and, therefore, they require the closest supervision of broadcasters in the selection and control of material, characterization and plot.

This does not mean that the vigor and vitality common to a child's imagination and love of adventure should be removed. It does mean that programs should be based upon sound social concepts and presented with a superior degree of craftsmanship; that these programs should reflect respect for parents, adult authority, law and order, clean living, high morals, fair play and honorable behavior. Such programs must not contain sequences involving horror or torture or use of the supernatural or superstitious or any other material which might reasonably be regarded as likely to overstimulate the child listener, or be prejudicial to sound character development. No advertising appeal which would encourage activities of a dangerous social nature will be permitted.

To establish acceptable and improving standards for children's programs, the National Association of Broadcasters will continuously engage in studies and consultations with parent and child study groups. The results of these studies will be made available for application to all children's programs.

Controversial Public Issues

As part of their public service, networks and stations shall provide time for the presentation of public questions including those of controversial nature. Such time shall be allotted with due regard to all the other elements of balanced program schedules and to the degree of public interest in the questions to be presented. Broadcasters shall use their best efforts to allot such time with fairness to all elements in a given controversy.

Time for the presentation of controversial issues shall not be sold, except for political broadcasts. There are three fundamental reasons for this refusal to sell time for public discussion and, in its stead, providing time for it without charge. First, it is a public duty of broadcasters to bring such discussion to the radio audience regardless of the willingness of others to

pay for it. Second, should time be sold for the discussion of controversial issues, it would have to be sold, in fairness, to all with the ability and desire to buy at any given time. Consequently, all possibility of regulating the amount of discussion on the air in proportion to other elements of properly balanced programming or of allotting the available periods with due regard to listener interest in the topics to be discussed would be surrendered. Third, and by far the most important, should time be sold for the discussion of controversial public issues and for the propagation of the views of individuals or groups, a powerful public forum would inevitably gravitate almost wholly into the hands of those with the greater means to buy it.

The political broadcasts excepted above are any broadcasts in connection with a political campaign in behalf of or against the candidacy of a legally qualified candidate for nomination or election to public office, or in behalf of or against a public proposal which is subject to ballot. This exception is made because at certain times the contending parties want to use and are entitled to use more time than broadcasters could possibly afford to give away.

Nothing in the prohibition against selling time for the presentation of controversial public issues shall be interpreted as barring sponsorship of the public forum type of program when such a program is regularly presented as a series of fair-sided discussions of public issues and when control of the fairness of the program rests wholly with the broadcasting station or network.

Educational Broadcasting

While all radio programs possess some educative values, broadcasters nevertheless desire to be of assistance in helping toward more specific educational efforts, and will continue to use their time and facilities to that end and, in cooperation with appropriate groups, will continue their search for improving applications of radio as an educational adjunct.

News

News shall be presented with fairness and accuracy and the broadcasting station or network shall satisfy itself that the arrangements made for obtaining news insure this result. Since the number of broadcasting channels is limited, news broadcasts shall not be editorial. This means that news shall not be selected for the purpose of furthering or hindering either side of any controversial public issue nor shall it be colored by the opinions or desires of the station or network management, the editor or others engaged in its preparation or the person actually delivering it over the air, or, in the case of sponsored news broadcasts, the advertiser.

The fundamental purpose of news dissemination in a democracy is to enable people to know what is happening and to understand the meaning of events so that they may form their own conclusions and, therefore, nothing in the foregoing shall be understood as preventing news broadcasters from analyzing and elucidating news so long as such analysis and elucidation are free of bias.

News commentators as well as all other newscasters shall be governed by these provisions.

Religious Broadcasts

Radio, which reaches men of all creeds and races simultaneously, may not be used to convey attacks upon another's race or religion. Rather it

should be the purpose of the religious broadcast to promote the spiritual harmony and understanding of mankind and to administer broadly to the varied religious needs of the community.

Solicitation of Memberships

Solicitations of memberships in organizations, except where such memberships are incidental to the rendering of commercial services such as an insurance plan either in respect to casualty to life or property, or for membership in the American Red Cross or like organizations engaged in charitable work, are deemed to be unacceptable under the basic theory of the Code and therefore time should be neither given nor sold for this purpose.

Commercial Programs and Length of Commercial Copy

Acceptance of programs and announcements shall be limited to products and services offered by individuals and firms engaged in legitimate commerce; whose products, services, radio advertising, testimonials and other statements, comply with pertinent legal requirements, fair trade practices and acceptable standards of good taste.

Brief handling of commercial copy is recommended procedure.

Member stations shall hold the length of commercial copy, including that devoted to contests and offers, to the following number of minutes and seconds:

Daytime

Five-minute programs	2:00
*Five-minute news programs	1:45
Ten-minute programs	2:30
Fifteen-minute programs	3:15
Twenty-five-minute programs	4:15
Thirty-minute programs	4:30
Sixty-minute programs	9:00

Night-time

Five-minute programs	1:45
*Five-minute news programs	1:30
Ten-minute programs	2:00
Fifteen-minute programs	2:30
Twenty-five-minute programs	2:45
Thirty-minute programs	3:00
Sixty-minute programs	6:00

Exceptions:

The above limitations do not apply to participation programs, announcement programs, "musical clocks," shoppers' guides and local programs falling within these general classifications.

Because of the varying economic and social conditions throughout the United States, members of the NAB shall have the right to present to the NAB for special ruling local situations which in the opinion of the member may justify exceptions to the above prescribed limitations.

* Further restriction by individual stations is recommended.

Resolution



Adopted by the 17th Annual Convention
National Association of Broadcasters



To clarify the phrase "Accepted Standards of Good Taste," and the canons of good practice set forth in the NAB Code, therefore be it RESOLVED:

That member stations shall not accept for advertising:

1. Any spirituous or "hard" liquor.
2. Any remedy or other product the sale of which or the method of sale of which constitutes a violation of law.
3. Any fortune-telling, mind-reading, or character-reading, by handwriting, numerology, palm-reading, or astrology, or advertising related thereto.
4. Schools that offer questionable or untrue promises of employment as inducements for enrollment.
5. Matrimonial agencies.
6. Offers of "homework" except by firms of unquestioned responsibility.
7. Any "dopester," tip-sheet or race track publications.
8. All forms of speculative finance. Before member stations may accept any financial advertising, it shall be fully ascertained that such advertising and such advertised services comply with all pertinent federal, state and local laws.
9. Cures and products claiming to cure.
10. Advertising statements or claims member stations know to be false, deceptive or grossly exaggerated.
11. Continuity which describes, repellently, any functions or symptomatic results of disturbances, or relief granted such disturbances through use of any product.
12. Unfair attacks upon competitors, competing products, or upon other industries, professions or institutions.
13. Misleading statements of price or value, or misleading comparisons of price or value.

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120 S. LaSalle St., Chicago 3, Ill.
Randolph 8460

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FUNCTIONS

The purpose of the society is to increase and diffuse the knowledge of acoustics and promote its practical applications.

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45 W. 47th St., New York, N. Y.
BRyant 9-3550

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San Francisco: Theodore Hale, 26 O'Farrell Street.
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Advertising Federation of America

330 West 42nd St., New York, N. Y.
BRyant 9-0430

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FUNCTIONS

To provide a common forum and a central medium for cooperative effort on behalf of all individuals and groups interested in advertising.

To elevate the standards of advertising practice and to combat any unfair competitive methods in its sale.

To help increase the effectiveness of advertising as an instrument of distribution, with its resulting benefits to business and the general public.

To determine and disseminate more accurate knowledge of the functions of advertising in business, and its social and economic values.

To aid in raising the standards of education and training for advertising practitioners.

Advertising Research Foundation

330 West 42nd St., New York, N. Y.
Longacre 3-1454

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Agricultural Marketing Service— Radio & Market News Section

Washington 25, D. C.
Republic 414—Extension 6373, 5707

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Chief, Radio Unit.....Bernard W. Molohon

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CHICAGO: 5 So. Wabash Ave.; Don E. Rogers, Regional Chief; J. D. Tonkin, Chief, Radio & Market News.

ATLANTA: Western Union Bldg., W. V. Wyatt, Regional Chief.

NEW YORK: 150 Broadway, F. E. Robinson, Regional Chief; Donald G. Lerch, Chief, Radio & Market News.

SAN FRANCISCO: 821 Market St., J. D. Walsh, Regional Chief.

DENVER: Room 420, 1536 Walton St.; A. M. Trachman, Regional Chief.

DALLAS: 425 Wilson Bldg.; Meno Schoenbach, Regional Chief.

FUNCTIONS AND ACTIVITIES

This Section is responsible for all radio dissemination through national, regional and local programs of information from the Food Distribution Administration on Food Orders, Nutrition, Conservation, School Lunch, all phases of Lend-Lease activities concerning food, and farm market reports. It issues "Radio Round-Up On Food" for Women's Program Directors, and in 20 cities issues Waitime Food Bulletins for use over local stations. Also prepares daily or weekly material for U. P., P. A. and I. N. S. radio wires. Writes and co-produces "Consumer Time," weekly broadcast over NBC now in its 11th year.

American Assn. of Adv. Agencies (AAAA)

420 Lexington Ave., New York, N. Y.
Lexington 2-7980

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The American Association of Advertising Agencies was formed in 1917 by the amalgamation of the New England, New York, Philadelphia, Southern and Western Advertising Agency Associations—to promote the interests and raise the standards of advertising and of the advertising agency business.

It welcomes to membership any advertising agency qualified to aid in this purpose by reason of its ability to serve the cause of advertising, its financial soundness and its demonstrated desire to adhere to sound and ethical business practices.

The aims of the Association are partly ethical and partly economic. It is a professional body and also a trade association. It aims to raise standards, to improve technique, to ascertain values, to safeguard relations, and to cooperate with other organized effort in related fields.

One of the major aims of the Association is to keep advertising agency practice on a high level, in order that it may be most useful to the advertiser, most helpful to the publisher and respected by business men.

Early in its career the Association adopted for the guidance of its members two official statements. One is entitled "Agency Service Standards," in which agency service is defined, so that advertisers and publishers may know what to expect and agencies may know what should be required of them, thus discouraging the incompetent and encouraging those equipped to render effective service.

The other statement, entitled "Standards of Practice," deals with agency relations with media, clients and the public, with fair and ethical agency competition, and other professional ethics.

American Bar Association (Standing Committee on Communications)

Office of the Chairman: 921 Tower Bldg.
Washington, D. C.
Phone District 2141

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FUNCTIONS

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American Communications Association (C. I. O.)

5 Beekman St., New York, N. Y.
COrtlandt 7-1374

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American Council on Education

744 Jackson Place, Washington, D. C.
National 5691

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FUNCTIONS

This Council's purpose is to advance American education through comprehensive voluntary, cooperative action on the part of educational associations, organizations and institutions, through the promotion, initiation and administration of systematic studies, cooperative experiments, and conferences.

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570 Lexington Ave., New York 22, N. Y.
PLaza 8-0600

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American Federation of Radio Artists (AFRA)

2 West 45th St., New York, N. Y.
Vanderbilt 6-1810

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BRANCH OFFICES

Chicago Local—540 North Michigan Avenue, Chicago, Ill.; Hy Faine, Executive Secretary; Phone, Superior 6517.

Los Angeles Local—6331 Hollywood Boulevard, Hollywood, Calif.; Claude McCue, Executive Secretary; Phone, Hillside, 5121.

San Francisco Local—26 O'Farrell Street, San Francisco, California; Phone, Sutter 3196, San Francisco, California.

Cincinnati Local—Box 14, Cincinnati, Ohio.

Montreal Local—1126 St. Catherine St., West Montreal, Canada.

Detroit Local—717 Penobscott Bldg., Detroit, Mich.

St. Louis Local—4317 Lindell Blvd., St. Louis, Mo.

Miami Local—Box 85, Miami, Fla.

Denver Local—4231 West 32nd St., Denver, Colo.

Racine Local—804 Hamilton St., Racine, Wisc.

Cleveland Local—224 Chester-12th Bldg., Cleveland, Ohio.

Washington Local—P. O. Box No. 269, Washington, D. C.

Pittsburgh Local—720 Grant Bldg.

Portland Local—P. O. Box No. 263, Portland, Ore.

Dallas Local—P. O. Box 2181, Dallas, Texas.

Other locals located in Des Moines, Ia.; Philadelphia, Pa.; Schenectady, N. Y.; Boston, Mass.; Birmingham, Ala.; Shreveport, La.; Charlotte, N. C.; Rochester, N. Y.; Baltimore, Md.; San Diego, Calif.; Fresno, Calif.; Lawrence, Mass.; Grand Rapids, Mich.

American Guild of Musical Artists, Inc. (A. F. L.)

2 West 45th St., New York, N. Y.
 Murray Hill 2-5644

OFFICERS

President.....Lawrence Tibbett
 First Vice-President.....Richard Bonelli
 Second Vice-President.....Walter Golde
 Third Vice-President.....Jose Iturbi
 Fourth Vice-President.....Eugene Conley
 Fifth Vice-President.....Helen Jepson
 Recording Secretary.....Elizabeth Hoeppel
 Treasurer.....Frederick Jagel
 Executive Secretary.....Blanche Witherspoon
 Counsel.....Jaffe & Jaffe

BOARD OF GOVERNORS

Paul Althouse, Zlatko Balokovic, Michael Bartlett, Ruthanna Boris, Ruth Breton, John Brownlee, George Cehanovsky, Norman Cordon, Muriel Dickson, Ralph Erroe, Claudio Frigerio, Coe Glade, Herbert Graf, Roland Guerdard, Edward Harris, Jascha Heifetz, Julius Huehn, Alexander Kipnis, Charles Kulman, James Melton, Helen Olheim, Alexander Smallens, Georgia Standing, Anthony Strivanello, Gladys Swarthcut, Conrad Thibault, Kerstin Thorborg.

BRANCH OFFICES

Hollywood: 7046 Hollywood Blvd.—Phone, Hollywood 7311; Chicago: 540 N. Michigan Blvd.—Phone, Superior 6517.

FUNCTIONS

AGMA is a union whose purpose is to bargain collectively on behalf of its members and to deal with employers, contractors, managers, impresarios, agents and others whose activities affect its members. AGMA is a branch of the AAAA and is a sister union of the American Federation of Radio Artists.

American Marketing Association

Address individual officers

OFFICERS

President.....Albert Haring
 (Indiana University)
 1st Vice-President.....Wroe Alderson
 (Curtis Publishing Co.)
 2nd Vice-President.....Philip Salisbury
 (Sales Management)
 Treasurer.....Howard Whipple Green
 (Real Property Inv. of Metro Cleveland)
 Secretary.....Ross M. Cunningham
 (Massachusetts Institute of Technology)
 Editor-in-Chief, Journal of Marketing.....Reavis Cox
 (War Production Board)
 Business Manager, Journal of Marketing, Robert N. King
 (Batten, Barton, Durstine & Osborn)

DIRECTORS

Everett R. Smith, Macfadden Publications, Inc.; Lyman Hill, Servel Corp.; Henry E. Erdman; Virgil Reed, War Production Board.

FUNCTIONS

American Marketing Association is an organization for the study of marketing research.

American Newspaper Publishers Association

370 Lexington Ave., New York 17, N. Y.
 CAledonia 5-2000

OFFICERS

President.....Linwood I. Noyes
 Vice-President.....W. C. Chandler
 Secretary.....Norman Chandler
 Treasurer.....Edwin S. Friendly
 General Manager.....Cranston Williams

FUNCTIONS

To foster and protect the business and business interests of daily newspapers.

American Radio Relay League, Inc.

38 LaSalle Road, West Hartford, Conn.
 Hartford 3-6269

OFFICERS

President.....George W. Bailey
 Vice-President.....Charles E. Blalack
 Managing Secretary.....Keneth B. Warner
 Treasurer.....David H. Houghton
 Acting Communications Manager.....George Hart

FUNCTIONS

The American Radio Relay League is a non-commercial association of radio amateurs, bonded for the promotion of interest in amateur radio communication and experimentation, for the relaying of messages by radio, for the advancement of the radio art and of the public welfare, for the representation of the amateur in legislative matters, and for the maintenance of fraternalism and a high standard of conduct. The League publishes QST, a publication devoted solely to amateur radio, issued monthly. It also publishes The Radio Amateur's Handbook annually and other publications.

American Society of Composers, Authors and Publishers

30 Rockefeller Plaza, New York, N. Y.
Columbus 5-7464

OFFICERS

President..... Deems Taylor
Vice-President..... Gustave Schirmer
Vice-President..... Oscar Hammerstein
Secretary..... George W. Meyer
Treasurer..... Max Dreyfus
Assistant Secretary..... J. J. Bregman
Assistant Treasurer..... Irving Caesar
General Manager..... John G. Paine

BOARD OF DIRECTORS

Fred E. Ahlert, Louis Bernstein, J. J. Bregman,
Saul Bornstein, Gene Buck, Irving Caesar, J. J.
Robbins, John O'Connor, Max Dreyfus, L. Wolfe Gilbert,
Donald Gray, Ray Henderson, A. W. Kramer, R. F.
Murray, Geoffrey O'Hara, Richard Rodgers, Walter
Fischer, Oscar Hammerstein II, Otto A. Harbach, Geo.
W. Meyer, Jack Mills, Gustave Schirmer, Oley Speaks,
Herman Starr, Deems Taylor.

ADMINISTRATIVE OFFICERS

General Manager..... John G. Paine
Assistant General Manager..... Herman Greenberg
Comptroller..... George A. Hoffman
Director of Public & Customer Relations
Robert L. Murray

DIVISION SUPERVISORS

Western District
6331 Hollywood Blvd., Hollywood, Calif.
Supervisor..... Richard J. Powers
Mid-Western District
7 South Dearborn St., Chicago, Ill.
Supervisor..... John C. Wooden
Southern District
607-11 First National Bldg., Atlanta, Ga.
Supervisor..... I. T. Cohen
Eastern District
30 Rockefeller Plaza, New York, N. Y.
Supervisor..... F. C. Erdman

DISTRICT MANAGERS

Western
Larry Shea, 414 Guaranty Bldg., 6331 Hollywood Blvd.,
Hollywood, Calif.
Herman Kenin, 911 Public Service Bldg., Portland, Ore.
Harry G. Ferguson, 1101-2 Security Bldg., Denver, Colo.
H. A. Levinson, Room 422, 111 Sutter Bldg., San
Francisco, Calif.
Mid-Western
ASCAP, 730 Des Moines Bldg., Des Moines, Ia.
Martin Meltzer, 1907 Continental Bldg., 3615 Olive
St., St. Louis, Mo.
E. A. Sherwood, 1515 Midland Bldg., 101 Prospect
Ave., N. W., Cleveland, Ohio.
E. W. Peterson, 912 Northwestern Bank Bldg., Min-
neapolis, Minn.
Messrs. Grosner & Burak, 782-4 Penobscot Bldg., De-
troit, Mich.
Southern
Stanley Shepard, 603 Hibernia Bank Bldg., New Or-
leans, La.
Samuel Feldman, 3910-11 Carew Tower, Cincinnati,
Ohio.
Chas. McDowell, 1613-14 Tower Petroleum Bldg., 1903
Elm St., Dallas, Texas.
Eastern
Samuel Berkett, 44 School St., Boston, Mass.
Arthur L. Rothkranz, 1616 Baltimore Trust Bldg., Bal-
timore, Md.
H. A. Brown, 1638 Lincoln Liberty Bldg., Philadelphia,
Pa.
William J. O'Brien, 509 Grant Bldg., Pittsburgh Pa.
Lawrence B. Schlums, 1140 Lincoln Alliance Bldg.,
Rochester, N. Y.
Aaron Kane, National Newark Bldg., 744 Broad St.,
Newark, N. J.
F. C. Erdman, 30 Rockefeller Pl., New York, N. Y.

FUNCTIONS

ASCAP licenses public performance for profit of
music copyrighted by its members and the members of
many similar societies located in foreign countries.

American Standards Association's War Committee on Replacement Parts for Civilian Radio

29 West 39th St., New York, N. Y.
Phone, Pennsylvania 6-7284

MEMBERS

S. K. Wolf, War Production Board, Chairman; H. P.
Westman, American Standards Association, Secretary;
H. C. Bonfig, Radio Corporation of America; D. F.
Schmit, Radio Corporation of America, Alt.; Dr. L. A.
DuBridge, Massachusetts Institute of Technology; M.
D. McFarlane, Massachusetts Institute of Technology,
Alt.; J. J. Farrell, General Electric Co.; R. J. Biele,
General Electric Co., Alt.; C. H. Crawford, General
Electric Co., Alt.; Dr. Alfred N. Goldsmith, Inst. of
Radio Engineers; Colonel G. C. Irwin, Signal Corps
Standards Agency; Major A. J. Garson, Signal Corps
Standards Agency, Alt.; Lt. Comdr. Paul M. Lion, Navy
Dept., Bureau of Ships; D. G. Little, Westinghouse
Electric & Mfg. Co.; H. L. Spencer, Bendix Aviation
Corp.; H. N. Willets, Western Electric Co.; H. L.
Hamilton, Western Electric Co., Inc., Alt.

FUNCTIONS

This committee was organized at the request of
the Office of Price Administration and War Production
Board to undertake a program of standardization and
simplification of radio replacement parts.

American Television Society

Headquarters: 1140 Broadway, New York 1, N. Y.
CA'edonia 5-7430
Meeting Place: Hotel Capitol, New York, N. Y.

INTERIM COMMITTEE

This group was named late in January to incor-
porate the Society as a membership body under the
New York State laws. Certificate of incorporation was
pending at press time. Members of the interim com-
mittee consist of:

Dan D. Halpin, J. Raymond Hutchinson, Charles Klein-
man, Samuel Markie, Raymond E. Nelson, Kay Reynolds,
Norman D. Waters.

FUNCTIONS

American Television Society is a non-profit group
organized to foster the study, understanding and
appreciation of television as a cultural, educational,
entertainment and advertising medium. It provides its
members with an intelligence center and clearing
house for information pertaining to television and its
development; a forum for the exchange of ideas and
discussion of mutual problems relating to or affecting
television; a television library; special meetings for
the dissemination of television information; the op-
portunity to view and study television technique.

Associated Actors and Artistes of America

45 West 47th St., New York, N. Y.
Phone: BRyant 9-3550

OFFICERS

President and Exec. Secy. Pro Tem..... Paul Dullzell
1st Vice-President..... Jean Greenfield
2nd Vice-President..... Kenneth Thomson
Treasurer..... Ruth Richmond
Counsel..... Paul N. Turner

FUNCTIONS

Associated Actors and Artistes of America, gen-
erally known as the Four A's, holds the international
charter from American Federation of Labor covering
theatrical entertainers, Actors' Equity, American
Federation of Radio Artistes, Screen Actors Guild,
Chorus Equity, American Guild of Variety Artists,
American Guild of Musical Artists, etc., are granted
charters via Four A's.

ORGANIZATIONS

Association for Education By Radio

Builders Bldg., Chicago 1, Ill.

OFFICERS

President.....Major Harold W. Kent
 First Vice-President.....William D. Boutwell
 Second Vice-President.....Luke Roberts
 Treasurer.....Geo. F. Jennings
 Secretary.....Elizabeth Goudy

MEMBERS

Office of War Information, Washington, D. C.—Philip H. Cohen—Vice-President Region No. I
 University of Alabama, Alabama—John S. Carlile—Vice-President Region No. II
 University of Wisconsin, Madison, Wisconsin—Harold B. McCarty—Vice-President Region No. III
 University of Wichita, Wichita, Kansas—F. L. Whan—Vice-President Region No. IV
 University of Texas, Austin, Texas—John Gunstream—Vice-President Region No. V
 Public Schools, Redwood City, California—Donald L. Cherry—Vice-President Region No. VI

FUNCTIONS

Promotion of Education by radio and the publication of a journal (Journal of the AER) monthly except May, June, July, and August; Managing Editor—James G. Hanlon; Supervising Editor—Elizabeth Goudy.

Assn. of Canadian Advertisers, Inc.

85 Richmond St., West, Toronto 1, Ont.
 Adelaide 9774

OFFICERS

President.....R. L. Sperber
 (Sales & Advertising Manager, Sterling Products Limited, Windsor, Ontario)
 Vice-President.....H. J. G. Jackson
 (Acting Advertising Manager, Chrysler Corporation of Canada Limited, Windsor, Ontario)
 Vice-President.....L. E. Phenner
 (President, Canadian Celulotton Products Co., Limited, Toronto, Ontario)
 Vice-President.....N. B. Powter
 (Sales Promotion Manager, Howard Smith Paper Mills Limited, Montreal, Que.)
 Vice-President.....Harold E. Stephenson
 (Advertising Manager, Canada Starch Co., Limited, Montreal, Que.)
 Treasurer.....J. P. Lyons
 (Advertising Manager, Manufacturers Life Insurance Company, Toronto, Ont.)
 Managing Director.....Athol McQuarrie
 (Association of Canadian Advertisers Inc., Toronto, Ontario)

DIRECTORS

George Bertram, Advertising Manager, Swift Canadian Co. Limited, Toronto, Ont.; C. W. Chamberlin, Advertising Manager, Shell Oil Co. of Canada Limited, Toronto, Ont.; W. O. H. James, Advertising Manager, The Dominion Bank, Toronto, Ont.; J. W. Moore, Sales Promotion Manager, Maple Leaf Milling Co. Limited, Toronto, Ont.; Lee Trenholm, Director of Public Relations, Underwood Elliott Fisher Limited, Toronto, Ont.; D. E. Bankart, Advertising Manager, Northern Electric Co. Limited, Montreal, Que.; R. Harold Smyth, Advertising Manager, Dominion Rubber Co. Limited, Montreal, Que.; A. Usher, Advertising Manager, RCA Victor Co. Limited, Montreal, Que.; Muriel Whitlock, Advertising Manager, Courtaulds (Canada) Limited, Montreal, Que.

FUNCTIONS

This association was incorporated in March 1917 For 29 years the Association of Canadian Advertisers has functioned as an organization of Canadian companies devoted to the interests and promotion of good advertising.

Assn. of National Advertisers, Inc.

285 Madison Ave., New York 17, N. Y.
 MU 5-9167

OFFICERS

Chairman of Board.....Carleton Healy
 (Hiram Walker, Inc.)
 Vice-Chairman.....C. C. Carr
 (Aluminum Co. of America)
 Vice-Chairman.....J. P. Miller
 (Pet Milk Sales Corp.)
 President.....Paul B. West
 Treasurer.....Robert B. Brown
 (Bristol-Myers Co.)
 Secretary.....G. S. McMillan

DIRECTORS

J. F. Apsey, Jr., The Black & Decker Mfg. Co.; Vernon D. Beatty, Swift & Company; R. V. Beucus, The Andrew Jergens Co.; Paul S. Ellison, Sylvania Electric Products Inc.; Hugh Hitchcock, Packard Motor Car Company; M. H. Leister, Sun Oil Company; Charles G. Mortimer, Jr., General Foods Sales Co., Inc.; H. W. Roden, Harold H. Clapp, Incorporated; A. C. Seyfarth, International Harvester Company; H. H. Simmons, Crane Co.; D. B. Stetler, Standard Brands Incorporated; Thomas H. Young, United States Rubber Company.

FUNCTIONS

The Association of National Advertisers is composed of the leading companies of the United States who use advertising. Its function is to represent them and further their interests as buyers of advertising.

Association of Radio News Analysts

308 E. 51st St., New York 22, N. Y.
 PLaza 5-6577

President.....Geo. Fielding Eliot
 Vice-President.....H. V. Kaltenborn
 Vice-President.....Wm. S. Hillman
 Treasurer.....Quincy Howe
 Secretary.....César Saerchinger
 Assoc. Secretary.....Waverly Root

FUNCTIONS

Membership consists of experienced news analysts devoting a major part of their time to radio work and not voicing their own commercials. The Association's function is to improve quality and standards of radio news analysts.

Association of Radio Transcription Producers of Hollywood, Inc.

Hollywood Blvd. at Cosmo, Hollywood, Calif.
 HOLlywood 3545

OFFICERS

President.....Gerald King
 Secretary.....C. P. MacGregor
 Treasurer.....J. Messer
 General Counsel.....John J. Wilson

DIRECTORS

Gerald King C. P. MacGregor, A. Schrade.

FUNCTIONS

This organization is a cooperative trade association of companies active in the transcription business in Hollywood. Membership is composed of: Allied Phonograph & Record Co.; Radio Transcription Co. of America, Ltd.; C. P. MacGregor Sound Studios; Ray Morgan & Co.; Standard Radio; Field Bros.; Edward Soman Productions, Ltd. Note: Association is inactive at the present time.

Australian Broadcasting Commission

264 Pitt St., Sydney, N. S. W., Australia
 Phone M6991

Chairman.....William J. Cleary
 Vice-Chairman.....P. J. G. Foley
 General Manager.....Charles Moses

FUNCTIONS

The Australian Broadcasting Commission provides the programs of the Australian National Broadcasting service which emanate from the National stations in each state. The transmitters are linked in a National network and a National Alternative network. The Commission is also responsible for Australian Short-Wave services and also publishes a journal. (Editor's Note: Inasmuch as wartime conditions make rapid communication impossible, changes may have taken place since this listing was received.)

Authors' Guild

6 E. 39th St., New York, N. Y.
Murray Hill 5-6930

OFFICERS

President Rex Stout
Vice-President Christopher La Farge
Secretary Kurt Steel

COUNCIL

Louis Adamic, Franklin P. Adams, Frederick Lewis Allen, E. S. Ailing, Faith Baldwin, Helen Christine Bennett, Van Wyck Brooks, Ben Lucien Burman, Carl Caver, Elmer Davis, Bernard DeVoto, Walter D. Edmonds, Clifton Fadiman, Henry Pratt Fairchild, C. S. Forester, Paul Gallico, Maurice Hidas, Christopher La Farge, Margaret Leech, Martha Ostenso, Henry F. Pringle, Carl Sandburg, Oscar Schisgall, Rex T. Stout, James Thurber, Margaret Widdemer, Thyra Samter Winslow, I. R. Wylie, Arthur Leo Zagat.

Authors' League

6 E. 39th St., New York, N. Y.
Murray Hill 5-6930

OFFICERS

President Russel Crouse
Vice-President Fannie Hurst
Secretary Katherine Seymour
Treasurer Arthur Schwartz

COUNCIL

Franklin P. Adams, Frederick Lewis Allen, Erik Barnouw, Carl Carmer, Mignon G. Eberhart, J. C. Furnas, Paul Gallico, Sidney Gerson, Oscar Hammerstein II, Stuart Hawkins, Lillian Hellman, Pauline Hopkins, Gladys Hurlbut, Fannie Hurst, Nikki Kaye, Manuel Komroff, Howard Lindsay, Richard McDonagh, Arch O'Broer, S. J. Perelman, Kenneth Pettus, Henry F. Pringle, Elmer Rice, Rex T. Stout, Kenneth Webb.

FUNCTIONS

The Authors' League of America, Inc., is the national organization of authors, dramatists, screen writers and radio writers. It was organized in 1912 in order to procure adequate copyright legislation, both international and domestic; to protect the rights and property of all those who create copyrightable material of whatever kind or nature; to advise and assist all such in business matters relating to the disposal of their productions and to obtain for them prompt remuneration therefor; to disseminate information among them as to their just rights and remedies. Its membership is approximately 4,200.

BMI Canada, Ltd.

2100 Victory Bldg., Toronto, Ont.
Elgin 5623

OFFICERS

President Neville Miller^a
Vice-President Sydney Kaye
Vice-President Harry Sedgwick
Vice-President Joseph Sedgwick
Vice-President Glen Bannerman
Secretary-Treasurer T. Arthur Evans

FUNCTIONS

BMI Canada, Ltd., was organized to buy and publish original music, to coordinate and license performing rights of music published under its own imprint and of music in the catalogs of affiliated publishers and performing right societies and to provide equal opportunity of recognition for all writers and composers.

Board of War Communications

Chairman's Office: c-o Federal Communications Commission, Washington, D. C.

PERSONNEL

James Lawrence Fly, Chairman, Federal Communications Commission; Major General Dawson Olmstead, Chief Signal Officer, of U. S. Army; Captain Carl F. Holden, Director of Naval Communications; Breckenridge Long, Assistant Secretary of State in charge of the Division of International Communications; Herbert E. Gaston, Assistant Secretary of Treasury in charge of resurvey Enforcement Activities; Commander R. J. Mauerman, U. S. Coast Guard

COMMITTEES

Alternates: E. K. Jett, Federal Communications Commission; Brigadier General Frank E. Stoner, Chief, Army Communications Branch; Captain Thomas B. Inglis, Assistant Director of Naval Communications; Francis C. de Wolf, Principal Divisional Assistant of the Division of International Communications; Captain E. M. Webster, Chief of Communications of the U. S. Coast Guard.

Coordinating: E. K. Jett, Federal Communication Commission, Chairman; Francis C. De Wolf, Department of State; Major W. T. Guest, Department of War; Lt. Commander Franz O. Willenbacher, Department of Navy; Captain E. M. Webster, Chief of Communications, U. S. Coast Guard.

Law: Charles R. Denny, General Counsel of Federal Communications Commission, Chairman; Colonel Conrad E. Snow, Chief, Legal Branch, Office of the Chief Signal Officer, Department of War; John E. Shea, Department of Treasury; Commander Franz O. Willenbacher, Department of Navy; Raymond T. Yingling, Department of State.

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Industry Advisory: Walter S. Gifford, Chairman; Dr. C. B. Jelliffe, Secretary.

Priorities Planning: Lt. Colonel Lyle D. Wise, Chairman; George J. Dempsey, Secretary.

Amateur Radio: George W. Bailey, Chairman; E. M. Webster, Secretary.

Aviation Communications: R. O. Smith, Chairman; Ford Studebaker, Secretary.

Cable: C. Mills, Chairman; Benedict P. Cottone, Secretary.

Domestic Broadcasting: Neville Miller,^a Chairman; A. D. Ring, Secretary.

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Communications Liaison for Civilian Defense: Wm. N. Krebs, Chairman; Herbert A. Friede, Secretary.

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Te'legraph: E. R. Shute, Chairman; Wm. J. Norfleet, Secretary.

Te'lephone: Z. Z. Hugus, Chairman; Clyde S. Bailey, Secretary.

State and Municipal Facilities: Captain Donald S. Leonard, Chairman; G. E. Nielson, Secretary.

Broadcast Music, Inc. (BMI)

580 Fifth Ave., New York, N. Y.
Pennsylvania 6-5466

OFFICERS

President Neville Miller^a
Vice-President-General Manager M. E. Tompkins
Vice-President-General Counsel Sydney M. Kaye
Vice-President Carl Hawerlin
Treasurer C. E. Lawrence

DIRECTORS

Neville Miller,^a National Association of Broadcasters; Walter Damm, WTMJ; John Elmer, WCBM; Frank K. White, Columbia Broadcasting System; William Hedges, National Broadcasting Co.; Paul Morency, WTIC; Leonard Kapner, WCAE.

^a Has since resigned as President of NAB.

ORGANIZATIONS

BRANCH OFFICES

1549 North Vine St., Hollywood, Calif.
Executive-in-Charge Harry Engel

54 West Randolph St., Chicago, Ill.
Executive-in-Charge James Cairns

FUNCTIONS

The functions of BMI are: (1) To buy and publish original music; (2) to coordinate and license the performing rights to music published under its own imprint and of music in the catalogs of affiliated publishers and performing rights societies; (3) to provide equal opportunity of recognition for all writers and composers.

Canadian Assn. of Broadcasters

2100 Victory Bldg., Toronto, Ont.
Canada
Elgin 5623

OFFICERS

President-General Manager Glen Bannerman
Chairman of the Board Harry Sedgwick
Vice-Chairman of the Board G. R. A. Rice
General Counsel Joseph Sedgwick
Secretary-Treasurer T. Arthur Evans

DIRECTORS

Harry Sedgwick, Chairman, New York City; G. R. A. Rice, Vice Chairman, Radio Station CFRN; Gerry Gaetz, CKRC; A. A. Murphy, CFQC; Ralph White, CFJC; J. E. Campeau, CKLW; J. K. Cooke, Toronto; Phil Lalonde, CKAC; J. N. Thivierge, CHRC; Lieut.-Col. K. S. Rogers, CFCY; N. Nathanson, CJCBC.

FUNCTIONS

The Canadian Association of Broadcasters is a trade association comprising 62 privately owned radio stations.

Canadian Performing Right Soc., Ltd.

1003 Royal Bank Bldg., Toronto 2, Canada

OFFICERS

President-Managing Director... H. T. Jamieson, F.C.A.

BOARD OF DIRECTORS

Deems Taylor, Louis Bernstein, John G. Paine, Ralph Hawkes, Holmes Maddock, H. T. Jamieson.

FUNCTIONS

This organization was formed for the protection of Canadian performing rights and the licensing of public performance of music.

Catholic Actors Guild of America, Inc.

Hotel Astor, New York 19, N. Y.
Circle 6-5566

OFFICERS

President Gene Buck
Vice-President Pat O'Brien
Honorary Vice-Presidents:
Bing Crosby, Dan Healy, Pat O'Brien, Donald Brian
Chaplain-Treasurer Rev. John F. White
Recording Secretary Donat Gautier
Counsel Hon. Alfred J. Tolley
Historian Lida Kane
Executive Secretary George Buck
Chairman of Executive Board John A. Bado
Social Secretary (Theatrical) Jane Hoy
Social Secretary (Non-Theatrical) Mrs. Cornelius J. Gallagher

FUNCTIONS

The Catholic Actors Guild is a charitable, benevolent and social organization for the people of the theatre, screen and radio, non-sectarian in scope.

Catholic Writers Guild of America

128 W. 71st St., New York, N. Y.
ENdicott 2-0412

OFFICERS

Honorary President,
His Excellency, Most Rev. Francis J. Spellman, D. D.
Spiritual Director Rev. John B. Kelly
President Edwin P. Kilroe, Ph.D.
Vice-President Richard Reid
Treasurer Clarence E. Heller
Executive Secretary Eleanor M. Tucker
Corresponding Secretary Bernadette A. Forrest

BOARD OF GOVERNORS

Thomas E. Woodlock, Very Rev. Fulton J. Sheen,
Eugene A. Colligan, Victor Ridder, Elizabeth Jordan,
James O'Shaughnessy, Kathleen Norris, Rev. Hugh
Morley, Katherine Edgerly, Margaret Marshall, Jos. J.
Reilly, Mrs. Philip Brennan, Nicholas Farley, Kenton
Kilmer.

Clear Channel Broadcasting Service

919 Shoreman Bldg., Washington, D. C.
Rpublic 3306

OFFICERS

Chairman Edwin W. Craig
Director Allan B. Miller
Treasurer Harold Hough
Counsel Louis G. Caldwell

FUNCTIONS

The function of the Clear Channel Broadcasting Service is to foster the interests of independently-owned clear channel standard broadcast stations in matters of engineering allocation, national and international, to the end of preserving and improving radio reception to rural and sparsely settled areas and to cities and towns having no stations of their own.

Committee on Consumer Relations In Advertising, Inc.

420 Lexington Ave., New York, N. Y.
Murray Hill 5-7367

OFFICERS

Chairman John Benson
Executive Director Kenneth Dameron

FUNCTIONS

This committee engages in research in the economics of advertising and the economics of consumption; provides a meeting place where consumers and advertisers can discuss mutual problems; provides consultation service for advertising agencies and others interested in management problems arising from consumer movements.

The Dramatists' Guild

6 E. 39th St., New York, N. Y.
Murray Hill 5-6930

OFFICERS

President Richard Rodgers
Vice-President Phillip Barry
Secretary Victor Wolfson

COUNCIL

George Abbott, Robert Ardrey, Philip Barry, Edward Childs Carpenter, Patricia Colvin, Marc Connelly, Russell Crouse, Owen Davis, Howard Dietz, Philip Dunning, Nancy Hamilton, Otto Harbach, Lillian Hellman, Gladys Hurbert, G. S. Kaufman, Arthur Kober, Howard Lindsay, Elliot Nugent, Eugene O'Neill, Paul Osborn, Sam Raphaelson, Arthur Schwartz, George Sklar, Lulu Vollmer, Kurt Weill, Victor Wolfson.

FUNCTIONS

The Dramatists' Guild is one of the guilds of the Authors' League of America, Inc. The guild is primarily a protective organization for playwrights.

Federal Radio Education Committee (FREC)

Room 3355 South Interior Bldg., Washington, D. C.
REpublic 1820, Extension 2280

OFFICERS

Chairman.....J. W. Studebaker
Vice-Chairman.....C. F. Klinefelter
Secretary-Editor.....Gertrude G. Broderick
Assistant to the Chairman.....W. D. Boutwell
Director, Script & Transcription Exchange,
R. R. Lowdermilk

EXECUTIVE COMMITTEE

John W. Studebaker, U. S. Commissioner of Education; eGerge P. Adair, Federal Communications Commission; Lyman Bryson, Columbia Broadcasting System; John Elmer, Baltimore Broadcasting Corp.; Willard E. Givens, National Education Assn.; Rev. George Johnson, National Catholic Welfare Conference; Harold B. McCarty, Station WHA; Neville Miller, National Association of Broadcasters; Levering Tyson, Muhlenberg College; Judith C. Waller, National Broadcasting Co.

FUNCTIONS

The Federal Radio Education Committee was appointed in 1935 by the Federal Communications Commission with the recommendation at that time that the broadcasters, on one hand, and the educators, on the other, would combine forces which would: (1) eliminate controversy and misunderstanding between groups of educators and between the industry and educators; (2) promote actual cooperative arrangements between educators and broadcasters on national, regional and local bases. Publications to date include Script Exchange Catalog, Forums on the Air, College Radio Workshop, The School Radio Sound System, Glossary of Radio Terms, "Americans All—Immigrants All," a supplementary teaching aid in the use of recordings of program series of the same name, the FREC Service Bulletin, and many others.

Federal Trade Commission

Pennsylvania Ave. at 6th St., N.W., Washington, D.C.
EXecutive 6800

PERSONNEL

Chairman.....Robert E. Freer
Commissioner.....Garland S. Ferguson
Commissioner.....Charles H. March
Commissioner.....Ewin L. Davis
Commissioner.....William A. Ayres
Secretary.....Otis B. Johnson
Chief Counsel.....Wm. T. Kelley
Chief Examiner.....James A. Horton
Chief Economist.....Col. William H. England
Dir. Trade Practice Conferences.....Henry Miller
Director, Radio & Periodical Division.....P. B. Morehouse
Assistant Director, Radio & Periodical Division
William F. Davidson

FUNCTIONS

The Federal Trade Commission is a Governmental agency whose object is to prevent unfair methods of competition and unfair and deceptive acts and practices in commerce. For a description of the actual procedure and work of this body see articles appearing in other sections of this volume.

Federal Communications Bar Assn.

Munsey Bldg., Washington, D. C.

OFFICERS

President.....Horace L. Lohnes
First Vice-President.....Ben S. Fisher
Second Vice-President.....John F. Gibbons
Secretary.....Lester Cohen
Treasurer.....Kenneth L. Yourd

FUNCTIONS

To promote the proper administration of the Communications Act of 1934 and related acts, to uphold the honor of practice before the Federal Communications Commission, and to encourage cordial intercourse among the practitioners. It issues a monthly publication, the Federal Communications Bar Journal, which is devoted to matters of interest pertaining to communications law.

Federal Council of the Churches of Christ in America, Department of National Religious Radio

297 Fourth Ave., New York, N. Y.
GRameray 5-3475

OFFICERS

Executive Secretary.....Frank C. Goodman
Assistant Executive.....Ethel A. Rich
Secretary.....Wesley B. Goodman

FUNCTIONS

The Department of National Religious Radio was organized in 1923 to promote the effective use of broadcasting in the field of religion. With a membership including representatives of the major protestant groups, the organization arranges and produces eight non-sectarian religious radio programs each week, as well as special programs, over national networks.

First Advertising Agency Group

734 Union Commerce Bldg., Cleveland, Ohio
Main 5194

OFFICERS

President.....Lee E. Donnelly
Vice-President.....Norman Lewis
Secretary-Treasurer.....Melvin F. Hall

BRANCH OFFICES

Membership in this organization includes advertising agencies in the following cities: Albany, N. Y.; Buffalo, N. Y.; Cincinnati, Ohio; Cleveland, Ohio; Des Moines, Iowa; Detroit, Mich.; Jacksonville, Fla.; Los Angeles, Calif.; Nashville, Tenn.; New York, N. Y.; Oakland, Calif.; Philadelphia, Pa.; Pittsburgh, Pa.; Richmond, Va.; San Francisco, Calif.; Salt Lake City, Utah; St. Louis, Mo.

FUNCTIONS

This organization is a cooperative group of independently owned advertising agencies using identical standards of agency procedure and acting as branch offices in the interest of each member.

F M Broadcasters, Inc. (FMBI)

Office of the President and Secretary-Treasurer,
333 W. State St., Milwaukee 1, Wis.
Marquette 6000
Washington Office:
711 Colorado Bldg.

OFFICERS

President.....Walter J. Damm
Vice-President.....Theodore C. Streibert
Secretary-Treasurer.....L. W. Herzog

DIRECTORS

John Shepard, 3rd, John V. L. Hogan, Arthur Church, Geo. Lang, Lee B. Wailes, Ray H. Manson, Franklin M. Doolittle, Walter J. Damm, Theodore C. Streibert.

FUNCTIONS

FMBI is a non-profit association of FM boosters founded to see that frequency modulation advances in a coordinated logical manner: to guarantee that its interests are furthered and protected and to represent the FM industry in Washington; to provide an advisory service for its membership stations; to offer liaison between broadcasters and manufacturers interpreting the problems of each; to conduct a program of promotion and publicity aimed at stimulating public interest, and to provide a competent and accurate service for the truthful dissemination of information concerning FM. Membership includes individuals and companies who have an FM station, a construction permit or an application on file with the FCC for one.

Foreign Language Radio

Wartime Control

Munsey Bldg., Washington, D. C.
MEtropolitan 3535

COMMITTEE

Arthur Simon, Chairman, Philadelphia, Pa.—Penny-packer 9490; James F. Hookins, Vice-Chairman, Detroit, Mich.—Trinity 2-2000; Gene T. Dyer, Secretary, Chicago, Ill.—Seelye 8066; Joseph Lang, Treasurer, New York, N. Y.—Plaza 3-4704.
Howard W. Davis—KMAC, San Antonio, Texas; S. H. Patterson—K5AN, San Francisco, Calif.; William Welch—WSAR, Fall River, Mass.; Marie Clifford—WHFC, Cicero, Ill.; Lee Little—KTUC, Tucson, Arizona.

ORGANIZATIONS

DIRECTORS

John Outler, WSB, Atlanta, Georgia; Red Cross, WMAZ, Macon, Georgia; Hoyt Wimpy, WPAX, Thomsville, Georgia.

FUNCTIONS

The Trade Association of Broadcasters is a regional grade association for 28 Georgia broadcasting stations.

Hollywood Radio Producers Club

614 Equitable Building
Hollywood, Calif.

OFFICERS

President Carroll O'Meara
Secretary-Treasurer John Swallow
Chaplain Murray Bolen
Sergeant-at-Arms Captain Charles Vanda,
Captain Tom McKnight

FUNCTIONS

This organization of active producers of TC shows and executives of networks and advertising agencies hold regular luncheon meetings to foster good fellowship.

Hollywood Victory Committee For Stage, Screen and Radio

415½ North Beverly Drive, Beverly Hills, California
Phone: Crestview 5-1171

OFFICERS

Chairman Kenneth Thomson
Vice-Chairman Mark Sandrich
Treasurer Bert Allenberg
Secretary Howard Strickling
Executive Administrator Marco Wolff
Chairman of Hollywood Talent Committee, Charles K. Feldman

ORGANIZATIONS REPRESENTED

Actors Equity Association
American Federation of Radio Artists
American Guild of Musical Artists
American Guild of Variety Artists
American Society of Composers, Authors and Publishers
Artists Managers Guild
Association of Motion Picture Producers
Independent Publicists Society
Musicians Mutual Protective Association
Radio Networks
Radio Writers Guild
Screen Actors Guild
Screen Directors Guild
Screen Publicists Guild
Screen Writers Guild
Southern California Broadcasters Association
Theatre Authority, Inc.

FUNCTIONS

This committee was formed as a means of coordinating the requests for "free talent" and as a means of offering protection to the actors, the studios and the radio networks in Hollywood, so far as authentication of requests is concerned, and so far as accurate check as to the officialdom of the sources of requests for "free talent." This body is charged with the approval or rejection of all requests for "free talent" in Hollywood. All requests for "free talent" whether to studios, organizations of individual stars, are to be referred to this committee for action.

A sub-committee, the Hollywood Talent Committee, is charged, after the main committee has approved a request officially, with the coordination of the various industry elements involved in fulfilling the request.

The Institute for Education by Radio

Established 1930

Ohio State University, Columbus, Ohio
University 3148, Extension 708

OFFICERS

Honorary Director W. W. Charters
Director I. Keith Tyler
Secretary Ardis Hillman Wheeler

PROGRAM COMMITTEE

William Wallace Beavers, Program Director, WCOL; R. C. Higgy, Director, WOSU; T. C. Holy, Director, Bureau of Educational Research, Ohio State University; Irwin A. Johnson, Director of Developmental Programs, WBSN; John Moses, Production Manager, WHKC; H. W. Nisonger, Chairman, University Radio Education Committee; C. W. Pettegrew, Program Director, WOSU; I. Keith Tyler, Director of the Institute.

FUNCTIONS

This annual national conference was established in 1930 at the Ohio State University to provide for joint discussion, by broadcasters, educators and civic leaders, of the problems of educational broadcasting. The program is devoted chiefly to consideration of the policies and techniques of radio and is developed from the suggestions and recommendations of those attending the Institute in previous year. No resolutions are passed. The Institute also sponsors the American Exhibition and Citations of Educational Radio Programs which gives awards and honorable mentions to outstanding program series.

Institute of Radio Engineers, Inc.

330 West 42nd St., New York 18, N. Y.
Medallion 3-5661

OFFICERS

President H. M. Turner
Vice-President R. A. Hackbusch
Treasurer R. A. Heising
Secretary Haraden Pratt

FUNCTIONS

The Institute of Radio Engineers is a professional organization of engineers in radio and allied fields. It publishes a magazine entitled "Proceeding of the I. R. E." and conducts meetings in New York and various other cities in the United States, Canada, and Argentina.

Intercollegiate Broadcasting System, Inc.

507 Fifth Ave., New York, N. Y.
Vanderbilt 6-6075

OFFICERS

President George Abraham
Program Manager Harriette Stote
Business Manager Louis M. Bioch

BRANCH OFFICE

Sacadaga Road, Schenectady, N. Y.
Technical Manager David W. Borst

FUNCTIONS

Intercollegiate Broadcasting system is a non-profit association of college campus radio stations and has as its purpose the furtherance of education, entertainment and goodwill among its members. The IBS maintains for the benefit of its members program, business and technical departments. Member stations include the following: University of Alabama, Antioch College, Brown University, Barnard College, College of Albert I. Leopoldville, Belgium Congo, Columbia University, University of Connecticut, Cornell University, Georgetown University, Hamilton College, Harvard University, Haverford College, Knx College, University of Maryland, Ohio University, Ohio State University, Pembroke College, Princeton University, Rhode Island State College, St. Edwards University, Swarthmore College, Union College, Wellesley College, Wesleyan University, Williams College, and Yale University.

Interdepartment Radio Advisory Committee (IRAC)

Chairman's Office: Federal Communications Commission, Washington, D. C.

OFFICERS

Chairman T. A. M. Craven
Vice-Chairman Lt. Comdr. Paul D. Miles
Secretary P. F. Siing
Assistant Secretary L. R. Brady

MEMBERS

Department of Agriculture E. W. Loveridge

Department of Commerce Dr. J. H. Dellinger
 Federal Communications Commission T. A. M. Craven
 Department of Interior S. L. Windes
 Department of Justice E. P. Coffey
 Maritime Commission D. S. Brierly
 Department of Navy Lt. Comdr. Paul D. Miles
 Post Office Department Roy M. Martin
 Department of State Thomas Burke
 Department of Treasury Capt. E. M. Webster
 Department of War Lt. Col. A. G. Simson

ALTERNATE MEMBERS

Department of Agriculture E. C. Wagner
 Department of Commerce L. H. Simson
 Federal Communications Commission P. F. Siling
 Department of Interior Howard F. Carl
 Department of Justice H. J. Walls
 Navy Department Lt. W. R. Foley
 Department of State Francis C. de Wolf
 Department of Treasury Lt. A. L. Budlong
 Department of War Lt. Col. William E. Plummer

FUNCTIONS

This committee, composed of representative officials from the various government departments and agencies is charged with advising the President in regard to the assignment of frequencies to government station or classes of station. Little of the committee's work is divulged for public information because of its nature (e.g. National Defense), which is confidential.

International Brotherhood of Electrical Workers

1200 Fifteenth St., N.W., Washington 5, D. C.
 District 3764

OFFICERS

International President Ed J. Brown
 International Secretary G. M. Bugniazet
 International Rep. for Radio Broadcasting Lawson Wimberly

FUNCTIONS

The International Brotherhood of Electrical Workers is an affiliate of the American Federation of Labor having jurisdiction over technicians, and engineers in radio broadcasting. Sixty IBEW unions of radio broadcast technicians and engineers are now established in the United States, and approximately 350 standard commercial broadcast stations have collective bargaining agreements with IBEW.

International Short Wave Club

923 Vine Street, East Liverpool, Ohio
 Phone, 3546-W

OFFICERS

President & Editor Arthur J. Green
 Board of Advisors Joseph B. Sessions
 Board of Advisors Jacob N. Kleimans
 Board of Advisors Charles H. Schroeder
 European Representative Arthur E. Bear

BRANCH OFFICES

New York Chapter: Jacob N. Kleimans, Sec.; London (England) Chapter: Arthur E. Bear, Sec.; Manchester (England) Chapter: Officers to be elected monthly; Brighton (England) Chapter: John Bennett, Sec.; Guernsey (England) Chapter: F. S. LaPavoux, Sec. (Note: The English Chapters have temporarily suspended operations.)

FUNCTIONS

The purpose of the organization is to gather information, helpful hints, station schedules, etc., and send this to members of the organization. The club has members in 141 countries and possessions that act as news reporters.

(Editor's Note: The International Short Wave Club has suspended activity for the duration.)

The Lambs

130 W. 44th St., New York 18, N. Y.
 BRyant 9-8020

OFFICERS

Shepherd John Golden
 Boy Raymond Feck
 Corresponding Secretary Bobby Clark
 Recording Secretary Jack Whiting

Treasurer James E. Meighan
 Librarian John S. (Ole) Olson
 Assistant Secretary T. H. Druitt

DIRECTORS

Kenneth Webb, Earl Benham, John McManus, Percy Moore, Edwin Burke, William P. Adams, Walter N. Greaza, Sam Forrest, Richard Taber, Otto Harbach Elliott Nugent, Joseph S. Buhler, Ward Wilson, Emil Friedlander, Bruce Evans.

LIFE DIRECTORS: R. H. Burnside, A. O. Brown, William Caxton, Fred Waring.

Market Research Council

630 Fifth Ave., New York 20, N. Y.
 (Sixteenth Floor)

OFFICERS

President D. B. Lucas
 Vice-President Ray Robinson
 Secretary-Treasurer Edw. Battey, Jr

EXECUTIVE COMMITTEE

Elmo Roper, D. B. Lucas, Ray Robinson, Frank Stanton, Edw. Battey, Jr.

FUNCTIONS

This organization is a small informal group (limited membership) of leading market research men interested in general market research who meet monthly for a discussion of mutual problems.

Minnesota Radio Council

1001 Hennepin Ave., Minneapolis, Minn.
 Phone, MA 2571

OFFICERS

President Miss Ruth Rosholt
 First Vice-President Dr. Raymond J. Chadwick
 Second Vice-President Miss Katharine Kohler
 Recording Secretary Mrs. Arthur P. Peterson
 Corresponding Secretary Mrs. W. H. MacNeil
 Treasurer Miss Marguerite Breen

BRANCH OFFICES: Duluth, St. Cloud, Winona, Albert Lea.

FUNCTIONS

The Minnesota Radio Council aims to coordinate and cooperate with women's organizations, schools, religious groups and other educational institutions with radio programs. The Council plans to establish standards for the guidance of those concerned with the planning and production of radio programs; publicize approved radio shows; collect and distribute information concerning the reaction of listeners to all types of radio programs.

Music Publishers' Protective Association, Inc.

45 Rockefeller Plaza, New York, N. Y.
 Circle 6-3084

OFFICERS

Chairman of the Board Walter G. Douglas
 President Lester Santly
 Vice-President Jack Mills
 Secretary J. J. Bregman
 Treasurer Richard F. Murray
 Agent and Trustee Harry Fox

Nat'l Assn. of Broadcast Engineers and Technicians

1509 N. Vine St., Hollywood 28, Calif.
 Granite 7273

OFFICERS

President James H. Brown
 Vice-President A'len T. Powley
 Secretary-Treasurer Thor E. LaCroix
 National Representatives F. R. Rojar, R. A. Schlagel

FUNCTIONS

The NABE is an independent national labor organization representing radio and television broadcast engineers and technicians exclusively. Chapters are located throughout the country.

ORGANIZATIONS

National Association of Broadcasters

1760 "N" Street, N.W., Washington 6, D. C.
National 2080

OFFICERS

President J. Harold Ryan
Assistant to President Willard D. Egoft
Secretary-Treasurer C. E. Arnerly, Jr.
Director of War Activities Robt. T. Bartley
Director of Broadcast Advertising Lewis H. Avery
Director of Research Paul F. Peter
Director of Engineering Howard S. Frazier
Director of Promotion Arthur C. Stringer
Coordinator of Listener Activities Mrs. Dorothy Lewis

BOARD OF DIRECTORS

Chairman, J. Harold Ryan, NAB, Washington, D. C.
District

- 1—Paul Morency, WTIC, Hartford, Conn.
- 2—Kolin Hager, WGY, Schenectady, N. Y.
Paul W. Kesten, CBS, New York, N. Y. (network director.)
- 3—Roy F. Thompson, WFBG, Altoona, Pa.
- 4—G. Richard Shaffo, WIS, Columbia, S. C.
Frank M. Russell, NBC, Washington, D. C. (network director.)
Don S. Elias, WWNC, Asheville, N. C. (director-at-large)
James W. Woodruff, Jr., WRBL, Columbus, Ga.
- 5—Frank King, WMBR, Jacksonville, Fla. (director-at-large)
- 6—Hoyt B. Wooten, WREC, Memphis, Tenn.
- 7—Nathan Lord, WAVE, Louisville, Ky.
James D. Shouse, WLW, Cincinnati, Ohio (director-at-large)
- 8—John E. Fetzer, WKZO, Kalamazoo, Mich.
- 9—Leslie C. Johnson, WHBF, Rock Island, Ill.
- 10—John J. Gillin, Jr., WOW, Omaha, Nebr.
J. O. Maland, WHO, Des Moines, Ia. (director-at-large)
- 11—E. L. Hayek, KATE, Albert Lea, Minn.
Barney Lavin, WDAY, Fargo, N. D. (director-at-large)
- 12—William B. Way, KVOO, Tulsa, Okla.
Herbert Hollister, KANS, Wichita, Kans. (director-at-large)
- 13—Hugh A. L. Haff, WOAI, San Antonio, Texas
- 14—Ed Yocum, KGHL, Billings, Mont.
- 15—Arthur Westlund, KRE, Berkeley, Calif.
- 16—Calvin J. Smith, KFAC, Los Angeles, Calif.
- 17—Harry R. Spence, KXRO, Aberdeen, Wash.

FUNCTIONS

The object of this Association shall be to foster and promote the development of the art of radio broadcasting; to protect its members in every lawful and proper manner from injustices and unjust exactions; to foster, encourage and promote laws, rules, regulations, customs and practices which will be for the best interest of the public and the radio industry.

National Assn. of Performing Artists

630 Fifth Ave., New York, N. Y.
Circle 7-8194

OFFICERS

Honorary President Josef Hofmann
President James J. Walker
Vice-President Fred Waring
Vice-President Meyer Davis
Vice-President Paul Whiteman
Vice-President Al Jolson
Treasurer Don Voorhees
General Counsel Maurice J. Speiser

BOARD OF DIRECTORS

Fred Waring, Chairman; Connie Boswell, Noel Coward, Bing Crosby, Meyer Davis, Mary Garden, Benny Goodman, Jascha Heifetz, Lewis James, Al Jolson, Arthur W. Levy, Guy Lombardo, John McCormack, Grace Moore, Ray Noble, Walter O'Keefe, Dick Powell,

Fritz Reiner, Fabien Scvitsky, Nathaniel Shilkret, Lawrence Tibbett, Rudy Val'ee, Don Voorhees, James J. Walker, Paul Whiteman, Victor Young, Efrem Zimbalist.

FUNCTIONS

The object of the Association is to protect the recordings of its members and the prevention of their unauthorized use primarily by broadcast stations, coin-operated machines, etc.

National Better Business Bureau, Inc.

405 Lexington Ave., New York 17, N. Y.
Murray Hill 6-3535

OFFICERS

President R. P. Clayberger
Vice-President Phillips Wyman
Secretary Warren C. Agry
Treasurer John L. Anderson
General Manager Edward L. Greene

FUNCTIONS

This organization assists the public, advertisers and publishers to avoid false and deceptive advertising. It cooperates with law enforcement agencies in this work.

Nat'l Assn. Educational Broadcasters

Exec. Sec'y., Radio Station WILL, Univ. of Illinois,
Urbana, Illinois
URbana 7-2616.

OFFICERS

President Gilbert D. Williams
(WBAW, West Lafayette, Ind.)
Treasurer W. I. Griffith
(WOL, Ames, Iowa)
Executive Secretary Frank Schooley
(WILL, Urbana, Illinois)

FUNCTIONS

To further the interests of educational broadcasting stations and educators broadcasting over commercial stations.

National Independent Broadcasters

(NIB)

President's Office: 501 Madison Ave., New York,
N. Y.
Washington Office: Edmonds Bldg., 917 Fifteenth
St., N.W., Washington, D. C.
Phone, Republic 3607

OFFICERS

President Harold A. Lafount
General Counsel Andrew W. Bennett

FUNCTIONS

This association was organized and is operated by independently owned and operated stations, as distinguished from national networks and stations owned or managed by national networks, to meet the need of special representation for such independently owned stations in handling the problems and activities peculiar to them as a group. All broadcast stations are eligible for membership except stations owned or managed by national networks.

National Industrial Advertisers Association, Inc.

100 E. Ohio St., Chicago, Ill.
Superior 8140

OFFICERS

President—Frederic I. Lacksen, The Hays Corporation,
Michigan City, Indiana.
Vice-President—Alan A. Ballantyne, Electric Auto-Lite
Co., Champlain and Mulberry, Toledo, Ohio.
Vice-President—Walter A. Bowe, Carrier Corporation,
Syracuse, New York.
Vice-President—Wilmer H. Cordes, American Steel &
Wire Co., Rockefeller Bldg., Cleveland 1, Ohio.
Vice-President—Edward V. Creagh, American Chain &
Cable Co., Inc., Bridgeport 2, Conn.

Vice-President—John A. M. Galilee, Canadian Westinghouse Co., Ltd., Hamilton, Ont.
 Vice-President—John H. Kunkel, The Fluor Corp., Box 7030, East L.A. Sta., Los Angeles, Cal.
 Vice-President—J. M. McKibbin, Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
 Vice-President—Graham Rohrer, Baldwin-Hill Company 501 Klagg Ave., Trenton 2, N. J.
 Secy-Treasurer—Arnold Andrews, Bucyrus-Eric Company, South Milwaukee, Wis.
 Past-President—Herbert V. Mærcready, Magnus Chemical Company, Garwood, N. J.

DIRECTORS

Baltimore, M. J. Donahue, Anchor Post Fence Company, 6500 Eastern Avenue, H. C. Schuckle, Emery Advertising Co., Inc., Baltimore Life Building; Boston, James H. Watson, S. D. Warren Company, 89 Erad Street, Ross M. Cunningham Massachusetts Institute of Technology Cambridge; Buffalo, Gerald N. Abt, Barcalo Manufacturing Company, 225 Louisiana Street, Howard M. Robins, J. H. Williams & Company, 400 Vulcan Street Chicago, Edward W. Rose, The Buchen Company, 400 West Madison Street, C. N. Kirchner, Independent Pneumatic Tool Co., 600 W. Jackson Blvd.; Cincinnati, Theodore Brown, Perry-Brown, Inc., 15 East Eighth Street, Walter H. Spindler, Armco Drainage Products Association, Middletown; Cleveland, C. B. Cook, The Elwell-Parker Electric Company, 4205 St. Clair Ave., Ernest C. Roberts, The Clark Controller Co., 1146 East 152nd Street; Columbus, L. H. McReynolds, Jeffrey Manufacturing Company, Post Office Box 1397, W. T. Burgess, Denison Engineering Company, 1160 Dublin Road; Detroit, John A. Marshall, Wolverine Tube Company, 1411 Central Avenue, E. R. Dunn, Bull Dog Electric Products Co., 7610 Joseph Campay Ave.; Houston, A. B. Penny, Humble Oil & Refining Company, Humble Building, H. O. Helier, Reed Roller Bit Company; Indianapolis, J. A. DeLo, Continental Steel Corporation, Kokomo, Indiana, Howard C. Caldwell, The Caldwell-Baker Co., 1204 Merchants Bank Bldg.; Los Angeles, Wentworth W. Mann, The McCarty Company, 1206 Maple Avenue, Richard F. O'Mara, Western Precipitation Corporation, 1016 W. 9th St.; Mason-Dixon, Terry Mitchell, Frick Company, Waynesboro, Pa.; J. Donald Smith, York Corp., Rosevelt Ave., York, Pa.; Milwaukee, E. J. Goes, Koehring Co., 3026 W. Concordia Avenue (10), Francis M. Higgins, Four Wheel Drive Auto Company, 12th St., Clintonville, Wis.; Minnesota, Roy H. Smallwood, Wm. H. Ziegler Co., 2331 University Ave., S.E., Minneapolis, Alfred Colle, Alfred Colle Co., 510 New York Life Bldg., Minneapolis; Montreal, W. A. Bates, Steel Company of Canada, Ltd., Post Office Box 460, Gordon L. Hale, Canadian Tube & Steel Products Ltd., 5765 Hamilton St.; New Jersey, Samuel E. Gold, Lignum-Vitæ Corp., 96-100 Boyd Ave., Jersey City, N. J., C. E. Gischel, Walter Kidde & Co., 140 Cedar St., New York, N. Y.; New York, E. Scott Pattison, C. M. Basford Company, 60 East 42nd Street, Gordon Tuthill, Crucible Steel Company of America, 405 Lexington Ave; Philadelphia, J. S. McCullough, Yale & Towne Manufacturing Co., 4530 Tacony Street; A. O. Witt, Schram, Inc., West Chester, Pennsylvania; Pittsburgh, Harold S. Downing, Walker and Downing, Oliver Building, J. A. Burgess, Gulf Oil Corporation, Gulf Building; Rochester, Wallace W. Lockwood, Taylor Instrument Companies, 95 Ames St., A. G. Moore, General Railway Signal Company, 801 West Avenue; Rockford, Walter Hagstrom, Mattison Machine Works, 514 Blackhawk Park Avenue, W. C. Galloway, Barber-Colman Company, 215 South Loomis Street; St. Louis, Oakleigh R. French, Oakleigh R. French & Associates, 4238 Lindell Blvd., T. W. Broessel, White Rodgers Electric Company, 1209 Cass Avenue; San Francisco, H. A. Sawin, Yuba Manufacturing Company, 351 California Street, H. S. Schuler, Westinghouse Electric & Mfg. Co., 1 Montgomery Street; Toledo, Ben C. Gardner, DeVilbiss Company, 300 Phillips Street, H. M. Wertz, Toledo Steel Products Company, Toledo Trust Building; Toronto, Donald McCrimmon, C. A. Dunham Company, Ltd., 1523 Davenport Road, T. H. Dowsett, Trane Company of Canada, Ltd., 4 Mowat Avenue; West, New Eng., H. E. Merrill, General Electric Co., Boston Ave., Bridgeport, Conn., Fred Emerson, Spartan Saw Works, Inc., Springfield, Massachusetts; Youngstown, A. M. Wearstler, Wearstler Advertising, Inc., 20 West Front Street, Ira Thomas, Meek and Thomas, Inc., 724 Wick Avenue; AT-Large, John N. Cronk, Commercial Solvents Co., Terre Haute, Ind., Howard K. Kenyon, LaPlant-Choate Manufacturing Co., Cedar Rapids, Ia.

FUNCTIONS

This organization is a trade association devoting its efforts exclusively to the advancement of industrial advertising and marketing technique and practice.

National Variety Artists, Inc.

225 W. 46th St., New York, N. Y.
 Columbus 5-2638

OFFICERS

President Louis Handin
 First Vice-President Jack Boyle
 Second Vice-President Harry Ferguson
 Treasurer Frank O'Connell
 Recording Secretary Rosa Crouch

DIRECTORS

Charles Preston, Juliet Heath, George Crowley, Leon E. Bendon, Vic Christie, Bert Spencer, Joe Woods, Wilbur Held, Jim Mooney, John K. Hawley.

FUNCTIONS

The function of National Variety Artists, Inc., is to promote Americanism and fraternal and welfare activities among the members of the theatrical profession. Open house for Boys in Service.

Nebraska Broadcasters Association

Secretary's Office: c/o WJAG, Norfolk, Nebr.
 Phone: 432

OFFICERS

President E. A. Thomas
 Vice-President (KGFV, Kearney) Jud Woods
 Secretary-Treasurer (KFAB, Lincoln) Art Thomas
 (WJAG, Norfolk)

DIRECTORS

John J. Gillin, Jr., & Harry Burke, WOW, Omaha; Bill Martin, KMMJ, Grand Island.

MEMBER STATIONS

KFAB, Lincoln; KFOR, Lincoln; KGFV, Kearney; KGKY, Scottsbluff; KGNF, North Platte; KHAS, Hastings; KMMJ, Grand Island; KORN, Fremont; KOWH, Omaha; KOIL, Omaha; WJAG, Norfolk; WOW, Omaha; KBON, Omaha.

Network Affiliates, Inc.

Munsey Bldg., Washington, D. C.

OFFICERS

President Eugene C. Pulliam
 (WIRE, Indianapolis, Ind.)
 Vice-President Hulbert Taft, Jr.
 (WKRC, Cincinnati, O.)
 Secretary-Treasurer William J. Scripps
 (WWJ, Detroit, Mich.)

DIRECTORS

Ed Crane, KGIR, Butte, Mont.; W. J. Scripps, WWJ, Detroit, Mich.; Eugene C. Pulliam, WIRE, Indianapolis, Ind.; Ronald Woodyard, WING, Dayton, O.; Luther L. Hill, KRNT, Des Moines, Ia.; H. J. Brennan, KQV, Pittsburgh, Pa.; Hoyt Wooten, WREC, Memphis, Tenn.; John A. Kennedy, WCHS, Charleston, W. Va.; Edgar Bill, WMBD, Peoria, Ill.; Donald Davis, WHB, Kansas City, Mo.; Hulbert Taft, Jr., WKRC, Cincinnati, O.; Leonard H. Kapner, WCAE, Pittsburgh, Pa.

BRANCH OFFICES

Indianapolis: Claypool Hotel; Phone, Riley 1541; Eugene C. Pulliam, President.
 Detroit: 626 West Lafayette Blvd., Phone Randolph 2000; William J. Scripps, Secretary-Treasurer.

FUNCTIONS

All independently owned network affiliates are eligible to membership in Network Affiliates, Inc. Clear channel stations and purely local stations are not eligible for membership. The principal object of the association is to promote and protect the American system of broadcasting as it now functions and to oppose the establishment of super-power stations in the United States. It also serves as a mutual clearing house for network affiliate stations in their relations with the network company, ASCAP, BMI and with the FCC.

ORGANIZATIONS

New Jersey Broadcasters' Association

c/o John C. Bird
WCAP, Asbury Park, N. J.
Phone: Asbury Park 1911

OFFICERS

President A. Harry Zoog
(WTTM, Trenton)
Vice-President I. R. Rosenhaus
(WAAT, Newark)
Vice-President O. L. Maxey
(WSNJ, Bridgeton)
Secretary-Treasurer John C. Bird
(WCAP, Asbury Park)

EXECUTIVE BOARD

A. Harry Zoog, O. L. Maxey, John C. Bird, WCAP, Asbury Park, George S. McGinley, WTTM, Trenton; A. B. Schilkin, WAAT, Jersey City.

Newspaper Radio Committee

370 Lexington Ave., New York, N. Y.
LExington 2-8497

OFFICERS

Chairman Harold V. Hough
Vice-Chairman Walter J. Damm
Treasurer Dean Fitzner

FUNCTIONS

Newspaper Radio Committee was organized by publishers of newspapers owning broadcast stations to present before the FCC their defense against FCC Order No. 79 issued March 20, 1941.

North Carolina Assn. of Broadcasters

President's Office: c/o WSTP, Salisbury, N. C.

OFFICERS

President Bryce P. Beard
(WSTP, Salisbury)
Vice-President F. C. Todd
(WGNC, Gastonia)
Treasurer A. D. Willard
(WST, Charlotte)
Secretary Nathan Frank
(WCBT, Roanoke Rapids)

FUNCTIONS

This association coordinates the activities of all member stations in connection with problems in which they have a mutual interest.

Northern California Broadcasters Association

c/o C. L. McCarthy, Secretary
KQW San Francisco Studios
140 Jessie St., San Francisco, Calif.

OFFICERS

President Arthur Westlund
(KRE, Berkeley)
Secretary-Treasurer C. L. McCarthy
(KQW, San Jose)

FUNCTIONS

The Northern California Broadcasters Assn. is an informal organization established to discuss and work out problems common to the broadcasting stations in the territory.

Ohio Association of Broadcasters

33 N. High St., Columbus, Ohio
Phone, MA 4581

OFFICERS

President Carl Everson
(WHKC, Columbus)
Vice-President Robert T. Mason
(WMRN, Marion)
Secretary-Treasurer Laben T. Smith
(WCOL, Columbus)

Oregon State Broadcasters' Assn.

c/o Lee Bishop, President
KMED, Medford, Ore.

OFFICERS

President Lee Bishop
(KMED, Medford)
Vice-President Arden Pangborn
(KGW-KEX, Portland)
Secretary-Treasurer Henry Swartwood, Jr.
(KOIN-KALE, Portland)
Board Members Frank H. Loggan, Q. Cox

FUNCTIONS

Membership roster of this organization includes all broadcasting stations in Oregon, including state and municipal stations. Purpose is to be of mutual assistance in commercial, management and technical problems by exchange of information and group action if needed.

Pacific Advertising Association

337 Monadnock Building
San Francisco, Calif.
Phone: GARfield 6368

OFFICERS & DIRECTORS

President—Maurice W. Heaton, Vice Pres. & Manager L.A. Office, Williams, Lawrence & Cresmer Co. (Publishers Representatives), 815 South Hill Street, Los Angeles, Calif.
Senior Vice President—George Weber, Manager Seattle Office, Mac Wilkins, Cole & Weber, Advertising Agency, Republic Bldg., Seattle, Wash.
Secretary-Treasurer—Vernon Churchill, Assistant Publisher, The Oregon Journal, Portland, Oregon.
Vice Pres. at Large—Mrs. Lucrezia Kemper, Manager, Albert Frank-Guenther Law, Advertising Agency, 155 Sansome St., San Francisco, Cal.
Vice Pres. Dist. No. 1—Joseph Cornelius, Assistant Cashier The First National Bank in Spokane, Spokane, Wash.
Vice Pres. Dist. No. 2—Walter Wagstaff, Sales Manager, Radio Station KDYL, Salt Lake City, Utah.
Vice Pres. Dist. No. 3—John W. Davis, Secy.-Treas., Ramsay Signs, Inc., 223 S. W. Stark St., Portland, Oregon.
Vice Pres. Dist. No. 4—Robert S. Hunter, President, Hunter Advertising Co., 1924 Franklin St., Oakland, Cal.
Vice Pres. Dist. No. 5—Charles A. Storke, Assistant Publisher, News-Press, de la Guerra Plaza, Santa Barbara, Calif.
Past President—Laurence W. Lane, Publisher, Sunset Magazine, 576 Sacramento St., San Francisco, Calif.
Chairman Finance Committee—Howard Willoughby, Vice Pres. in Charge of Sales, Foster & Kleiser Co., 1675 Eddy St., San Francisco, Cal.
Chairman, Club Service Committee—Elliott C. Hensel, Business Counselor, Arcady Apts., Los Angeles, Cal.
Chairman, Advancement of Business Committee—Don Belding, Chairman of the Board, Foote, Cone & Belding, 601 West Fifth St., Los Angeles, Calif.
Chairman, Pacific Adv. Commission—George W. Kleiser, St., President, Foster & Kleiser Co., 1675 Eddy Street, San Francisco, Calif.

Chairman, Senior Advisory Committee, Junior Division—Robert L. Philippi, Biow Adv. Agency, 300 Montgomery St., San Francisco.
 Chairman, Junior Executive Committee—Edith Grundig, Philip J. Meany Co., Advertising, 816 West Fifth St., Los Angeles, Calif.
 Headquarters Staff—Charles W. Collier, Managing Director, Lela M. Huey, Executive Secretary, 337 Menadnock Building, San Francisco, Cal. Telephone GARfield 6868.

FUNCTIONS

This Association is composed of 22 advertising clubs in 11 western states and of contributing members to the association's advancement of business and "Advertisers for Victory" program.

Pennsylvania Broadcasters Assn.

P. O. Box 11, Harrisburg, Pa.

OFFICERS

President..... Clair R. McCollough
 (WGAL, Lancaster)
 Vice-President..... Clifford Chafey
 (WEEU, Reading)
 Secretary..... C. G. Moss
 (WKBO, Harrisburg)
 Treasurer..... Dr. Leon Levy
 (WCAU, Philadelphia)

DIRECTORS

H. Kenneth Brennen, WJAS, Pittsburgh; George E. Joy, WRAC, Williamsport; Arthur Simon, WPEN, Philadelphia.

FUNCTIONS

This organization is a mutual association of the broadcasting stations of Pennsylvania, formed for the purpose of conducting business negotiations concerning matters of interest to the radio broadcasting stations of the state. Its membership is active on the part of practically every station in the state.

Professional Music Men, Inc.

1270 Sixth Ave., New York, N. Y.
 COlumbus 5-7362

OFFICERS

President..... Rocco Vocco
 First Vice-President..... Joseph Santly
 Second Vice-President..... Charles Warren
 Third Vice-President..... Phil Kornheiser
 Treasurer..... Irving Tanz
 Financial Secretary..... Michael L. Schloss
 Recording Secretary..... Louis E. Schwartz
 Sergeant-at-Arms..... David Kent
 Executive Director..... Bob Miller

BRANCH OFFICES

19 S. La Salle St., Chicago, Ill.
 Regional Director..... Morton Schaefer
 1549 N. Vine Street, Hollywood, Calif.
 Regional Director..... Nat Winecoff
 36 East Fifth Street, Cincinnati, Ohio
 Regional Director..... Danny Engel
 433 Little Building, Boston, Mass.

FUNCTIONS

Charitable and Benevolent Organization.

The Radio Club of America, Inc.

11 W. 42nd St., New York, N. Y.
 LOngacre 5-6622

OFFICERS

President..... F. L. Klingenschmitt
 Vice-President..... O. James Morelock
 Treasurer..... J. J. Stanley
 Corresponding Secretary..... M. B. Sleeper
 Recording Secretary..... J. H. Bose

FUNCTIONS

Object of the club is the promotion of cooperation among those interested in scientific investigation and amateur operation in the art of radio communication. Meetings are held monthly from September through June at Columbia University. Proceedings are published approximately six times a year (see listing under publications contained in this volume).

DIRECTORS

Ernest V. Amy, E. H. Armstrong, H. H. Beveridge, J. H. Bose, G. E. Burghard, J. L. Callahan, E. P. Felch, L. C. F. Horle, H. W. Houck, F. A. Klingenschmitt, Frank King, H. Pratt, M. B. Sleeper.

Radio Correspondents' Association

United States Capitol, Washington, D. C.
 NAtional 3120, Extension 1263

OFFICERS

President..... Eric Sevareid
 (Foreign Service)
 Acting Vice-President..... Earl Godwin
 Secretary..... Richard Harkness
 Treasurer..... Rex Good
 Ex-Officio Member, Executive Committee
 Fred W. Morrison
 Gallery Mgt..... D. Harold McGrath
 Supt. Senate & House Gallery..... Rcbt. M. Menough
 (Military Service)
 Acting Supt. House Gallery..... Wm. Vaughan

FUNCTIONS

This is an organization of radio news reporters and correspondents in the National Capitol, gathering daily news for dissemination through the medium of radio. It controls the membership of the Senate and House radio galleries and is vested with complete responsibility for any radio representatives who attend news conferences at the White House as well as providing facilities for radio news men at national political conventions.

Radio Council—WBEZ

Chicago Public Schools

228 N. La Salle St., Chicago, Ill.
 Deborn 7801

OFFICERS

Superintendent of Schools..... Dr. William H. Johnson
 Acting Director..... George Jennings
 Engineer..... E. H. Anderson

EXECUTIVE COMMITTEE OF SCHOOL BROADCAST CONFERENCE

Maj. Harold W. Kent, Chairman; Judith Waller, National Broadcasting Co.; George Jennings, Director of Conference; David Heffernan, Cook County Schools.

FUNCTIONS

The Radio Council operates a non-commercial educational FM station and is producing group, primarily interested in in-school broadcasts for Chicago schools. It also produces many out-of-school programs over local stations and publishes literature in this connection. It also conducts the annual School Broadcast Conference which is primarily interested in showing ways in which to use radio programs in the classroom; public service programs for community organizations; adult education.

Radio Directors Guild

The Gladstone
 114 E. 52nd St., New York, N. Y.
 PLaza 3-4300.

OFFICERS

President..... Earle L. McGill
 Vice-President and Chairman, Membership Committee..... Jerry Devine
 Treasurer..... Robert L. Shayon
 Secretary..... John Macdonell
 Chairman, War Activities Committee..... Phil Cohan
 Past President..... George J. Zachary
 Past Vice-President..... Maj. Edward A. Byron

COUNCIL

Earle L. McGill, Jerry Devine, Robert L. Shayon, John Macdonnell, Phil Cohan, William M. Sweets, Roger Bower, Theodora Yates, Harold McGee, John W. Loveton.

MEMBERS

Harry Ackerman, Wendell Adams, Private Ira Ashley, Oliver Barbour, John Becker, Lieut. Howard G. Barnes, Joseph Bell, Leonardo Bercovici, Gertrude Berg, Don Bernard, Lawrence Berns, Frederick Bethel, Roger Bower, Stuart Buchanan, Major Edward A. Byron, Edmund L. Cashman, Philip Cohan, Leland F. Cooley, Lieut. Ted Corday, Norman Corwin, Walter Craig, Carlo De Angelo, Guy della-Cioppa, Jerry Devine, John Detz, Mitchell Grayson, Axel Gruenberg, Harry Holcombe, Private Clinton Johnston, Jack Johnstone, Bruce Kamman, Ray Kremer, G. Bennett Larson, Anton M. Leader, Richard Leonard, Marx Loeb, Joseph Losey, Basil Loughrane, John W. Loveton, John Henry Macdonell, Lindsay MacHarrie, Nila Mack, Joseph

ORGANIZATIONS

Mansfield, Sherman A. (Jock) MacGregor, Harold McGee, Earle L. McGill, Arnold Michaelis, Brewster Morgan, Herbert Moss, Arch Oboler, Lester O'Keefe, Herbert S. Polesie, William S. Rainey, Lieut. Irving K. Reis, Thomas L. Riley, Alton Rinker, William N. Robson, Jack Roche, William Rousseau, Herb Sanford, Robert Lewis Shayon, William M. Sweets, Frank Telford, Willson M. Tuttle, Lester Vail, Chick Vincent, Albert Ward, Kenneth Webb, Private Robert Welch, Orson Welles, Theodora Yates, Lieut. George Zachary.

Radio Executives Club of New York

403 Madison Ave., New York, N. Y.

OFFICERS

President M. B. Grabhorn
 Vice-President Beth Black
 Secretary Warren Jennings
 Treasurer Ninette Joseph

FUNCTIONS

The major functions of the Radio Executives Club are: (1) to promote and encourage the use of radio broadcasting as an advertising medium; (2) to create a lasting fraternity of persons engaged in the business of radio; (3) to promote a better understanding of radio broadcasting and its attending problems; (4) to maintain a central bureau of employment for members of the club; (5) to provide a common meeting place for all persons engaged in the business of radio. Meetings are held twice monthly from October to May and membership is open to anyone engaged in the business of radio, subject to approval of the membership committee.

Radio Manufacturers Association

1317 F Street, N. W., Washington, D. C.
 National 4901

OFFICERS

President Paul V. Galvin
 (Galvin Manufacturing Corp.)
 Executive Vice-President-General Manager-Secy.
 Bond Geddes
 Vice-President R. C. Cosgrove
 (Crosley Corp.)
 Vice-President M. F. Balcom
 (Sylvania Electric Products, Inc.)
 Vice-President W. P. Hilliard
 (Bendix Radio)
 Vice-President J. T. White
 (Jensen Radio Mfg. Co.)
 Vice-President Ray E. Sparrow
 (P. R. Mallory & Co., Inc.)
 Treasurer Leslie Muter
 (The Muter Co.)
 General Counsel John W. Van Allen
 (Buffalo, N. Y.)

DIRECTORS

Term Expiring 1944

E. Alschuler, Electrical Research Laboratories, Inc.; W. R. G. Baker, General Electric Company; Floyd C. Best, Chicago Telephone Supply Co.; George R. Blackburn, Chicago Transformer Corporation; A. Blumenkrantz, General Instrument Corporation; Roy Burlew, Ken-Rad Tube & Lamp Corporation; Walter Evans, Westinghouse Electric & Manufacturing Co.; A. H. Gardner, Colonial Radio Corporation; W. P. Hilliard, Bendix Radio; J. J. Kahn, Standard Transformer Corporation; Ray H. Manson, Stromberg-Carlson Co.; Ray F. Sparrow, P. R. Mallory & Co., Inc.; R. C. Sprague, Sprague Specialties Company; A. S. Wells, Wells-Gardner & Co.; T. A. White, Jensen Radio Manufacturing Co.

Term Expiring 1945

Ben Abrams, Emerson Radio & Phonograph Corp.; M. F. Balcom, Sylvania Electric Products, Inc.; R. C. Cosgrove, The Crosley Corporation; L. L. Kelsey, Stewart-Warner Corporation; J. J. Nance, Zenith Radio Corporation; Glenn W. Thompson, Noblitt-Sparks Industries, Inc.

Term Expiring 1946

John Ballantyne, Philco Corp.; P. S. Billings, Belmont

Radio Corp.; C. B. Jolliffe, RCA; Paul V. Galvin, Galvin Mfg. Corp.; E. A. Nicholas, Farnworth Television & Radio Corp.; David T. Schultz, Raytheon Prod. Corp.

Radio Manufacturers Assn. of Canada

159 Bay St., Toronto, Ont., Canada
 Adelaide 1531

OFFICERS

President L. A. Young
 Vice-President R. M. Brophy
 Executive Secretary W. W. Richardson
 Chairman of Parts Division R. Randal
 Chairman of Engineering Committee C. J. Irwin

FUNCTIONS

This association is a non-profit and co-operative organization founded in 1926 to promote the interests of the radio manufacturing industry in Canada.

Radio Script & Transcription Exchange, Federal Radio Education Committee

U. S. Office of Education, Washington, D. C.
 Republic 1820, Extension 2225

OFFICERS

Director R. R. Lowdermilk

FUNCTIONS

The exchange is designed to promote more effective local broadcasting by educational and civic organizations and radio stations by serving as a clearing house for selected educational radio scripts, transcriptions and production aids, and as a source of all kinds of information pertaining to the field of educational radio.

Radio Technical Planning Board

OFFICERS

Chairman Dr. Walter R. G. Baker
 Vice-chairman Dr. Alfred N. Godsmith
 Treasurer Bond Geddes
 Coordinator L. C. F. Horle
 Secretary W. B. Cowlich
 Asst. Secretary Mrs. Martha Kinzie
 Spectrum Utilization: A. N. Goldsmith, chairman;
 R. H. Manson, vice-chairman.
 Frequency Allocation: C. B. Jolliffe, chairman; F. M. Ryan, vice-chairman.
 H. F. Generation: R. M. Wise, chairman; H. F. Argento, vice-chairman.
 Standard Broadcasting: Howard Frazier, chairman; Burgess Dempster, vice-chairman.
 V. H. F. Broadcasting: G. E. Gustafson, chairman;
 C. M. Jansky, vice-chairman.
 Television: D. B. Smith, chairman; I. J. Kaar, vice-chairman.
 Facsimile: J. V. L. Hogan, chairman; C. J. Young, vice-chairman.
 Radio Communication: Haraden Pratt, chairman;
 H. H. Beverage, vice-chairman.
 Relay Systems: E. W. Engstrom, chairman; Ralph Bown, vice-chairman.
 Radio Range, Direction & Recognition: W. P. Hilliard, chairman; C. G. Fick, vice chairman.
 Aeronautical Radio: D. W. Rentzel, chairman;
 D. K. Martin, vice-chairman.
 Ind., Scientific & Medical Equipment: C. V. Aggers, chairman; H. B. Marvin, vice-chairman.
 Police, Emergency Services: D. E. Noble, chairman; Frank Walker, vice-chairman.

FUNCTIONS

The RTPB formulates plans for the technical future of the radio industry and services, including frequency allocations and systems standardization, in accordance with the public interest and the technical facts. The Planning Board advises government, industry and the public of its recommendations. Such planning is restricted to engineering considerations.

The Radio Writers' Guild of the Authors' League of America, Inc.

6 E. 39th Street, New York, N. Y.
Murray Hill 5-6930

OFFICERS

National President Louis Scofield
Vice Presidents: Eastern Region Peter Lyon
Middle Western Region Kenneth Pettus
Western Region Sam Moore

Offices:

New York City: 6 East 39th Street.
Hollywood: 1655 North Cherokee.
Chicago: Room 1116, 360 N. Michigan.

NATIONAL COUNCIL

Georgia Backus, Erik Barnouw, Sylvia Berger, John Boylan, Norman Corwin, David De Koven, John Dunkel, Leslie Edgley, Julian Funt, Sidney Gerson, Neal Hopkins, Pauline Hopkins, Chester Huntley, Nikki Kaye, Jerome Lawrence, Robert H. Lochner, John T. Madigan, Carlton E. Morse, Arch Oboler, David Feitz, Don Quinn, George Roosen, Ashmead Scott, William L. Shirer, Lynn Stone, Louis Terkel, John Thompson, Everett Tomlinson, Ruth Walliser, Kenneth Webb.

Rocky Mountain Radio Council, Inc.

21 East 18th Ave., Denver 2, Colo.
KEystone 5306

OFFICERS

President C. B. Hershey
Secretary William M. Spackman
Treasurer E. A. Conway, S. J.
Director Robert B. Hudson

EXECUTIVE COMMITTEE

Glenn Kinghorn, Ben M. Cherrington, W. D. Armenn-trout, Malcolm G. Wyer.

FUNCTIONS

The Rocky Mountain Radio Council is a non-profit corporation of 29 organizations formed to give professional aid to educational organizations in planning, preparing and producing their radio broadcasts. In 1943 it produced 351 programs for 22 organizations, which were re-broadcast 1,936 times from 21 commercial radio stations in the Rocky Mountain region. Recording studio facilities available for commercial work.

SESAC, Inc.

475 Fifth Ave., New York 17, N. Y.
Murray Hill 5-5365.

OFFICERS

President Paul Heinecke
Treasurer R. C. Heinecke

FUNCTIONS

Licensing use of copyrighted music.

Society of Jewish Composers, Publishers and Song Writers

152 W. 42nd St., New York, N. Y.
Longacre 5-9124

OFFICERS

President Sholom Secunda
Vice-President Rev. Pinchus Jassinowsky
Treasurer Alexander Olshanetsky
Secretary Henry Lefkowitz
General Manager Salom J. Perlmutter
Counsel A. Edward Masters

FUNCTIONS

This association licenses public performance rights of music copyrighted by its members and on which they collect royalties. Association owns approximately 95 percent of the Jewish compositions.

Society of Motion Picture Engineers

Hotel Pennsylvania, New York, N. Y.
Pennsylvania 6-0620

OFFICERS

President Herbert Griffin
Past President Emery Huse
Executive Vice-President Loren L. Ryder
Engineering Vice-President D. E. Hyndman
Editorial Vice-President A. C. Downes
Financial Vice-President A. S. Dickinson
Convention Vice-President W. C. Kunzmann
Secretary E. Allan Williford
Treasurer M. R. Boyer

GOVERNORS

C. R. Keith, C. W. Handley, W. A. Mueller, H. W. Remerschied, W. V. Wolfe, E. J. Sponable, R. O. Strock, J. H. Spray, H. W. Moyses, F. E. Carlson, E. M. Honan, J. A. Maurer.

FUNCTIONS

In addition to its motion picture activities, this association is actively interested in television. It publishes a monthly organ in which various subjects are discussed by men in the industry.

Song Writers' Protective Association (SPA)

1250 Sixth Ave., New York 20, N. Y.
Columbus 5-3758

OFFICERS

President Sigmund Romberg
Vice-President Stanley Adams
Second Vice-President Ira Gershwin
Secretary Charles Tobias
Treasurer Abel Baer
Counsel John Schulman
Executive Secretary Sayre Marder
West Coast Representative L. Wolfe Gilbert

FUNCTIONS

Song Writers' Protective Association aims to foster the interests of all persons engaged in writing musical compositions. By cooperative effort it seeks to eliminate inequitable conditions and harmful practices and to assist members when disputes arise over enforcement of contracts or the collection of royalties.

Southern California Broadcasters' Association, Inc.

542 S. Broadway, Los Angeles 13, Calif.
Michigan 8654

OFFICERS

President Lawrence W. McDowell
(KFOX, Long Beach)
Secretary-Treasurer Harry Maizlish
(KFWB, Los Angeles)
Chairman, Exec. Comm. Van C. Newkirk
(KHI, Hollywood)
Dir. Radio Coordination Ethel M. Bell

FUNCTIONS

Membership of the Southern California Broadcasters' Association is composed of 30 southern California stations and 4 networks, represented in each case by its manager or senior executive. Meetings are devoted to discussion of industry problems, such as ASCAP, BMI, labor, engineering, code of ethics, agency recognition, coordination with governmental agencies, civic activities, etc.

Sports Broadcasters Association (New York Chapter)

c/o Tom Slater, 1440 Broadway, New York, N. Y.
Pennsylvania 6-8600

OFFICERS

President Stan Lomax
Vice-President Ted Husing
Vice-President Bert Lee
Treasurer Marty Glickman
Secretary Tom Slater

FUNCTIONS

It is the object of the Sports Broadcasters Association to promote the standard of the profession of sports broadcasting among its members and to disseminate sports information to its members through a regular weekly luncheon. Membership is restricted to any male person who is actively engaged in the profession of sports broadcasting whether as an announcer, commentator or writer.

Television Press Club

Temporary Address:
Office of the Organizational Chairman: Richard W. Hubbell, 30 Rockefeller Plaza, 11th floor, New York 20, N. Y.
Circle 6-0200

ORGANIZATIONAL COMMITTEE

A. W. Bernsohn, "Click"; Joseph Guilfoyle, "Wall Street Journal"; Richard W. Hubbell, television author

ORGANIZATIONS

and consultant; Hermine Isaacs, "Theatre Arts"; Ben Kaufman, RADIO DAILY; Stanley Kempner, "Retailing Home Furnishings"; T. R. Kennedy, Jr., "The New York Times"; Wanda Marvin, "The Billboard"; Mike Wear, "Variety," R. Bruce Lee, "The Christian Science Monitor," and Lewis Winner, "Communications."

FUNCTIONS

A non-profit, unsponsored organization, this informal group was formed in 1944. Membership is limited to the professional television press—writers covering tele for newspapers, magazines, the trade press, books, films and radio. Purpose is to foster the sound development of television by serving as a focal point for members of the tele press to meet regularly and discuss current trends. Prominent figures in television are invited as guest speakers for the monthly luncheon meetings.

Twenty Year Club

167 East 64th St., New York, N. Y.
REgent 4-3344
Founder H. V. Kaltenborn

FUNCTIONS

The Twenty Year Club is an Honor Roll of men and women who have been associated with radio for twenty years. There are no dues, fees, officers, regular meetings or other obligations. A year-book is published annually.

United States Department of Interior— Radio & Television Section

Interior Department Radio Studios, Washington, D. C.
Republic 1820

PERSONNEL

Director Shannon Allen
Chief Script Writer Louis J. Hazam
Chief Engineer Henry P. Meisinger

FUNCTIONS

The Radio & Television Section of the Interior Department reports the functions and services of the offices and bureaus of the Department using all forms of radio and transcription production; serves all agencies of the Federal government through its studios and transcription production facilities.

Radio Sub-Committee, War Activities Committee, Motion Picture Industry— Hollywood Branch

5504 Hollywood Blvd., Hollywood, Calif.
Phone, GL 6111.

MEMBERS

Daniel Danker, J. Walter Thompson Co.; William Forbes, Columbia Broadcasting System; Don Gilman, National Broadcasting Co.; Donald W. Thornburgh, Columbia Broadcasting System.

FUNCTIONS

This sub-committee assists the War Activities Committee-Motion Picture Industry-Hollywood Branch in radio matters in coordinating production. The main committee is the official production body to whom all requests for governmental and private agencies should go.

Washington State Association of Broadcasters

207 East Market St., Aberdeen, Wash.
Aberdeen 4098

OFFICERS

President Harry R. Spence
(KXRO, Aberdeen)
Vice-President Rogan Jones
(KVOS, Bellingham)
Secretary-Treasurer Robert Priebe
(KRSC, Seattle)

FUNCTIONS

The Washington State Association of Broadcasters is an organization formed for the mutual protection, the exchange of commercial ideas and the education of its members in matters pertaining to radio.

Western Association of Broadcasters

C/o Radio Station CFRN, 109 C.P.R. Bldg.,
Edmonton, Alberta, Canada
Telephone 22101

OFFICERS

President G. R. A. Rice
(CFRN, Edmonton, Alberta)

DIRECTORS

Alberta: Bert Cairns, CFAC, Calgary; Manitoba: Roy Wright, CFAR, Flin Flon; Saskatchewan: Lloyd Moffatt, CKBI, Prince Albert.

CANADIAN ASSOCIATION OF BROADCASTERS

DELEGATES

G. R. A. Rice, CFRN, Edmonton, Alberta; A. A. Murphy, CFQC, Saskatoon, Saskatchewan; C. Gaetz, CJRC, Winnipeg, Manitoba; R. White, CFJC, Kamloops, British Columbia.

FUNCTIONS

Western Association of Broadcasters is a regional trade association of broadcasting stations west of the Great Lakes, closely affiliated with the Canadian Association of Broadcasters. It is virtually a western division of the latter organization, as majority of members are in both associations.

Woman's National Radio Committee

113 West 57th St., New York 19, N. Y.
Circle 7-4110

OFFICERS

Chairman Mme. Yolanda Mero-Irion
Vice-Chairman Mrs. D. Leigh Colvin
Second Vice-Chairman Mrs. Marion M. Miller
Secretary Miss Helen Havener
Treasurer Mrs. M. D. Jackson
Executive Secretary Mrs. Rosalie Wolf
Members-At-Large Mrs. Sidonie M. Gruenberg,
Mrs. Samuel Kubie, Mrs. Mary F. Larkin, Mrs.
Marion M. Miller, Mrs. Emory Ross, Mrs. Stanley
Woodward, Mrs. Jesse M. Bader.

FUNCTIONS

This committee has for its purpose to raise the standard of radio programs for adults, young people and children by: (1) retaining on the air the finer type of program; (2) removing objectionable features; (3) improving advertising content of broadcasts; (4) encouraging the production and presentation of more fine programs, worthwhile from the educational, cultural and entertainment viewpoint.

Writers' War Board

122 E. 42nd St., New York 17, N. Y.
MUrray Hill 3-6800

OFFICERS

Chairman Rex Stout

EXECUTIVE BOARD

Franklin P. Adams, Carl Carmer, Robt. T. Calwell, Russel Crouse, Clifton Fadiman, Paul Gallico, Jack Goodman, Samuel Grafton, Oscar Hammerstein II, Rita Halle Kleeman, Robert J. Landry, Margaret Leech, John P. Marquand, Katherine Seymour, William L. Shirer, Luise Silcox.

FUNCTIONS

The Writers' War Board serves as liaison between the writers of America and government agencies wishing to obtain written work that will directly, or indirectly, help to win the war; and to piece with the proper government department ideas or places of writing which have been submitted by writers to the Board and approved by them.

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS

As of January 1, 1944

<i>Call Letters</i>	<i>Institutions</i>	<i>Address</i>	<i>Director</i>
KFJM	Univ. of N. Dakota	Grand Forks, N. D.	D. R. Jenkins
KFKU	Univ. of Kansas	Lawrence, Kansas	Harold G. Ingham
KOAC	Oregon State College	Corvallis, Oregon	Allen Miller
KWLC	Luther College	Decorah, Ia.	Karl Hanson
KWSC	State College of Wash.	Pullman, Wash.	
WBAA	Purdue University	Lafayette, Ind.	Gilbert D. Williams
WBEZ	Chicago Radio Council	Chicago, Ill.	George Jennings
WCAL	St. Olaf College	Northfield, Minn.	David Johnson
WCAT	S. Dakota School of Mines	Rapid City, S. D.	C. M. Rowe
WHCU	Cornell University	Ithaca, N. Y.	Michael R. Hanna
WHA	Univ. of Wisconsin	Madison, Wis.	H. B. McCarty
WHAZ	Rensselaer Poly.	Troy, New York	W. J. Williams
WILL	Univ. of Illinois	Urbana, Ill.	Jos. F. Wright
WNAD	Oklahoma University	Norman, Okla.	Virginia Hawk
WNYC	City of New York, Municipal Broadcasting System	New York, N. Y.	M. S. Novik
WOI	Iowa State College	Ames, Iowa	W. I. Griffith
WOSU	Ohio State University	Columbus, Ohio	R. C. Higgay
WRUF	Univ. of Florida	Gainesville, Fla.	Garland Powell
WSAJ	Grove City College	Grove City, Pa.	H. W. Harmon
WSUI	State Univ. of Iowa	Iowa City, Iowa	Carl Menzer
WRUL & WRUW	World Wide Broadcasting Foundation	Boston, Mass.	Walter S. Lemmon
WTAW	Texas A. & M.	College Station	J. J. Woolket

Associate Members

University of Kentucky	Lexington, Ky.	Elmer G. Sulzer
University of Michigan	Ann Arbor, Mich.	Waldo Abbot
Syracuse University	Syracuse, N. Y.	Kenneth G. Bartlett
Western State Teachers College	Kalamazoo, Mich.	Wallace L. Garneau
Indiana University	Bloomington, Ind.	Lee Norvelle
		H. J. Skornia
Detroit Public Schools	Detroit, Mich.	Kathleen Lardie
University of Minnesota	Minneapolis, Minn.	Burton Paulu
University of Minnesota	Minneapolis, Minn.	E. W. Ziebarth
KIRO	Seattle, Wash.	Kenneth Yeend



— FCC LIST OF NON-COMMERCIAL — EDUCATIONAL BROADCAST STATIONS

<i>Licensee and Location</i>	<i>Call Letters</i>	<i>Frequency (Kc)</i>	<i>Power</i>
Board of Education of Buffalo, Buffalo, N. Y.	WCAH	42900	1000 w
Board of Education of San Francisco, Unified School District, San Fran- cisco, Calif.	KALW	42100	1000 w
Board of Education, City of Chicago, Chicago, Ill.	WBEZ	42500	1000 w
University of Illinois Urbana, Ill.	WIUC	42900	250 w
University of Kentucky, Beattyville, Ky.	WBKY	42900	100 w
Board of Education, City of New York, Brooklyn, N. Y.	WNYE	42100	1000 w
Cleveland City Board of Education, (Charles H. Lake, Superintendent) Cleveland, Ohio	WBOE	42500	1000 w

FCC REGULATIONS

The term "non-commercial educational broadcast station" means a station licensed to an organized non-profit educational agency for the advancement of its educational work and for the transmission of educational and entertainment programs to the general public.

Operation and Service

The operation of, and the service furnished by, non-commercial educational broadcast stations shall be governed by the following regulations:

(a) A non-commercial educational broadcast station will be licensed only to an organized non-profit educational agency and upon a showing that the station will be used for the advancement of the agency's educational program particularly with regard to use in an educational system consisting of several units.

(b) Each station may transmit programs directed to specific schools in the system for use in connection with the regular courses as well as routine and administrative material pertaining to the school system and may transmit educational and entertainment programs to the general public.

(c) Each station shall furnish a non-profit and non-commercial broadcast service. No sponsored or commercial program shall be transmitted nor shall commercial announcements of any character be made. A station shall not transmit the programs of other classes of broadcast stations unless all commercial announcements and commercial references in the continuity are eliminated.

Power Requirements

The operating power of non-commercial educational broadcast stations shall be not less than 100 watts or greater than 1000 watts unless a definite need for greater power is shown.

The transmitter of each non-commercial educational broadcast station shall be equipped with automatic frequency control apparatus so designed and constructed that it is capable of maintaining the operating frequency within plus or minus 0.01 percent of the assigned frequency.

Non-commercial educational broadcast stations are not required to operate on any definite schedule or minimum hours.

The transmitting equipment, installation, and operation as well as the location of the transmitter shall be in conformity with the requirements of good engineering practice as released from time to time by the Commission.

Frequencies Allotted

The following frequencies are allotted for assignment to non-commercial educational broadcast stations:

42,100 kc.	42,300 kc.
42,500	42,700
42,900	

Stations serving the same area will not be assigned adjacent frequencies.

Frequency modulation shall be employed exclusively unless it is shown that there is a special need for the use of amplitude modulation.

Only one frequency will be assigned to a station.



TELEVISION



*A Look at What
Has Gone Before and
a Preview of the
Developments to Come*



Television
Is Important
In The War Effort

Its Coming
Possibilities
Are Tremendous

For Television
Developments
Read
Radio Daily
Regularly

TELEVISION TODAY AND TOMORROW

By *Ben Kaufman*

Staff Writer, RADIO DAILY

TOTAL war has failed to blot television from the horizon. In fact, technological improvements by the armed forces have opened up shining post-war vistas for the 15-year-old electronic prodigy. Coupled with growing demand, the new medium awaits only the peace to swell the quota of employment and entertainment in our time.

Progress of post-war television was generally interpreted in March, 1944, as dependent on the precocious fledgling's eventual place in the spectrum. Allocation problems were then being mulled by the Radio Technical Planning Board, whose recommendations were expected to be signposts for future action by the Federal Communications Commission.

Frequency Problems

Opinion was divided as to whether television would benefit from being moved to the higher frequencies. Many telecasters indicated that such a change would delay the development of the new art. Another problem for the tele broadcaster was posed by the demands of commercial frequency-modulation interests for a greater number of channels. Granting of the FM requests by the FCC, the tele group largely believed, would drive television farther up in the spectrum to frequencies, which tele engineers were unable to use for sight-and-sound broadcasting.

Forerunner of the RTPB was the National Television Systems Committee. This independent organization was formed in 1940 under the sponsorship of the Radio Manufacturers Association with the blessing of the FCC. Purpose of the Committee was to settle the chaotic condition of independent television systems and resolve them into a universal set of standards. Adoption of the NTSC's recommendations for commercial

standards by the FCC gave television the green light. The Committee's work, which was overcast by U. S. entry into the war, planted the thought that resulted in the formation of the RTPB.

Intensive preparations for almost a year preceded the launching of the Planning Board in September, 1943. Originally sponsored by the Institute of Radio Engineers and the Radio Manufacturers Association, the RTPB in March, 1944, consisted of representatives from 16 sponsoring non-profit organizations. Acting in the same manner as a board of directors, the Planning Board supervised the work of 13 panels to which engineers were nominated by top companies in the radio industry. At that time the work of the RTPB involved more than 125 companies and a personnel of about 450. Of the Board's panels, the television panel then had six subcommittees. Recommendations of the tele unit were scheduled to be submitted to the RTPB, which was to report its findings, on request, to the FCC, other governmental agencies and industrial and professional organizations.

Television Organizes

Significant, too, was the formation in January, 1944, of the Television Broadcasters Association, Inc. After several months of organizational preliminaries, telecasters, advertising agencies and equipment companies banded together at a meeting in Chicago's Palmer House to promote the development of television broadcasting.

Establishment of TBAI was envisioned as a prelude to the post-war growth of large-scale television. Eligibility for voting memberships was restricted to tele broadcasters, construction-permit holders and active applicants for licenses. Non-voting members were to consist of all others interested in television.



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TELEVISION HIGHLIGHTS—1943

(From the Files of RADIO DAILY)

A review of the past year's television events indicates the tremendous post-war possibilities of the sight-and-sound medium. Increasing momentum is evident from the upward surge of activity reported in the columns of RADIO DAILY, especially during the last six months. The following pages contain the recorded highlights of the year in television.

JANUARY

- Jan. 10—Philco's Philadelphia tele outlet, WPTZ, resumed broadcasts after a seven-week absence from the spectrum since the closing of the football remotes from Franklin Field.
- Jan. 14—Dr. Walter R. G. Baker, vice-president of General Electric in charge of electronics, told a luncheon session of the American Marketing Association in New York that it would take about ten years after the war for television to digest current developments.
- Jan. 19—Robert B. Stone was reported new program manager of WRGB, GE tele unit in Schenectady, N. Y., succeeding John G. T. Gilmour, who resigned to accept a commission in the Army.

FEBRUARY

- Feb. 9—Western Defense Area was reported to have instituted semi-weekly tele broadcasts over W6XYZ, Paramount-owned studio on the film-company lot, for the training of civilian-defense personnel. . . Listing of stockholders of Scophony Corp. of America revealed that two major film companies had bought into the new equipment firm—Paramount, through its subsidiary, Television Productions, Inc., and Twentieth Century-Fox, through General Precision Equipment Corp. . . Irvin Ray Baker, tele pioneer and head of RCA's broadcast transmitter sales, died at work in Camden, N. J.
- Feb. 24—Arthur Levey, founder, director and major stockholder in Scophony, Ltd., was signed to a five-year contract as president of Scophony Corp. of America. . . FCC ruled that holders of construction permits for tele outlets might obtain licenses during the war to operate existing facilities on either an experimental or commercial basis, provided construction had reached a point where the station was capable of rendering a substantial service.

MARCH

- Mar. 8—FCC Chairman James L. Fly forecast chain operation for tele by radio relay.

APRIL

- Apr. 19—Government control over some of the more valuable tele patents, which had resulted from wartime experimentation, was predicted by FCC chief James L. Fly.
- Apr. 20—Tele images in color and three dimensions were reported to have been produced in England since the war, according to John L. Baird, inventor.

MAY

- May 5—Major part of televising will be spot-news broadcasting from scenes of action, even if broadcasters have to promote a sports event or two, stated Noran E. Kersta, manager of NBC's tele department. . . Experimental tele series for production staffs of ad agencies at W2XWV, Du Mont's New York studio, teed off before a large agency attendance.
- May 13—Television must adequately develop a unique capacity in presenting something better than what exists today before it can establish the selling point of television, stated Worthington C. Miner, CBS tele official, in a published interview. . . Post-war tele expansion and the establishment of hundreds of television theaters were forecast by Will Baltin, program director of W2XWV, in an address before the American Television Society.

JUNE

- June 2—Automatic radio-relay outlets were described as the key to network tele by Ralph R. Beal, research director of RCA Laboratories, in a speech before the Institute of Finance at the New York Stock Exchange.

June 4—Stockholders of Allen B. Du Mont Laboratories, Inc., voted to split up each share of Class-A common stock into ten shares of Class-A common, and each share of Class-B common stock into ten shares of Class-B common.

June 22—WOR, Mutual's New York outlet, arranged a production tie-up with Du Mont for a weekly one-hour telecast.

June 24—American Television Society notified General Electric that it will be presented with the Society's plaque for "the greatest contribution to television of the year," and similarly informed NBC that it will receive the award for "the greatest contribution to the use of television as a public service."

JULY

July 8—Local 802 of the American Federation of Musicians began an investigation of rates and working arrangements at W2XWV, New York, with a union exec. stating that the regular Class-A standard broadcast rates for single engagements applied to tele.

July 13—WOR, New York, inaugurated a regular one-hour weekly tele program over W2XWV, the Du Mont outlet, in lieu of its own facilities, application for which has been pending before the FCC since August, 1939.

July 21—New York afternoon papers played up the statement by Ralph R. Beal, RCA Lab.'s research director, that tele for family use would be ready immediately after the war.

July 29—Royal Crown Cola sponsored its first tele flyer, running about three minutes, on WRGB, Schenectady, General Electric's news bureau announced. . . Advertisers and ad agencies were seen as setting the rules for commercial presentation of tele after the war, Sam Cuff, of W2XWV, New York, told a meeting of the American Television Society.

AUGUST

Aug. 2—BBD&O scheduled three accounts to take part in a one-hour weekly telecast over WRGB, Schenectady. Clients were B. F. Goodrich Rubber Co., Lever Bros. (for Vimms) and Hamilton Watch Co.

Aug. 10—Seven new tele outlets would be built on the Coast in the post-war period, it was reported in a speech by William M. Bland, manager of General Electric's western-region electronics department, before the San Francisco Advertising Club. Plans, he said, called for three transmitters in San Francisco and four in the Los Angeles area.

Aug. 17—Lower-priced tele receivers after the war were predicted by Paul L. Chamberlain, of General Electric, due to manufacturing experience gained in wartime production of electronic equipment.



TOM
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BREAKFAST
AT
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over
THE BLUE NETWORK

Aug. 19—Arthur Levey, president of Scophony Corp. of America, said that the skiatron method of tele would be developed in this country by his company in addition to the supersonic method controlled by Scophony.

Aug. 23—Post-war expansion of NBC tele was announced by Niles Trammell, the network's president, with the appointment of a special committee to keep abreast of such activities. Committee consisted of: John Royal, vice-president in charge of the international, shortwave and tele divisions, chairman; William S. Hedges, vice-president in charge of stations; O. B. Hanson, vice-president and chief engineer, and Clarence L. Menser, vice-president and manager of the program department. John T. Williams, assistant to Noran Kersta, now in the Marines, was named secretary.

Aug. 30—Cheaper tele receivers covering greater distances, and including color, were forecast for the post-war period by Gilbert Seldes, CBS tele program chief, in a recent interview at Montreal before he sailed on a vacation cruise.

SEPTEMBER

Sept. 7—New musicians' scale for tele was reported in effect by the AFM on orders of James C. Petrillo, international president. Rates were announced as \$18 per man for broadcasts of one hour or fraction thereof, and \$6 for similar rehearsal periods, with the leader's fee double these amounts—all services figured on a single-engagement scale.

Sept. 13—Nat Wolff, West Coast chief of the OWI Radio Bureau, was reported to have resigned to join M-G-M as head of the film company's new tele department.

Sept. 14—Post-war planning committee was established by the American Television Society to work with the Radio Technical Planning Board and to make recommendations to the FCC, tele manufacturers and operators.

Sept. 16—Columbia Concerts, Inc., announced the appointment of Walter Preston as director of the agency's radio-television department.

Sept. 21—Farnsworth Television and Radio Corp. was reported to have received WPB authorization for expanding its engineering, laboratory and manufacturing facilities at a cost of about \$250,000.

Sept. 21—Two basic patents involving large-scale tele, both in black-and-white and natural color, were granted to Scophony Corp. of America, according to Arthur Levey, president of SCA.

Sept. 24—Botany Worsted Mills, one of NBC's pioneer tele commercials, was reported to have resumed on WNBT, New York, after having been off the outlet for a year and a half due to the station's cut in time schedule from 15 to four hours weekly.

OCTOBER

Oct. 3—Practical use of tele as an aid to police detection was demonstrated for the first time when the Missing Persons Bureau of the New York City Police Department flashed pictures of missing people over W2XWV, the Du Mont tele outlet in Gotham.

Oct. 12—Arrangements were completed by NBC to pick up major sports events and other spectacles from Madison Square Garden for the enjoyment of hospitalized servicemen in the metropolitan area. Receivers were installed by the web in service hospitals.

Oct. 14—Tele set survey was reported under way by NBC within the range of WNBT, New York.

Oct. 18—RKO Corp. appointed Ralph B. Austrian, a former assistant vice-president of RCA Manufacturing Co., Inc., to make a survey of the tele and radio fields.

Oct. 22—Klaus Landsberg, tele director of W6XYZ, subsidiary of Paramount Pictures in Hollywood, Calif., was reported urging post-war tele planning at the convention of the Society of Motion Picture Engineers in the film capital. Television would encounter difficulties in moving to higher frequencies, he emphasized.

Oct. 25—NBC televised the eighteenth annual world-championship rodeo from Madison Square Garden, New York.

NOVEMBER

Nov. 4—Theater tele was forecast as a post-war certainty by Ewell K. Jett, chief engineer of the FCC. Its main function, he added, would be to report special events, such as football games or other spectacles, rather than replace the motion picture. . . . Telecast of a special ten-page edition of the Albany (N. Y.) "Times-Union" was presented by General Electric over WRGB, Schenectady, before a jury of 50 press representatives. Show alternately reproduced printed page and tele enactment.

Nov. 9—Three-color tele process was patented by Dr. E. F. W. Alexanderson, veteran consulting engineer for General Electric and inventor of the Alexanderson alternator, which put the voice in radio.

Nov. 10—Tele was given trade impetus at the joint meeting of the American Television Society and the New York Advertising Club in the latter's headquarters. Advertisers, agency executives, tele broadcasters, equipment and film company representatives heard speeches by key figures and witnessed a demonstration of the art.

Nov. 15—American Television Society declined an invitation of membership in the Radio Technical Planning Board. Major reason given by ATS in a letter to Dr. Walter R. G. Baker, RTPB chairman, was that the primary obstacles which tele must surmount

were not of a technical nature at this time, inasmuch as technical development was far ahead of programming knowledge and experience.

- Nov. 16—Blue Network affiliates in major cities were advised to file for tele licenses at the web's Chicago meeting of station owners and managers. The network, it was announced, would shortly apply for tele and FM licenses in New York, Chicago, Los Angeles and San Francisco. . . Publication of a survey by RADIO DAILY indicated a high commercial potential in the post-war period for both tele and FM. Censensus chose tele as the important factor for long-range development, gave sponsored FM airings the edge for the period directly following the war.
- Nov. 17—Operating condition of more than 80 per cent of 1,434 tele receivers, which were tabulated by NBC out of a total of about 5,000 in the New York area, was revealed as fair or better in the net's set survey made public by John T. Williams, manager of the tele department.
- Nov. 19—Application for an experimental tele outlet in Salt Lake City was announced as filed with the FCC by KDYL, which was said to have been experimenting with RCA demonstration equipment for several years.
- Nov. 29—Tele film was produced and televised in eight hours for the premiere of "The Voice of Firestone Televues," a half-hour commercial series over NBC's WNBT, New York. . . Dr. Palmer H. Craig, head of the University of Florida's electrical engineering department, announced his invention of a new system of tele broadcasting via standard radio channels.

DECEMBER

- Dec. 1—Replacement of "B" film theater fare by tele was forecast by Gilbert Seldes, director of CBS tele programs, in a speech before the Dayton Kiwanis Club. The Columbia executive also stated that it might take between five and 15 years following the war until tele could be put into every home. . . Television, like radio, would find its great fulfillment in the home, Clarence L. Menser, NBC vice-president in charge of programs, told the Public Relations Clinics of the United States Savings and Loan League in Chicago.
- Dec. 7—Present FCC regulations imposed a strait jacket on the creation of tele networks by prohibiting ownership of more than three tele stations by any one company. Niles Trammell, NBC president, told the Senate Interstate Commerce Committee. NBC plans for post-war tele development, he disclosed, were to begin network operations in the East, with stations in Boston, New York, Philadelphia, Baltimore and Washington, then open a similar web on the Pacific Coast and others centering
- around Denver, Cleveland and other large cities. In order to carry out this plan, however, it would be necessary for NBC to own more than three tele outlets, since Trammell felt it essential that the network own the key station in each of these projected networks. . . Film transcription of one-reel serial installments for future tele use was revealed as a feasible project in an interview with Ralph B. Austrian, RKO tele and radio consultant.
- Dec. 9—Classroom tele for Chicago schools was announced to have been planned on a weekly schedule over W9XBB, the Balaban & Katz outlet, by the Radio Council of Public Schools in the Windy City.
- Dec. 10—Operation of 1,000 tele outlets and 25,000,000 receiving sets within the next ten years was predicted by O. B. Hanson, NBC v.-p. and chief engineer, in testimony before the Senate Interstate Commerce Committee. Theater tele was forecast by Hanson for early projection in black and white as a new medium for picking up events of great national interest at the source, and transmitting them through tele networks to theaters throughout the country. . . Modification of the FCC's three-station limitation on network tele ownership was urged by the American Television Society in a wire reported sent to Burton K. Wheeler, chairman of the Senate Interstate Commerce Committee.
- Dec. 13—Official Marine Corps newsreel of the battle of Tarawa was televised over NBC. On the same program was the Army Signal Corps film of the historic Cairo Conference.
- Dec. 15—Nationwide advertising campaign in behalf of NBC's telecast of the Tehran Conference film got under way in the New York press, with full-page layouts by RCA, the parent company. Prediction was made, in the copy, that great events of future years would be televised while they were happening.
- Dec. 27—Tele receivers in the post-war period would sell from \$200 to \$300, according to the reported review of the year by David Sarnoff, RCA president. It might require a year after approval of standards, he said, and full authorization of commercialization of tele broadcasting by the FCC before tele sets were available within the \$200-to-\$300 range. However, he indicated, that the erection of transmitters, planning of interesting programs and construction of relay links were more than a one-year job.
- Dec. 28—Plans were reported for the erection of powerful tele and FM stations on Cucamonga Peak, 9,000 feet above San Bernardino, Calif. Construction permits for the twin project to service more than five million people in California, Southern Nevada and Western Arizona were sought by the Broadcasting Corp. of America, operator of KPRO, Blue net outlet in Riverside.

THE PROBLEMS OF TELEVISION

By Paul Raibourn

Chairman, Postwar Planning Committee of Television Broadcasters Association, Inc.

THERE seems to be almost universal agreement on the prediction that 20 years from now use of television will have materially modified the way of life of all of us, particularly as to our amusements; perhaps as to our methods of education and probably as to those sources, such as newspapers, magazines, and radio broadcasting from which we form our impressions of what is going on in those portions of the world with which we are not in immediate contact. Even those who see little present possibility in television, speak glowingly on the fact that it will ultimately add another rich and useful medium to our existing forms of entertainment and education.

When one starts to put dates and places on the plan by which this television millennium is to be reached, one finds considerable difference of opinion among the experts as to when, how, and what with. These differences of opinion cover almost every phase of television. They do, however, fall into two classifications which are: 1, What standards and wave lengths should be used for broadcast television transmission? and 2, What commercial interests should be the ones to carry them out. Even these two are more or less inter-related.

Basic Problem

The real basic problem of broadcast television is, of course, the old one of which will come first, the chicken or the egg. This is the one about the public being unwilling to purchase large numbers of television sets at present prices until there is an ample and continuous supply of good programs, while on the other hand commercial interests will not sponsor and pay for good and expensive

television programs until they are sure they will be listened to by an audience which will buy enough products to have made the effort worth while. It is the real problem of broadcast television and planning will not overcome it. Only action can hope to do so.

The argument about standards and wave lengths can best be exemplified by paraphrasing the arguments which have lately appeared in the public press.

FM or Television

The first important debate appears to be one as to whether frequency modulation or television shall have the wave lengths, roughly between 40 to 60 megacycles in frequency. The present ability to produce large amounts of power at these frequencies and the long distance transmitting ability which these waves encompass make them particularly valuable to those who have the right to use them for their own commercial purposes.

It also appears that as one goes up in frequency to about 100 megacycles that reflections from objects do play an important part in radio transmission at frequencies above this level of broadcast. Visual images have ghosts in them and broadcast sound transmissions often are either fuzzy or subject to echoes and resonance. These are caused by reflections from buildings and many other objects.

Distribution of Channels

The distribution of channels to various interested parties in the past has been largely determined by the apparatus and knowledge available at the time the allocation was made. Having made a con-



siderable investment in apparatus for a certain channel, commercial interests naturally oppose any changes.

The present state of our knowledge seems to indicate that from the technical standpoint there are a great many reasons why frequencies below one hundred megacycles should first be made available for broadcast use and that point to point communication should be above one hundred megacycles, because of present holders of various channels hopes that this engineers' Nirvana can be realized seem small.

On the other hand, there are interests claiming to represent the interests of the show business, and to be interested primarily in show values, that state the time has come when, television being fairly successful technically at present standards, we should put considerable improvement into the picture. They suggest that finally such improvement in quality, including color, will be made so why have the public buy sets on any basis but the most perfect? The public will know it, so goes the argument, and television will be chopping off its own head by premature selling of an inferior type of result. After the public has bought because of the novelty, interest will lag and television will be back in the doldrums. They say wide bands for television should be provided above the 300 megacycles range.

Public Interest

This public interest theory is simple in that it says that John Q. Public deserves the best and that until it is available, nothing should be sold to him. Such an attitude has considerable altruistic merit but it takes only a moment of careful thought to realize that we would still be talking about having automobiles and electric refrigerators and even radios under such a theory. Another and paramount objection is that no one has been

as yet able to produce sufficient power for satisfactory broadcast at these frequencies.

It would seem, out of all this discussion, a fair prediction that engineering groups, the majority of whose members are associated with interests connected with the radio industry, will recommend standards closely approximating those now in use for commercial broadcast television. What the requirements of public and international interest will do to these recommendations are very difficult to determine until discussion has taken place with those representing such interests.

Commercial Interest

The second question, i.e., that of what commercial interests should work with broadcast television, seems even more complicated.

There is probably one basis on which some intelligent guesses can be made. Present knowledge and actual active interest in television beyond the conversational stage is limited to the radio industry and one motion picture company. The additional logical candidates for activity are other motion picture companies, newspapers, magazines, legitimate stage groups, and educational institutions. The part that these groups will play depends on how rapidly the present radio industry makes broadcast television a commercial success and develops a satisfactory pattern of operation. The longer such developments are delayed the more likely is it that these sources of programs will have absorbed possible physical facilities and radio spectrum.

No matter how broadcast television starts it is going to have plenty of ups and downs, but unless it is started on the road, and the first use is attained, it is doubtful if enough of the way will be clear to warrant the economic venture of trying to attain the next farther objective.

☆ ☆ ☆ *Television On To Victory* ☆ ☆ ☆

TELEVISION BROADCASTERS ASSOCIATION, INC.

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Executive Office

500 Fifth Avenue, New York 18, N. Y.
Lackawanna 4-4788

Office of the Vice-President

Don Lee Broadcasting System
5515 Melrose Avenue, Hollywood, Calif.; Hollywood 8111

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Functions

Founded Jan. 1944, as a non-profit organization of television broadcasters and others engaged in any business directly connected with television broadcasting. Objects, as stated in the by-laws, are "to foster and promote the development of the art of television broadcasting; to protect its members in every lawful and proper manner; to foster, encourage and promote laws, rules, regulations, customs and practices which will be in the best interest of the public; to protect the interests of the members of the Association by opposing the enactment or adoption of any laws, rules, regulations, customs or practices which would discriminate against or in any way injure the members of this Association."



TELEVISION BROADCASTING STATIONS

As of January 1, 1944

The term "television broadcast station" means a station licensed for the transmission of transient visual images of moving or fixed objects for simultaneous reception and reproduction by the general public.

Commercial

Licensee and Location	Call Letters	Frequency (kc)	ESR (Effective Signal Radiated)
Balaban & Katz Corp. Chicago, Ill.	WBKB	60000-66000 Ch. 2	550 Condl. Cl.
Columbia Broadcasting System, Inc. New York, N. Y.	WCBW	60000-66000 Ch. 2	1000
Don Lee Broadcasting System Hollywood, Calif.	KTSL	50000-56000 Ch. 1	5600 (CP only)
General Electric Co. Schenectady, N. Y. Transmitter: New Scotland, N. Y.	WRGB	66000-72000 Ch. 3	3100 S.A. rebroadcast WNBTAural and location announcements
The Journal Co. Milwaukee, Wisc.	WMJT	66000-72000 Ch. 3	1200 (CP only)
National Broadcasting Co. New York, N. Y.	WNBT	50000-56000 Ch. 1	1800
Philco Radio & Television Corp. Philadelphia, Pa. Transmitter: Springfield Twp., Pa.	WPTZ	66000-72000 Ch. 3	500
Zenith Radio Corp. Chicago, Ill.	WTZR	50000-56000 Ch. 1	1270 (CP only)

Pending Commercial Applications

Licensee and Location	Call Letters	Frequency (kc)	POWER Visual Aural
Hughes Production Division of Hughes Tool Co. San Francisco, Calif.	-----	60000-66000	740
Hughes Productions Division of Hughes Tool Co. Los Angeles, Calif.	-----	60000-66000	500
WCAU Broadcasting Co. Philadelphia, Pa.	-----	84000-90000	1128

TELEVISION STATIONS

Experimental

Licensee and Location	Call Letters	Frequency (kc)	POWER	
			Visual	Aural
Balaban & Katz Corp. Chicago, Ill.	W9XBK	60000-66000 Ch. 2	4 kw	2 kw
Balaban & Katz Corp. Portable—Area of Chicago, Ill....	W9XBT	204000-216000 Ch. 11 & 12 (Television Relay Station with W9XBK)	40 w	
Balaban & Katz Corp. Portable—Area of Chicago, Ill....	W9XBB	384000-396000 (Television relay station with W9XBK)	10 w	
Balaban & Katz Corp. Chicago, Ill.	W9XPR	384000-396000	10 w	
Columbia Broadcasting System, Inc. Portable—Area of New York, N. Y.	W2XCB	346000-358000 (Television relay station with WCBW)	25 w (peak) (CP only)	
The Crosley Corp. Cincinnati, Ohio	W8XCT	50000-56000 Ch. 1	1000 w	1000 w (CP only)
Allen B. DuMont Laboratories, Inc. Passaic, N. J.	W2XVT	78000-84000 Ch. 4	50 w	50 w
Allen B. DuMont Laboratories, Inc. New York, N. Y.	W2XWV	78000-84000 Ch. 4	1000 w	1000 w
Allen B. DuMont Laboratories, Inc. Portable—Area of New York, N. Y.	W10XKT	258000-270000 Ch. 15, 16 (Television relay station with W2XVT)	50 w	
Allen B. DuMont Laboratories, Inc. Washington, D. C.	W3XWT	50000-56000 Ch. 1	1000 w	1000 w (CP only)
General Electric Co. New Scotland, N. Y. S.A. Relay to WRGB	W2XI	162000-168000 Ch. 8 (Television relay station with WRGB)	50 w Peak	
General Electric Co. Schenectady, N. Y.	W2XGE	162000-168000 Ch. 8 (Television relay station with WRGB)	60 w Peak	50 w
Don Lee Broadcasting System Los Angeles, Calif.	W6XAO	50000-56000 Ch. 1	1000 w	150 w
Don Lee Broadcasting System Portable—Area of Los Angeles, Calif.	W6XDU	318000-330000 (Television relay station with W6XAO)	6.5 w	50 w
Metropolitan Television, Inc. New York, N. Y.	W2XMT	162000-168000 Ch. 8	50 w Peak	50 w (CP only)

• • • **TELEVISION STATIONS** • • •

Licensee and Location	Call Letters	Frequency (kc)	POWER	
			Visual	Aural
National Broadcasting Co., Inc. Portable—Area of New York, N. Y.	W2XBT	162000-168000 Ch. 8	400 w	
		(Television relay station with WNBT)		
National Broadcasting Co., Inc. Portable—Area of New York, N. Y.	W2XBU	282000-294000 Ch. 17 & 18	15 w	
		(Television relay station with WNBT)		
Philco Radio & Television Corp. Springfield Twp., Penna. S.A. Rebroadcast Program of WNBT	W3XE	66000-72000 Ch. 3	10000 w	Peak 11000 w
Philco Radio & Television Corp. Portable—Area of Philadelphia, Pa.	W3XP	230000-242000 Ch. 13 & 14	15 w	
		(Television relay station with W3XE)		
Philco Radio & Television Corp. Portable—Area of Philadelphia, Pa.	W3XPR	230000-242000 Ch. 13 & 14	60 w (peak)	
		(Television relay station with WPTZ)		
Philco Radio & Television Corp. Portable—Mobile Area of Phila- delphia, Pa.	W3XPA	230000-242000 Ch. 13 & 14	15 w	
		(Television relay station with WPTZ and W3XE)		
Philco Radio & Television Corp. Philadelphia, Pa.	W3XPC	230000-242000 Ch. 13 & 14	15 w	
		(Television relay station with WPTZ and W3XE)		
Purdue University West Lafayette, Ind.	W9XG	66000-72000 Ch. 3	750 w	750 w (CP only)
State University of Iowa Iowa City, Iowa	W9XUI	50000-56000 Ch. 1 & 12 210000-216000	100 w	
Television Productions, Inc., Portable-Mobile Area of Los Angeles, Calif.	W6XLA	204000-216000 Ch. 11 & 12	100 w	Peak
		(CP only, television relay station with W6XYZ)		
Television Productions, Inc. Los Angeles, Calif.	W6XYZ	78000-84000 Ch. 4	4 kw	Peak 1000 w
Zenith Radio Corp. Chicago, Ill.	W9XZV	50000-56000 Ch. 1	1000 w	1000 w

COMMERCIAL TELEVISION STATIONS

PERSONNEL • FACILITIES • ACTIVITIES

W B K B

CHICAGO

CHANNEL 2

Frequency.....60000-66000 Kc.
Power.....4 Kw.; 2 Kw.
Effective Signal Radiated.....796
Owned-Operated By...Balaban & Katz Corp.
Business Address.....190 N. State St.
Phone Number.....Franklin 5025
Transmitter & Antenna Location, 190 N. State St.
Time on the Air: Monday and Wednesday,
3:00 to 4:00 p.m.; Tuesday, Thursday and
Friday, 7:15 to 9:00 p.m.

Personnel

Chief Engineer.....A. H. Broly
Four Technicians
Program Director.....Helen Carson
Tea Girls in the Program Department Who
Operate Cameras and All Equipment.

FACILITIES

One studio, three camera chains (two for live talent and one for film), one mobile unit for outdoor pickups (not being used for the duration).

ACTIVITIES

News, fashion shows, sports (indoor) such as judo, fencing, boxing; dramatic shows; musical comedies; operettas; music and variety acts such as ventriloquists, puppets, marionettes, magicians, etc.; quiz shows; educational: lessons in dancing, Spanish, exercises for health and beauty.

W T Z R

CHICAGO

CHANNEL 1

Frequency: 50000-56000 Kc.; Power: Sight
and Sound, 4500 Watts
Effective Radiated Signal.....1270
Owned-Operated By.....Zenith Radio Corp.

Business-Studio Address....6001 Dickens Ave.
Phone Number.....Berkshire 7500
Transmitter & Antenna Location...135 S. La
Salle St.
Time on the Air.....Unlimited license

Personnel

President.....E. F. McDonald, Jr.
Asst. Vice-President.....J. E. Brown

KTSL

LOS ANGELES (HOLLYWOOD)—

EST. 1931

CHANNEL 1

Frequency.....50000-56000 Kc.
Power: Sight, 4000 Watts; Sound, 2000 Watts
Effective Signal Radiated.....5600
Owned-Operated By.....Don Lee Broad-
casting System
Business-Studio Address.....3800 Mount Lee
Drive
Phone Number.....Hollywood 8255
Transmitter & Antenna Location...3800 Mount
Lee Drive
Time on the Air: Alternate Mondays, 7 to
10 p.m.

Personnel

President.....Thomas S. Lee
Vice-President and General Manager,
Lewis Allen Weiss
Director of Television.....Harry R. Lubcke
Assistant Director of Television,
Harold W. Jury
Television Engineer.....William S. Klein
Television Engineer.....Gilbert P. Wyland
Television Engineer.....Joseph N. Dean
Television Engineer.....Fred W. Mueller
Television Producer.....Jack Stewart
Film Director.....Marjorie Campbell
Building Superintendent.....Paul Marshall

FACILITIES

SYSTEM IN USE: 525 line 30-60 frame F.C.C. Standard, all electronic cathode-ray. Horizontal Polarization. Three Studio Cameras and film equipment. Two cameras of Orhicon type. Complete 100 ft. square two story television building housing one 100 ft. x 60 ft. x 30 ft. television stage, one 46 ft. x 26 ft. x 16 ft. stage, monitor, film, transmitter, makeup, and lounge rooms, offices, shop, transformer vaults, etc. Three hundred foot tower, antenna elevation 2000 ft.

K6XDU (experimental television relay station operating with KTSL) operates on 324 megacycles and is a beam relay type television transmitter used for outside pickups.

DEVELOPMENTS of 1943: **W6XAO** (experimental call letters of KTSL).

An uninterrupted schedule of television programs has been maintained during 1943, largely directed to bolster public morale in the War Effort. Specially written and produced dramas have been televised with living actors in the interests of the Red Cross Blood Donor appeals, War Bonds, USO entertainment and many others. Vaudeville shows have also been televised in which well-known Hollywood talent has appeared.

The Pasadena Community Playhouse and other organizations have presented plays such as Ibsen's "Master Builder," "Alice in Wonderland" and others.

Film subjects have included cartoons from Walt Disney and others, OWI war films, shorts, musicals, and occasionally a feature.

RECEIVERS: There are some 400 television receivers in the service area of **W6XAO**, some as far as Pomona at 35 miles away, a number in Long Beach at 25 miles away and many in cities at lesser distances. The predominant commercially manufactured television receiver is the TRK12 or 120 of RCA. There are some RCA TRK9, and approximately 50 TT5 RCA television receivers. A number of the latter are operating satisfactorily in Long Beach at 25 miles from **W6XAO**. Other commercially manufactured television receivers are the local Gilfillan G12 which is an equivalent to the RCA TRK12 and utilizes a 12-inch cathode ray tube, some Dumont 12 and 20-inch tube television receivers, the General Electric 12's and 9-inch receivers, and the Stromberg-Carlson and Stewart-Warner 12 and 9-inch receivers.

W M J T MILWAUKEE

CHANNEL 3
(C. P. Only)

Frequency: 66000-72000 Kc.; Power: Sight, 418J Watts; Sound, 3350 Watts
Effective Radiated Signal.....1200
Owned-Operated By.....The Journal Co.
Business-Studio Address.....720 East Capitol Drive
Phone Number.....Marquette 6000
Transmitter & Antenna Location.....720 East Capitol Drive

W C B W NEW YORK CITY

CHANNEL 2

Frequency: 63000-66000 Kc.; Sight, 61250; Sound, 65700
Owned-Operated By...Columbia Broadcasting System
Business Address.....485 Madison Ave.
Phone Number.....Wickersham 2-2000
Studio Address.....15 Vanderbilt Ave.
Transmitter & Antenna Location.....Chrysler Building
Time on the Air: 4 hours (or more) weekly

Persomel

Manager.....Worthington Miner
Program Director.....Gilbert Seldes
Chief Engineer.....Dr. Peter C. Goldmark

ACTIVITIES

With production of equipment halted during the National Emergency, the development of Television was suspended, pending the freeing of production facilities. Station WCBW reduced its broadcasting periods to a total of four hours a week. The studio and equipment which were previously used for full scale broadcasts of 15 hours a week were maintained and further improvements made. Technical experiments continued, though a major part of the CBS Television engineering staff devoted its time to Government work.

Now that more channels can be made available to Television in the higher frequencies, Columbia Broadcasting states that it looks forward with optimism to the time when reallocation of band widths and frequencies will offer Television the sound and healthy surroundings necessary for its full development.

W N B T

NEW YORK CITY

CHANNEL 1

Frequency: 50000-56000 Kc. (Sight, 51250; Sound, 55750); Power: Sight, 5000 Watts; Sound, 3250 Watts

Effective Signal Radiated.....1800

Owned-Operated By.....National Broadcasting Co.

Business Address.....30 Rockefeller Plaza

Phone Number.....Circle 7-8300

Studio Address.....30 Rockefeller Plaza

Transmitter and Antenna Location....Empire State Bldg.

Time on the Air: Full time commercial license

Personnel

Manager of Television Department

John T. Williams

Chief Television Engineer....Robert E. Shelby

ACTIVITIES

Limited in its activities by the shortage of engineering talent and the necessity to conserve existing equipment, NBC operated its television station throughout most of 1943 at the minimum of 4 hours weekly permitted by the FCC. This time was filled entirely by films. During the year, several advertisers continued to use television cartoons to promote their products.

Beginning in November, NBC expanded its program service by adding occasional pickups from Madison Square Garden. About fifty television sets, contributed by RCA, NBC, and General Electric were installed in hospital recreation rooms to permit the veterans to witness events that otherwise would have been denied them because of their hospitalization. Many of the programs have been re-telecast by WRGB, Schenectady, by direct overland pickup from the Empire State Building transmitter.

Early in 1944, NBC's television service was scheduled for further expansion by reopening studio 3-H for live productions. In a statement to affiliates outlining the Company's postwar television plans, President Niles Trammell revealed that network television will be a reality. Actual operation of the network, he said, will depend on the ability of the American Telephone & Telegraph Company to obtain necessary materials and labor for the installation of coaxial cables connecting major cities or on the erection of radio relay stations.

W P T Z

PHILADELPHIA

CHANNEL 3

Frequency: 66,000-72,000 Kc.; Sight, Approximately 2½ Kw.; Sound, Approximately 3 Kw. Effective Signal Radiated...Approximately 335

Owned-Operated By.....Philco Radio & Television Corp.

Business Address.....Tioga and C Sts.

Phone Number.....Nebraska 5100

Transmitter & Antenna Location...Wyndmoor, Pa.

Time on the Air: Wednesday and Friday Evenings

Personnel

Chief Television Engineer.....F. J. Bingley

Station Manager.....Walter Merkle

Program Director.....Paul Knight

W R G B

SCHENECTADY, N. Y.

CHANNEL 3

Frequency: 66000-72000 Kc.; Power: Visual, 40,000 Watts, Oral, 20,000 Watts

Owned-Operated By.....General Electric Co.

Effective Signal Radiated.....3100

Business Address.....1 River Road

Phone Number.....4-2211

Transmitter & Antenna Location....New Scotland, N. Y.

Time on the Air.....Nine Hours Weekly

Personnel

Manager of Broadcasting.....Robert S. Pearce

Assistant to the Manager....Robert L. Gibson

Assistant to the Manager.....B. J. Rowan

Program Manager.....Robert B. Stone

Chief Engineer.....W. J. Purcell

FACILITIES

Technical facilities of Station WRGB include a direct pickup studio for live talent productions, located at 60 Washington Ave., Schenectady. It is fitted with five camera channels. A film scanning room has two cameras and three motion picture projectors—two for 35 mm. and one for 16 mm. films. Film slide, lantern slide and projectors of small opaque pictures and objects are also available.

Signals from the WRGB transmitter, located in the Helderberg mountains, New Scotland, N. Y., near Schenectady, are received over a service area with a radius of approximately 50 miles, which includes the Troy-Albany-Schenectady area.

WRGB claims the first television relay station, picking up programs from NBC in New York City, 129 miles away, and relaying them to the Capitol district area. A minimum weekly program service of nine hours is offered viewers in the area.

ACTIVITIES

During 1943 WRGB's program activities have been varied. Among the programs various types have been tried, including a bridge game by champions, dog shows, boxing and wrest-

• • • COMMERCIAL-EXPERIMENTAL TELEVISION STATIONS

ing matches, barn dances, Shakespearean plays, Gilbert and Sullivan operettas, modern comedies, news reporters and analysts. Several commercials have also been presented by the station during the past year. On November 5, WRGB presented a demonstration of how television might cover the news by televising a ten-page special edition of the Albany Times-Union.

ACTIVE EXPERIMENTAL STATIONS

W 6 X Y Z HOLLYWOOD

(Paramount Studio Lot)
CHANNEL 4

Frequency: 78,000-84,000 Kc; Power, Visual, 1,000 W; Oral, 1,000 W.

Owned-Operated By...Television Productions, Inc.

Business Address.....5451 Marathon St., Hollywood 38

Phone Number.....HOLLYWOOD 2411

Transmitter and Antenna Location,
5451 Marathon St., Hollywood 38

Time on the Air.....Six Hours Per Week

Personnel

President.....Paul Raibourn

Vice-President.....Bernard Goodwin

Vice-President.....Y. Frank Freeman

Station Director.....Klaus Landsberg

FACILITIES

Equipment includes complete apparatus for studio as well as field operation. Cameras and transmitters were built by Allen B. DuMont Laboratories, Inc. and many additional units, including electronic special-effect equipment, were designed and built by Television Productions, Inc. A relay transmitter, W6XLA, to operate in conjunction with W6XYZ, was also developed and constructed by the company. A special antenna system combining a double-cone type of antenna for video and a special four di-pole antenna for audio of its own design and construction are used. Studio facilities also include a flexible lighting arrangement, slide and background projection apparatus and screens.

ACTIVITIES

W6XYZ has operated regularly since February 1 each Wednesday and Friday night and has been producing a weekly total of four to six hours of live-talent programs. These

programs were entirely dedicated to the training of Civilian Defense volunteers until the summer of 1943, since which time entertainment as well as educational programs have been aired. These programs include gymnastic courses, museum visits, variety shows, dramatic skits and one-act plays. Technical development has been directed toward improvement and simplification in the operation of present equipment as well as to the design and construction of special effects and relay equipment.

W 2 X W V NEW YORK CITY

CHANNEL 4

Frequency:78000-84000 Kc.

Power: Eight, 5000 Watts; Sound, 1500 Watts

Owned-Operated By.....Allen B. DuMont Laboratories, Inc.

Business-Studio Address...515 Madison Ave., N. Y. C.

Transmitter and Antenna Location.....Same

Time on the Air...6 Hours Weekly, Tuesday, Wednesday and Sunday evenings.

Personnel

President.....Allen B. DuMont

General Manager.....Sam Cuff

Technical Director.....Walter E. Swenson

Chief Operating Engineer.....Sol Patreimo

Assistant Operating Engineer.....Morris Barton

Audio Control Engineer.....Charles Lewis

Studio Managers...Ed Woodruff, Bob Jameson

FACILITIES

The 160-foot tower of W2XWV atop a 42-story building raises the antenna to 650 feet above sea level. Covering a service range of 35 to 50 miles, the station has regular viewers as distant as 75 miles. It is completely equipped by DuMont Laboratories. W2XWV has a studio for live-talent shows as well as film-projection facilities. It operates on an experimental license pending the granting of application for a commercial license.

ACTIVITIES

This outlet serves not only as a telecast service soon to go commercial, but also as a laboratory for practical experience. Engineering, programming and advertising sponsorship aspects of television broadcasting are being worked out in actual practice. Broadcasters, engineers, producers, performers, advertisers, advertising men and others interested in television are granted the facilities of the station.

FCC REGULATIONS REGARDING BROADCAST STATIONS FOR TELEVISION AND FACSIMILE



As of January 1, 1944

The term "visual broadcast service" means a service rendered by stations broadcasting images for general public reception. There are two classes of stations recognized in the visual broadcast service, namely: Television broadcast stations and Facsimile broadcast stations.

COMMERCIAL TELEVISION BROADCAST STATIONS

Definitions

"Television broadcast station" means a station licensed for the transmission of transient visual images of moving or fixed objects for simultaneous reception and reproduction by the general public¹.

"Television broadcast band" means the bands of frequencies allocated for television broadcast stations.

"Television channel" means a band of frequencies 6,000 kilocycles wide and which may be designated by channel numbers as in section on channel assignments in these rules or by the extreme lower and upper frequencies.

"Television transmission standards" means the standards which determine the characteristics of the television signal as radiated by a television broadcast station.

"Standard television signal" means a television signal conforming with the television transmission standards set forth in the Standards of Good Engineering Practice for television stations.

"Television transmitter" means the radio transmitter or transmitters for the transmission of both visual and aural signals.

"Visual transmitter" means the radio equipment for the transmission of the visual signal only.

"Aural transmitter" means the radio equipment for the transmission of the aural signal only.

"Visual transmitter power" means the peak power output when transmitting a standard television signal.

"Service area" means the area in which the signal is not subject to objectionable interference or objectionable fading. (Television broadcast stations are considered to have only one service

area; for determination of such area see *Standards of Good Engineering Practice for Television Broadcast Stations.*)

"Main studio" as to any television broadcast station means the studio from which the majority of the local programs originate, or from which a majority of the station identification announcements are made.

Allocation of Facilities

Basis for license.—Television broadcast stations will be licensed on the basis of the effective signal radiated (ESR) from the visual transmitter in accordance with the following:

ESR is equal to the square root of the power times the antenna field gain times the height of the antenna above the surrounding area. The power is measured in kilowatts, the gain in voltage ratio, the antenna height in feet above surrounding area.

Time of operation.—Television broadcast stations will be licensed only for unlimited time operation.

Showing required.—Authorization for a new television broadcast station or increase in facilities of an existing station will be issued only after a satisfactory showing has been made in regard to the following matters:

(a) That the service area and population which the applicant proposes to serve are computed in accordance with the Standards of Good Engineering Practice for Television Broadcast Stations. (The service area shall be consistent with and serve adequately the city or community proposed to serve in keeping with technical feasibility of coverage. The application shall be accomplished by an analysis of the computation of the service area as set forth in the application. No application for construction permit for a new station or change in service area of an existing station will be

¹ The transmission of synchronized sound (aural broadcast) is considered to be an essential phase of television broadcast and one license will authorize both visual and aural broadcasts.

accepted unless a definite site, details of proposed antenna and other data required by the application form are supplied.)

(b) That objectionable interference will not be caused to existing stations or that if interference will be caused the need for the proposed service outweighs the need for the service which will be lost by reason of such interference.

(c) That the proposed station will not suffer interference to such an extent that its service would be reduced to an unsatisfactory degree. (For determining objectionable interference, see *Standards of Good Engineering Practice for Television Broadcast Stations.*)

(d) That the technical equipment proposed, the location of the transmitter, and other technical phases of operation comply with the regulations governing the same, and the requirements of good engineering practice. (See technical regulations herein and *Standards of Good Engineering Practice for Television Broadcast Stations.*)

(e) That the applicant is financially qualified to construct and operate the proposed station.

(f) That the applicant has available adequate sources of program material for the rendition of satisfactory television broadcast service.

(g) That the proposed assignment will tend to effect a fair, efficient, and equitable distribution of radio service among the several states and communities.

(h) That the applicant is legally qualified, is of good character, and possesses other qualifications sufficient to provide a satisfactory public service.

(i) That the facilities sought are subject to assignment as requested under existing international agreements and the Rules and Regulations of the Commission.

(j) That the public interest, convenience, and necessity will be served through the operation under the proposed assignment.

Channel assignments.—The channels or frequency bands set forth below are available for assignment to television broadcast stations.

(a) Channel

No.	
1	50,000- 56,000 kc
2	60,000- 66,000 kc
3	66,000- 72,000 kc
4	78,000- 84,000 kc
5	84,000- 90,000 kc
6	96,000-102,000 kc
7	102,000-108,000 kc
8	162,000-168,000 kc
9	180,000-186,000 kc
10	186,000-192,000 kc
11	204,000-210,000 kc

12	210,000-216,000 kc
13	230,000-236,000 kc
14	236,000-242,000 kc
15	258,000-264,000 kc
16	264,000-270,000 kc
17	282,000-288,000 kc
18	288,000-294,000 kc

(b) Stations serving the same area will not be assigned channels adjacent in frequency.

(c) One channel only will be assigned to a television broadcast station.

Experimental operation. — Television broadcast stations may conduct technical experimentation directed to the improvement of technical phases of operation and for such purposes may utilize a signal other than the standard television signal subject to the following conditions:

(a) That the licensee complies with the provisions of these rules with regard to the minimum number of hours of transmission with a standard television signal.

(b) That no transmissions are radiated outside of the authorized channel and subject to the condition that no interference is caused to the transmissions of a standard television signal by other television broadcast stations.

(c) If objectionable interference would result from the simultaneous operation of a television broadcast station operating experimentally and an experimental broadcast station, the licensees shall make arrangements for operation to avoid interference.

(d) No charges either direct or indirect shall be made by the licensee of a television broadcast station for the production or transmission of programs when conducting technical experimentation.

Multiple ownership.—No person (including all persons under common control)² shall, directly or indirectly, own, operate, or control more than one television broadcast station, except upon a showing (1) that such ownership, operation, or control would foster competition among television broadcast stations or provide a television broadcast service distinct and separate from existing services, and (2) that such ownership, operation or control would not result in the concentration of control of television broadcasting facilities in a manner inconsistent with public interest, convenience, or necessity; *Provided, however,* That no person (including all persons under common control), shall directly or indirectly, own, operate, or control more than one television broadcast station that would serve substantially the same service area; and *provided, further,* That the Commission will regard the owner-

² The word "control," as used herein, is not limited to majority stock ownership, but includes actual working control in whatever manner exercised.

ship, operation, or control of more than three television broadcast stations as constituting a concentration of control of television broadcasting facilities in a manner inconsistent with public interest, convenience, or necessity.

Normal license period.—All television broadcast station licenses shall be issued so as to expire at the hour of 3 a.m., Eastern Standard Time, and will be issued for a normal license period of one year, expiring February 1.

Equipment

Maximum rated power; how determined.—(a) The maximum rated carrier power of standard television transmitters shall be the same as the manufacturer's rating of the equipment.

(b) The maximum rated carrier power of composite television transmitters shall be the sum of the applicable commercial ratings of the vacuum tubes employed in the last radio stage.

Maximum power rating and operating power.—The Commission will authorize the installation of a television transmitter having maximum power rating equal to the operating output power in accordance with the table set out in the section of these rules titled "Basis for License."

Monitors.—The licensee of each television broadcast station shall operate at the transmitter:

(a) A frequency monitor independent of the frequency control of the transmitter. The monitor shall meet the requirements set forth in the Standards of Good Engineering Practice for Television Broadcast Stations;

(b) A modulation monitor to determine that the radiated television signal complies with the television transmission standards set forth in the Standards of Good Engineering Practice for Television Broadcast Stations.

Required transmitter performance.—The external performance of television broadcast transmitters shall be capable of radiating a standard television signal meeting the minimum requirements prescribed by the Commission contained in the Standards of Good Engineering Practice. The transmitters shall be wired and shielded in accordance with the good engineering practice and shall be provided with safety features in accordance with the specifications of Article 810 of the current National Electrical Code as approved by the American Standards Association.

Indicating instruments.—The operating output power of television broadcast stations shall be measured by instruments having an acceptable accuracy.

Auxiliary and duplicate transmitters.

—The provisions of the rules governing standard and high frequency broadcast stations shall also govern the use of aux-

iliary and duplicate transmitters for television broadcast stations

Changes in equipment and antenna system.—(a) No changes in equipment shall be made.

(1) That would result in emission of signals outside of the authorized television channel.

(2) That would result in the external performance of the transmitter being in disagreement with that prescribed by the Commission in the Standards of Good Engineering Practice provided that for experimental transmissions equipment changes may be made which would not render the transmitters incapable of radiating a standard television signal for the required minimum number of hours. (See section titled "Minimum Operating Schedule.")

(b) Specific authority³ is required for a change in any of the following:

(1) Increase in the maximum power rating of the transmitter.

(2) Replacement of the transmitter as a whole.

(3) Location of the transmitter antenna.

(4) Antenna system, including transmission line, which would result in a measurable change in service area or which would affect the determination of the operating power by the direct method. If any change is made in the antenna system or any change made which may affect the antenna system, the method of determining operating power shall be changed immediately to the indirect method.

(5) Relocation of main studio if new location is outside of the borders of the city, state, District of Columbia, territory, or possession.

(6) Operating output power delivered to the antenna.

(c) Specific authority,⁴ upon filing informal request therefor, is required for the following change in equipment and antenna:

(1) Indicating instruments installed to measure the antenna current or transmission line, except by an instrument of the same type, maximum scale reading and accuracy.

(2) Minor changes in the antenna system or transmission line which would not result in an increase of service area.

(3) Changes in the location of the main studio except as provided for in subsection (b) (5).

(d) Other changes, except as above provided for in this section or in Standards of Good Engineering Practice for Television Broadcast Stations prescribed

³ Formal application required. See Standards of Good Engineering practice for Television Broadcast Stations for specific application form.

⁴ Informal application by letter may be made.

by the Commission may be made at any time without the authority of the Commission, provided that the Commission shall be promptly notified thereof, and such changes shall be shown in the next application for renewal of license.

Operating output power; how determined.—The operating output power, and the requirements for maintenance thereof, of each television broadcast station shall be determined by the Standards of Good Engineering Practice for Television Broadcast Stations.

Operation

Minimum operating schedule.—(a) The licensee of each television broadcast station shall maintain a regular program operating schedule transmitting a standard television signal for a total of 4 hours per week.

(b) The aural transmitter of a television broadcast station shall not be operated separately from the visual transmitter except for experimental or test purposes, and for purposes incidental to or connected with the operation of the visual transmitter.

Station identification.—(a) A licensee of a television broadcast station shall make station identification announcement, aurally and visually, (call letters and location), at the beginning and ending of each time of operation and during operation on the hour.

(b) Identification announcements during operation need not be made when to make such announcement would interrupt a single consecutive speech, play, or any type of production. In such cases the identification announcement shall be made at the first interruption of the entertainment continuity and at the conclusion thereof.

Motion picture film.—All motion picture film employed in the broadcasts of a television broadcast station must be briefly described as such either at the beginning of the program in which such film is used, or immediately prior to the broadcast of the film. Where the film broadcast is of more than 15 minutes duration, it shall also be briefly described as such either at the end of the program or immediately following the broadcast of the film.

Logs.—The licensee of each television broadcast station shall maintain program and operating logs and shall require entries to be made as follows:

(a) Program log.

(1) Entry of the time each station identification is made.

(2) Entry briefly describing each program broadcast under the heading 'outside pickup,' 'studio production,' and motion picture film,' or combination thereof.

(3) Entry showing that each sponsored program has been announced as sponsored, paid for or furnished by the sponsor.

(4) Entry showing name of each sponsor and commodity advertised.

(b) Operating log (when transmitting a standard television signal).

(1) Entry of the time the station begins to supply power to the antenna and the time it stops.

(2) Entry of the time the program begins and ends.

(3) Entry of each interruption to the carrier waves, cause and duration.

(4) Entry of the following each thirty minutes:

i) Operating constants of the last radio stages.

ii) Frequency monitor readings.

(c) Log of experimental operation when transmitting other than a standard television signal.

(1) Entry of the time the station begins to supply power to the antenna and the time it stops.

(2) Short description of the broadcast made and its technical purpose.

(d) Where an antenna or antenna supporting structure(s) is required to be illuminated the licensee shall make entries in the radio station log appropriate to the requirements of Section 2.82(a), (b), and (c) as follows:

(1) The time the tower lights are turned on and off if manually controlled.

(2) The time the daily visual observation of the tower lights was made.

(3) In the event of any observed failure of a tower light.

i) Nature of such failure.

ii) Time the failure was observed.

iii) Time and nature of the adjustments, repairs or replacements made.

iv) Airways Communication Station (C.A.A.) notified of the failure of any tower light not corrected within thirty minutes and the time such notice was given.

v) Time notice was given to the Airways Communication Station (C.A.A.) that the required illumination was resumed.

(4) Upon completion of the periodic inspection required at least once each three months.

i) The date of the inspection and the condition of all tower lights and associated tower lighting control devices.

ii) Any adjustments, replacements or repairs made to insure compliance with the lighting requirements.

Logs; retention of.—Logs of a television broadcast station shall be retained

by the licensee for a period of 2 years, except when required to be retained for a longer period in accordance with the provisions of section 2.54 (FCC General Rules and Regulations; in this volume see Rules and Regulations regarding production by Radio Broadcast stations).

Broadcasts by Candidates for Public Office

The provisions of sections on political broadcasts of the Rules and Regulations Governing Standard and High Frequency Broadcast Stations shall also govern television broadcast stations.

EXPERIMENTAL TELEVISION BROADCAST STATIONS

The term "experimental television broadcast station" means a station licensed for experimental transmission of transient visual images of moving or fixed objects for simultaneous reception and reproduction by the general public. The transmission of the synchronized sound (aural broadcast) is considered an essential phase of television broadcasting and one license will authorize both visual and aural broadcast as herein set forth.

Under these rules for experimental television broadcast stations, the Commission will authorize experimental television relay broadcast stations for transmitting from points where suitable wire facilities are not available, programs for broadcast by one or more television broadcast stations. Such authorization will be granted only to the licensee of a television broadcast station.

A license for an experimental television broadcast station will be issued for the purpose of carrying on research and experimentation for the advancement of television broadcasting which may include tests of equipment, training of personnel, and experimental programs as are necessary for the experimentation.

Licensing Requirements

A license for a television broadcast station will be issued only after a satisfactory showing has been made in regard to the following:

1. That the applicant has a definite program of research and experimentation in the technical phases of television broadcasting, which indicates reasonable promise of substantial contributions to the developments of the television art.
2. That upon the authorization of the proposed station the applicant can and will proceed immediately with its program of research and experimentation.
3. That the transmission of signals by radio is essential to the proposed program of research and experimentation.
4. That the program of research and experimentation will be conducted by qualified personnel.
5. That the applicant is legally, financially, technically, and otherwise qualified to carry forward the program.
6. That the public interest, convenience or necessity will be served through the operation of the proposed station.

Charges

No charges either direct or indirect shall be made by the licensee of an experimental television station for the production or transmission of either aural or visual programs transmitted by such station except that this section shall not apply to the transmission of commercial programs by an experimental television relay broadcast station for retransmission by a television broadcast station.

Announcements

A licensee of a television broadcast station shall make station identification announcement aurally and visually (call letters and location) at the beginning and ending of each time of operation and during operation on the hour.

At the time station identification announcements are made, there shall be added the following:

'This is a special television broadcast made by authority of the Federal Communications Commission for experimental purposes.'

Operating Requirements

Each licensee of a television broadcast station shall diligently prosecute its program of research from the time its station is authorized.

Each licensee of a television station will from time to time make such changes in its operation as may be directed by the Commission for the purpose of promoting worthwhile experimentation and improvement in the art of television broadcasting.

Frequency Assignment

(a) The following groups of channels are available for assignment to television broadcast stations licensed experimentally:

Group A		Group B	
Channel		Channel	
No. 1	50,000-56,000 kc	No. 8	162,000-168,000 kc
2	60,000-66,000	9	180,000-186,000
3	66,000-72,000	10	186,000-192,000
4	78,000-84,000	11	204,000-210,000
5	84,000-90,000	12	210,000-216,000
6	96,000-102,000	13	230,000-236,000
7	102,000-108,000	14	236,000-242,000
Group C		15	258,000-264,000
Any 6000 kc band		16	264,000-270,000
above 300,000 kc		17	282,000-288,000
excluding band		18	288,000-294,000
400,000-401,000 kc.			

No experimental television broadcast station will be authorized to use more than one channel in Group A except for good cause shown. Both aural and visual carriers with side bands for modulation are authorized but no emission shall result outside the authorized channel.

No persons (including all persons under common control) shall control directly or indirectly, two or more experimental television broadcast stations (other than television relay broadcast stations) unless a showing is made that the character of the programs of research require a licensing of two or more separate stations.

A license for an experimental television broadcast station will be issued only on the condition that no objectionable interference will result from the transmissions of the station to the regular program transmissions of television broadcast stations. It shall at all times be the duty of the licensee of an experimental television broadcast station to ascertain that no interference will result from the transmissions of its station. With regard to interference with the transmissions of an experimental television broadcast station or the experimental or test transmissions of a television broadcast station, the licensees shall make arrangements for operations to avoid interference.

Channels in Groups B and C may be assigned to experimental television stations to serve auxiliary purposes such as television relay stations. No mobile or portable station will be licensed for the purpose of transmitting television programs to the public directly.

Power

The operating power of a television station shall be adequate for but not in excess of that necessary to carry forward the program of research and in no case in excess of the power specified in its license.

Reports

A report shall be filed with each application for renewal of station license which shall include a statement of each of the following:

1. Number of hours operated.
 2. Full data on research and experimentation conducted including the type of transmitting and studio equipment used and their mode of operation.
 3. Data on expense of research and operation during the period covered.
 4. Power employed, field intensity measurements and visual and aural observations and the types of instruments and receivers utilized to determine the service area of the station and the efficiency of respective types of transmissions.
 5. Estimated degree of public participation in reception, and the results of public observation as to the effectiveness of types of transmission.
 6. Conclusions, tentative and final.
 7. Program for further developments in television broadcasting.
 8. All developments and major changes in equipment.
 9. Any other pertinent developments.
- Special or progress reports shall be submitted from time to time as the Commission shall direct.

— FACSIMILE BROADCAST STATIONS —

The term "facsimile broadcast station" means a station licensed to transmit images of still objects for record reception by the general public.

License Qualifications

1. That the applicant has a program of research and experimentation which indicates reasonable promise of substantial contribution to the development of the facsimile broadcast service.
2. That sufficient facsimile recorders will be distributed to accomplish the experimental program proposed.
3. That the program of research and experimentation will be conducted by qualified engineers.
4. That the applicant is legally and financially qualified and possesses adequate technical facilities to carry forward the program.

5. That the public interest, convenience and/or necessity will be served through the operation of the proposed station.

Conditions of Licensing

- (a) A licensee of a facsimile broadcast station shall not make any charge, directly or indirectly, for the transmission of programs.
- (b) No licensee of any standard broadcast station or network shall make any additional charge, directly or indirectly, for the transmission of some phase of the programs by a facsimile broadcast station, nor shall commercial accounts be solicited by any licensee of a standard broadcast station or network, or others acting in their behalf, upon representation that images concerning that commercial program will be transmitted by a facsimile station.



• FM •
FREQUENCY
MODULATION



F M B I



Status of FM, A Survey



**High Frequency
Broadcast Stations**

Due to the paper shortage, the FCC regulations regarding high frequency broadcast stations were omitted. These regulations will be found starting on page 946 in the 1943 Radio Annual.



FM BROADCASTERS, INC. (FMBI)

Office of the President and Secretary-Treasurer

333 W. State Street, Milwaukee 1, Wisconsin
Marquette 6000

•
Washington, D. C.

711 Colorado Building
Myles Loucks in Charge
National 1199

Officers

President Walter J. Damm
Vice-President..... Theodore C. Streibert
Secretary-Treasurer..... L. W. Herzog

Directors

John Shepard, 3rd, John V. L. Hogan, Arthur Church, George Lang, Lee B. Wailes, Ray H. Manson,
Franklin M. Doolittle, Walter J. Damm, Theodore C. Streibert.

Functions

FMBI is a non-profit association of FM boosters founded to see that frequency modulation advances in a coordinated logical manner; to guarantee that its interests are furthered and protected and to represent the FM industry in Washington; to provide an advisory service for its membership stations; to offer liaison between broadcasters and manufacturers interpreting the problems of each; to conduct a program of promotion and publicity aimed at stimulating public interest, and to provide a competent and accurate service for the truthful dissemination of information concerning FM. Membership includes individuals and companies who have an FM station, a construction permit or an application on file with the FCC for one.



STATUS OF FM—1943-1944

By *M. H. Shapiro*
Managing Editor, RADIO DAILY

THAT broadcasters throughout the country are thoroughly FM conscious was plainly indicated by the remarkable attendance at the FMBI convention in New York early this year. This annual meeting was the climax to a consistent promotional campaign, characterized in some quarters as the greatest in radio history, and drew more than 800 attendees from radio and allied industries, all desirous of furthering their knowledge of FM and intent upon keeping up with new developments.

During 1943, despite inability to build new outlets due to wartime restrictions, FM proceeded to make itself felt as a coming force in radio. Many applications for FM licenses desired by newspapers and newspaper-owned stations, were held in abeyance because of the FCC Order No. 79 designed to delve into the matter of publisher ownership of radio stations. When the FCC on Jan. 13, 1944, unanimously decided against any general rule regarding newspaper ownership of broadcast facilities, there naturally followed numerous applications for FM licenses by newspapers and others in and out of the industry.

When the FCC took FM out of the experimental license category and permitted it to go commercial, networks which fed their regular programs to FM outlets, decided to withdraw this carte blanche pickup. However, early this year and almost coincidental with the FM Broadcasters, Inc., annual meeting, NBC and CBS again made available its programs for such affiliates as had FM facilities. Thus many fine symphony programs and the best of commercials may be heard via this medium. Some provisos in the network permission to use their programs, have been made and the AFM is also now looking over the field for possible revenue.

While Chairman James L. Fly of the FCC has pledged that the Commission would give the broadcasters encouragement in their FM activities, he warned against the dangers of hurried postwar production on a large scale, unless on a very firm foundation. At the same

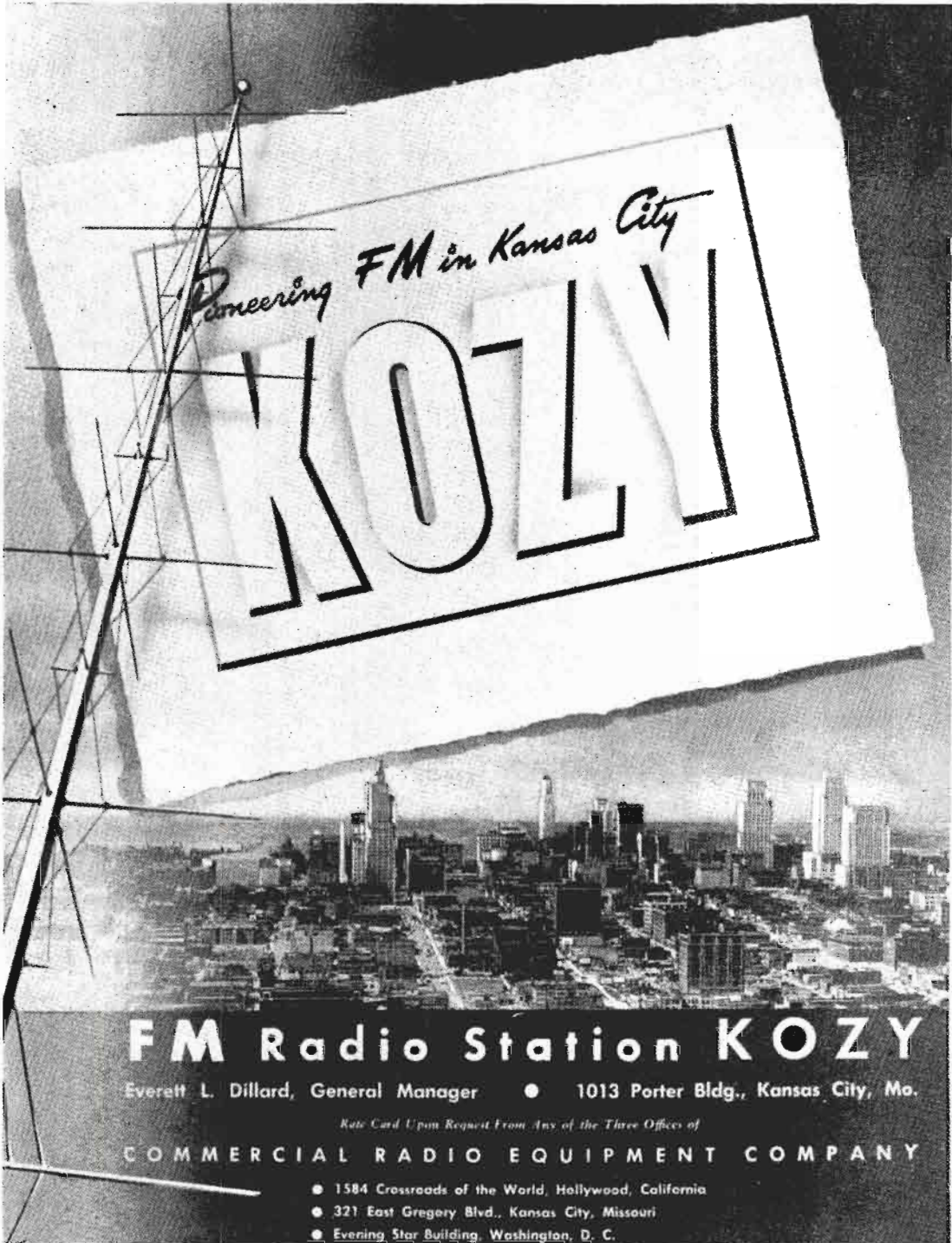
time, spokesmen for the leading manufacturing organizations revealed plans for extensive production after the war and they believed that a possible 5,000,000 FM receiving sets would be built during the first full year of postwar production. At this rate, approximately 15,000,000 such sets would be in the hands of the public during the first five years of full-scale production, all based on the invention of Major Edwin H. Armstrong.

Apart from the manufacturing and merchandising of FM sets, the leading companies equipped to put them out, announced plans to build FM transmitters on a scale to fulfill new orders and those on the backlog.

Another important development on the FM front was the appointment of William B. Lewis as executive vice-president of the American Network, Inc. This FM web has been in existence for some time, has been experimental, and active of late. Appointment of Lewis, formerly vice-president in charge of programs for CBS and more recently an official of the OWI Domestic Bureau, indicates that the FM network means business and is going ahead in the future.

Broadcasters are fully aware of both the advantages and some disadvantages of FM broadcasting, as compared to AM or standard broadcasting. Many of the problems were discussed at the annual meeting in January of this year when a panel made up of competent people from engineering, manufacturer and practical FM broadcaster fields sought to answer the questions as fairly as possible. Some of the difficulties for instance may lie with the FCC's method of issuing licenses by certain market areas, in the opinion of some FM broadcasters. Again there remains the dispute between FM and television proponents as to which shall have the higher frequencies in the spectrum.

The Radio Technical Planning Board has panels devoted to television and FM in its agenda and it is possible some conclusion may be reached through this board. Five channels in the FM have been earmarked by the FCC for non-commercial educational broadcasting.



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HIGH FREQUENCY—FREQUENCY MODULATION BROADCAST STATIONS

The term "high frequency broadcast station" means a station licensed primarily for the transmission of radiotelephone emissions, intended to be received by the general public and operated on a channel in the high frequency broadcast band. Commercial high frequency broadcast stations must use frequency modulation.

LOCATION	Call Letters	Licensee	Frequency Kilocycles	Service Area Sq. Mi
COMMERCIAL*				
Alpine, N. J.	WFLM	Edwin H. Armstrong	43100	
Baton Rouge, La.	WBRL	Baton Rouge Broadcasting Co.	44500	8100
Binghamton, N. Y.	WBNF-FM	Wylie B. Jones Advertising Agency	44900	6500
Boston, Mass.	WBZ-FM	Westinghouse Radio Stations, Inc.	46700	
Boston, Mass.	WMTW	The Yankee Network, Inc.	43900	3100
Chicago, Ill.	WBBM-FM	Columbia Broadcasting System, Inc.	46700	
Chicago, Ill.	WDLM	Moody Bible Institute of Chicago	47500	
*Chicago, Ill.	WEHS	WHFC, Inc.	48300	10800
Chicago, Ill.	WGNB	WGN, Inc.	45900	
Chicago, Ill.	WWZR	Zenith Radio Corp.	45100	10800
Columbus, Ohio	WELD	WBNS, Inc.	44500	
Detroit, Mich.	WLOU	John Lord Booth	44900	
Detroit, Mich.	WENA	The Evening News Association	44500	6800
Evansville, Ind.	WMLL	Evansville On the Air, Inc.	44500	8400
Fort Wayne, Ind.	WOWO-FM	Westinghouse Radio Stations, Inc.	44900	
Hartford, Conn.	WTIC-FM	Travelers Broadcasting Service Corp.	45300	6100
Hartford, Conn.	WDRC-FM	WDRC, Inc.	46500	6100
*Indianapolis, Ind.	WABW	Associated Broadcasters, Inc.	47300	8400
*Jersey City, N. J.	WAAW	Bremer B/C Corp.	49500	6200
Kansas City, Mo.	KOZY	Everett L. Dillard, d/b as Commercial Radio Equipment Co.	44900	
Los Angeles, Calif.	KHJ-FM	Don Lee Broadcasting System	44500	
*Los Angeles, Calif.	KTLO	Metro-Goldwyn-Mayer Studios, Inc.	46100	7000
Milwaukee, Wis.	WMFM	The Journal Co.	44500	8500
Nashville, Tenn.	WSM-FM	National Life & Accident Insurance Co.	44700	16000
New York, N. Y.	WBAM	Bamberger Broadcasting Service, Inc.	47100	
New York, N. Y.	WNYC	City of New York Municipal Broadcasting System	43900	3900
New York, N. Y.	WABC-FM	Columbia Broadcasting System, Inc.	46700	

HIGH FREQUENCY MODULATION BROADCAST STATIONS . . .

LOCATION	Letters Call	Licensee	Frequency Kilocycles	Service Area Sq. Mi.
*New York, N. Y.....	WFGG	William G. H. Finch.....	45500	8500
New York, N. Y.....	WQXQ	Interstate Broadcasting Co.....	45900	
New York, N. Y.....	WHNF	Marcus Loew Booking Agency.....	46300	
New York, N. Y.....	WABF	Metropolitan Television, Inc.....	47500	
New York, N. Y.....	WGYN	Muzak Radio Broadcasting Station..	44700	
*Paxton, Mass.	WGTR	The Yankee Network, Inc.....	44300	19000
Boston, Mass.				
Philadelphia, Pa.	WIP-FM	Pennsylvania Broadcasting Co.....	44900	
*Philadelphia, Pa.	WLBG	Seaboard Radio Broadcasting Corp..	46500	9300
Philadelphia, Pa.	WCAU-FM	WCAU Broadcasting Co.....	46900	9300
Philadelphia, Pa.	WFIL-FM	WFIL Broadcasting Co.....	45300	9300
Philadelphia, Pa.	KYW-FM	Westinghouse Radio Stations, Inc..	45700	
Philadelphia, Pa.	WPEN-FM	William Penn Broadcasting Co.....	47300	
Pittsburgh, Pa.	WTNT	WWSW, Inc.	44700	8400
Pittsburgh, Pa.	KDKA-FM	Westinghouse Radio Stations, Inc..	47500	
Rochester, N. Y.	WHFM	Stromberg Carlson Co.....	45100	3200
Rochester, N. Y.....	WHEC, Inc.	.....	44700	3200
*Salt Lake City, Utah.....	KSL-FM	Radio Service Corp. of Utah.....	44700	700
Schenectady, N. Y.....	WBCA	Capitol Broadcasting Co.....	44700	
Schenectady, N. Y.....	WGFM	General Electric Co.....	48500	6600
South Bend, Ind.....	WSBF	South Bend Tribune.....	47100	
Springfield, Mass.	WBZA-FM	Westinghouse Radio Stations, Inc..	48100	
Superior, Wisc. ....	.....	Head of Lakes Broadcasting Co.....	44500	2754
Winston-Salem, N. C.....	WMIT	Gordon Gray	44100	69400
*Worcester, Mass.	WTAG-FM	Worcester Telegram Publishing Co..	46100	

All so licensed except those with asterisk (*).

PENDING APPLICATIONS FOR FM—APPROXIMATELY 60

There are five temporary Class 2 Experimental High Frequency B/C Stations licensed. Four are listed under experimental and indicated them by an asterisk under Commercial FM.

The fifth one is—Cincinnati, Ohio—The Crosley Corp., W8XFM—43200—1 kw.

EXPERIMENTAL

Licensee and Location	Call Letters	Frequency Kilocycles	Power Watts
Edwin H. Armstrong, Alpine, N. J.....	*W2XMN	42800	40000
KLZ Broadcasting Co., Denver, Colo.....	W9XLA	25400	100
WKY Radiophone Co., Oklahoma City, Okla.....	W5XAU	26125	100

* Operating under Special Temporary Authorization only.



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Radio Equipment Manufacturers





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of our lifetime**

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As leading manufacturers of sound recording equipment, Presto has been an ever-increasing source of highly important electronic equipment for military uses.

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The result will be evident in Presto post-war production and products. In the interim we are all set to cut another record in 1944—to make it an even greater year in Presto production for victory!

★ ★ ★

P.S. Invest in invasion in 1944! Not all can fight, but we all can work, sweat and save for our future. Use every dollar and dime you can spare to back the attack with War Bonds.

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EQUIPMENT IN WAR AND PEACE

By J. P. Taylor

RCA Victor Division of Radio Corporation of America

WHAT will broadcast equipment be like in the period immediately following the war? There is a widespread impression that "electronics" has taken tremendous steps forward as a result of wartime developments. If this is true, the enthusiastic reason, then radio communications and broadcasting—the oldest and still by far the most important applications of electronic power—should benefit tremendously, and equipment should be new and wondrous indeed. But this viewpoint is not universally shared. It is not, in fact, unusual to hear expressed the opinion that post-war broadcast equipment will differ not one iota from immediate pre-war models. At the present time no one can say with any certainty which viewpoint is right. Not only the duration of the war but also the manner of termination—in particular, whether reconversion comes abruptly or is gradual—will have a decided bearing. It is obvious, for instance, that should civilian production be resumed suddenly in the very near future, then pre-war models would be the only ones that could be manufactured immediately. On the other hand, if the war continues for some time and reconversion is a gradual process, then there will be more time for planning and possibly for the design and drafting of new models.

Postwar Ideas

In spite of these big question marks it is, nevertheless, possible to formulate certain ideas on post-war equipment which may be of value in a general way to station planners. In doing this we have some fairly definite things to go on. We know, for instance, that some types of pre-war equipment had reached an advanced state of development, at least as regards quality of performance. Certain audio units, line amplifiers, for instance, which were produced before the war, were capable of performance equal to any likely standards of the future. Post-war units of the same type may be different as to circuit details or mechanical construction, but they certainly will not represent revolutionary improvements. Another thing that we know is that there have been many war developments in the high frequency ranges. Thus, we can

add to the fact that standard broadcast transmitting equipment pre-war was already highly developed the additional fact that wartime work has been concentrated in other fields, and come out with the obvious answer that standard-band equipment will not be greatly different after the war. On the other hand, we are probably safe in assuming that the general advance in high frequency technique will result in further development of television and related equipment. Finally, we have still a third basis to go on in predicting post-war equipment; namely, the knowledge to be gained by a study of design trends during the decade preceding the war. Such trends can be projected forward to provide some fairly good ideas on future developments.

Since our store of knowledge of the four types of broadcasting—viz., AM, FM, Television and Facsimile—is not equivalent and the degree of development to be expected in each of the four fields also varies considerably, it seems best to analyze each separately.

AM Broadcasting Equipment

"Standard Band" or "AM" broadcasting is, for the time being at least, the biggest and most important of the four types of broadcasting. It is also the oldest and most highly developed, not only as to technique but also as to equipment. Thanks to the efforts of the FCC, transmitting equipment for AM broadcasting has been of consistently high quality for the past ten years or more. Because of this control and a strongly competitive situation—among stations as well as manufacturers—AM equipment has reached a high state of development. Moreover, there have been no inklings of any wartime developments which would greatly influence AM transmitter design.

Judging from the trend in pre-war designs we can expect changes in some transmitter models. One of these trends was toward the use of circuits of higher efficiency. Actually this trend had already approached the ultimate. All of the RCA broadcast transmitters built just before the war employed high-level-modulated circuits which are inherently of

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in Johnny's front room!

"Berlin aflame!" "Huge convoys safe!"
 "Japs driven into the sea!"

... such battle-front news by radio
 brings heart-lift a-plenty for
 the mother and dad of Johnny
 who is fighting somewhere overseas.

The high morale of the folks at home
 ... sustained by good tidings
 via the family radio ... within
 minutes of happening ... is testimony
 of another "3rd Front" victory
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Radio serves on the vital "3rd Front"
 where the minds of an entire people
 - not their bodies - is the target;
 where "sparking" 130,000,000 minds
 to work together ... and win together
as one - is the mission.

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high efficiency. In terms of "plate efficiency of the final stage," the usual criterion of transmitter efficiency, these transmitters had efficiencies of 85 per cent or better. This figure is not likely to be exceeded by any post-war designs.

Another trend was to the use of air-cooling (instead of water-cooling) for all tubes. In 1936 RCA introduced the first air-cooled 5 KW transmitter and in 1941 an air-cooled 50 KW. After the war the transmitters of all manufacturers will probably use air-cooled tubes.

Use of fewer and fewer tubes, with corresponding circuit simplification, has been another long time trend in broadcast transmitters. A 250 watt transmitter of 1932 vintage used a total of 20 tubes (plus a motor generator). In 1941 RCA produced a 250 watt transmitter using only 10 tubes total. These simplifications were due in most part to improvement in available tubes or to design of new tubes. Although few new low frequency tubes have been developed during the war, the further eventual improvement of tubes is a certainty.

Early broadcast transmitters had component parts mounted on horizontal shelves so that checking or replacing a defective component was difficult because of the poor accessibility. In 1936 RCA introduced "vertical-chassis" construction which by eliminating shelves and spreading out components greatly improved accessibility. The same transmitter introduced a new concept of "streamlined" styling based purely on functional design. These innovations started a trend which continued up to the beginning of the war. The most recent advance in this respect is marked by the RCA 5-E transmitter in which "front-access" to all parts is provided along with the ultimate in component accessibility.

In audio equipment for AM broadcasting—and the same equipment will be used for FM—there will undoubtedly be model changes. Here again, however, radical changes are unlikely. Microphones were pretty good before the war. The high-quality ribbon mikes, the "velocity" and the "uni-directional," which were developed and pioneered by RCA have been extensively used in the field of high-quality broadcasting. Turntables, following the trend of recent years, will continue to improve in quality. Just before the war RCA added a universal pick-up head (plays vertical or lateral cut records) to its de luxe turntable, thereby simplifying operating problems. Recording equipments, too, will improve in quality as broadcasters become educated to desirability of having the best that money could buy. In studio audio equipments

packaged units such as the RCA Consolette will undoubtedly become more and more popular. Custom-built RCA installations were also increasing rapidly in number just before the war. Made up from standard units, they provide a means of meeting individual station requirements at a minimum cost.

FM Broadcasting Equipment

The place of FM broadcasting is one of the biggest questions facing the industry today. Any early doubts as to the value and future of FM seem to have been well dispelled. FM has a future—and a big one! The question is: Where does it fit in with AM broadcasting? Many a present broadcaster would like to know whether to expand his AM facilities or save his money for FM—or for Television! Despite these questions it is obvious that FM will expand rapidly—and that a lot of FM equipment will be installed.

While FM transmitters operate in a different frequency band and employ circuits at variance with AM equipment, the design of FM transmitters resembles that of the more conventional models and will undoubtedly follow even more closely as time goes on.

Taking a quick look at the pre-war trends in FM transmitters, we note that the most outstanding was that toward simplification of circuits and reduction in number of tubes used. Early models used as many as 20 tubes in the modulator unit alone—a 1 KW transmitter employed more than 40 tubes. The RCA 1 KW FM transmitter introduced in 1940 used only five tubes in the modulator, 20 in the whole transmitter. Prior to the war RCA had developed and was ready to put into application some novel FM circuits. These will be incorporated in apparatus produced in the post-war period.

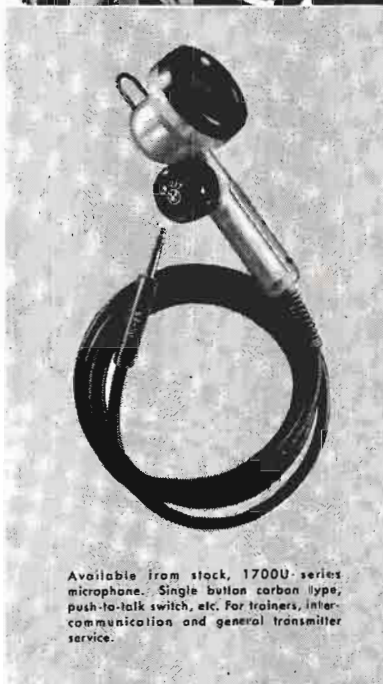
Another trend which developed as the older and larger transmitter manufacturers entered the field was a movement toward building "FM transmitters like de luxe AM transmitters." The high-quality of construction standards (as well as performance), the streamlined styling and the features of accessibility developed in many years of AM experience were thus made available in FM transmitters. The very last FM transmitters produced before the war—such as the RCA 10 KW—were outstanding in this respect. They foretold an era in which FM transmitters would take on the appearance of professionalism typical of present-day AM installations.

That post-war FM equipment will comprise a complete line is fairly certain.

(Please Turn to Page 964)

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ELECTRONICS OF THE FUTURE

By *Dr. Walter R. G. Baker*

Vice-President in Charge of Electronics, General Electric Co.

ELECTRONICS is a serious science. Already it is an important business. It is going to affect the lives and fortunes of every one of us in the years ahead and I believe the fundamentals of that science and that business deserve consideration.

Man has always been curious about the composition of his environment and for this reason people are interested in electronics. Until the 17th century the reasoning of Aristotle, that everything was made of earth, air, fire and water, was generally accepted. The alchemists—opportunists of their time—thought this a fine idea, since by changing the proportions of these four “substances” it should be possible to obtain gold and silver, cheap. They were closer to the truth as we know it today than they had any right to be.

Role of Electrons

Scientists began to talk about electrons 40 years ago and since then we have learned that all the manifestations of what we call electricity are due to electrons. We know that electric current is the harnessing, the channeling, the coordinated flow of electrons.

We know that to light a 40-watt, 110-volt lamp there must pass through the filament, each second, 2,300,000 electrons. But this is not electronics. In the sense we use the term today we mean this raw material, these electrons freed from the bondage of wires, freed from the attractive force operating within the atom. Electrons are electricity in the raw.

Electronics is not a product such as an airplane, or a turbine, or a locomotive. It is a branch of science like chemistry and, as chemistry, is not limited to the manufacture of synthetic rubber or plastics; neither is electronics limited to radio, or television, or communication, or locator systems.

In order to free electrons from the atom, there are three things that can be done: electrons may be knocked out of atoms by violent impact from high-speed

particles; they may be liberated by some form of wave energy such as light rays; they may be freed by heat. The heat method is presently the most important. It is used in millions of electronic tubes such as those in your radio. Actually the hot filament wire boils out electrons in much the way steam comes out of a kettle.

The electronic tube is the most important tool for developing the business end of electronics. The reason why seemingly magical things can be accomplished with electronic tubes is this: during the split second when the electric current is a flow of free electrons in the tube, it can be controlled with a degree of ease, speed and precision that is impossible when the electrons are imprisoned in the wire. With an electronic tube, the current can be stopped, started again, increased or decreased—instantaneously, smoothly and accurately; and without mechanical movement, noise or vibration.

Shortly after World War I, the electronic tube gave birth to its first major business—radio broadcasting.

Frequency Modulation

Shortly before World War II, a new method of radio broadcasting—Frequency Modulation—was started. FM is a new kind of radio wave. It reduces static to the vanishing point and provides a high-fidelity “natural-color” reproduction of sound impossible with present day radio. FM also makes it possible to have not 90 but several thousand radio stations in the United States—all broadcasting without interfering with one another—contrasted with the limited number possible with the present system.

There is little question but that the advantages offered to the consumer by frequency modulation will obsolete the 60,000,000 radio receivers now in American homes.

Radio broadcasting, a \$300,000,000 a year industry, giving employment to thousands and enjoyment to millions, would not exist had we not learned how

☆ ☆ *Electronics* [On To Victory] ☆ ☆ ☆

to control the electron with a device called the electronic tube.

Television Progress

Certainly television will come after the war, but how soon cannot be definitely stated. It will not be at once, since a large investment must be made in television transmitters and some system of connecting transmitters into a network. Whether the inter-connection will be by means of radio, coaxial cable, or wave guides depends upon many factors. The problem certainly can be resolved, but it will take time to work out—not only the technical solution, but what is perhaps of more importance, the economics.

The technical progress due to the war will have a more direct effect on television than on radio broadcasting. This is equally true as applied to some portion of the economics of television equipment. For example, the productive capacity available for cathode ray or picture tubes will be greater than before the war.

Things to Come

The influence of television on our lives from both a national and international viewpoint is a most interesting and fascinating question. What little we know about the electron has, among other things, brought forth the electronic tube. This tube has made possible worldwide wire and wireless communication and sound broadcasting which has brought not merely a more compact world, but a social awakening, an integration of the masses, and a new intellectual activity, the full effect of which we do not as yet realize. To this statement, if we add the old Chinese proverb that "A picture is worth 10,000 words," we begin to see the enormous potentialities of television.

Electronics is reaching into every branch of industry. There are many industrial applications where electronics can do the work better than other types of equipment; in others, electronics is the only possible way of accomplishing the result.

EQUIPMENT IN WAR AND PEACE . . . By J. P. Taylor

(Continued from Page 961)

Before the war RCA had offered (and, in fact, installed) station equipments complete "from microphone to antenna." The audio equipments for these installations were obtained by slight modifications of some of the AM units which sufficed to bring these up to FM standards. After the war all RCA audio units will be capable of FM quality transmission and thereby suitable for use interchangeably in either AM or FM systems. RCA also had a complete line of FM monitoring equipment—including the only standard field intensity meter suitable for use in this range. After the war RCA will have improved models of these.

So-called S-T-L (studio-transmitter-link) transmitters have played considerable part in FM discussions. They insure "FM quality" lines where otherwise unobtainable and provide probably the only satisfactory means of feeding programs to remote stations such as those on mountain tops.

Television Broadcasting Equipment

Television is an art which, while backed up by many years of research and development work, is still subject to important advances. In the past television transmitters have been limited to operation on the lower frequency channels assigned by the FCC. It is obvious that when television service is established it will be necessary to have equipment capable of operation on any of the assigned channels. It may be expected, therefore, that

television transmitters will become available for operation on higher frequencies than at present.

In connection with television studio and remote pickup equipment, changes appear to be less radical. Satisfactory equipments of high quality have been developed and were in use prior to the war. New camera pickup tubes of improved sensitivity were made available by RCA shortly before the war. Since improvement in camera sensitivity will go far to solve the lighting problem and may make large and complicated lighting setups unnecessary, it may be expected that development of more sensitive cameras will continue. Remote equipments will be very important because of the part such pickups will play in producing a source of local programs.

Facsimile Broadcasting Equipment

A discussion of broadcasting equipment is not complete without some mention of facsimile. The pre-war experiments with facsimile broadcasting were inconclusive. Some of this may be attributed to the need for a more definite knowledge of the public's requirement for facsimile service. Speed of reproduction, paper size, etc., are factors which manufacturers can control by proper design of equipment. Certainly with additional experience and recent technical progress, facsimile equipment can be supplied to meet the needs of broadcast service.

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M. F. Balcom, Sylvania Electric Products,
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Air Borne Transmitters: M. M. Hucke, Chairman, RCA Manufacturing Co.

Marine Transmitters: E. F. Herzog, Chairman, General Electric Co.

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Field Receivers: G. E. Gustafson, Chairman, Zenith Radio Corp.

Air Borne Receivers: I. J. Kaar, Chairman, General Electric Co.

Marine Receivers: C. Gunther, Chairman, RCA Manufacturing Co.

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CHIEF ENGINEERS

OF STATIONS IN UNITED STATES AND CANADA

AS OF JANUARY 1st, 1944

Through a radio manpower survey conducted by RADIO DAILY, it was proved that networks and independent stations alike are doing a most commendable job in keeping the forces on the home front in contact with the ever-occurring incidents on the fighting fronts via the indispensable efforts of the engineering departments. Despite the heavy drainage on manpower in this particular department, no more than six very small stations were forced to discontinue operations for the duration.

Alabama

Anniston, WHMA.....James Hudson
 Bessemer, WJLD.....Calaway M. Callicott
 Birmingham,
 WAPI.....Norman S. Hurley
 WBRC.....G. P. Hamann
 WSGN.....Gordon Bishop
 Dothan, WAGF.....John T. Hubbard
 Decatur, WMSL.....Calloway M. Callicott
 Gadsden, WJBY.....L. O. Bruner
 Huntsville, WBHP.....John Garrison
 Mobile,
 WALA.....Raymond Hurley
 Montgomery,
 WCOV.....W. D. Weatherly
 WSFA.....Cliff Shelkofsky
 Muscle Shoals, WLAY.....John W. Smith
 Opelika, WJHO.....F. Marion Hyatt
 Selma, WHBB.....T. F. Kelley, Jr.

Arizona

Globe, KWJB.....Herbert Hartman
 Jerome, KCRJ.....Wayne Fernyhough
 Lowell, KSUN.....Earl Hickman
 Phoenix,
 KOY.....Francis A. Higgins
 KPHO.....Louis Sublett
 KPAR.....Harold Haughwout
 Prescott, KYCA.....Frederick R. Blackburn
 Safford, KGLU.....Herbert Hartman
 Tucson, KTUC.....Cliff Livingston
 Yuma, KYUM.....Leavenworth Wheeler

Arkansas

Blytheville, KLCN.....Bob Connor
 El Dorado, KELD.....A. W. Hearin
 Fort Smith, KFPW.....John M. Van Horn
 Helena, KFFA.....J. C. Warren
 Hot Spring National Park, KTHS.....Cecil Suitt
 Little Rock,
 KWFC.....Melvin P. Spann
 KARK.....Dan L. Winn
 KGHI.....K. F. Tracy
 KLRA.....K. F. Tracy
 Siloam Springs, KUOA.....Kenneth Maxwell
 Texarkana, KCMC.....Charles Mathis

California

Bakersfield,
 KERN.....Verne Shatto
 Beverly Hills, KMPC.....James LaShaum
 Chico, KHSL.....Emery P. Milburn
 Eureka, KIEM.....Alvor Olson

El Centro, KXO.....James Coin
 Fresno,
 KARM.....John F. Scales
 KPRE.....Sheldon Anderson
 KMJ.....William N. Wallace
 Long Beach, KGER.....Ronald Oakley
 KFOX.....L. W. McDowell
 Los Angeles,
 KECA.....H. L. Blatterman, Curtis W. Mason
 KFAA.....Owen J. Ford
 KFT.....H. L. Blatterman, Curtis W. Mason
 KFSG.....Myron Kluge
 KFVD.....William Gass
 KFWB.....Harry Myers
 KGFJ.....Homer Obuchon
 KHJ.....Frank Kennedy
 KMTR.....Pete Wilson
 KNX.....Lester H. Bowman
 KRKD.....Willis O. Freitag
 Marysville, KMYC.....B. B. Ballard
 Merced, KYOS.....Malcolm R. Beavers
 Monterey, KDON.....Edward C. Duty
 Oakland,
 KLS.....Howard Faulkner
 KLX.....Ros Smith
 KROW.....C. E. Downey
 Pasadena,
 KPAS.....John A. Smithson
 KPWK.....Paul Spargo
 Redding, KVCV.....Charles Castor, Jr.
 Riverside, KPRO.....Fred Hammond
 Sacramento,
 KFBK.....Stan Sronce
 KROY.....Howard Martinean
 San Bernardino, KFXM.....Richard T. Sampson
 San Diego,
 KFMB.....Charles A. Cooper
 KGB.....William G. Collins
 San Francisco,
 KFRC.....Jim McArdle
 KGO.....R. B. Palmer
 KPO.....George Greaves
 KSAN.....N. J. Patterson
 KSFO.....Royal V. Howard
 KYA.....Paul C. Schulz
 San Jose, KQW.....Ken Owen
 San Luis Obispo, KVEC.....Earl Travis
 Santa Ana, KVOE.....Wallace S. Wiggins
 Santa Barbara,
 KDB.....William C. Buckley
 KTMS.....Bill McHardie
 Santa Rosa, KSRO.....Howard McCauley
 Stockton,
 KDGM.....Lloyd Amoo
 KWG.....Lee Berryhill
 Visalia, KTKC.....Bert Williamson
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 KFEL.....Howard Johnson
 KLZ.....Harvey Wehrman
 KMYR.....Glen James
 KOA.....Robert H. Owen
 KVOB.....W. D. Pyle, T. C. Ekrem
 Durango, KIUP.....John L. Antic
 Grand Junction, KFXJ.....Eph Towae
 Greeley, KFKA.....Kenneth Cooper
 Pueblo, KGHF.....Phil Gundy

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Bridgeport,
 WICC.....George Keich
 WNAB.....Vincent De Laurentis
 Hartford,
 WDRC.....Italo A. Martino
 WNBC.....Roger B. Holt
 WTIC.....H. D. Taylor
 WTHT.....Charles S. Masini
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 New Haven, WELI.....Fred T. King
 New London, WNLC.....Gerald T. Morey
 Waterbury,
 WATR.....Harold Thomas
 WBRV.....Frank Hales
 Stamford, WSRB.....Edward Markman

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 WDEL.....J. E. Mathiot

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 WTOP.....Clyde Hunt
 WMAL.....Dan Hunter
 WOL.....Harry Lyon
 WRC.....A. E. Johnson
 WTOP.....Donald Cooper
 WWDC.....Ray Carson
 WWDC.....Ross H. Berille

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 Fort Lauderdale, WFTL.....Fred Clark
 Gainesville, WRUF.....Dr. Palmer Craig
 Jacksonville,
 WJAX.....John T. Hopkins, 3rd
 WJHP.....B. Hayford
 WMBR.....E. B. Vordermark
 WPDQ.....James R. Donovan
 Lakeland, WLAK.....Wm. P. Lee
 Lake Worth, WWPG.....Paul McGinty
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 WIOD.....Wilton R. Chiles
 WQAM.....James Burke, Jr.
 Miami Beach, WKAT.....Arthur Smith, Thomas Mæree
 Ocala, WTMG.....Beecher Hayford, Joyce Dice
 Orlando,
 WDDB.....J. E. Yarbrough
 Palm Beach, WWPG.....Paul McGinty
 Panama City, WDLP.....Beecher Hayford
 St. Augustine, WFOY.....Pat Bernhard
 St. Petersburg,
 WSUN.....Louis J. Link
 WTSP.....Wm. D. Mangold
 Sarasota, WSPB.....Bill Sheetz
 Tallahassee, WTAL.....William A. Snowden, Jr.
 Tampa,
 WDAE.....William Pharr Moore
 WFLA.....Joe Mitchell
 West Palm Beach, WJNO.....E. Whitt MacDowell

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 WALB.....De Forest T. Layton
 WGPC.....Charles M. Kinnett
 Atlanta,
 WAGA.....Al Jones
 WATL.....R. W. Minton
 WGST.....Ben Akerman
 WSB.....C. F. Daugherty
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 WGAC.....John Lyon
 Augusta, WRDW.....Harvey Aderhold
 Brunswick, WMOG.....Kenneth E. White
 Cedartown, WGAA.....Clarence Landress

Columbus, WRBL.....Wilfred Siddle
 Cordele, WMJM.....Clayton Lee
 Dalton, WBLJ.....W. C. Roberts
 Gainesville, WGGG.....F. K. Brown
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 WBML.....H. S. Goodrich
 WMAZ.....George P. Rankin, Jr.
 Moultrie, WMGA.....James Wilder
 Rome, WRGA.....R. L. Starr
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 WSAV.....Meredith E. Thompson
 WTOG.....Claude M. Gray
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 Valdosta, WGOV.....C. E. Watkins
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 Lewiston, KRLL.....Milton MacLafferty
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 Wallace, KWAL.....Charles Crane

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 WAIT.....Edward J. Jacker
 WBBM.....J. J. Beloung
 WEDC.....Chester Lewicki
 WENR.....E. C. Hortsman
 WGES.....Edward N. Jacker
 WGN.....George Lang
 WJDD.....Walter Myers
 WLS.....Thomas L. Rowe
 WMAQ.....Howard C. Luttgens
 WMBI.....A. P. Frye
 WSBC.....William Shunk
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 Danville, WDAN.....Theodore Mazin
 Decatur, WSOY.....Paul Wnorowski
 East St. Louis, WTMV.....Thomas R. McLean
 Galesburg, WGIL.....Dale King
 Harrisburg, WEBQ.....Joseph R. Tat
 Jacksonville, WLDS.....Gerald Cassens
 Joliet, WCLS.....Lester De Costa
 Peoria, WMBD.....Ted Giles
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 WBZA.....H. E. Randol
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 Lowell, WLLH.....Ralph Newton
 New Bedford, WNBH.....Irving Vermilya
 Pittsfield, WBRK.....Leonard Lavendol
 Springfield,
 WMAS.....Earle G. Hewinson
 WSPR.....Lawrence A. Reilly
 Worcester,
 WAAB.....Joseph Grahn
 WTAG.....Elliot A. Browning

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Battle Creek, WELL.....Earl J. Stone
 Bay City, WBCM.....Ralph H. Carpenter
 Calumet, WHDF.....George L. Burgan
 Detroit,
 WJBK.....E. McKenzie
 WJLB.....Edward H. Clark
 WJR.....Merrill Mitchell
 WWJ.....Herbert F. Tank
 WXYZ.....Verne C. Alston
 East Lansing, WKAR.....Norris E. Grover
 Flint, WFDF.....Frank D. Fallain
 Grand Rapids, WOOD.....Fred W. Russell
 WLA V.....Raymond Plank
 Ironwood, WJMS.....Arne Dahlbacka
 Jackson, WIBM.....Charles Wirtanen
 Kalamazoo, WKZO.....Carl E. Lee
 Lansing, WJIM.....Melvin Wirth
 Lapeer, WMPC.....Hollis F. Hayes
 Muskegon, WKBZ.....George Krivitzky
 Pontiac, WCAR.....Wayne N. Cook
 Port Huron, WHLS.....Leslie Conant
 Royal Oak, WEXL.....Jerome Steadly
 Saginaw, WSAM.....Ted Seaman
 Sault Ste. Marie, WSOO.....Eugene Kaari
 Traverse City, WTCM.....Drew McClay

Minnesota

Albert Lea, KATE.....Lawrence Lawson
 Duluth,
 KDAL.....Robert A. Dettman
 WBEA.....William Lounsberry
 Hibbing, WMFG.....Wm. Lounsberry
 Mankato, KYSM.....James Houts
 Minneapolis,
 WCCO.....Hugh S. McCartney
 WDG Y.....Dr. George W. Young
 WLB.....Burton Holmberg
 WLOL.....Gene Brautigam, Ogden Prestholdt
 WTCN.....Myron Fleming
 Moorhead, KVOX.....Richard Hanson
 Northfield, WCAL.....O. W. Halderson
 Rochester, KROC.....Fred C. Clarke
 St. Cloud, KFAM.....Robert B. Witschen
 St. Paul, WMIN.....Warren Fritze
 Virginia, WHLB.....William E. Lounsberry
 Willmar, KWLM.....Lloyd Stenberg
 Winona, KWNO.....L. L. McCurnin

Mississippi

Columbus, WCBI.....Jack V. Jones
 Greenville, WJPR.....George W. Wilson
 Greenwood, WGRM.....Gordon Clark
 Gulfport, WGCN.....Donovan Murphy
 Hattiesburg, WFOR.....James N. Glore
 Jackson, WSLI.....C. A. Perkins
 WDX.....P. G. Root
 Laurel, WAML.....Bruce Dennis
 McComb, WSKB.....Robert Louis Sanders
 Meridian, WOOC.....D. W. Gavin

CHIEF ENGINEERS

Natchez, WMIS.....Thomas Patterson
 Vicksburg, WQBC.....C. E. Drake

Missouri

Cape Girardeau, KFVS.....Oscar Hirsch
 Columbia, KFRU.....Robert Haish
 Hannibal, KHMO.....Raymon Schildknecht
 Joplin, WMBH.....Richard Meek
 Jefferson City, KWOS.....Harold E. White
 Kansas City,
 KCMO.....Jack Stewart
 KMBC.....A. R. Moler
 WDAF.....Joseph A. Flaherty
 WHB.....Henry Goldenberg
 Poplar Bluff, KWOC.....Don Lidenton
 St. Joseph, KFEQ.....Fred H. Damm
 St. Louis,
 KFUO.....Carl H. Meyer
 KWK.....N. J. Zehr
 KXOK.....Arthur Rekart
 WEW.....George E. Rueppel
 WIL.....Chal C. Stoup
 Sedalia, KDRO.....Bing G. Wong
 Springfield,
 KGBX-KWTO.....Fritz Bauer
 KTTO.....Frank L. Barker

Montana

Billings, KGHL.....Jeff Kiichli
 Bozeman, KRBM.....Jack Provis
 Great Falls, KFBB.....Wilbur Myhre
 Helena, KPFA.....R. D. Martin
 Kalispell, KGEZ.....W. H. Patterson
 Miles City, KRJF.....H. W. Panchot
 Missoula, KGOV.....Fred Wamble
 Sidney, KGCX.....Frank A. Toomey

Nebraska

Fremont, KORN.....James Wirka
 Grand Island, KMMJ.....D. Swanson
 Hastings, KHAS.....Lloyd Jones
 Kearney, KGFV.....Jack Lewis
 Lincoln, KFAB-KFOR.....Mark W. Bullock
 Norfolk, WJAG.....Frank Weidenbach
 North Platte, KGNF.....J. B. Eaves
 Omaha,
 KBON.....Richard Wlna
 KOIL.....Mark Bullock
 WOW.....William J. Kotera
 Scottsbluff, KGGY.....Harland Morrison

Nevada

Reno, KOH.....Tom Boland

New Hampshire

Keene, WKNE.....Ernest Batchelder
 Laconia, WLNH.....Louis Steady
 Manchester,
 WFEA.....Reginald A. B. Schow
 WMUR.....Vincent H. Chandler
 Portsmouth, WHEB.....Paul Lindsay

New Jersey

Asbury Park, WCAP.....Gordon Shaw
 Atlantic City,
 WBAB.....Earle Godfrey
 WPPG.....Blair K. Thron
 Bridgeton, WSNJ.....Francis Fekel
 Camden, WCAM.....C. E. Onens
 Jersey City,
 WHOM.....Theodore Gemp
 Newark, WAAT.....Anthony Castellani
 Paterson, WPAT.....Earl F. Lucas
 Trenton,
 WTNJ.....Edward P. Knowles
 Zaraphath, WAWZ.....Nathaniel Wilson

New Mexico

Albuquerque,
 KGGM.....Leonard Dodds
 KOB.....George S. Johnson

Carlsbad, KAVE.....Carl C. Cook
 Clovis, KICA.....Vernon Hughes
 Hobbs, KWEW.....Chet L. Gonce
 Las Vegas, KFUN.....A. F. Schultz
 Roswell, KGFL.....Melvin Unger

New York

Albany,
 WABY.....J. H. Corey
 WOKO.....O. A. Sardi
 Auburn, WMBO.....Herbert House
 Batavia, WBTA.....Howard Cochran
 Binghamton, WNBF.....Lester H. Gilbert
 Brooklyn,
 WBYN.....Peter Testan
 WLIB.....Arthur Faske
 Buffalo,
 WBen.....Ralph J. Kingsley
 WBNY.....Thomas L. Vines
 WEBR.....Raymond Lamy
 WGR.....K. B. Hoffman
 WKBW.....K. B. Hoffman
 Elmira, WENY.....Tburlow A. Greane
 Freeport, WGBB.....Robert Milos
 Ithaca, WHCU.....True McLean
 Jamestown, WJTN.....Harold J. Kratzert
 Kingston, WKNY.....W. J. Fahey
 Middletown, WALL.....Ernest Warnock
 Newburgh, WGNV.....Marvin Seimes
 New York,
 WABC.....Henry Grossman
 WBNX.....A. L. Solbrig
 WEA-F (NBC).....F. A. Wankel
 WEVD.....Charles Brown
 WHN.....Paul Fuelling
 WINS.....J. P. McNally
 WJZ (Blue Network).....George Milne
 WMA.....Frank Marx
 WOR.....J. R. Poppele
 WOV.....Hillis W. Holt
 WNEW.....M. J. Weiner
 WQXR.....Russell D. Valentine
 Niagara Falls, WHLD.....Robert Wilson
 Ogdensburg, WSLB.....Clifford Moore
 Olean, WHDL.....Thomas J. Gill
 Plattsburg, WMFF.....Jack Nazak
 Poughkeepsie, WKIP.....John Burke
 Rochester,
 WHAM.....Kenneth Gardner
 WHEC.....Bernard C. O'Brien
 WSAJ.....Gordon P. Brown
 Schenectady, WGY.....Victor Campbell
 Schenectady, WGY.....W. J. Purcell
 WSNY.....Irving P. Beck
 Syracuse,
 WAGE.....Charles Brannen
 WFBL.....Alfred R. Marcy
 WOLF.....David Foote
 WSYR.....A. G. Belle Isle
 Troy, WTRY.....Woodbury Carter
 Troy, WTRY.....William Watson, W. J. Lardner
 Troy, WHRY.....Waldo Whitman
 WHAZ.....Hiram D. Harris
 Utica, WIBX.....Michael Carlo
 Watertown,
 WATN.....J. A. Perry
 WWNV.....Maynard B. Davis
 White Plains, WFAS.....Frank A. Seitz
 Woodside, WWRL.....William H. Reuman

North Carolina

Asheville, WISE.....Madeline Hollerlth
 WUNC.....Cecil Hoskins
 Burlington, WBBB.....James Beatty
 Charlotte,
 WAYS.....John C. Price
 WBT.....M. J. Minor
 WSOC.....L. L. Caudie, Jr.
 Durham, WDNC.....Walter Hill
 Elizabeth City, WCNC.....James M. Wall
 Fayetteville, WFNC.....Howard Harrell
 Gastonia, WGNC.....W. C. Groves, Jr.
 Goldsboro, WGBR.....Daniel B. Trueblood
 Greensboro,
 WBIG.....Earl Allison

WGBG..... Joseph Warlick
 Greenville, WGTC..... Hank Tribbley
 Hickory, WHKY..... E. S. Long
 High Point, WMFR..... Robert P. Boyd
 Kinston, WFCT..... David Hardison
 New Bern, WHIT..... Glen Neuville
 Raleigh,
 WPTF..... Henry Hulick, Jr.
 WRAL..... Stanley H. Brown
 Roanoke Rapids, WCBT..... C. W. Mears
 Salisbury, WSTP..... Carl B. Watson
 Washington, WRRF..... George P. Martin
 Wilmington, WMFD..... E. I. Herring
 Wilson, WGTM..... Warren Wooten
 Winston-Salem,
 WAIR..... Lee King
 WSJS..... Phil Hedrick

North Dakota

Bismarek, KFYY..... Ivar Nelson
 Devil's Lake, KDLE..... Richard Moritz
 Fargo, WDAY..... Julius Hetland
 Grand Forks, KFJM..... Edwin J. O'Brien
 Jamestown, KSJB..... Kenneth L. Rich
 Minot, KLPM..... C. W. Baker
 Valley City, KOVC..... Charles Sjostrom

Ohio

Akron,
 WADC..... John Aitkenhead
 WAKR..... Wm. W. Robertson
 Ashtabula, WICA..... G. G. Gaultney
 Canton, WHBC..... Kenneth L. Sliker
 Cincinnati
 WKCY..... Harvey Glatstein
 WCPO..... Roger Wetz
 WKRC..... George Wilson
 WLW..... R. J. Rockwell
 WSAI..... R. J. Rockwell
 Cleveland,
 WCJE..... Ralph DeLany
 WGAR..... R. Morris Pierce
 WHK..... Ralph DeLany
 WJW..... Gerold G. Roberts
 WTAM..... S. E. Leonard
 Columbus,
 WBNS..... Lester H. Nafzger
 WCOL..... James E. Lowe
 WHKC..... J. E. Anderson
 WOSU..... C. H. Boehnker
 Dayton,
 WHIO..... Ernest L. Adams
 WING..... Paul F. Braden
 Findlay, WF1N..... Edgar Smith
 Lima, WLOK..... Jack E. Bannon
 Mansfield, WMAN..... Perry Wilson
 Marion, WMRN..... S. Robert Morrison
 Portsmouth, WPAV..... Maurice Myers
 Springfield, WIZE..... Arthur Martin
 Steubenville, WSTV..... Joseph M. Troesch
 Toledo,
 WSPD..... William Stringfellow
 WTOL..... John Sheehan
 Warren, WWRN..... Charles J. Burton
 Youngstown, WKBN..... B. T. Wilkins
 WFMJ..... Frank Dieringer
 Zanesville, WHIZ..... William A. Hunt

Oklahoma

Ada, KADA..... Harold Walker
 Ardmore, KVSO..... C. M. Milner
 Bartlesville, KWON..... E. Dallas De Grafenreid
 Elk City, KASA..... G. W. Patterson
 Enid, KCRC..... Paul Snell
 Lawton, KSWO..... W. E. Billington
 Muskogee, KBIX..... D. W. Hoisington
 Norman, WNAD..... Clyde Farrar
 Oklahoma City,
 KOCY..... Harold Durham
 KOMA..... M. W. Thomas
 KTOK..... Clifford Eastum
 WKY..... Herman J. Lovell
 Okmulgee, KHBB..... Chester Ludwick
 Shawnee, KGFF..... S. Ricciotti
 Tulsa,
 KOME..... Bob Dryden
 KTUL..... Robert Snider
 KVOO..... L. W. Stinson

Oregon

Albany, KWIL..... Herb Davidson
 Astoria, KAST..... James M. Titus
 Baker, KBKR..... Sidney Williams
 Bend, KBND..... Wallace Guthrie
 Corvallis, KOAC..... Grant S. Fulkert
 Eugene, KORE..... Harold Gander
 Grant's Pass, KUIN..... Edward A. Malone
 La Grande, KLBM..... Murray Durham
 Marshfield, KOOS..... Pete Gray
 Medford, KMED..... Dave Rees
 Pendleton, KWRC..... Paul E. Walden
 Portland,
 KBPS..... Louis Ballinger
 KEX-KGW..... Harold Singleton
 KALE-KOIN..... Louis S. Bookwalter
 KWJJ..... Wilbur Jerman
 KXL..... Lew Ballinger
 Roseburg, KRNR..... Henry J. Chandler, Jr.
 Salem, KSUM..... Clyde Carlton

Pennsylvania

Altoona, WFBG..... George R. Burgoon
 Butler, WISR..... Paul Rex
 Du Bois, WCED..... Vernon Stahl
 Easton, WEST..... J. E. Mathiot
 Erie, WERC..... Thomas Phillips, Jr.
 WLEU..... Clarence Baker
 Grove City, WSAJ..... H. W. Harmon
 Harrisburg,
 WHP..... R. S. Duncan
 WKBO..... J. E. Mathiot
 Hazleton, WAZL..... J. E. Mathiot
 Johnstown, WJAC..... Nevin Straub
 Lancaster, WGAI..... J. E. Mathiot
 Lewistown, WMRF..... Bernard H. Bopp
 New Castle, WKST..... Robert Emch
 Philadelphia,
 KYW..... Ernest H. Gager
 WCAU..... George Lewis
 WDAU..... Frank Unterberger
 WFIL..... Louis E. Littlejohn
 WIBG..... John H. Henninger
 WIP..... Clifford Harris
 WPEN..... Charles W. Burtis
 Pittsburgh,
 KDKA..... T. C. Kenney
 KOV..... Walter McCoy
 WCAE..... James Schultz
 WJAS..... Walter McCoy
 WWSW..... Roy Harlow
 Reading,
 WBEU..... H. O. Landis
 Scranton,
 WARM..... Adolph Oschmann
 WGBI..... Kenneth R. Cooke
 Sharon, WPIC..... A. C. Heck
 Sunbury, WKOK..... John Keller
 Uniontown, WMBS..... William Henzly
 Washington, WJPA..... Joseph M. Troesch
 Wilkes-Barre,
 WBAX..... John Stenger, Jr.
 WBRE..... Charles Sakoski
 Williamsport, WRAK..... Louis N. Persio
 York,
 WORK..... J. E. Mathiot
 WSBA..... Willis Weaver

Rhode Island

Pawtucket, WFCL..... Gilbert Johnson
 Providence, WPRO..... Howard W. Thornley
 WEAN..... Harry Tilley
 WJAR..... Thomas Prior

South Carolina

Anderson, WAIM..... Harold C. Spengler
 Charleston,
 WCSC..... Wilbur Albee
 WFMJ..... Douglass M. Bradham
 Columbia,
 WCOS..... Harry Clippard
 WIS..... Scott Helt
 Florence, WOLS..... Herman Hanks
 Greenville, WFBC..... Clyde Etheridge
 WMRC..... George D. Tar
 Greenwood, WCRS..... E. C. Niemann
 Spartanburg, WORD-WSPA,
 Murray Coleman, Harold Beckholt
 Sumter, WF1G..... William E. Williams

CHIEF ENGINEERS

South Dakota

Aberdeen, KABR.....Delbert T. Hunt
 Pierre, KGFX.....Robert H. Dye
 Rapid City,
 KOBH.....A. E. Griffiths
 WCAT.....E. E. Clark
 Sioux Falls, KELO-KSOO.....Max Staley
 Vermillion, KUSD.....George Nordquist
 Watertown, KWAT.....Francis Alwin
 Yankton, WNAX.....Clifford Todd

Tennessee

Bristol, WOPI.....R. H. Smith
 Chattanooga, WDEF.....Vann Campbell
 Chattanooga,
 WAPO.....B. B. Barnes
 WDEF.....B. C. Baker
 WDEF.....Vernon Campbell
 WDOD.....Julius Vessels
 Clarksville, WZM.....John Bailey
 Cookeville, WHUB.....Charles Burch
 Jackson, WTJS.....B. Carey Brummel
 Johnson City, WJHL.....O. K. Garland
 Kingsport, WKPT.....G. W. Upehurch
 Knoxville,
 WBIR.....J. Rex Horton
 WNOX.....John L. Cole, Jr.
 WROL.....Owen McReynolds
 Memphis,
 WHBQ.....W. M. Roy
 WMC.....E. C. Frase, Jr.
 WMPS.....J. G. Deaderick
 WREC.....S. D. Wooten, Jr.
 Nashville,
 WLAC.....F. D. Binns
 WSIX.....Walter Ferguson
 WSM.....George Reynolds

Texas

Abilene, KRBC.....J. B. Casey
 Amarillo,
 KFDA.....Howard Blaker
 KGNC.....Wm. H. Torrey
 Austin,
 KNOW.....James E. Lewis
 KTBC.....M. W. Jeffus
 Beaumont, KRIC.....Ben Hughes
 KFDM.....L. M. Sanders
 Big Spring, KBST.....Andrew M. Jones
 Brownsville, KEEW.....Glenn McIntosh
 Brownwood, KBWD.....A. W. Stewart
 College Station, WTAW.....H. C. Dillingham
 Corpus Christi,
 KEYS.....Earle C. Dunn
 KRIS.....Robert S. Bush
 Corsicana, KAND.....Gene Hellum
 Dallas,
 KRLD.....Roy M. Flynn
 KSKY.....Morris M. Ming
 WFAA.....Raymond Collins
 WRR.....D. J. Tucker
 El Paso,
 KROD.....Edward P. Talbott
 KTSM.....E. L. Gemoets
 Fort Worth,
 KFJZ.....Truett Kimzey
 KGKO.....R. C. Stinson
 WBAP.....R. C. Stinson
 Galveston, KLUF.....Lee Clough
 Harlingen, KGBS.....Sherman L. Spencer
 Houston,
 KPRC.....H. T. Wheeler
 KTRH.....Howard Robinson
 KXYZ.....Gerald Chinski
 Huntsville, KSAM.....Robert Newton
 Laredo, KPAB.....Hulan Smith
 Lubbock, KFYO.....W. S. Bedsoe
 Midland, KRIH.....Jack Cecil
 Palestine, KNET.....B. A. Laurie
 Pampa, KPDN.....Howard Blaker
 Paris, KPIT.....Mitchell Serest
 Port Arthur, KPAC.....Cliff Hamilton
 San Angelo, KGKL.....Frank Jones
 San Antonio,
 KABC.....Paul Wolf

KMAC.....Charles F. Harris
 KONO.....George W. Ing
 KTSA.....W. G. Egerton
 WOAL.....Fred Sterling
 Sweetwater, KXOX.....G. W. Dotson
 Temple, KTEM.....Paul Shaw
 Texarkana, KCMC.....Paul McCaslin
 Tyler, KGKB.....John B. Sheppard
 Vernon, KQWC.....Herman Ridgway
 Victoria, KVIC.....Robert McCown
 Waco, WACO.....L. H. Appleman
 Weslaco, KRGV.....O. L. Hartwig
 Wichita Falls, KWFT.....John Adams

Utah

Logan, KVNU.....C. N. Layne
 Ogden, KLO.....W. D'Orr Cozzens
 Provo, KOVO.....Gerald Peterson
 Salt Lake City,
 KDYL.....John M. Baldwin
 KUTA.....Lyle Wahlquist

Vermont

Burlington, WCAC.....John C. Quill
 Rutland, WSYB.....David Lyons
 St. Albans, WWSR.....Theodore Boisvert
 Waterbury, WDEV.....Paul Hurd

Virginia

Charlottesville, WCHV.....Walter Gray
 Covington, WKEY.....James Garber
 Danville, WBTM.....Harry W. Spencer
 Fredericksburg, WFVA.....Phil Whitney
 Harrisonburg, WSVB.....Warren L. Braun
 Lynchburg, WLVA.....John Orth
 Martinsville, WMVA.....Dewey W. Muse
 Newport News, WGR.....William P. Grether
 Norfolk, WTAR.....Julius L. Grether
 Petersburg, WPID.....Fred Wagner
 Portsmouth, WSAP.....E. Denzil Pulley
 Richmond,
 WBBL.....R. W. Raabe
 WMBG.....Wilfred H. Wood
 WRNL.....Rudolph W. Raabe
 WRVA.....David C. Woods
 Roanoke,
 WDBJ.....J. W. Robertson
 WLSL.....Philip Briggs
 Suffolk, WLPN.....Fred Wagner
 Winchester, WINC.....Richard F. Lewis, Jr.

Washington

Aberdeen, KXRO.....Kenneth Grinde
 Centralia-Chehalis, KELA.....Ellwood Lippencott
 Everett, KEVE.....Ray Hilgers
 KRKO.....Roy C. Towne
 Olympia, KGY.....Walter McGoffin
 Pullman, KWSC.....George M. Fresse
 Seattle,
 KEVR.....John L. Kelley
 KIRO.....James Hatfield
 KJR.....F. J. Brott
 KOL.....Perry C. Lind
 KOMO.....F. J. Brott
 KRSC.....George Freeman
 KXA.....John Dubtuque
 Spokane,
 KFIO.....Dee Waymire
 KFPY.....George Langford
 KGA-KHQ.....G. E. Grady
 Tacoma,
 KMO.....Joe Kolesar
 KTBI.....Joseph P. Ernst
 KVI.....Raymond Griese
 Walla Walla, KUJ.....M. L. MacLafferty
 Vancouver, KVAN.....S. W. McCreedy
 Yakima, KIT.....Harry B. Murphy

West Virginia

Beckley, WJLS.....Al J. Ginkle
 Bluefield, WHIS.....P. T. Flanagan
 Charleston,
 WCHS.....Odes E. Robinson
 WGKV.....Odes Robinson

CHIEF ENGINEERS

Clarksburg, WBLK..... Joseph A. Wright
 Fairmont, WMMN..... Robert Hough
 Huntington, WSAZ..... John R. Csensich
 Morgantown, WPAR..... Ray C. Spense
 Parkersburg, WPAR..... Cecil Knowles
 Welch, WBRW..... John Timberlake
 Wheeling,
 WKWK..... Fred Baker
 WVVA..... Edwin L. Keim

Wisconsin

Appleton, WHBY..... George Merkle
 Ashland, WATW..... Hinc Dahlbacka
 Eau Claire, WEAU..... T. O. Jorgenson
 Fond du Lac, KFIZ..... Wendell S. Meyers
 Green Bay, WTAQ..... Wallace Stengel
 Janesville, WCLO..... William Havens
 La Crosse, WKBH..... Al Leeman
 Madison,
 WHA..... John Stiehl
 WIBA..... Norman Hahn
 Manitowoc, WOMT..... W. F. Dubin
 Marinette, WMAA..... Martin R. Lund
 Medford, WIGM..... Gerald J. Boos
 Milwaukee,
 WEMP..... Raymond Host
 WISN..... N. J. Richard
 WTMJ..... Daniel W. Gellerup
 Oshkosk, WOSH..... Nathan Williams
 Poynette, WIBU..... Leonard Doese
 Racine, WRJN..... F. Lee Dechant
 Rice Lake, WJMC..... Albert Bertha
 Sheboygan, WHBL..... Herbert Mayer
 Stevens Point, WLBL..... Walter Ninneman
 Superior, WDSM..... Melvin Laskey
 Wausau, WSAU..... Roland Richardt
 Wisconsin Rapids, WPHR..... Garth N. Bowker

Wyoming

Cheyenne, KFBC..... Gaal Barrett
 Powell, KPOW..... Del Brandt
 Rock Springs, KVRS..... Archie Buchanan
 Sheridan, KWYO..... Robert F. Crossthwaite

Alaska

Anchorage, KFQD..... Wm. J. Wagner
 Fairbanks, KFAR..... August G. Hiebert
 Juneau, KINY..... Vincent I. Kraft

Hawaii

Honolulu, KGMB..... Ernest Lindemann

Puerto Rico

Ponce, WPAB..... Jose Sepulveda
 San Juan, WIAC..... Alfonso Sanchez

Canada Alberta

Calgary, CFAC..... Earl C. Connor
 CFCN..... W. V. McLaughlin
 CJCJ..... Patrick Green
 Edmonton,
 CFRN..... F. Makepeace
 CJCA..... Gordon Shillabeer
 CKUA..... Roy Usher
 Grande Prairie, CFGP..... Oswald Thorkalson
 Lethbridge, CJOC..... James Ihey

British Columbia

Chilliwack, CHWK..... Jack Pilling
 Kamloops, CFJC..... Alfred G. Laird
 Kelowna, CKOV..... J. H. B. Browne
 Nelson, CKLN..... R. I. Walker
 Prince Rupert, CFPR..... C. H. Insulander
 Trail, CJAT..... E. C. Ayles
 Vancouver,
 CBR..... Norman Olding
 CKMO..... R. Whiteside
 CKWX..... Gordon Fairweather
 Victoria, CJVI..... J. Sommers

Manitoba

CKRC..... A. W. Hooper
 Winnipeg, CKY..... W. A. Duffield

New Brunswick

Campbellton, CKNB..... L. P. Paquet
 Fredericton, CFNB..... E. S. Cassidy
 Moncton, CKCW..... A. J. White
 Sackville, CBA..... Rachel Campbell
 Saint John, CHSJ..... J. G. Bishop

Nova Scotia

Antigonish, CJEX..... Gordon MacDougall
 Halifax, CHNS..... A. W. Greig
 Sydney, CJCB..... A. Vernon
 Yarmouth, CJLS..... Donald L. Smith

Ontario

Brantford, CKPC..... Alfred Teague
 Brockville, CFBR..... G. W. Andrews
 Chatham, CFCC..... Gordon Brooks
 Hamilton,
 CHML..... William Crawford
 CKOC..... L. Horton
 Kingston,
 CFRC..... Professor H. S. Stewart
 CKWS..... George McCurdy
 Kirkland Lake, CJKL..... Tom Watson
 Kitchener, CKCR..... Ion Hartman
 London, CFPL..... Cecil York
 North Bay, CFCH..... Jack Barnaby
 Ottawa, CBO..... E. C. Stewart
 Owen Sound, CFOS..... William Vallins
 Peterborough, CHEX..... Bert Crump
 Prescott, CFCL..... G. W. Andrews
 Sault St. Marie, CJIC..... M. Fisher
 Sault St. Marie, CJIC..... S. C. Cusack
 Stratford, CJCS..... George Hildebrand
 Sudbury, CKSO..... Jim McRae
 Timmins, CKGB..... Ernest Mott
 Toronto,
 CBL..... Howard Hilliard
 CJBC..... Howard Hilliard
 CFRB..... Jack Sharpe
 CKCL..... Ernest O. Swan
 Windsor, CKLW..... W. J. Carter
 Wingham, CKNX..... Gerald Cruickshank

Prince Edward Island

Charlottetown, CFCE..... R. F. Large
 Summerside, CHGS..... Angus MacKee
 Chicoutimi, CBJ..... J. E. Roberts
 Hull, CKCH..... Max Gebhardt

Quebec

Amos, CHAD..... George H. Pope
 Montreal,
 CBF..... E. D. Roberts
 CBM..... E. D. Roberts
 CFCE..... J. G. Gettenby
 CHLP..... Alphonse Cloutier
 CKAC..... Leonard Spencer
 Montreal, CBM..... Rupert Caplan
 New Carlisle, CHNC..... J. R. McGough
 Quebec, CHRC..... Arsene Nadeau
 CKCV..... Albert Dubergier
 Rouyn-Noranda, CKRN..... George H. Pope
 Sherbrooke, CHLT..... Romeo Frchette
 Three Rivers, CHLN..... Leon Trepanier
 Val D'Or, CKVD..... George Pope
 Ste-Anne-de-la-Pocatiere, CHGB..... L. M. Desjardins

Saskatchewan

Moose Jaw, CHAB..... M. Pickford
 Prince Albert, CKBI..... Tom Vaness
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 CJRM..... William McDonald
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 Plant Superintendent.....W. R. Keenly
 Vice-President & Treasurer....W. C. Faust
 PRODUCTS: Power transformers, reactors, audio input and output transformers, iron core filters, and relay coils.

Air King Products Co., Inc.

1523-29 Sixty-third St., Brooklyn, N. Y.
 Phone: BEachview 2-6700

President.....J. P. Lieberman
 Vice-President.....H. D. Halperin
 Sales Manager.....Jules Frank
 PRODUCTS: Receiving sets, radio-phonograph combinations, television receiving sets.

Allen-Bradley Co.

136 W. Greenfield Ave., Milwaukee, Wisc.
 Phone: MITchell 5151

President.....Harry L. Bradley
 Vice-President & General Manager

F. F. Loock

PRODUCTS: Fixed and variable composition resistors.

The Alliance Manufacturing Co.

Lake Park Blvd., Alliance, Ohio

President.....W. H. Purcell
 General Manager.....Owen L. Lewis

PRODUCTS: Phonograph motors, record changer motors, recording motors, tuning motors.

American Condenser Corp.

2508 S. Michigan Ave., Chicago, Ill.
 Phone: CALumet 5903

President & General Manager

Irving Menschik

PRODUCTS: Transmitting condensers, electrolytic condensers, ignition condensers, by-pass condensers, telephone condensers.

American Microphone Co., Ltd.

1915 S. Western Ave., Los Angeles, Calif.
 Phone PA 1161

President.....P. S. Gramer
 Vice-President.....F. A. Yarbrough
 Secretary.....Z. R. Yarbrough

PRODUCTS: Microphones.

American Microphone & Telephone Co.

1220 Glendon Ave., Los Angeles, Calif.
President.....C. W. Evans
Supt., Intercommunicating Equipment
M. E. Harris
Foreman, Microphone Dept.....O. B. Carrier
PRODUCTS: Microphones, intercommunicating telephones, talk-back equipment, amplifiers.

The American Steel Package Co.

Squire Ave., Defiance, Ohio
President.....G. E. Behringer
Sales Manager.....W. F. Reiter
PRODUCTS: Variable gang tuning condensers, air trimmer condensers.

Amertype Recordgraph Corporation

333 West 52nd Street, New York 19, N. Y.
PRODUCTS: Sound Recording Instruments for Radio Stations, 2-Way Telephone Conversations Where Authorized, Radio Interception and Monitoring.

Amprex Electronic Products

79 Washington St., Brooklyn, N. Y.
Phone Cumberland 6-4430
Sales Manager.....S. Norris
BRANCH OFFICES: 1623 S. Hill St., Los Angeles, Cal.; 3218 Western Ave., Seattle, Wash.; 9 S. Clinton St., Chicago, Ill. PRODUCTS: Transmitting Tubes.

Amplifier Co. of America

398 Broadway, New York 13, N. Y.
CAnal 6-7612
General Manager.....N. M. Haynes
Chief Engineer.....A. C. Shaney
Sales Manager.....H. S. Manney
PRODUCTS: Electronic equipment, Regulated Power Supplies, Amplifiers, Transformers, Filter Networks.

Amy, Aceves & King, Inc.

11 West 42nd St., New York 18, N. Y.
Phone LOnacre 5-6622
President.....Ernest V. Amy
General Manager.....Frank King
PRODUCTS: Antenna Systems, Radio Transmitters and Receivers.

Andrea Radio Corp.

43-20 Thirty-fourth St., Long Island City, N. Y.
Phone: STillwell 4-4754
President.....F. A. D. Andrea
PRODUCTS: Receiving sets, television sets.

Ansley Radio Corp.

21-10 49th Ave., Long Island City, N. Y.
Phone IRonsides 6-2520
President.....Arthur C. Ansley
Secretary-Treasurer.....Anne Klein Ansley
Purchasing Agent.....D. Prato
PRODUCTS: Radio-Phonograph Combina-

tions, Marine Direction Finder, Govt. war work.

The Arnold Engineering Co.

147 E. Ontario St., Chicago, Ill.
Phone: WHitehall 6677
President-General Manager
Robert M. Arnold
PRODUCTS: Alnico permanent magnets and other magnetic material.

Audak Company

500 Fifth Ave., New York, N. Y.
Phone LA 4-3723
Contact.....Geo. V. Sullivan
BRANCH OFFICES: All key cities.
PRODUCTS: Microdyne Pickups, Cutting Heads, and Acoustic Instruments.

Audio Devices, Inc.

1600 Broadway, N. Y. C.
Phone CI 5-5696
President.....Hazard E. Reeves
General Manager.....Bryce Haynes
Traffic Manager.....Donald E. Ward
Research Engineer.....L. J. Frank
PRODUCTS: Instantaneous Acetate Recording Blanks, All Types of Cutting and Playback Style, Audiodisc Chipchaser and Groovoscope, Audio Devices Sound Effects Kit, and Audiodisc Recording Blanks.

The Audio-Tone Oscillator Company

237 John Street, Bridgeport 3, Connecticut
Phone: Bridgeport 3-8370 and 3-6857
President.....W. Robert Dresser
Chief Engineer.....W. Robert Dresser
Service Manager.....Robert F. Carother
Purchasing Agent.....John J. Bepko
PRODUCTS: Audio. Frequency Oscillators, Signal and Square Wave Generators, Recorders and Wattmeters, Graphic Sound Pressure Audio-Frequency and Power Line, Electronic and Photo-Electric Controls.

John F. Beasley Construction Co.

P. O. Box 1624, Muskogee, Okla.
Phone Muskogee 4762
Owner.....John F. Beasley
BRANCH OFFICE: 1303-4 Gulf States Bldg., Dallas, Tex. PRODUCTS: Steel construction (radio towers).

Automatic Radio Mfg. Co.

122 Brookline Ave., Boston, Mass.
Phone: COMmonwealth 1420
President.....David Housman
Sales Manager.....F. P. Altshul
PRODUCTS: Receiving sets.

Bank's Manufacturing Co.

1105 Lawrence Ave., Chicago, Ill.
Phone: LONg Beach 6272
Owner.....Maurice Bank
Sales Manager.....M. Hoaglund
PRODUCTS: Public address systems, amplifiers, low capacity relays and special parts.

The Bead Chain Manufacturing Co.

110 Mountain Grove St., Bridgeport, Conn.
Phone BRidgeport 4-4124

President-General Manager....W. G. Bryant
Vice-President & Sales Manager...W. G. Blatz
Assistant Treasurer.....M. H. Doolittle
Engineer.....N. R. Smith

PRODUCTS: Radio Contact Prongs, Radar Components.

Belmont Radio Corp.

5921 Dickens Ave., Chicago, Ill.

Phone: BERkshire 7000

President.....P. S. Billings
Vice-President.....H. C. Mattes
Sales Manager.....S. Freshman

PRODUCTS: Receiving sets, radio-phonograph combinations, amplifiers.

Bendix Radio (Division of Bendix Aviation Corp.)

East Joppa Rd., Towson, Md. (Gen. Offices)
Director of Sales & Engineering

W. P. Hilliard
Sales Contact.....J. W. Hammond
General Manager.....Hugh Benet

PRODUCTS: Receiving sets, transmitters, radio compasses and accessories.

Bentley, Harris Mfg. Co.

Hector & Lime Sts., Conshohocken, Pa.

President-General Manager

William H. Bentley

PRODUCTS: Varnished tubing, saturated sleeving, Fiberglas varnished tubing and sleeving.

William Brand & Co.

276 Fourth Ave., New York, N. Y.

Phone: ALgonquin 4-4929

PRODUCTS: Insulating, varnished tubing, synthetic extruded tubing, saturated sleeving, mica condenser films and fabricated parts, mica sheets, mica composites, varnished cambric and paper, etc.

Blaw-Knox Co.

Pittsburgh, Pa.

Phone St. 2700

BRANCH OFFICES: Peoples Gas Bldg., Chicago; Brown-Marx Bldg., Birmingham, Ala.; 342 Madison Ave., N. Y. C.; 1617 Pennsylvania Blvd., Phila.; Munsey Bldg., Wash., D. C. PRODUCTS: Radio Towers.

Bliley Elec. Co.

P. O. Box 1070, Erie, Pa.

Phone 26-857

President.....F. D. Bliley
Sales Manager.....G. E. Wright
Comptroller.....O. L. Horsman
Advertising Manager.....F. A. Lennherg
General Manager.....C. C. Collman

Chief Engineer.....J. M. Wolfskill

Production Manager.....W. R. Mong

PRODUCTS: Quartz Piezo-Electric Crystals and Mountings. Quartz Crystals for Transmitter and Receiver Frequency Control, for Filters, Ultrasonics, Piezo-Electric Pressure Gauges and for special optical or electrical applications.

Boonton Radio Corp.

P. O. Box 390, Boonton, N. J.

Phone Boonton 8-0795

President.....W. D. Loughlin

Sec'y-Treasurer.....N. D. Campbell

General Manager.....G. A. Downsbrough

PRODUCTS: Q-Meters, F.M. Signal Generators, Beak Frequency Generator, QX Checkers.

Browning Laboratories, Inc.

750 Main St., Winchester, Mass.

Phone WINchester 2121

President.....G. H. Browning

Vice-President & Sales Manager

R. L. Purrington

General Manager.....C. H. Day

PRODUCTS: Frequency meters, FM apparatus, capacity relays.

The Brush Development Co.

3311 Perkins Ave., Cleveland 14, Ohio

Phone: Endicott 3315

Chairman of Board.....W. R. Burwell

President.....A. L. Williams

Vice-President.....V. B. Phillips

Advertising-Personnel.....W. H. Shelton

PRODUCTS: Microphones, headphones, phonograph pickups, record cutters, magnetic tape recording equipment.

Bud Radio, Inc.

2118 E. 55th St., Cleveland, O.

Phone IIE 7166

President.....Max L. Haas

Vice President.....George Grostick

General Manager.....M. L. Haas

Treasurer.....H. A. Haas

Secretary.....M. C. Dawson

Engineer.....R. B. Applegate

Production Manager.....A. M. Crombie

PRODUCTS: Visible Condensers, Relay Racks, Panels, Chassis, Cabinets, Coils, R. F., Band Switching, Plugs, Switches, Jacks, dials, Sockets, Name Plates, Tube Shields.

William W. L. Burnett Radio Lab.

4814 Idaho St., San Diego 4, Calif.

Phone Talbot 4943

Contact.....William W. L. Burnett

PRODUCTS: Piezo-Electric Crystals, Holders, Constant Temperature Ovens, Frequency Measuring Equipment, Laboratory Equipment, Conducting of Radio Laboratory Measurements, Frequency Monitoring Service.

C. F. Cannon Co.

Main St., Springwater, N. Y.
Sales Contact.....C. F. Cannon
PRODUCTS: Headsets.

Centralab Division of Globe-Union, Inc.)

900 East Keefe Ave., Milwaukee, Wisc.
Phone: EDgewood 9200
President.....C. O. Wanvig
Vice-President.....H. E. Osmun
PRODUCTS: Variable resistors, volume and tone controls, fixed resistors, ceramic capacitors, switches, steatite.

Chicago Molded Products Corp.

1020 N. Kolmer Ave., Chicago 51, Ill.
Phone: CAPitol 1020
President.....Edward F. Bachner
Vice-President & Treasurer...John J. Bachner
Vice-President.....M. F. Bachner
PRODUCTS: Cabinets, synthetic moulded parts.

Chicago Telephone Supply Co.

1142-1228 W. Beardsley Ave., Elkhart, Ind.
President.....F. C. Best
Sales Manager.....W. A. Nicely
PRODUCTS: Volume controls, tone controls, switches, plugs, jacks, headsets, ringers, generators, remote controls, switch keys, push switches.

Chicago Transformer Corp.

3501 Addison St., Chicago, Ill.
Phone INdependence 1120
President.....W. J. Leidy
Sales Manager.....G. R. Blackburn
PRODUCTS: Transformers and reactors.

Cinch Manufacturing Corp.

2335 W. Van Buren St., Chicago, Ill.
Phone: SEElly 0733
President.....A. W. Kimbell
Vice-President.....W. G. Roby
General Manager.....J. J. Steffen
Sales Manager.....E. E. Hannigan
PRODUCTS: Tube sockets, soldering lugs, terminal strips, binding posts, connector plugs.

Clarostat Mfg. Co., Inc.

285 N. 6th St., Brooklyn, N. Y.
Phone EV 8-6770
President.....John J. Mucher
General Manager.....Victor Mucher
Treasurer.....Jacob Mucher
Secretary.....Stephen Mucher
Chief Engineer.....George Mucher
Sales Engineer.....J. Edward Trefz
BRANCH OFFICES: 540 No. Mich. Ave., Chicago. PRODUCTS: Fixed and Variable Power Resistors, Power Rheostats, Power

Resistor Decade Boxes, Wire Wound Potentiometers, "T" "L" Cism Pads, 25 and 10 Watt Attenuators, Special Resistor Products, and Composition Potentiometers.

Coil Engineering & Mfg. Co., Inc.

Roanoke, Ind.
President-General Manager W. Eugene Strait
PRODUCTS: Electrical coil windings.

Colonial Radio Corp.

254 Rano St., Buffalo, N. Y.
Phone: RIVerside 2450
President.....A. H. Gardner
PRODUCTS: Receiving sets, radio-phonograph combinations.

Communication Equipment & Engineering Co.

504 N. Parkside Ave., Chicago, Ill.
Phone: ESTEbrook 3110
President.....Robert A. Clark
PRODUCTS: Transmitters, receivers, amplifiers and test equipment.

Continental Carbon, Inc.

13900 Lorain Ave., Cleveland, Ohio
Phone: CLearwater 3962
Vice-President & Sales Manager W. M. Kohring
PRODUCTS: Carbon and wire-wound resistors, suppressors, precision resistors for meters, paper dielectric condensors, filter-noys.

Cornell-Dubilier Electric Corp.

333 Hamilton Blvd., S. Plainfield, N. J.
Phone: PLainfield 6-9000
President-General Manager...Octave Blake
Vice-President.....William Dubilier
Vice-President.....Charles H. Caine
Sales Manager.....A. Williams
Advertising & Sales Promotion Manager William G. Many
PRODUCTS: Capacitors for all radio and electronic applications, filters, capacitor test instruments.

Corning Glass Works

Corning, New York
Phone: Corning 372
President.....Glen W. Cole
Vice-President.....W. C. Decker
Sales Manager.....C. J. Phillips
Contact.....D. E. Newton
PRODUCTS: Glass envelopes for tubes used for radio receiving, broadcasting, cathode ray, television and all other electronic purposes, tubing and special sealing glasses, insulators, coil forms, resistor tubes.

Cornish Wire Co., Inc.

15 Park Row, New York, N. Y.
Phone CO 7-2525

President.....John Cook
Contact.....W. F. Osler, Jr.
PRODUCTS: Radio and Electrical Wires and Cables.

Crescent Industries, Inc.

4140 W. Belmont Ave., Chicago, Ill.
Phone: PENsacola 6300

President.....Henry H. Gefvert
General Manager.....Nels Lenberg
PRODUCTS: Speakers, tools and dies, transformer channel frames, pulleys and brackets.

The Crosley Corp.

1329 Arlington St., Cincinnati, Ohio
Phone: KIRby 6600

President.....Powel Crosley, Jr.
Vice-President & General Manager,
Manufacturing Div.....R. C. Cosgrove
PRODUCTS: Receiving sets, radio-phonograph combinations, service parts, Govt. work.

Crowe Name Plate & Mfg. Co.

3701 Ravenswood Ave., Chicago, Ill.
Phone: BITtersweet 7500

President.....E. C. Coolidge
Sales Manager.....Marvin M. Lane
PRODUCTS: Escutcheons, dials, cabinets, tuning devices, knobs, pointers, name-plates.

DeWald Radio Mfg. Corp.

440 Lafayette St., New York, N. Y.
Phone: GRamercy 7-6776

President.....David Wald
Sales Manager.....Louis N. Weiss
Engineer.....Mark Glaser
Production.....S. Weinberg
PRODUCTS: Receiving sets, radio-phonograph combinations, record-players, inter-communication systems.

Doolittle Radio Co.

7421 S. Loomis St., Chicago, Ill.

President.....E. M. Doolittle
Vice-President.....Dudley Gray
Sales Manager.....C. M. Rodman
PRODUCTS: Radio Communication equipment.

Wilbur B. Driver Co.

150 Riverside Ave., Newark, N. J.
Phone: HUmboldt 2-5550

President.....Wilbur B. Driver
Vice-President.....Robert O. Driver
Sales Manager.....Sidney A. Wood

PRODUCTS: Carbonized Nickel ribbon, nickel support wire, grid wire, filament wire, resistance wire, rod, ribbon and strip.

Dumont Electric Co.

34 Hubert St., New York, N. Y.
Phone: CANal 6-7980

President & Sales Manager...Philip Dubilier
Vice-President.....J. Dubilier
PRODUCTS: Paper, electrolytic and mica condensers.

Allen B. DuMont Labs., Inc.

2 Main Ave., Passaic, N. J.
Phone Passaic 3-1616

President.....Allen B. Du Mont
Vice-President.....Leonard F. Cramer
Secretary.....Bernard Goodwin
Treasurer.....Paul Raibourn
General Manager.....Paul Ware
BRANCH OFFICE: 515 Madison Ave., New York, N. Y. Phone: PLaza 5-9045. W. J. Swenson, Engineer.

PRODUCTS: Television Receivers, Transmitters and Studio Equipment, Cathode-Ray Tubes and Oscillographs and Material Test Instruments (Cyclograph).

DX Crystal Co.

1841 W. Carroll Ave., Chicago, Ill.
Phone: HAYmarket 7737

President.....Louis J. Patla
Sales Manager.....George Trimmings
PRODUCTS: Frequency coils, transmitting crystals.

Eastern Mike-Stand Co.

56 Christopher Ave., Brooklyn, N. Y.
Phone DICKens 2-3538

Contact.....S. Sherman
BRANCH OFFICES: 43 E. Ohio St., Chicago, Ill., W. L. Holst, Rep.; Richmond; Detroit.

PRODUCTS: Microphone Stands and Accessories. (Firm engaged in war manufacturing for the duration.)

Hugh H. Eby, Inc.

18 W. Chelten Ave., Philadelphia, Pa.
Phone: TENnessee 1800

President.....Hugh H. Eby
Vice-President.....Frank Holstrom
PRODUCTS: Insulated and metal binding posts, battery plugs, speaker plugs, chassis plugs, vibrator plugs, moulded sockets, cable connectors and couplers, capped plugs, moulded and laminated tip jacks, battery adaptor cables, cable assemblies, strain reliefs, terminal strips, tie points, metal and bakelite punchings, electric eye equipment, AC and DC relays, photocell equipment.

Eitel-McCullough, Inc.

San Bruno, Calif.
Phone San Bruno 4000

President.....W. W. Eitel
Vice-President & Treasurer...J. A. McCullough
Production Manager....George Wunderlich
BRANCH OFFICE: Salt Lake City, Utah.
Phone Salt Lake City 6-8761. L. N. Pierri,
Mgr. PRODUCTS: Transmitting Vacuum
Tubes and Condensers, Vacuum Relays and
Rectifiers.

Electrical Research Laboratories, Inc.

2020 Ridge Ave., Evanston, Ill.
Phone: University 2400

President.....E. ALSCHULER
General Manager.....O. F. Taylor
Sales Manager.....E. G. May
PRODUCTS: Receiving sets, radio-phonograph
combinations, FM receiving sets, record-
players.

The Electro Motive Mfg. Co.

South Park & John Sts., Willimantic, Conn.
Phone Willimantic 207

Executive Partner.....Philip Lauter
General Manager.....J. A. Flanzer
PRODUCTS: Carbon resistors; mica, trimmer
and padder condensers; suppressors.

Electro-Voice Mfg. Co., Inc.

1239 S. Bend Ave., So. Bend 24, Ind.
Phone S. Bend 2-1431

President.....Albert Kahn
Engineer.....L. R. Burroughs
Production Manager.....R. E. Siekman
Branch Office: 1775 Broadway, N. Y. 19, N. Y.
N. H. Lawton, Rep.

PRODUCTS: Velocity, Dynamic and Carbon
Microphones.

Electronic Products Mfg. Co.

7300 Huron River Drive, Dexter, Mich.
President.....Robert P. Wuerfel
Vice-President.....John R. Scanlan
PRODUCT: Accessories.

Emerson Radio & Phonograph Corp.

111 Eighth Ave., New York, N. Y.
Phone: CHelsea 2-1800

President.....Benjamin Abrams
Vice-President & Sales Manager
Charles Robbins
Secretary-Treasurer.....Max Abrams
Vice-President, Production and
Purchasing.....S. W. Gross
Vice-President Engineer.....D. D. Israel
Controller.....M. E. Ornitz

PRODUCTS: Radio electronic devices for
military use, receiving sets, radio-phonograph
combinations, television sets, FM receiving
sets, record-players, tubes, parts.

Enca Radio Laboratories Inc.

Hempstead, Long Island
Phone: Hempstead 6985-4674

PRODUCTS: Receivers, Transmitters, Radio
Airport Traffic Control Equipment, Radio
Frequency Standards, Radio Communications
Equipment, Radio Test Equipment.

Epsy Manufacturing Co., Inc.

305 East 63rd St., New York 21, N. Y.
Phone REgent 7-3090

President.....Harold Shevers
General Manager.....Nathan Pinsley
PRODUCTS: Receiving sets, radio-phonograph
combinations, FM receiving sets, record-
players, television sets.

Erie Resistor Corp.

644 West 12th St., Erie, Pa.

President.....G. Richard Fryling
Vice-President & Sales Manager

W. H. Fryling
PRODUCTS: Carbon resistors; ceramic,
silver mica, ceramic trimmer condensers.

Evanston Sound Proof Door

1127 Hinman Ave., Evanston, Ill.
Phone University 2758

Manager.....W. W. Lloyd
PRODUCTS: Sound Proof Doors.

Essex Wire Corp.

14310 Woodward Ave., Detroit, Mich.
Phone: TOWnsend 8-2994

President.....Addison E. Holton
Sales Manager.....John G. Seals
PRODUCTS: Copper wire products, relays,
coils.

Fairchild Aviation Corp.

475 10th Ave., N. Y. 18, N. Y.
Phone LONGacre 3-1255

Manager Sound Equipment Division,
C. V. Kettering
PRODUCTS: Sound Recorders, Transcription
Turntables, Amplifiers, Equalizers,
Pickups, Acetate Discs, Recording Styli.
*(Firm has reported that it is engaged in war
manufacturing for the duration. Repair De-
partment is maintained.)*

Farnsworth Television & Radio Corporation

372 East Pontiac St., Fort Wayne 1, Ind.
Phone Anthony 5301

President.....E. A. Nicholas
Vice-President (Sales).....E. H. Vogel
Vice-President (Engineering)
B. Ray Cummings
Vice-President & Treasurer...J. P. Rogers
Manager, Purchasing Department
E. J. Hendrickson
Sales Manager, Capehart Division
I. C. Hunter

Manager, Advertising and Sales
 Promotion.....J. S. Garceau
PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, television receiving sets, television transmitters, studio equipment.

John E. Fast & Co.

3123 N. Crawford Ave., Chicago 41, Ill.
 Phone: PENscola 7160
 President.....Louis Kopinski
 Vice President and Chief Engineer,
 William S. Franklin
 Sales Manager.....P. G. McConnell
PRODUCTS: Fixed electrical capacitors.

Federal Recorder Co., Inc.

630 S. Wabash Ave., Chicago, Ill.
 Phone Har. 8330
 General Manager.....Ralph Rubenstein
 Engineer.....Earl Kent
BRANCH OFFICES: 251 Fourth Ave., New York, N. Y.; 150 Marietta St. N. W., Atlanta, Ga.; 569 Mission St., San Francisco, Calif. **PRODUCTS:** 12 and 16" Recording Discs, Cutter Heads, Recording Amplifiers, Home Recorders, Cutting and Playback Needles, Steel, Glass and Paper Base Recording Blanks.

Federal Telephone and Radio Corp.

591 Broad St., Newark, N. J.
 Manager.....T. M. Douglas
PRODUCTS: Broadcasting and point-to-point equipment; land, marine and air sets; vacuum tubes and crystals.

Ferranti Electric, Inc.

30 Rockefeller Plaza, New York, N. Y.
 Phone C1rcle 7-0912
 General Manager.....W. R. Spittal
 Production Engineer.....C. Cutney
PRODUCTS: Transformers; indicators; broadcasting equipment.

Finch Telecommunications, Inc.

4th and Virginia Sts., Passaic, N. J.
 Phone PA 2-3440
 President.....Frederic C. Scofield
 Vice President.....Frank R. Brick, Jr.
 Treasurer.....James L. Bradford
PRODUCTS: Special radio equipment for governmental usage only; facsimile for broadcasting; radio applications; telepicture equipment.

Freed Radio Corp.

200 Hudson St., New York 13, N. Y.
 Phone: WALKer 5-8765
 President.....Max Adelberg
 Vice-President & General Manager
 Arthur Freed
PRODUCTS: Freed-Eisenmann receiving sets, radio-phonograph combinations, FM re-

ceiving sets, television receiving sets, Gov't work.

Freeland & Olschner Products, Inc.

611 Baronne St., New Orleans 13, La.
 Phone Raymond 4756
 President.....W. T. Freeland
 Vice-President.....C. E. Olschner
 Treasurer.....J. H. Dallmann
PRODUCTS: Repair of large transmitting tubes.

Billings S. Fuess

2-4 Lackawana Place, South Orange, N. J.
 Proprietor.....Billings S. Fuess
PRODUCTS: Loud speaker cones, spiders, moulded and formed products.

Galvin Manufacturing Corp.

4545 Augusta Blvd., Chicago 51, Ill.
 Phone: SPalding 6500
 President.....Paul V. Galvin
 Vice-President.....J. E. Galvin
 Vice-President.....Frank O'Brien
PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, record-players, AM and FM 2-way police radio communication systems.

Garod Radio Corp.

70 Washington St., Brooklyn, N. Y.
 Phone: MAin 4-6044
 President.....Max W. Weintraub
 Sales Manager.....Louis Silver
 Chief Engineer.....B. S. Trott
PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, electronic equipment.

Gates Radio & Supply Co.

Quincy, Ill.
 Phone 522
 General Manager.....P. S. Gates
 Chief Engineer.....Fred Grimwood
PRODUCTS: All types of radio transmitting equipment and allied apparatus.

General Electric

Electronics Dept.
 Phone: SCHenectady 4-2211
 1 River Road, Schenectady, N. Y.
 President.....G. Swope
 Vice-President.....W. R. G. Baker
 General Sales Manager.....A. A. Brandt
 Advertising Manager.....H. J. Deines
 Receiver Division
 1285 Boston Ave., Bridgeport, Conn.
 Manager, Receiver Div.....I. J. Kaar
 Designing Engineer.....W. M. Angus
 Replacement Tube Sales...H. J. Mandernach
 Manager, Tube Div.....G. W. Nevin
 Manager, Transmitter Div.....C. A. Priest

Advertising and Sales Promotion

R. E. Burrows

BRANCH OFFICES: (Eastern) 570 Lexington Ave., New York, N. Y. D. W. May; (Central) 840 South Canal St., Chicago, Ill. G. F. Peterson; (Western) 235 Montgomery St., San Francisco, Calif., W. M. Boland. PRODUCTS: Electric and battery receiving sets; radio and FM receivers; replacement electronic tubes.

Electronic Tube and Transmitter Division
1 River Road, Schenectady, N. Y.

Engineer (Electronic tubes).....O. W. Pike
Sales Manager (Industrial tubes).....H. A. Jones
Sales Manager (Transmitters and Transmitting tubes).....G. W. Henyan
Transmitter Tube Sales.....E. N. Fritschel
U. S. Government Sales.....V. M. Lucas
Television and Transmitter Sales.....W. R. David
Police and Emergency Radio Sales

D. L. Chesnut

Advertising and Sales Promotion. J.G.Porter

PRODUCTS: Complete amplitude modulation, frequency modulation and television broadcasting equipment including transmitters, S-T relay transmitters, S-T relay receivers, antennas, FM Monitors and high-fidelity monitoring loudspeakers, studio and control room equipment and oscilloscopes. Transmitting tubes, quartz crystals for every purpose, square-wave generators and measuring apparatus.

The General Industries Co.

Olive & Taylor Sts., Elyria, Ohio
Phone: 2235

President & Gen. Man.....A. W. Fritzsche
Treasurer.....C. F. Russert

PRODUCTS: Electric phonograph motors, record changers and recorders.

General Instrument Corp.

829 Newark Ave., Elizabeth 3, N. J.
Phone: ELizabeth 3-4000

PresidentA. Blumenkrantz
Vice-President & General Manager

Richard E. Laux

Vice-President & Sales Manager
Don J. Phelps

Purchasing.....C. B. L. Townley
Sales Manager.....G. P. Marron
Chief Engineer.....H. M. Detrick

PRODUCTS: Variable condensers, record changers, tuning mechanisms.

General Magnetic Corp.

2126 E. Fort St., Detroit, Mich.
Phone: FItzroy 5760

President.....Charles M. Hofman
Sales Manager.....O. H. Hofman

PRODUCTS: Magnets.

General Radio Co.

30 State St., Cambridge, Mass.
Phone TRObridge 4400

President.....Melville Eastham
Vice-President.....E. H. Locke

Treasurer.....H. B. Richmond
Purchasing.....W. H. Sherwood

BRANCH OFFICES: 90 West St., N. Y. C.; 920 So. Michigan Ave., Chicago, Ill.; 1000 N. Seward St., Los Angeles, Cal.; PRODUCTS: Broadcast Station Frequency and Modulation Monitors, Volume Controls, Test Equipment, Sound Measuring and Analyzing Equipment.

Gits Molding Corp.

4600 W. Huron St., Chicago, Ill.
Phone: MANsfield 4146

President.....Joseph A. Gits
Executive Vice-President.....Jules P. Gits
Vice-President & Sales Manager.....C. N. Cahill
Purchasing.....J. A. Gits, Jr.

PRODUCTS: Knobs, push buttons, cutcheons, concentric cable, drum dials, pointers, remote control cases, housings insulators and needle cups, coaxial cable, insulators.

Edwin I. Guthman & Co.

15 S. Throop St., Chicago, Ill.
Phone: CHEsapeake 1600

President.....Edwin I. Guthman
Sales Manager.....B. J. Funk

PRODUCTS: R.F. and I.F. coils, trimmer condensers, textile-covered wire, zinc coil shields, coil winding machinery, tools and dies, electroplating.

The Hallicrafters Co.

2611 Indiana Ave., Chicago, Ill.
Phone: CALumet 1600

Partner.....W. J. Halligan, Sr.
Partner.....R. W. Durst, Jr.

PRODUCTS: FM receiving sets, transmitters.

Hamilton Radio Corp.

510 Sixth Ave., New York, N. Y.
Phone: GRamercy 7-6211

President.....A. A. Juviler
Vice-President.....P. L. Schoenen

PRODUCTS: Receiving sets, radio-phonograph combinations, record players.

The Hammarlund Mfg. Co., Inc.

460 West 34th St., New York, N. Y.
Phone LONgacre 5-1300

President.....Lloyd A. Hammarlund
V-P & Treasurer.....Joseph Lush
V-P & Asst. Treasurer.....H. B. Macartney
Secretary-Comptroller.....E. A. Wittmer

PRODUCTS: Variable air capacitors, radio receiving sets and transmitters.

Hartenstine Zane Co., Inc.

225 Broadway, New York, N. Y.
Phone BA 7-8390

Contact.....Chas. J. Hartenstine
BRANCH OFFICE: 571 Springdale Ave., East Orange, N. J. PRODUCTS: Antennae

Installation including all field work for foundations, erection, painting, lighting, and

servicing radio towers. Installing ground systems and coaxial cable.

Harvey-Wells Communications, Inc.

North Street, Southbridge, Mass.
Phone Southbridge 1940

President & Treasurer.....John M. Wells
Vice-President & Chief Eng....C. A. Harvey
Vice-President & General Manager

Richard A. Mahler

PRODUCTS: Radio transmitting and receiving equipment; rectifier and power supply equipment.

Hawley Products Co.

333 North 6th St., St. Charles, Ill.
Phone: COLumbus 0248

President.....J. B. Hawley
Vice-President & Sales Manager

A. P. Akerlund

PRODUCTS: Speaker diaphragms and spiders, moulded fiber specialties in contour.

Hoffman Radio Corp.

3430 So. Hill St., Los Angeles 7, Calif.
Phone: PRospect 3446

President.....H. L. Hoffman
Vice-President Enrg.....W. S. Harmon
General Manager.....R. J. McNeely
Purchasing Agent.....P. L. Fleming
Expediter.....S. G. Langher
Plant Superintendent.....S. J. Thomas
Secretary.....R. A. Yarcho
Director.....W. D. Douglas
Director.....G. G. Davidge

PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, record-players, variable condensers. (Firm engaged in war manufacturing for the duration.)

Hollister. Crystal Co.

1617 Pearl St., Boulder, Colo.
Phone BOulder 1720

Contact.....Herb Hollister
Production Manager.....Ted Heithecker

PRODUCTS: Quartz Crystals.

Howard Radio Co.

1735 Belmont Ave., Chicago, Ill.
Phone: BITtersweet 4433

President.....Joseph F. Riley
Sales Manager.....J. M. Muniz

PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets.

Hytron Corp.

76 Lafayette St., Salem, Mass.

President.....L. H. Coffin

PRODUCTS: Receiving tubes, transmitting tubes, resistance tubes, special purpose tubes.

The Indiana Steel Products Co.

6 N. Michigan Ave., Chicago, Ill.
Phone: FRAnklin 1114

President.....A. D. Plamondun, Jr.
PRODUCT: Magnets.

International Detrola Corporation

1501 Beard Avenue, Detroit 9, Michigan
Phone: Vinewood 1-8100

President.....C. Russell Feldmann
Factory Works Manager.....Hollis Paul
Vice-Pres. & Chief Engineer.R. M. Daugherty
Treasurer & Secretary.....R. J. Nixon
Service Manager.....K. L. Granger
Purchasing Agent.....R. H. Wann

PRODUCTS: Electric Sets: Compact, Table, Portable, Consoles; Battery Sets: Automobile, Portable, Portable AC-DC, Table, Consoles; Combinations: Radio-Phonograph, Radio-Phonograph-Recorder; Frequency-Modulation Sets: Console, also Aviation Sets and Record-Players.

Insuline Corp. of America

3602-10 35th Ave., Long Island City, N. Y.
Phone ASToria 8-3738

President.....S. J. Spector
Sales Manager.....Edward J. Cohen
Vice President.....A. G. Heller
Production Manager.....I. W. Romm

PRODUCTS: Radio Receiving-Transmitting Parts and Accessories, Stamping Metal Goods, Radio Chassis, Metal Cabinets, Plugs, Jacks, Sockets, Screw Machine Parts, Test Tools, Test Leads.

Irrington Varnish & Insulator Co.

6 Argyle Terrace, Irvington, N. J.
Phone: ESsex 3-4200

President.....Arthur E. Jones
Vice-President.....F. A. Shoemaker
Sales Manager.....J. J. Connors

PRODUCTS: Insulating material, tubing.

Isolantite Inc.

343 Cortlandt St., Belleville, N. J.
Phone Belleville 2-1316

Vice President & General Manager,

K. D. Hamilton

Production Manager.....H. M. Dickman
Sales Manager (Steatite Div.)..F. A. Domber
Sales Manager (Radio Specialties Div.)

H. L. Quick

SALES OFFICE: 233 Broadway, New York, N. Y. Phone Rector 2-9274. Contact, E. A. Domber. PRODUCTS: High Frequency Radio Insulators, Coaxial Transmission Line and Accessory Equipment, Special Antenna Equipment.

Jefferson Electric Co.

25th Ave. & Madison St., Bellwood, Ill.
Phone: MANsfield 7161

President.....J. C. Daley
Vice-President.....Alfred E. Tregenza
Vice-President & General Manager

J. M. Bennan

PRODUCTS: Power transformers, chokes and audio input and output transformers, television deflecting yokes, horizontal and vertical scanning transformers, centering and focusing coils.

Jensen Radio Manufacturing Co.

6601 S. Laramie Ave., Chicago 38, Ill.
Phone: PORtsmouth 7600

President.....W. E. Maxon
Vice-President & Sales Manager..T. A. White
Vice-President & Chief Eng...H. S. Knowles

PRODUCTS: Loudspeakers, public address equipment.

J. F. D. Manufacturing Co.

4111 Fort Hamilton Parkway, Brooklyn, N. Y.
Phone: WINDsor 8-3100

Owner.....Julius Finkel
Sales Manager.....Walter Bergman

PRODUCTS: Antennas, replacement ballast tubes, dial belts, battery plugs, battery adapters.

Johns-Manville Corp.

22 East 40th St., New York, N. Y.
Phone LEXington 2-7600

PRODUCTS: Sound-control; Materials and Acoustical-Engineering Service.

E. F. Johnson Co.

Waseca, Minn.
Phone 990

General Manager.....E. F. Johnson
Controller.....F. C. Mann
Sales Manager.....C. W. Stevenson
Chief Engineer.....L. W. Olander
Purchasing Agent.....M. L. Johnson

BRANCH OFFICE: 259 W. 14th St., N. Y. C. PRODUCTS: Phasing Equipment, Antenna Tuning Units, Inductors, Variable Condensers, Tube Sockets, Insulators, Plugs and Jacks, Copperweld Wire, Coupling Equipment, Insulators, Concentric Line, Special Antennas, & Special Order Equipment.

Kellogg Switchboard & Supply Co.

6650 S. Cicero Ave., Chicago, Ill.
Phone PORtsmouth 6900

President.....Maurice K. McGrath
Sales Manager.....Albert Parlett, Jr.

PRODUCTS: Oil and wax condensers, communications equipment.

Ken-Rad Tube & Lamp Corp.

Owensboro, Ky.

President.....Roy Burlew
Sales Manager.....R. W. Metzner

PRODUCTS: Receiving, transmitting, cathode ray and special purpose tubes.

Kenyon Transformer Co., Inc.

840 Barry St., New York 59, N. Y.
Phone DAYton 9-0100

President.....Franklin P. Kenyon
Vice-President & Chief Engineer

Richard B. Shimer

BRANCH OFFICES: 21 E. Van Buren St., Chicago, Ill.; 6406 Sunset Blvd., Hollywood, Calif., F. Craig Palen, Mgr.; 262 Grayson Pl., Teaneck, N. J.

PRODUCTS: Transformers, Reactors, Filters.

Kester Solder Co.

4201 Wrightwood Ave., Chicago, Ill.
Phone: BELmont 1601

President.....F. C. Engelhart
General Sales Manager-Research Engineer

P. C. Ripley

PRODUCTS: Solders.

"King Brand" Music Papers

1595 Broadway, New York, N. Y.
Phone CI 6-0488

Contact....."Wes" Cowen
BRANCH OFFICE: 3928 Crenshaw Blvd., Los Angeles, Calif. PRODUCTS: Music-

Manuscript Paper, Score Paper, Ink, Fountain Pens, Carrying Cases and Covers, Batons, Duplicating Papers, Music Tapes.

King Laboratories, Inc.

205 Oneida St., Syracuse 4, N. Y.
Phone: 2-5209

President.....Aden J. King
Vice-President.....F. M. Michaelian

General Manager.....W. R. MacLeod
PRODUCTS: Tube parts, alloys and chemicals.

Kluge Radio Co.

1913 Montrose St., Los Angeles 26, Calif.
Phone Exposition 1742

Owner.....Myron E. Kluge
PRODUCTS: Radio and electronic equip-

ment. (EDITOR'S NOTE: This Firm is closed for the duration).

Lapp Insulator Co., Inc.

Le Roy, N. Y.
Phone Le Roy 385

President.....J. S. Lapp
Vice-President.....W. F. Young

Treasurer.....G. W. Lapp
Sales Manager.....Brent Mills

PRODUCTS: Tower footing and guy insulators; standoff, entrance and antenna insulators; radio frequency high voltage condensers.

Lehigh Structural Steel Co.

17 Battery Place, New York, N. Y.
Phone WHItchall 4-1424

Contact.....J. F. Neary
BRANCH OFFICES: In all principal cities.

PRODUCTS: Vertical Radiators, Antenna Towers and Masts.

Lektra Laboratories, Inc.

30 E. 10th Street, New York 3, N. Y.

Phone: ALgonquin 4-0230

President.....Milton W. Blatner

Vice-President.....B. Eisenberg

Treasurer.....Julius Kriser

PRODUCTS: Dynamic microphones; Electronic equipment; comm. systems.

Lenz Electric Manufacturing Co.

1751 N. Western Ave., Chicago, Ill.

Phone: ARMitage 4454

President.....J. Mayo Lenz

Vice-President.....P. C. Lenz

Chief Engineer & Sales Manager

R. G. Zender

PRODUCTS: Wires, cords and cables.

Lifetime Sound Equip. Co.

1101 Adams St., Toledo, O.

Phone Main 5643

General Manager.....Wm. H. Manoff

Factory Manager.....M. H. Manoff

Production Engineer.....F. L. Church

PRODUCTS: Microphones; Carbon, Dynamic, Velocity; Trumpets, Reflex Trumpets, P. M. Trumpet Units, Deflector Baffles.

John E. Lingo and Son, Inc.

28th St. and Buren Ave., Camden, N. J.

Phone Camden 0487

President.....J. E. Lingo

Chief Engineer.....Wesley Thompson

Production.....George Burrows

PRODUCTS: Vertical Radiators; Guyed Tubular Steel and Portable Dural; Turnstile and UHF Antennae, Tubular Steel Supporting Poles (for UHF Antennae).

Miles Reproducer Co., Inc.

812 Broadway, New York, N. Y.

Phone GRamercy 5-9466

President.....Dr. S. R. Byrnes

Contact.....J. M. Kuhlik

PRODUCTS: Sound-On Film Recorders, Sound-On Film Reproducers, Telephone Recording Machines, Dictated Recording Machines, Dictating Transcribers, Throat Microphones.

Mirror Record Corp.

58 W. 25th St., New York, N. Y.

Phone CH 3-2222

Contact.....P. K. Trautwein

PRODUCTS: All Recording Accessories.

The Magnavox Co.

2131 Bueter Rd., Fort Wayne, Ind.

President.....Richard A. O'Connor

Sales Manager.....Stanley S. Sondles

PRODUCTS: Speakers, capacitors.

Majestic Radio & Television Corporation

2600 West 50th Street, Chicago 32, Illinois

Phone: Hemlock 6800

President.....E. A. Tracey

Vice-President.....J. G. Casagrande

Vice-President.....E. V. Otis

Vice-President in Charge of Engineering,
D. E. Foster

Vice-President in Charge of Production,
A. W. Freese

Director of Sales.....Parker H. Ericksen

Chief Engineer.....D. E. Foster

Purchasing Agent.....J. J. Neri

Export Manager.....C. V. del Mercado

PRODUCTS: Radio Receiving and Transmitting Sets.

P. R. Mallory & Co., Inc.

3029 E. Washington St., Indianapolis, Ind.

Phone: MARKET 5511

President.....P. R. Mallory

Vice-President & General Manager...J. E. Cain

Vice-President, Sales.....Ray F. Sparrow

Sales Manager.....Howard W. Sams

Adv. Mgr.....W. T. Craigh

PRODUCTS: Condensers, switches, volume controls, resistors, grid bias cells, jacks, connector plugs, rectifiers, battery chargers, electrical contacts.

John Meck Industries

Liberty St., Plymouth, Ind.

Contact.....John S. Meck

PRODUCTS: Sound equipment, electronic devices.

Micamold Radio Corp.

1087 Flushing Ave., Brooklyn, N. Y.

Phone: STagg 2-9820

President.....A. P. Hirsch

Sales Manager.....E. B. Tyler

General Manager.....F. A. Whitin

Purchasing.....J. Roth

PRODUCTS: Mica, paper, and electrolytic condensers; resistors; ballast tubes; television, coil and transmitting condensers.

James Millen Manufacturing Co., Inc.

150 Exchange Street

Malden 48, Massachusetts

Phone: Malden 4108 and 4109

President.....James Millen

Vice-President.....Robert S. Millen

Sales Manager.....James Millen

Chief Engineer.....R. Wade Caywood

Credit Manager.....Frances Bearse

Purchasing Agent.....Robert Harpell

Export Manager.....C. Lohman Janik

PRODUCTS: Radio Transmitters, Receivers and All Component Parts.

The Muter Co.

1255 S. Michigan Ave., Chicago, Ill.
Phone: CALumet 4000

President.....Leslie F. Muter
Vice-President.....J. R. Scanlan
Production Engineer.....C. M. Kramer
PRODUCTS: Resistors, switches, ceramic
condensers, ballasts, coils, spira shields, an-
tenna loops, I.F. and R.F. transformers.

National Carbon Co. Inc.

30 East 42nd St., New York 17, N. Y.
Phone: MURray Hill 2-6800

President.....P. P. Huffard
Vice-President.....J. M. Spangler
General Sales Manager.....C. O. Kleinsmith
Chief Engineer.....L. M. Temple
PRODUCTS: Batteries.

National Co., Inc.

61 Sherman St., Malden, Mass.
Phone: MALden 6350

President.....William A. Ready
General Manager.....J. J. Freeley
PRODUCTS: Receiving sets, FM receiving
sets, transmitters, transmitting condensers,
dials, coils, chokes, receiving condensers,
transmitting parts, R.F. and I.F. transformers,
sockets, couplings, receiving parts.

National Fabricated Products, Inc.

2650 Belden Ave., Chicago, Ill.
Phone: ARmitage 3426

President.....R. L. Freeman
General Manager.....Wm. Charney
PRODUCTS: Radio tube sockets, terminal
assemblies, telephone and microphone jacks,
coaxial plugs and jacks, battery sockets and
receptacles.

National Union Radio Corp.

15 Washington St., Newark, N. J.
Phone: HUMBoldt 2-5050

President.....S. W. Muldowny
Sales Manager.....H. A. Hutchins
PRODUCTS: Receiving tubes, cathode ray
tubes, transmitting tubes, photo-cells, con-
densers, dry batteries, volume controls.

Noblitt-Sparks Industries, Inc.

13th St. & Big Four Railroad, Columbus, Ind.
President.....O. G. Noblitt
Sales Manager.....G. W. Thompson
PRODUCTS: Receiving sets, radio-phono-
graph combinations.

Northern Electric Co., Ltd.

1261 Shearer St., Montreal, P. Q., Canada
Phone Wilbank 3131

President.....P. F. Sisto
PRODUCTS: Transmitters, point-to-point
equipment, music reproducing equipment,
microphones, portable amplifiers, public ad-
dress systems, aircraft radio, vacuum tubes,
electric organs.

Oak Manufacturing Co.

1260 Clybourn Ave., Chicago, Ill.
Phone: MOHawk 222

President.....E. F. Bessey
Sales Manager.....R. A. O'Reilly
PRODUCTS: Rotor relays, communication
equipment.

The Ohio Carbon Co.

12508 Berea Rd., Cleveland 11, Ohio
Phone: Boulevard 2700

President.....Allen K. Moulton
Sales Manager.....I. W. Brandel
Chief Engineer.....A. A. Stark
PRODUCTS: Carbon resistors, wire-wound
resistors, paper resistors, radar and electronic
applications.

Operadio Manufacturing Co.

St. Charles, Ill.
Phone: MANsfield 6446

President.....J. M. Stone
Vice-President & Gen. Manager...G. R. Haase
PRODUCTS: Communication equipment,
loud speakers, amplifiers, public address
systems.

Oxford-Tartak Radio Corp.

3911 S. Michigan Ave., Chicago, Ill.
Phone: ATLantic 6161

President & Sales Manager...Paul H. Tartak
PRODUCTS: Loud speakers, output and
line transformers.

Pacific Sound Equipment Co., Inc.

1534 Cahuenga Blvd., Los Angeles 28, Calif.
Phone Hempstead 5141

President.....Robert G. Metzner
Secretary-Treasurer.....William L. Maas
BRANCH OFFICES: 1121 Vermont Ave.,
NW, Washington, D. C. Phone NAtional
1682. William H. Holmes; 1900 Euclid Ave.,
Cleveland, Ohio. Clarence Moses.
PRODUCTS: Transcription and record
playback equipment, acoustic phonographs,
amplifiers, public address systems.

Packard-Bell Co.

1115 S. Hope St., Los Angeles, Calif.
Phone: PRospect 3404

President.....Herbert A. Bell
General Manager.....H. D. Thomas, Jr.
Sales Manager.....Joe Spain
PRODUCTS: Receiving sets, radio-phono-
graph combinations, record-players.

Parisian Novelty Co.

3510 S. Western Ave., Chicago, Ill.
Phone: VIRginia 1212

President.....H. J. Joseph
Vice-President & General Mgr....L. E. Kahn
PRODUCTS: Dials, insulators, crystals, etc.

Par-Metal Products Corp.

3262-49th St., Long Island City, N. Y.
Phone ASToria 8-8905

Contact.....A. A. Parmet

• • • **EQUIPMENT MANUFACTURERS** • • •

PRODUCTS: Racks—relay and cabinet type—Panels, Metal Equipment.

Philco Corp.

Tioga & C Sts., Philadelphia, Pa.

Phone: NEBraska 5100

Chairman of the Board.....Larry E. Gubb
President.....James T. Buckley

Vice-President in Charge of Operations,
John Ballantyne
Vice-President in Charge of Sales,

Thomas A. Kennally
Vice-President in Charge of Engineering,

David Grimes
Vice-President in Charge of Service,

R. F. Herr

PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, tubes, accessories, batteries.

Philharmonic Radio Corp.

216 William St., New York 7, N. Y.

Phone: REctor 2-0863

President.....Avery Fisher
Vice-President.....Victor Brociner

Secretary-Treasurer.....S. Bogart

PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, electronic equipment and military radio.

Pilot Radio Corp.

37-06 Thirty-sixth St., Long Island City, N. Y.

Phone: STillwell 4-5455

President-General Manager..Isidor Goldberg

PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, television receiving sets.

Poinsettia, Inc.

112 Cedar Ave., Pitman, N. J.

Phone Pitman 511

President.....E. Poinsett
Vice President.....W. Warner

Secretary.....F. L. Pedrick
BRANCH OFFICES: 4447 W. Irving Park Rd., Chicago, Ill.;

PRODUCTS: Phonograph Record Manufacturing Equipment.

**Premax Products Division
(Chisholm-Ryder Co.)**

College & Highland Aves., Niagara Falls, N. Y.
Phone: N.F. 9186

President.....S. M. Ryder
Manager.....G. O. Benson

PRODUCTS: Antenna equipment, metal stampings.

Premier Crystal Laboratories, Inc.

55 Park Row, New York, N. Y.

Phone: BEekman 3-2824

PRODUCTS: Apparatus laboratory, calibrating equipment, chambers test and cali-

bration, piezoelectric crystals, quartz crystals, tourmaline crystals, crystal oscillator ovens, reactance meters, audio-frequency equipment, capacitance meters, communication-measuring instruments, dial lights, radio frequency meters, testing machines, thermostats.

Press Wireless, Inc.

435 N. Michigan Ave., Chicago 11, Ill.

Phone: SUPERior 8688

President & Gen. Manager...Joseph Pierson
Treasurer.....F. J. Kerrigan

BRANCH OFFICES: 1475 Bway., New York, N. Y. D. K. deNeuf, R. H. dePasquale.

Drawer "T" Hicksville, L. I, P. D. Zurian.

PRODUCTS: Transmitters, receiving sets, diversity equipment, radiophoto and facsimile equipment, direction finders.

Presto Recording Corp.

242 W. 55th St., New York, N. Y.

Phone CI 5-7760

President.....George J. Saliba
Secretary.....Morris M. Gruber

General Sales Manager....Ralph C. Powell

PRODUCTS: Sound Recording Equipment, Discs and Needles, Transcription Turntables, Recording Amplifiers and Accessory Recording Equipment.

B. A. Proctor Co., Inc.

2 W. 45th Street, New York, N. Y.

Phone MU 6-7542

President & Treasurer....Barton A. Proctor
Vice President & Secretary,

Ferd. C. W. Thiede

PRODUCTS: Crystal Pickups and Recording Heads, Transcription Turntables and Recording Machines.

Quality Hardware & Machine Co.

5894 N. Ravenswood Ave., Chicago, Ill.

Phone: LONGbeach 8200

President.....H. A. Laystrom
Sales Manager.....A. A. Wisersky

PRODUCTS: Tools and dies.

Quam-Nichols Co.

33rd Place & Cottage Grove Ave.

Chicago 19, Ill.

Phone: CALumet 7313

President.....James P. Quam
Vice-President.....H. A. Staniland

Purchasing.....F. G. Gracyk

PRODUCTS: Speakers, microphones, antennae, signal corps equipment.

Radio Condenser Co.

Davis & Copewood Sts., Camden, N. J.

President.....Stanley S. Cramer
Sales Manager.....William J. May

PRODUCTS: Variable air condensers.

Radio Electronics Laboratory, Inc.

120 Freeman St., Brooklyn, N. Y.

President.....Lionel R. Bausman

PRODUCTS: Cathode ray tubes.

Radio Engineering Labs., Inc.

35-54—36th St., Long Island City, N. Y.

Phone RAVenswood 8-2340

President.....Charles M. Srebroff

Treasurer.....Frank A. Gunther

Secretary.....Marion Wade

BRANCH OFFICES: 5334 Hollywood Blvd., Hollywood, Calif. Norman B. Neeley; 2040 Grand River Ave., Detroit, Mich., M. N. Duffy; 310 Fifteenth St., Denver, Colo., Mulnix Sound System. PRODUCTS: Frequency Modulation—Broadcast Transmitters, Receiver and Loud Speaker Units, Portable Transmitters and Receivers for Speech frequencies, Hi-Fidelity Broadcast Relay Transmitters, Portable Transmitters for broadcast pickup service, Transmitters and Receivers for fixed stations on speech frequencies and Speech Equipment; Military and Municipal Transmitters and Receivers.

Radio Speakers, Inc.

221 E. Cullerton St., Chicago 16, Ill.

Phone: VICTory 1613

President-Sales Manager.....H. C. Forster

Vice-President.....E. W. Strait

Treasurer.....F. Johnson

Secretary.....B. Engel

PRODUCTS: Loudspeakers, recorders, headsets and microphones for Govt.

A. E. Ravenscroft, Inc.

2320 S. Hill St., Los Angeles 7, Calif.

Phone Prospect 1317

Partner.....A. R. Magner

Partner.....A. M. Ravenscroft

General Manager.....J. G. Magner

PRODUCTS: Distributor of radio and electronic parts, tubes, etc.

Raytheon Production Corp.

55 Chapel St., Newton, Mass.

Phone: BIGelow 7500

President.....L. K. Marshall

Vice President.....David T. Schultz

Secretary.....Havens Grant

Chief Engineer.....Paul T. Weeks

Head of War Service Department and Plant

Manager.....F. E. Anderson

Purchasing Agent.....Valmore Grammont

PRODUCTS: Tubes.

RCA Victor Division

Camden, New Jersey

Phone Camden 8000

Chairman, Executive Committee,

Frank M. Folsom

President.....Robt. Shannon

Commercial V. P.....(Open at press-time)

Financial V. P. & Secy.....F. H. Corregan

V. P. in charge of Engineering Products, RCA

Photophone Div.....F. R. Deakins

V. P. & Adv. Director.....T. F. Joyce

Adv. Mgr.....D. J. Finn

Dir. of Adv.....Charles B. Brown

V. P. in charge of Manufacturing

J. M. Smith

V. P. & Chief Engineer...Dr. Charles Jolliffe

V. P. of International Division...J. D. Cook

BRANCH OFFICES: 530 Citizens & Southern Bank Bldg., Atlanta, Ga.—589 E. Illinois St., Chicago, Ill.—411 Fifth Ave., New York, N. Y.—M. F. Blakslee, Manager; 170 Ninth St., San Francisco, Cal. PRODUCTS: Broadcast Station Transmitters, Microphones and Associated Equipment, Electric and Radio Broadcast Transcriptions, Instantaneous Disc Recording Equipment, Facsimile Equipment, Television Transmitters, F. M. Transmitters.

Readrite Meter Works

College Ave., Bluffton, Ohio

President.....R. L. Triplett

Sales Manager.....N. A. Triplett

PRODUCTS: Testing equipment, electrical measuring nieters.

Rea Magnet Wire Co., Inc.

East Pontiac St., Ft. Wayne 4, Ind.

Phone: A.5202

President.....Victor F. Rea

Sales Engineer.....J. P. Grable

PRODUCTS: Round magnet wire.

Remler Co., Ltd.

2101 Bryant St., San Francisco, Calif.

Phone: VAlencia 3435

President.....E. G. Danielson

Sales Manager.....H. L. Parker

PRODUCTS: Receiving sets, radio-phonograph combinations, inter-communication and sound equipment.

The Rola Co.

2530 Superior Ave., Cleveland, Ohio

Phone: PROspect 4242

President.....B. A. Engholm

Sales Manager.....Lee Golder

PRODUCTS: Loudspeakers, electro-dynamic and permanent magnet transformers.

The Ross Manufacturing Co.

2241 Indiana Ave., Chicago, Ill.
Phone: CALumet 1060

President.....K. B. Ross
PurchasingV. Mitchell
PRODUCTS: Coils.

The Chas. E. Schuler Engineering Co.

109 Cambria St., Newark, O.
Phone Newark 4319

President.....Charles E. Schuler
Chief Engineer.....Charles Schwartz
Secretary-Treasurer.....Corwin D. Harris
Superintendent.....D. E. VanNess
PRODUCTS: Steel Vertical Radiators for Antenna Systems, Guyed and Self-supporting.

Scientific Radio Service

4301 Sheridan Ave., University Park, Md.
Phone Hyattsville 0535

Contact.....H. D. Eisenhauer
PRODUCTS: Piezo Electric Crystals and Holders, Calibration and Testing of Frequency Monitors.

Scophony Corp. of America

527 Fifth Ave., New York 17, N. Y.
Phone: MUrray Hill 2-5960

President.....Arthur Levy
Vice-President.....Joseph E. Swan
TreasurerFranklin Feld
Director of Research...Dr. A. H. Rosenthal
BRANCH OFFICES: 40 Gloucester Sq. W., London, Eng. Sir M. B. Carter, Chairman. Wells, Somerset, England, W. G. Elcock, Managing Director.
PRODUCTS: Television projectors, electronic devices, Govt. work.

Scully Machine Co.

62 Walter St., Bridgenort, Conn.
Phone 4-5300

Owner.....L. J. Scully
Manager.....J. J. Scully
PRODUCTS: Precision Disc Recording Machines.

Seattle Radio Supply Co., Inc.

2117—2nd Ave., Seattle 1, Wash.
Phone: Seneca 2345

President.....G. A. Reeves
Vice-President.....E. O. Mickelson
PRODUCTS: Radio Parts and Tubes, Transmitting and Electronic and Test Equipment.

Shure Bros.

225 W. Huron St., Chicago, Ill.
Phone Del 8381

General Manager.....S. N. Shure
Sales Manager.....J. A. Berman
Chief Engineer.....B. B. Bauer
BRANCH OFFICES: 136 Liberty St., N. Y. C.; 908 W. Venice Blvd., Los Angeles; 415 Peachtree St., N. E., Atlanta, Ga.; 2411 First Ave., Seattle, Wash. PRODUCTS: Microphones, Phonograph Pickups, Magnetic Cutters, Microphone Stands, Vibration Pickups and Acoustic Devices.

The F. W. Sickles Co.

Box 920, Springfield, Mass.
Phone: Springfield 3-6621

President.....R. F. Sickles
Sales Manager.....Monte Cohen
PRODUCTS: Radio and Electronic Specialties.

Solar Manufacturing Corp.

285 Madison Ave., New York 17, N. Y.

President.....Otto Paschkes
Sales Manager.....W. C. Harter
Vice-President.....Paul Hetenyi
Chief Engineer.....J. Irving Cornell
Purchasing Agent.....George M. Sexton
PRODUCTS: Dry and Wet Electrolytics, Paper Bypass Condensers, Trimmer, Molded Mica Condensers, Elim-O-Stats, Capacitor Analyzers.

Sonora Radio & Television Corp.

325 N. Hoyne Ave., Chicago, Ill.
Phone: CHESApeake 2323

President.....Joseph Gerl
Vice-President.....B. Freund
Sales Manager.....Edward Harris
PRODUCTS: Receiving sets, radio-phonograph combinations, phonograph records.

The Sparks-Withington Co.

2400 E. Ganson St., Jackson, Mich.

President.....William Sparks
Vice-President & Gen. Mgr..Harry G. Sparks
Radio Plant Manager.....Charles J. Kayko
PRODUCTS: Receiving sets, radio-phonograph combinations, television sets, transformers.

**Speak-O-Phone Recording
& Equipment Co.**

23 West 60th St., New York, N. Y.
Phone CO 5-1350

General Sales Manager.....C. A. Austin
Secretary.....R. L. Lee

PRODUCTS: Recording and reproducing
equipment.

Speer Resistor Corp.

Theresia St., St. Marys, Pa.

President.....Dudley H. Miller
General Manager.....G. G. Herrick

PRODUCTS: Resistors, suppressors.

Sperry Gyroscope Co. Inc.

Manhattan Bridge Plaza, Brooklyn, N. Y.
Phone: CUMberland 6-5600

President.....R. E. Gillmor
Vice-President, Sales.....R. B. Lea
Vice-President.....P. R. Bassett
Aircraft Radio Dept.....H. C. Bostwick

PRODUCTS: Tubes, radio direction find-
ers, electronic measurement equipment.

Sprague Specialties Co.

189 Beaver St., North Adams, Mass.

President-General Manager....R. C. Sprague

PRODUCTS: Condensers, resistors, filters.

Stackpole Carbon Co.

Tannery St., St. Marys, Pa.
Phone: 311

President.....Lyle G. Hall
Vice-President (Electronics) J. H. Stackpole
Sales Manager.....H. A. Williams

PRODUCTS: Variable and fixed resistors,
switches, iron cores, anodes for power tubes,
condensers, battery electrodes.

Standard Transformer Corp.

1500 N. Halsted St., Chicago, Ill.
Phone MOhawk 5300

President-General Manager..Jerome J. Kahn

PRODUCTS: Transformers, reactors, audio
components, transmitters, electrical special-
ties.

Stewart-Warner Corp.

1826 Diversey Pkwy., Chicago, Ill.
Phone: Lakeview 600

Vice-President & General Sales Manager,
F. A. Hiter
Manager, Radio Dept.....L. L. Kelsey

PRODUCTS: Receiving sets, radio-phono-
graph combinations, FM receiving sets, tele-
vision receiving sets, record-players.

Stromberg-Carlson Co.

100 Carlson Rd., Rochester, N. Y.
Phone Culver 260

President.....W. M. Angle
Vice-Pres. & Gen. Manager..Ray H. Manson
Treasurer.....W. W. Hetzel
Chief Engineer.....F. C. Young
Sales Manager.....L. L. Spencer

BRANCH OFFICES: 564 West Adams St.,
Chicago, Ill., H. T. McCraig; 2017 Grand
Ave., Kansas City, Mo., A. J. Roberts; 1355
Market St., San Francisco, Calif., T. C.
Thompson. PRODUCTS: Electric, Combina-
tion, Television and FM Sets; Paging Sys-
tems, Antenna Kits.

Superior Tube Co.

P. O. Box 191, Norristown, Pa.

President.....C. A. Warden
Sales Manager.....H. B. Brown, Jr.

PRODUCTS: Nickel products, cathode ray
tube anodes, nickel power tube parts, etc.

Supreme Instruments Corp.

414 Howard St., Greenwood, Miss.

President.....D. N. Dulweber

PRODUCTS: Testing instruments.

Sylvania Electric Products, Inc.

500 Fifth Ave., New York, N. Y.

President.....W. E. Poor
Vice-President, Sales.....D. G. Mitchell
Director of Engineering.....R. M. Wise
General Sales Manager, Radio Tube Sales
C. W. Shaw

Advertising Manager.....Paul S. Ellison

PRODUCTS: Receiving tubes, cathode ray
tubes, transmitting tubes, electronic devices.

Synthane Corp.

Oaks, Pa.

President.....Robert R. Titus

PRODUCTS: Bakelite.

Technical Radio Co.

275 Ninth St., San Francisco, Calif.
Phone: UNderhill 7213

Chief Engineer.....Clayton F. Bane
Production Manager.....George Weiss
General Manager.....E. E. Olson

PRODUCTS: Transmitters, receiving sets,
direction finders and radio communication
equipment.

Telicon Corp.

305 E. 63rd St., New York, N. Y.
Phone: REgent 4-2828

President.....S. Sagall
Vice-President.....B. F. Wyckoff

PRODUCTS: Piezo-electric crystals, super-sonic instruments, television transmitters and receivers.

Thordarson Elec. Mfg. Co.

500 W. Huron St., Chicago, Ill.
Phone: WH 6444

Vice-President.....R. E. Onstad
Treasurer.....G. Winney
Purchasing Agent.....C. Schmitz
Chief Engineer.....W. Howe

PRODUCTS: Transformers, wave filters, amplifiers, electronic equipment, transmitters.

Tower Sales & Erecting Co.

6100 N. E. Columbia Blvd., Portland, Ore.
Phone: Trinity 7303

President.....C. H. Fisher

PRODUCTS: Fabrication, erection, maintenance of radio towers, ground systems, radio tower lighting, radio station construction.

Trav-Ler Karenola Radio & Television Corp.

1028 W. Van Buren St., Chicago 7, Ill.
Phone: HAYmarket 3487

President-General Manager....Joe Friedman
Chief Engineer.....R. J. O'Brien
Purchasing.....M. Kling

PRODUCTS: Receiving sets, interphone inter-communicating equipment for U. S. Signal Corps.

The Triplett Electrical Instrument Co.

Bluffton, Ohio

Contact.....R. L. Triplett

BRANCH Offices: All principal U. S. cities. PRODUCTS: Electrical Measuring Instruments, Industrial, Laboratory and Radio Test Equipment.

Tung-Sol Lamp Works, Inc.

95 Eighth Ave., Newark, N. J.
Phone: HUmboldt 2-4200

President.....Louis Rieben
Sales Manager.....R. E. Carlson

PRODUCTS: Receiving and transmitting tubes.

The Turner Co.

909 17th St., N. E., Cedar Rapids, Iowa
Phone Cedar Rapids 3-2607

President.....David Turner
Vice-President.....John B. Turner II
Secretary-Treasurer.....W. J. Nezerka
Chief Engineer.....R. H. Mayer

PRODUCTS: Microphones and Microphone Accessories, Quartz Crystal Assemblies.

United Electronics Company

42 Spring Street, Newark 2, New Jersey
Phone: Humboldt 2-0577

President.....R. H. Amberg
Vice-Pres. & Sales Mgr.....C. A. Rice
Chief Engineer.....B. F. Steiger
Credit Manager.....J. B. Nagle, Jr.
Purchasing Agent.....R. F. Schorn

PRODUCTS: Radio Transmitting Tubes.

United Transformer Co.

150 Varick St., New York 13, N. Y.
Phone Walker 5-4850

Contact.....I. A. Mitchell
Chief Engineer.....L. G. Burnell

PRODUCTS: Transformers, Reactors, Automatic Regulators, Voltage Control Units, Filters; Universal Broadcast Equalizers, Recording and Line Equalizers, Govt. Work.

Universal Microphone Co., Ltd.

424 Warren Lane, Inglewood, Calif.
Phone: (Inglewood) ORchard 7-4216
Phone: (Los Angeles) ORegon 8-2148

President & General Manager

James L. Fouch

Vice-President & Sales Manager

Cecil L. Sly

Secretary.....Durwood D. Allen

BRANCH OFFICES: (Canada) 560 King St. W., Toronto, 2; (Export) 301 Clay St., San Francisco, 11; New York, 259 W. 14th St.; Boston, 94 Portland St.; Chicago, 540 N. Michigan Ave.; Seattle, 2321—2nd Ave.

PRODUCTS: Microphones, stands and accessories: plugs, jacks, cords and switches.

Utah Radio Products Co.

820 Orleans St., Chicago, Ill.
Phone: SUPerior 8388

President.....Fred R. Tuerk
Sales Manager.....O. F. Jester

PRODUCTS: Loudspeakers, transformers, chokes, vibrators, resistors, jacks, volume and tone controls, switches, plugs.

Warwick Manufacturing Corp.

4640 W. Harrison St., Chicago, Ill.

Phone: ESTebrook 2727

President.....J. S. Holmes

PRODUCTS: Receiving sets, radio-phonograph combinations.

Watterson Radio Mfg. Co.

2700 Swiss Ave., Dallas 1, Texas

Phone: Texas T-1865

Owner-Sales Manager.....J. W. Davis

PRODUCTS: Receiving sets, radio-phonograph combinations, amplifiers, speaker baffles, replacement cabinets.

Wells-Gardner & Co.

2701 N. Kildare Ave., Chicago, Ill.

Phone: ALBany 8220

President.....A. S. Wells

Sales Manager.....H. A. Johanson

PRODUCTS: Receiving sets, radio-phonograph combinations.

William H. Welsh Co.

2241 Indiana Ave., Chicago, Ill.

Phone: CALumet 5454

Contact.....William H. Welsh

General Manager.....C. L. Matthews, Jr.

Chief Engineer.....F. D. Yocum

PRODUCTS: Speaker diaphragms, suspensions, domes, plastic molders.

Western Electric Co., Inc.

(Radio Division)

120 Broadway, New York, N. Y.

Phone COrtland 7-7700

Vice-President.....F. R. Lack

Assistant Manager.....C. R. Smith

Manager Commercial Sales...H. N. Willets

Radio Broadcasting and Sound Systems...L. F. Bockoven

Aviation and Marine Radio...F. C. McMullen

PRODUCTS: Hearing Aids and Hearing Measuring Equipment; Aviation, Marine, Police Radio Transmitters and Receivers; Radio Broadcasting Speech Input Equipment; Sound Distribution Systems; Vacuum Tubes; Acoustic Measuring Equipment; Microphones, Loudspeakers, and allied items; Telephone Apparatus and Cable; Carrier Telephone Equipment and Train Dispatching Apparatus.

Westinghouse Electric & Mfg. Co.

Radio Division

2519 Wilkens Ave., Baltimore 3, Md.

Phone EDmondson 2300

Tube 6 Lamp Division

MacArthur Ave., Bloomfield, N. J.

Phone: BLoomfield 2-2200

President.....George H. Bucher

Vice-President.....Walter Evans

Manager, Radio Division.....C. J. Burnside

Sales Manager.....C. W. Miller

Mgr. Engineer.....R. N. Harmon

Manager, Special Products...H. J. Hoffman

Purchasing.....C. W. Lutz

Mgr., Lamp Div.....R. C. Stuart

Mgr., Electronics.....D. D. Knowles

Purchasing (Lamp Div.).....A. Clohosey

BRANCH OFFICES: In all principal cities. PRODUCTS: Commercial Broadcast Transmitters, all types of Special Radio Transmitting and Receiving Equipment for Military and Industrial Purposes, and Radio Tubes.

Weston Electrical Instrument Corp.

614 Frelinghuysen Ave., Newark, N. J.

Phone Bigelow 3-4700

Contact.....V. E. Jenkins

BRANCH OFFICES: All principal U. S. cities and Canada. PRODUCTS: Tubecheckers, Vacuum Tube Voltmeters, Power Level Indicators, Volume Indicators, Switchboard Voltmeters and Ammeters, Portable Voltmeters, Ammeters and Ohmmeters, Portable Capacity Testers, Portable Combination Volt-Ohm-Milliammeters, Radio and electronic industrial test equipment.

Wilcox-Gay Corp.

604 W. Seminary St., Charlotte, Mich.

President-Treasurer.....Chester M. Wilcox

Vice-President & Secretary.....Paul S. Gay

Vice-President & Sales Manager,

Warren L. Hasemeier

PRODUCTS: Radio-phonograph combinations, FM receiving sets, record-players, recording discs.

Wincharger Corp.

E. Seventh and Division Sts., Sioux City, Iowa

Phone Sioux City 8-6513

Contact.....R. F. Weinig

PRODUCTS: Vertical Radiators, Antenna Towers and Accessories, Dynamotors, Inverters, Specialized Rotary Electrical Equipment.

Zenith Radio Corp.

6001 Dickens Ave., Chicago, Ill.

Phone: BERkshire 7500

President-General Mgr...E. F. McDonald, Jr.

Executive Vice-President & Treasurer,

Hugh Robertson

Vice-President & Director of Sales,

J. J. Nance

PRODUCTS: Receiving sets, radio-phonograph combinations, FM receiving sets, television receiving sets, record-players.



INTERNATIONAL



*International Broadcast Stations
In The United States*



CBS-NBC Latin-American Networks



Cuba



Mexico



South America



Central America



INTERNATIONAL BROADCAST STATIONS IN THE UNITED STATES

<i>Licensee and Location</i>	<i>Call Letters</i>	<i>Frequency (Kc)</i>	<i>Power</i>
The Associated Broadcasters, Inc. San Francisco, Calif.....	KWID	6060, 7230, 9570, 11870, 15290, 17760, 21610	100 kw
The Associated Broadcasters, Inc. San Francisco, Calif.....	KWIX	6060, 7230, 9570, 11870, 15290, 17760, 21610	50 kw
Columbia Broadcasting System, Inc. Brentwood, L. I.....	WCBX	5060, 6120, 6170, 9650, 11830, 15270, 17830, 21520, 21570, S.A. 15267 in lieu of 15270, S.A. 9490, S.A. 9590, SSA 11145 and 9750	50 kw
Columbia Broadcasting System, Inc. Brentwood, L. I.....	WCRC	6060, 6120, 6170, 9650, 11830, 15270, 17830, 21520, 21570, S.A. 15267 in lieu of 15,270, S.A. 9490, S.A. 9590, SSA 11145 and 9750	50 kw
Columbia Broadcasting System, Inc. Brentwood, L. I.....	WCDA	6060, 6120, 6170, 9650, 11830, 15270, 17830, 21520, 21570, S.A. 15267 in lieu of 15,270, S.A. 9490, S.A. 9590, SSA 11145 and 9750	50 kw
Columbia Broadcasting System, Inc. Brentwood, L. I.....	WCBN	6120, 6170, 9650, 11830, 15270, 17830, 21520, 21570	50 kw CP only
Columbia Broadcasting System, Inc. Wayne, N. J.....	WOOC	6120, 6170, 9650, 11830, 15270, 17830, 21520, 21570	50 kw CP only
Columbia Broadcasting System, Inc. Wayne, N. J.....	WOOW	6120, 6170, 9650, 11830, 15270, 17830, 21520, 21570	50 kw CP only
The Crosley Corp. Mason, Ohio.....	WLWO	6080, 9590, 11710, 15250, 17800, 21650	75 kw
The Crosley Corp. Mason, Ohio.....	WLWK	6080, 9590, 11710, 15250, 17800, 21650	50 kw CP only
The Crosley Corp. Mason, Ohio.....	WLWL	6080, 9590, 11710, 15250, 17800, 21650	200 kw CP only
The Crosley Corp. Mason, Ohio.....	WLWS	6080, 9590, 11710, 15250, 17800, 21650	200 kw CP only
The Crosley Corp. Mason, Ohio.....	WLWR	6080, 9590, 11710, 15250, 17800, 21650	200 kw CP only
General Electric Company South Schenectady, N. Y.....	WGEA	6190, 7000, 9530, 9550, 11847.5, 15330, 21500, 21,590, SSA 17,880	50 kw
General Electric Company South Schenectady, N. Y.....	WGEO	6190, 7000, 9530, 9650, 11847.5, 15330, SSA 9550 and 17880	100 kw

INTERNATIONAL BROADCAST STATIONS IN THE U. S.

General Electric Company near Belmont, Calif.....	KGEI	6190, 7250, 9530, 9550, 11730, 15210, 15330, SSA 11790, 15130 and 17880	50 kw
General Electric Company Schenectady, N. Y.....	WGEX		25 kw CP only
National Broadcasting Co., Inc. Bound Brook, N. J.....	WRCA	6100, 9670, 11890, 15150, 15190, 17780, 21630, SSA 11870 Kc and SA 11893 (50 to 100 kw on 9670)	50 kw
National Broadcasting Co., Inc. Bound Brook, N. J.....	WNBI	Same as WRCA	Same as WRCA
National Broadcasting Co., Inc. Bound Brook, N. J.....	WNRA	6100, 9670, 11890, 15150, 15090, 21630	50 kw CP only
National Broadcasting Co., Inc. Bound Brook, N. J.....	WNRE	Same as above	50 kw
National Broadcasting Co., Inc. Bound Brook, N. J.....	WNRI	Same as above	CP only 50 kw
National Broadcasting Co., Inc. Bound Brook, N. J.....	WNRX	Same as above	CP only 50 kw
Westinghouse Radio Stations, Inc. Hull, Mass.	WBOS	6140, 9570, 11870, 15210, 17780, 21540	CP only 50 kw
World Wide Broadcasting Corp. Scituate, Mass.	WRUL	6040, 11730, 11790, 15130, 15350, 17750, 21460	50 kw
World Wide Broadcasting Corp. Scituate, Mass.	WRUS	6040, 9700, 11730, 15350, 17750, 2146, SSA 6140 7575, 8590, 9750, 11145, 11790, 15130	50 kw
World Wide Broadcasting Corp. Scituate, Mass.	WRUW	11730, 15130, 25600, 11790, 15350, 17750, 9700	20 kw C.P. 50 kw
World Wide Broadcasting Corp. Scituate, Mass.....	WRUA	6040, 9700, 11730, 15350, 17750, 21460	50 kw
World Wide Broadcasting Corp. Scituate, Mass.....	WRUX	SSA 7575, 7805	7 kw

Pending Applications

General Electric Co. Belmont, Calif.....		To be determined	100 kw
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Due to the shortage of paper we are omitting the FCC regulations regarding International Broadcast Stations. This list will be found on pages 993-994 of the 1943 RADIO ANNUAL.



LATIN-AMERICAN NETWORKS

CBS — NBC

LA CADENA DE LAS AMERICAS (The Network of the Americas) of THE COLUMBIA BROADCASTING SYSTEM

— PERSONNEL —

Director of Shortwave Broadcasting and Latin American Relations.....	Edmund A. Chester
Assistant Director of Latin American Relations and Latin American News Editor.....	Roberto I. Unanue
Assistant in Charge of Public Relations for Latin America.....	Carlos Garcia-Palacios
Publicity Assistant	Marge Kennedy
Publicity Assistant	B. F. Aldana
Director of Programs.....	William H. Fineshriber
Assistant Director of Programs, Supervisor of Special Events Programs, Traffic Manager.....	John W. Hundley
Director of Music.....	Terig Tucci
Production Chief.....	Russ Johns
Script Department Manager.....	Benjamin F. Feiner, Jr.
Shortwave News Director.....	Lawrence S. Haas
Network Service Manager.....	Frank Kizis
Engineer in Charge of International Broadcasting.....	Guy Hutcheson

ARGENTINA

Call Letters	Station Name	City	Frequency Kilocycles	Power Watts
LR3.....	Radio Belgrano	Buenos Aires	950	50000
LRV.....	Radio Belgrano	Buenos Aires	11840	50000
LRV1.....	—Radio Belgrano Network—			
LU7.....	Radio General San Martin	Bahia Blanca	1240	1500
LV3.....	Radio Cordoba	Cordoba	620	25000
LT7.....	Radio Provincia	Corrientes	1340	5000
LT1.....	Radio del Litoral	Rosario	780	12000
LV1.....	Radio Graffigna	San Juan	560	10000
LV4.....	Radio San Rafael de Mendoza.....	San Rafael	690	5000
LV11.....	Radio del Norte	Santiago del Estero.....	1170	500
LV12.....	Radio Aconquija	Tucuman	580	5000
LV14.....	Radio La Rioja	La Rioja	1460	500
LV10.....	Radio Cuyo	Mendoza	1210	2500
LV13.....	Radio San Luis	San Luis	—	—
ZP9.....	Radio Encarnacion	Encarnacion, Para- guay	—	—
ZP1.....	Radio Encarnacion	Encarnacion, Para- guay	—	—
CXA8.....	Radio Real de San Carlos.....	Colonia, Uruguay	9620	20000
CXA14.....	Radio Real de San Carlos.....	Colonia, Uruguay	11820	1000

BOLIVIA

CP4.....	Radio Illimani	La Paz	1040	10000
CP5.....	Radio Illimani	La Paz	6200	1000

CHILE

Call Letters	Station Name	City	Frequency Kilocycles	Power Watts
CB57.....	Radio Sociedad Nacional de Agricultura.	Santiago de Chile...	570	6000
CB1180.....	Radio Sociedad Nacional de Agricultura.	Santiago de Chile...	11800	1000
CB90.....	Radio Sociedad Nacional de Agricultura.	Valpariso	900	1000

COLOMBIA

HJAG.....	Emisora Atlantico	Barranquilla	1050, 4905	1000
HJAH.....	Emisora Atlantico	Barranquilla	1080	1000
HJCS.....	Radio Continental	Bogota	920	50000
HJEB.....	La Voz del Valle	Cali	1150	500
HJED.....	La Voz del Valle	Cali	4825	1000
HJFB.....	Radio Manizales	Manizales	6105	1000
HJFD.....	Radio Manizales	Manizales	1390	500
HJDT.....	Radio Nutibara	Medellin	1150	500
HJFF.....	Ondas del Otun.....	Pereira	1350	1000

COSTA RICA

TIPG.....	La Voz de la Victor.....	San Jose	625	5000
TIPG.....	La Voz de la Victor.....	San Jose	9615	2000

CUBA

CMJN.....	RHC Cadena Azul	Camaguey	740	1000
CMCY.....	RHC Cadena Azul	Havana	590	15000
COCY.....	RHC Cadena Azul	Havana	11470	1000
CMKV.....	RHC Cadena Azul	Holguin	600	1000
CMHI.....	RHC Cadena Azul	Santa Clara	570	15000
COHI.....	RHC Cadena Azul	Santa Clara	6450	5000
CMKN.....	RHC Cadena Azul	Santiago de Cuba...	930	1000

DOMINICAN REPUBLIC

HIIZ.....	Broadcasting Nacional	Ciudad Trujillo	6315	100
HIZ.....	Broadcasting Nacional	Ciudad Trujillo	1350	200

ECUADOR

HC2AJ.....	Compania del Ecuador.....	Guayaquil	1050	1000
HC2AK.....	Compania del Ecuador.....	Guayaquil	9310	1000
HCQR.....	Radio Quito	Quito	1340	250
HCQRX.....	Radio Quito	Quito	5970	300

EL SALVADOR

YSP.....	La Voz de Cuscatlan.....	San Salvador	—	—
YSP.....	La Voz de Cuscatlan.....	San Salvador	—	—
YSPA.....	La Voz de Cuscatlan.....	San Salvador	—	—
YSPB.....	La Voz de Cuscatlan.....	San Salvador	—	—

GUATEMALA

TGW.....	La Voz de Guatemala.....	Guatemala City	610	10000
TGWA.....	La Voz de Guatemala.....	Guatemala City	9685 15170	10000
TGWB.....	La Voz de Guatemala.....	Guatemala City	6460	1000
TGWC.....	La Voz de Guatemala.....	Guatemala City	1520	1000

HAITI

Call Letters	Station Name	City	Frequency Kilocycles	Power Watts
HHW	Sation de Radiodifusion	Port-au-Prince	1230	75
HH3W	Sation de Radiodifusion	Port-au-Prince	9595	150

HONDURAS

HRN	La Voz de Honduras	Tegucigalpa	1450	500
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MEXICO

XEQ	Radio Pan Americana, S. A.	Mexico City	730	5000
XEQQ	Radio Pan Americana, S. A.	Mexico City	9680	1000
XEA		Campeche, Cam.	1370	250
XEBU		Chihuahua, Chih.	1260	500
XEBL	Max Gomez Blanco	Culiacan, Sin.	1260	500
XEHL		Guadalajara, Jal.	1370	50
XEHQ		Hermosillo, Son.	590	300
XEDS		Mazatlan, Sin.	1320	500
XEFC	Julio Molina Fonto	Merida, Yuc.	1340	250
XEMR	Enrique Serna Martinez	Monterrey, N. L.	1370	500
XELQ	Francisco Laris Iturbide	Morelia, Mich.	1270	100
XEAX	Alvaro Rodriguez A.	Oaxaca, Oax.	1270	500
XEHR	Manuel R. Canalo	Puebla, Pue.	1090	250
XEBM		San Luis Potosi	1260	150
XETU	Juan Perez Cardonas	Tampico, Tams.	1460	1000
XEDN	Alejandro O. Stevenson, Jr.	Torreon, Coah.	1260	250
XEHV	Juan A. Palavicini	Veracruz, Ver.	1310	1000

NICARAGUA

YNOW	La Voz de la America Central	Managua	6850	800
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PANAMA

HOC	Radio Teatro Estrella de Panama	Panama City	1440	50
HP5A	Radio Teatro Estrella de Panama	Panama City	11700	1000

PARAGUAY

ZP3	Radio Teleco	Asuncion	700	8000
ZPA3	Radio Teleco	Asuncion	11877	1200

PERU

OAX6C	Radio Continental	Arequipa	1370	250
OAX6D	Radio Continental	Arequipa	9500	250
OAX6E	Radio Continental	Arequipa	6055	300
OAX4A	Radio Nacional del Peru	Lima	850	10000
OAX4Z	Radio Nacional del Peru	Lima	6082	15000
OAX4U	Radio America	Lima	1030	5000
OAX4V	Radio America	Lima	5990	2000
OAX4W	Radio America	Lima	9440	1500

URUGUAY

CX16	Radio Carve	Montevideo	850	10000
CX24	Radio la Voz del Aire	Montevideo	58000	2500
CXA8	Radio Belgrano	San Carlos, Colonia.	9620	20000
CXA14	Radio Belgrano	San Carlos, Colonia.	11820	1000

VENEZUELA

YV5RG	Ondas Populares	Caracas	1010	1000
YV5RU	Ondas Populares	Caracas	6070	2232
YV6RA	Ecos Del Orinoco	Ciudad Bolivar	1400	750
YV6RU	Ecos Del Orinoco	Ciudad Bolivar	4790	1000
YV1RA	Ecos Del Zulia	Maracaibo	1300	200
YV1RV	Ecos Del Zulia	Maracaibo	4750	300
YV4RE	Radio Valencia	Valencia	1400	1000
YV4RP	Radio Valencia	Valencia	3460	1000

NBC INTERNATIONAL Pan-American Network

— PERSONNEL —

Vice-President in Charge of International Relations	John F. Royak
Manager of International Division	Fred B. Bate
Radio Facilities Engineer	Raymond F. Guy
Director, Latin American Programs and Chief of Spanish Section	Eli B. Canel
Continuity Acceptance	F. J. Lara
Production Chief	Ary Moll
Assistant Production Chief	Alvaro Gonzalez
Assistant Production Chief	Aurora Diaz
Chief of Portuguese Section	Manuel Souza
Musical Director	Emilio de Torre
Director of Station Relations	Cal J. Abraham
Publicity and Public Relations Assistant	Miguel Albornoz
Chief of Traffic Section	Charles Mangano

ARGENTINA

Call Letters	Station Name and/or Owner	Location	Frequency Kilocycles	Power Watts
LR4	Radio Splendid	Buenos Aires	990	50000
LRS	Radio Splendid	Buenos Aires	9315	30000
LRS1	Radio Splendid	Buenos Aires	5900	30000
<i>Radio Splendid Network (Red Argentina de Emisoras Splendid S. A.)</i>				
LW1	de la Red Splendid	Cordoba	790	15000
LT2	de la Red Splendid	Rosario	1230	15000
LU3	de la Red Splendid	Bahia Blanca	1150	10000
LT4	de la Red Splendid	Posadas	1010	1500
LV6	de la Red Splendid	Mendoza	630	10000
LW7	de la Red Splendid	Catamarca	730	1500
LU5	de la Red Splendid	Neuquen	1130	1500
LW8	de la Red Splendid	Jujuy	1130	1500
LU6	Radio Atlantica	Mar del Plata	1300	1500
LU4	Comodoro Rivadavia	Chubut	640	1500
LU12	Rio Gallegos	Santa Cruz	680	1500

BOLIVIA

CP20	Radio El Condor	La Paz	930	1000
CP15	Radio El Condor	La Paz	5880	500
CP18	Radio El Condor	Oruro	900	250

CHILE

CB138	Radio El Mercurio	Santiago	1380	15000
CB1185	Radio El Mercurio	Santiago	11850	5000
CB64	Radio Cristobal Colon	Valparaiso	640	3000
CD69	Radio La Frontera	Temuco	690	1200
CC117	Radio Simone Bolivar	Concepcion	1170	1000

COLOMBIA

HJCC	La Voz de Bogota	Bogota	870	5000
HJCE	La Voz de Bogota	Bogota	6240	1000
HJCF	La Voz de Bogota	Bogota	6073	750
HJCR	Radiodifusora Nacional	Bogota	1200	5000
HJCT	Radiodifusora Nacional	Bogota	6260	2500
HJAN	La Voz de la Victor	Barranquilla	1190	1000
HJAB	La Voz de Barranquilla	Barranquilla	4785	2500
HJDK	La Voz de Antioquia	Medellin	1250	1000
HJDE	La Voz de Antioquia	Medellin	6145	5000
HJGK	Radio Santander	Bucaramanga	1280	500
HJGB	Radio Santander	Bucaramanga	4775	2500
HJFE	Radio Quirama	Pereira	1470	499
HJFA	La Voz de Pereira	Pereira	6054.3	750
HJAF	Emisoras Fuentes	Cartagena	1240	350
HJAE	Emisoras Fuentes	Cartagena	4965	1000

COSTA RICA

Call Letters	Station Name and/or Owner	Location	Frequency Kilocycles	Power Watts
TIPG.....	La Voz de la Victor	San Jose	625	6000
TIPG.....	La Voz de la Victor	San Jose	9615	2000
TINBC.....	La Voz de la Democracia	San Jose	1070	4000

CUBA

CMQ.....	Circuito CMQ S.A.....	Habana	690	25000
COCQ.....	Circuito CMQ S.A.....	Habana	6370	5000
CMBZ.....	Radio Salas	Habana	950	250
COBZ.....	Radio Salas	Habana	9030	250

CMQ Network (Circuito CMQ)

CMHQ.....	del Circuito CMQ.....	Santa Clara	810	10000
CMJL.....	del Circuito CMQ.....	Camaguey	620	10000
CMKJ.....	del Circuito CMQ.....	Holguin	800	10000
CMKU.....	del Circuito CMQ.....	Santiago	970	1000

DOMINICAN REPUBLIC

HIX.....	Radiodifusora Oficial	Ciudad Trujillo	950	250
HIIX.....	Radiodifusora Oficial	Ciudad Trujillo	6342	300
HI3X.....	Radiodifusora Oficial	Ciudad Trujillo	11960	300
H19B.....	Broadcasting "Hotel Mercedes".....	Santiago	6383	400

ECUADOR

HCJB.....	La Voz de los Andes.....	Quito	974	1000
HCJB.....	La Voz de los Andes.....	Quito	4108	200
HCJB.....	La Voz de los Andes.....	Quito	9958	1000
HCJB.....	La Voz de los Andes.....	Quito	12455	10000
HC2GI.....	Radio El Telegrafo.....	Guayaquil	1165	500
HC2ET.....	Radio El Telegrafo.....	Guayaquil	9200	200

EL SALVADOR

YSS.....	Alma Cuscatleca	San Salvador	638	500
HUB.....	Alma Cuscatleca	San Salvador	4780	300
YSD.....	Alma Cuscatleca	San Salvador	7894	500

GUATEMALA

TGW.....	La Voz de Guatemala.....	Guatemala City	610	10000
TGWA.....	La Voz de Guatemala.....	Guatemala City	15170	10000
			9685	10000
TGWB.....	La Voz de Guatemala.....	Guatemala City	6480	1000
TGWC.....	La Voz de Guatemala.....	Guatemala City	1520	1000

HAITI

HH2S.....	Societe Haitienne de Radiodiffusion.....	Port-au-Prince	5945	400
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HONDURAS

HRN.....	La Voz de Honduras.....	Tegucigalpa	5875	500
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MEXICO

XEW.....	La Voz de la America Latina desde Mexico	Mexico City	900	100000
XEWW.....	La Voz de la America Latina desde Mexico	Mexico City	9500	10000
			15160	10000

XEW Network (Cadena XEW)

Call Letters	Station Name and/or Owner	Location	Frequency Kilocycles	Power Watts
XEW Network (Cadena XEW)				
XEKJ	Refugio A. de Valdivieso	Acapulco, Gro.	1400	250
XEBI	Pedro C. Rivas	Aguascalientes	1360	250
XEFQ		Cananca, Son.	980	500
XEP	Esteban Parra	Ciudad Juarez	1300	500
XEBJ	Fernando Elizalde	Ciudad Victoria	1450	100
XEA	Luis A. Maury	Campeche, Camp.	1370	250
XEBA		Ciudad Guzman	1270	250
XENC		Celaya, Gto.	1540	250
XEFI	Ramiro G. Uranga	Chihuahua, Chih.	1440	1000
XERL	La Voz Costena desde Colima	Colima, Col.	1280	250
XEJC		Cuernavaca	1420	150
XESA	Pablos y Elizalde	Culiacan, Sin.	1360	250
XEE	Alejandro Stevenson, Jr.	Durango, Dgo.	1280	250
XEAV		Guadalajara, Jal.	580	1000
XEBH	Carlos Balderrama	Hermosillo, Son.	920	1000
XEBO	Alfonso Martinez	Irapuato, Gto.	1330	500
XEKL	El Heraldo de Vera Cruz	Jalapa, Ver.	550	100
XERZ	Rafael C. Navarro	Leon, Gto.	1240	250
XECF	Francisco Perez H.	Los Mochis, Sin.	1330	1000
XERJ	Oscar Perez A.	Mazatlan, Sin.	1320	500
XEME	Perfecto Villamil Cisnero	Merida, Yuc.	1270	400
XECL		Mexicali, B. C.	990	5000
XEDW	Hector Silva Canto	Minatitlan, Ver.	1260	250
XEAM	Manuel L. Salinas	Matamoros, Tamps.	1400	250
XEI	Tiburcio Ponce	Morelia, Mich.	1400	250
XEFB	Jesus Quintanilla	Monterrey, N. L.	630	500
XEFE	Rafael T. Carranza	Nuevo Laredo	960	1000
XEGL	Fausto M. Gomez	Navojoa, Son.	1270	500
XEHF		Nogales, Son.	1370	1000
XEAX	Alvaro Rodriguez A.	Oaxaca, Oax.	1370	500
XETQ	Francisco Campos H.	Orizaba, Ver.	1370	250
XEMU	Cia Radiodifusora de P. N.	Piedras Negras	580	250
XEHR	Roberto Canedo	Puebla, Pue.	1090	250
XEJR	Anastasio Gomez Gallardo	Parral, Chih.	1490	100
XEJX	Radioemisora Queretana	Queretaro, Qro.	1450	250
XERT		Reinosa, Tampa.	590	250
XEDE		Salttillo, Coah.	1400	250
XECZ	Ceferino Z. Jimenez	San Luis Potosi	1430	1000
XETU		Tampico, Tamps.	1460	1000
XEC		Tijuana, B. C.	1310	250
XEBX	Miguel B. Rodriguez	Sabinas, Coah.	610	250
XETL	Calixto Almazan	Tuxpan, Ver.	1390	250
XERK	Dario Mondragon	Tepic, Nay.	1450	250
XEBP	Alejandro O. Stevenson	Torreón, Coah.	1260	250
XEU	Fernando Pazos y Cia.	Veracruz, Ver.	960	500
XEUF	Ignacio Navarro	Uruapan, Mich.	550	350
XELK		Zacatecas, Zac.	1280	100
XEGC	Guillermo Calzada	Zamora, Mich.	1450	100

NICARAGUA

YNPS	La Voz de Nicaragua	Managua	6760	1000
YNDS	La Voz de Nicaragua	Managua	6240	750

PANAMA

HOA	Radio Panamericana	Panama City	1000	400
HP5G	Radio Panamericana	Panama City	11780	600
HOK	La Voz de la Victor	Colon	640	250
HP5K	La Voz de la Victor	Colon	6005	200

PARAGUAY

Call Letters	Station Name and/or Owner	Location	Frequency Kilocycles	Power Watts
ZP9.....	Radio La Capital.....	Asuncion	970	1200

PERU

OAX4A....	Radio Nacional del Peru.....	Lima	854	10000
OAX4Z....	Radio Nacional del Peru.....	Lima	6082	15000
OAX4T....	Radio Nacional del Peru.....	Lima	9562	10000
OAX6A....	Radio Arequipa	Arequipa	6042	200

PUERTO RICO

WNEL.....	The Link of the Americas.....	San Juan	1320	5000
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URUGUAY

CX-14.....	El Espectador	Montevideo	810	15000
CXA-19....	El Espectador	Montevideo	11705	5000
CX-18.....	Radio Libertad	Montevideo	890	3000
CXA-9.....	Radio Libertad	Montevideo	15345	3000

El Espectador Network (Cadena Uruguaya de Radiodifusion)

CW-7.....	Radio Carmelo	Carmelo	640	1000
CW-19....	Difusora Rochense	Rocha	1340	50
CW-23....	Radio Cultural	Salto	820	500
CW-33....	Radio Florida	Florida	1200	75
CW-35....	Radio Paysandu	Paysandu	1240	750
CW-43....	Radio Lavalleja	Minas	1420	300
CW-46A...	Zorilla de San Martin.....	Tacuarembó	1400	1200
CW-47A...	Radio Welcome	San Jose	1510	100
CW-45....	Difusora Treinta y Tres.....	Treinta y Tres.....	1390	250

VENEZUELA

YV5RA....	Radio Caracas	Caracas	960	10000
YV5RN....	Radio Caracas	Caracas	4920	5000
YV1RK....	Radio Popular	Maracaibo	1250	300
YV1RL....	Radio Popular	Maracaibo	4810	300
YV2RB....	La Voz del Tachira	San Cristobal	980	500
YV2RN....	La Voz del Tachira	San Cristobal	4830	2000
YV4RA....	La Voz de Carabobo	Valencia	1350	1000
YV4RO....	La Voz de Carabobo	Valencia	6130	1000
YV1RW....	Radio Coro	Coro	1370	200
YV1RY....	Radio Coro	Coro	4770	300
YV6RE....	Emisoras Unidas	Barcelona	1080	500
YV6RC....	Emisoras Unidas	Barcelona	3450	1500
YV2RC....	La Voz de la Sierra	Merida	3420	500
YV1RO....	Radio Trujillo	Trujillo	3310	800
YV3RE....	Radio Barquisimeto	Barquisimeto	1475	1500
YV3RN....	Radio Barquisimeto	Barquisimeto	6120	2000

STATIONS OF CUBA

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Bayamo, Orte	CMKX	1390	0.25	Oscar Vidal Benitez
Caibarien	CMHD	1560	0.25	Manuel Alvarez
Camaguey	CMJL	920	10.0	Cambo y Gabriel S. A.
Camaguey	CMJN	740	1.0	.....
Camaguey	COJK	8663	1.0	Jones, Castrillon y Cia.
Camaguey	CMJK	1160	0.25	Jones, Castrillon y Cia.
Camaguey	CMJA	1060	0.25	Rafael Valdes Jiminez
Camaguey	CMJE	1230	0.25	Primo Alonso Casares
Camaguey	CMJF	1300	0.25	Gertrudis de la Cruz (Perez)
Camaguey	CMJW	1440	0.25	Andres Moran Cisneros
Camaguey	CMJC	1340	0.25	Fernando Terron Bolanos
Camajuani (Santa Clara)	CMHO	1250	0.25	Enrique Lasanta, Oliver
Cardenas, Mtzas.	CMGE	1470	0.25	Genaro Sabater
Ciego de Avila	CMJH	1370	0.25	Luis Marauri Mendoza
Ciego de Avila	CMJI	1400	0.25	Isidro Castellanos Perez
Ciego de Avila	CMJM	1270	1.0	.....
Ciego de Avila	CMJO	1470	0.25	Bonifacio Idefonso
Cienfuegos, L. V.	CMHM	1450	0.25	Jose Ramon Femenias, Jr.
Cienfuegos, L. V.	CMHJ	1350	0.25	Romualdo Ugalde y Cordero
Cruces, L. V.	CMHK	1380	0.25	Virgilia Villanueva
Guanajay, P. del Rio	CMAC	1370	0.1	Jose Manuel Alvarez Valdes, Guillermo Alvarez Valdes, Israel Porras Fajardo
Guantanamo, Orte	CMKS	900	0.25	Candido Savon Suarez
Guantanamo, Orte	CMKH	1130	0.25	Virgilio Arciero Maffei
Guines	CM9RT	1610	0.25	Raul Torres Pabdal
Guanabacoa (Habana)	COCH	9437	1.0	Radio Internacional
Guanabacoa (Habana)	CMBH	1540	5.0	Vicente Espinosa
Guanabacoa (Habana)	CMCF	910	5.0	Radio Internacional
Habana	COCQ-1	8833	5.0	Cambo Y Gabriel S. A.
Habana	COBZ	9030	1.0	Manuel y Guillermo Salas
Habana	CMA5	5780)	1.0	Cuba Transatlantic Radio
		6790)	0.15	Corporation
		8630)		
		11560)		
		15505)		
		17260)		
Habana	CMCJ	1580	0.25	Rafael Rodriguez
Habana	CMCR	1580	0.25	Juan Gonzalez y Seneriz
Habana	CMCA	1490	0.25	Augusto Tostar y J. M. Gonzalez
Habana	CMCG	1460	0.25	Dr. Miguel Angel Campos
Habana	CMCQ	740	0.25	Andres Martinez
Habana	CMBX	1390	0.25	Vicente Espinosa, Julio C. Traviaso
Habana	CMK	830	0.25	Fausto Montiel
Habana	CMQ	690	25.0	Cambo y Gabriel S. A.
Habana	CMCY	590	15.0	.....
Habana	CMW	550	2.5	Adolfo Gil y Miguel Troncoso
Habana	COCX	11650	1.0	Francisco A. Lavin
Habana	COCW	21740)	1.0	Adolfo Gil y Miguel Troncoso
		6322)		(Under construction)

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Habana	COCM	9833	1.0	Cia. Transradio Columbia, S. A.
Habana	COCY	11740 21620	0.1	.....
Habana	COBQ	9235 9540	0.1	Andrea Martinez
Habana	COF	7255	0.1	Guartel de Bomberos Ministerio de Defensa Republicas
Habana	COK	11616	1.0	Cuban National Sports Dept.
Cerro (Habana)	CMCB	1330	0.25	Metropolitan Radio de Cuba, S. A.
Habana	CMOA	1360	0.25	Juan Fernandez Duran
Habana	CMC	1360	0.25	Rafael Valdes
Habana	CMBG	1390	0.25	John L. Stowers
Habana	CMCX	1290	0.25	Jose Custodio Milagro Ram-baut y Lanza
Habana	CMCH			
Habana	CMCW	1230	0.25	Jose Vilarino
Habana	CMCU	1190	0.25	Jorge Garcia Serra
Habana	CMBY	1110	0.25	Pagos y Cia.
Habana	CMX	1010	10.0	Francisco A. Lavin
Habana	CMBZ	950	5.-D 1.-N	Manuel y Guillermo Salas
Holguin	CMKJ	970	1.0	Cambio & Gabriel, S. A.
Holguin	CMKV	600	1.0	.....
Holguin	CMKF	1490	0.25	Manuel J. de Gongara
Holguin	CMKO	1220	0.25	Manuel Angulo Farran
Holguin	CMKG	1050	0.25	Emilio Grau Medina
Jovellanos (Matanzas)	CMGN	1310	1.0	.....
Manzanillo, Orte.	CMKE	1320	0.25	Cia. Radio Emisora Manzanillo, S. A.
Manzanillo, Orte.	CMKM	560	0.25	Raimundo Comas Solar, Merchan y P. Giguereado
Matanzas, Cuba	COGF	11800	1.0	Bernabe R. de la Torre
Matanzas, Cuba	CMGH	1440	1.0	Garcia Alvarez & Heirs
Matanzas, Cuba	CMGF	1240	0.25	Bernabe R. de La Torre
Marianao (Habana)	CMZ-1	660	0.5	Government—Ministry of Nat'l Defense
Marianao (Habana)	CMBF	730	5.0	Compania Radio Universal, S. A.
Marianao (Habana)	CMZ	1260	5.0	Ministry of Education (Gov't of Cuba)
Marianao (Habana)	COX	9640	5.0	Ministry of Education (Gov't of Cuba)
Nuevitas, Cam.	CMJQ	1580	0.25	Manuel Puig Martinez
Palma Soriano, Orte.	CMKZ	1430	0.25	Joaquin Venero Obregon
Pinar del Rio	CMAB	1450	0.25	Francisco Martinez P. R.
Pinar del Rio	CMAQ	810	1.0	Cambio y Gabriel, S. A.
Pinar del Rio	CMAN	1300	1.0	.....
Placetas, L. V.	CMHP	1320	0.25	Candido de Los Angeles, Guevara Perdomo
Puentes Grandes (Habana)	CMBQ	1150	5.-D 1.-N	Amletto Battisti
Puerto Padre, Orte.	CMKY	1350	0.1	Pedro Zacca Cheda
Rancho Boyeros, Habana	COBC	9363	1.0	Domingo Fernandez Cruz
Rancho Boyeros, Habana	CMBC	790	5.-D 1.-N	Domingo Fernandez Cruz
Regla (Habana)	CMCD	630	12.0	.....
Regla (Habana)	COCD	6130	1.0	.....
Reparto Rancho Boyeros (Habana)	CMCK	980	5.0	Luis Casas Rodriguez, Ernesto Casas Rodriguez
Reparto Rancho Boyeros (Habana)	COCO	8700	5.0	Luis Casas Rodriguez, Ernesto Casas Rodriguez

CUBA STATIONS

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Reparto Vedado (Habana)...	CMBD	1460	5.0 0.25	Luis Perez Garcia
Reparto Vedado (Habana)...	CMOX	1490	1.0	Perez y Chisholm
Roselea Abreu	CMBL	860	5.0	Radio Cadena Suaritos S. A. (Laureano Suarez Valdes)
Sagua La Grande, S. C.....	CMHA	1280	0.25	Abelarde Menocal
Sancta Spiritus	CMHB	1410	0.25	V. E. Weiss y O. Ramirez Isla
Santiago de Cuba.....	CMKN	930	1.0	.....
Santiago de Cuba.....	CMKU	760	1.0	Cambo y Gabriel
Santiago de Cuba.....	CMKW	1000	1.0	Ricardo Miranda Cortes y Raul Souлары Echevarria
Santiago de Cuba.....	CMKC	1250	0.25	Roberto Miguel Gonzalez
Santiago de Cuba.....	CMKR	1090	0.25	Jaime Nadal
Santiago de Cuba.....	COKG	8942	1.2	Emilio Grau Medina
Santiago de Cuba.....	CML-5	15505) 5780) 8630) 6790) 11560) 17260)	0.15	Cuba Transatlantic Radio Corp.
Santiago de Cuba.....	CMKD	1290	1.0	Otto Juan Vinas Gimeno
Santiago de las Vegas, (Habana)	CMBA	1420	0.25	Juan de Dios Carreno y Valdes
San Luis, Oriente.....	CMKQ	1460	0.5	Angela Viciado Quintero
Santa Clara (Las Villas).....	CMHQ	800	10.0	Cambo y Gabriel
Santa Clara (Las Villas).....	CMHN	960	1.0	.....
Santa Clara (Las Villas).....	CMHX	1480	0.25	Francisco Chavarrey Fuster
Santa Clara (Las Villas).....	CMHI	570	15.0	.....
Santa Clara (Las Villas).....	COHI	11765 6455	5.0	.....
Santa Clara (Las Villas).....	CMBM	1450	0.25	Jose Ramon Femenias, Jr.
C. de Manicaragua, Santa Clara (Las Villas).....	CMHW	960	1.0	.....
Trinidad, L. V.....	CMHT	990	0.25	F. E. Soto del Valle
Vedado (Habana)	CMOY	.....	0.25	.....
Vedado (Habana)	CMCO	1230	0.25	Enrique Lasanta Oliver Lessee—Carlos M. Sanchez
Vedado (Habana)	CMBS	1090	1.0	Enrique Artalejo Fernandez
Vedado (Habana)	CMCM	1060	0.25	Compania Transradio Colum- bia, S. A.

STATIONS OF MEXICO

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Acapulco, Gro.	XEKJ	1400	0.25	.....
Agua Prieta, Son.....	.....	610	0.25	(Under construction)
Agua Prieta, Son.....	XERP	1190	50.0	.....
Aguascalientes	XEBI	1360	0.25	Pedro C. Rivas

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Aguascalientes	XELY	1490	0.15	.....
Campeche	XEA	1370	1.0	Luis A. Maury
Cananea, Son.	XEFQ	980	0.5	Ernesto Felix
Cananea, Son.	XESY	1320	0.2	Hector Compoy
Cananea, Son.	.....	1490	0.25	.....
Casas Grandes, Chih.	XETX	1400	0.1	.....
Celaya, Guan.	XENC	1540	0.25	.....
Celaya, Guan.	.....	1090	0.25	.....
Chihuahua	XEFI	1440	1.0	Ramiro G. Uranga
Chihuahua	XEM	1390	0.5	Pedro Meneses, Jr.
Chihuahua	XEBW	1280	0.6	.....
Chihuahua	XEBU	1260	0.1	Feliciano Lopez Islas
Chihuahua	.....	580	0.25	.....
Chilpancingo, Gro.	.....	1300	0.25	.....
Ciudad Camargo, Chih.	XEOH	1270	0.15	.....
Ciudad Delicias	XEJK	1340	0.1	David G. Cervantes
Ciudad Guzman, Jal.	XEBA	1270	0.25	Jose D. Gonzales
Ciudad Juarez, Chih.	XELO	800	150.0	Cia. Radiodifusion de Piedras Negras
Ciudad Juarez, Chih.	XEJ	970	5.0	Pedro Meneses, Jr.
Ciudad Juarez, Chih.	XEP	1300	0.5	Esteban Parra
Ciudad Juarez, Chih.	XEWG	1460	1.0	Carlos Mendez
Ciudad Juarez, Chih.	XEF	1420	0.25	Gilberto Gil
Ciudad Juarez, Chih.	XEFV	1240	0.25	Dario Cordoba
Ciudad Juarez, Chih.	.....	1340	0.25	.....
C. Madero, Tams.	XETR	1490	0.1	Cesar Trujillo Badillo
C. Obregon, Son.	XEAP	1290	0.1	Emilio Manzanilla
C. Obregon, Son.	XEOX	1340	0.25	Felipe G. de Leon
C. Valles, San Luis Potosi	.....	1340	0.1	.....
C. Victoria, Tams.	XEBJ	1450	0.1	Fernando Elizalde
Coatzacoalcos, Veracruz	XEFZ	1340	0.25	Pedro E. Rocher
Colima	XERL	1280	0.25	J. Roberto Levy
Cordoba de Veracruz	XECW	1340	0.25	Juan Sedas M.
Cordoba de Veracruz	XEAG	1280	0.25	Diodoro Zuniga
Cuernavaca, Moreles	XEJC	1420	0.1	.....
Cuernavaca, Moreles	.....	.....	.....	Ing. Juan Gutierrez, Jr.
Cuernavaca, Moreles	XEY	980	0.15	Lucinda Arenas de Meza Millan
Culiacan, Sin.	XESA	1360	0.5	Pablos y Elizalde, S. de R. L.
Culiacan, Sin.	XEBL	1260	0.5	Max Gomez Blanco
Culiacan, Sin.	XEGF	1300	0.1	.....
Durango	XEE	1280	0.25	Alejandro O. Severson, Jr.
Durango	XEDU	1400	0.15	.....
Ensenada, B. C.	XEPF	1400	0.2	Luis Enrique Enciso
Fresnillo, Zac.	XEMA	1340	0.1	Jose M. Acesedo Moya
Gomez Palacio, Dur.	XEMG	1310	0.25	.....
Guadalajara, Jal.	XEJB	1010	5.0	Gobierno del Estado de Jalisco
Guadalajara, Jal.	XEJG	4820	0.2	Jalisco
Guadalajara, Jal.	XEDK	1250	0.5	Salvador Vasquez Tello
Guadalajara, Jal.	.....	760	0.25	.....
Guadalajara, Jal.	XED	680	1.0	Cia. Radiofonografica, S. A.
Guadalajara, Jal.	XEDQ	6155	0.1	.....
Guadalajara, Jal.	XEHL	1370	0.5	Radio Anunciadora Kist, S. de R. L.
Guadalajara, Jal.	XELW	1340	0.25	Salvador Galindo de la Torre
Guadalajara, Jal.	XEHK	960	0.25	Carmen Villasenor
Guadalajara, Jal.	XEAV	580	1.0	Alfredo Vasquez, Cine Alameda
Guadalajara, Jal.	XEAD	1150	0.25	Alejandro A. Diaz
Guadalajara, Jal.	XEXN	1400	0.25	.....
Guanajuato, Guan.	XEJT	570	0.1	.....
Guaymas, Son.	XEDR	1490	0.25	Modesto Ortega
Hermosillo, Son.	XEBH	920	1.0	Carlos Balderrama
Hermosillo, Son.	XEBR	11820	0.15	.....
Hermosillo, Son.	XEDL	1250	0.5	.....

• • • **MEXICO STATIONS** • • •

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Hermosillo, Son.	XEHQ	590	0.3	Jose Sosa
Hermosillo, Son.	XEOP	960	0.5	.....
Hermosillo, Son. ....	.....	1300	0.25	.....
Hidalgo del Parral, Chih.	XEJS	1150	0.5	.....
Hidalgo del Parral, Chih.	XEAT	1250	0.25	Jorge Perez
Hidalgo del Parral, Chih.	XEJR	1490	0.1	Anastasio Gomez Gallardo
Iguala, Gro. ....	.....	1450	0.25	.....
Irapuato, Gto.	XEWE	1420	0.1	Felipe Gallardo
Irapuato, Gto.	XEBO	1330	0.5	Alfonso Martinez
Jalapa de Veracruz.	XEBF	6090	0.25	Pedro Coronel Aburto
Jalapa de Veracruz.	XEKL	550	0.1	Carlos Ferraez Matos
Jalapa de Veracruz.	XEJA	1400	0.25	.....
Jalapa de Veracruz. ....	.....	580	0.35	.....
Jalapa de Veracruz.	XEJW	1490	0.1	.....
La Paz, B. C.	XEPX	550	0.25	.....
Leon de Guanajuato.	XEFM	1270	0.1	Sucs. R. Ortiz Gonzalez
Leon de Guanajuato.	XERZ	1240	0.25	Rafael C. Navarro
Leon de Guanajuato.	XERW	1390	0.1	Rafael C. Navarro
Linares	XER	1260	0.25	Rafael T. Carranza
Los Algodones, B. C. ....	.....	560	0.1	.....
Los Mochis, Sin.	XECF	1410	1.0-D	Francisco Perez H.
			0.5-N	
Magdalena de Sonora.	XEDJ	1450	0.1	Enrique Sorolegui
Matamoros, Tam.	XEO	970	0.75	.....
Matamoros, Tam.	XEXP	1450	0.1	.....
Matamoros, Tam.	XEAM	1400	0.25	Manuel L. Salinas
Mazatlan, Sin.	XERJ	1320	0.5	Oscar Perez E.
Mazatlan, Sin.	XEDS	1420	0.5	Alejandro A. Schober
Mazatlan, Sin. ....	.....	1380	0.25	.....
Merida, Yuc.	XEZ	600	2.0	Jorge L. Palomeque
Merida, Yuc.	XEME	1270	0.5	Perfecto Villamil Cicero
Merida, Yuc.	XEFC	1340	0.25	Julio Molina Font
Merida, Yuc.	XEFK	1450	0.1	Manuel Zapata Espinosa
Merida, Yuc.	XEMQ	1240	0.25	Lazaro Achurra Suarez
Merida, Yuc.	XEMH	1400	0.25	Alvaro Barquet Y.
Mexicali, B. C.	XECL	990	5.0	Alfonso A. Lacarra
Mexicali, B. C.	XEAO	910	0.25	Chavez y Castro, Sucesores
Mexicali, B. C. ....	.....	560	0.25	.....
Mexicali, B. C.	XEAA	1340	0.25	Alberto Gonzalez
Mexico City	XEXA	6175	0.1	Depto. de Publicidad y Propaganda
Mexico City	XEBT	6000	0.5	El Buen Tono S. A.
	XEB	1220	100.0	
Mexico City	XEW	900	100.0	Cadena Radiodifusora
	XEWV	9500	10.0	Mexicana
Mexico City	XEQ	730	150.0	.....
	XEQQ	9680	1.0	.....
Mexico City	XEDP	940	50.0	.....
Mexico City	XEOY	1000	10.0	Ignacio Diaz R.
Mexico City	XEST	1060	50.0	.....
Mexico City	XEBZ	660	0.5	Habenero Piza, S. A.
Mexico City	XELA	830	1.0	.....
Mexico City	XEUZ	6130	0.1	Partido Revolucion Mexicana
	XEFO	1110	20.0	
Mexico City	XEN	690	5.0	Guillermina P. de del Conde
Mexico City	XEYU	9600	0.25	.....
	XEUN	860	5.0	
Mexico City	XEML	1550	1.0	Roberto Valezzi Esparza
Mexico City	XEQR	1030	1.0	Corp. Mexicana de Radio, S.A.
Mexico City	XEQK	1350	1.0	Angel H. Ferreiro
Mexico City	XEDA	1290	1.0	Pedro Riestra Diaz
Mexico City	XEMC	1590	5.0	Delores G. Estrada de F.

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Mexico City	XERC	790	1.0	.....
Mexico City	XELZ	1440	1.0	Maria Cardona de Zetina
Mexico City	XENK	620	5.0	.....
Mexico City	XEPH	590	5.0	Pedro Riestra Diaz
Mexico City	XERH	1500	0.5	.....
Mexico City	XEJP	1150	0.6	Delia Cubillas de Fernandez
Mexico City	XESM	1470	5.0-D	Salvador San Martin
			1.0-N	
Mexico City	XEAI	1320	0.5	Carmen Gutierrez
Mexico City	XEK	970	0.5	Arturo Martinez
Mexico City	XEL	1260	0.75	Ramon Ferrero
Mexico City	XEBS	1410	0.75	Maria Remedios Delgado
Mexico City		1180	0.25	.....
Mexico City	XEMX	1380	0.5	Guillermo Robles
Mexico City	XEOF	560	1.0	.....
Mexico City	XERQ	9610	0.5	Corp. Mexicana de Radio, S.A.
Mexico City	XETT	9555	0.5	Angel H. Ferreiro
Minatitlan, Ver.	XEDW	1260	0.25	Hector Silva Canto
Monterrey, N. L.	XETA	9555	1.0	El Pregonero del Norte, S.A.
	XET	990	5.0	.....
Monterrey, N. L.	XEG	1050	150.0	.....
Monterrey, N. L.	XEH	1420	1.0	Ing. C. de Tarnava, Jr., Luis de Tarnava, Bros.
Monterrey, N. L.	XEFB	630	0.5	Jesus Quintanilla
Monterrey, N. L.	XEMR	1370	0.5	Henrique Serna Martinez
Monterrey, N. L.	XEX	1280	0.5	El Heraldo del Comercio, S.A.
Morelia, Michoacan	XEKW	6030	0.5	Jose Martinez Ramirez
Morelia, Michoacan	XELQ	1270	0.1	Francisco Larios Iturbido
Morelia, Michoacan	XEI	1400	0.25	Carlos Gutierrez (Tiburcio Ponce)
Morelia, Michoacan	XESF	600	0.25	Jose Martinez R.
Naco, Son.	XETM	1350	1.0	Jesus Manuel Franco
Navojoa, Son.	XEGL	1270	0.5	Fausto M. Gomez
Navojoa, Son.	XENJ	1430	0.5	.....
Navojoa, Son.	XEAJ	1400	0.1	Emilio Manzanilla
Nogales, Son.	XEHF	1370	1.0	Gaston Mascarenas
Nogales, Son.		1010	0.25	Ralph Carranza
Nuevo Laredo, Tams.	XEFE	960	1.0	Rafael T. Carranza
Nuevo Laredo, Tams.	XEDF	790	0.5	Ruperto Villarreal
Nuevo Laredo, Tams.	XEBK	1340	0.1	G. Guajardo y J. M. Cortes
Nuevo Laredo, Tams.	XENT	1140	50.0	Cia. Industrial Universal, S.A.
Nuevo Laredo, Tams.	XELF	1380	0.25	.....
Nuevo Laredo, Tams.	XELC	1410	0.25	.....
Nuevo Laredo, Tams.	XELJ	1260	0.25	.....
Nuevo Laredo, Tams.	XELH	1460	0.1	.....
Oaxaca	XEAX	1270	0.5	Alvaro Rodriguez A.
Orizaba, Veracruz	XEOR	580	1.0	.....
Orizaba, Veracruz	XEPP	1450	0.25	Hector Sotomayor
Orizaba, Veracruz	XETQ	1370	0.25	Francisco Campos H.
Piedras Negras, Coah.	XEMU	580	5.0	Cia. Radiodif. Piedras Negras, S. A.
Piedras Negras, Coah.	XEMJ	920	0.2	Jesus F. Elizalde
Progreso, Yuc.	XEOK	1430	0.1	Arturo Pina Perez
Pueblo	XEHR	1090	0.25	Manuel R. Canalo
Pueblo	XECC	6185	0.05	Ricardo Vasquez A.
	XECD	1170	0.35	.....
Queretaro	XEJX	1450	0.25	.....
		1300	0.1	.....
Reynosa, Tams.	XEAW	(1570 1010)	100.0 50.0	Cia. Internacional Reynosa
Reynosa, Tams.	XEAZ	1390	0.25	.....
Reynosa, Tams.	XEKN	1390	0.25	Carlos V. Rodriguez
Reynosa, Tams.	XERT	590	5.0-D 0.25-N	Carlos B. Rodriguez
Rosarito, B. C.	XERB	1090	50.0	Radiodifusora Internacional, S. A.

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Sabinas, Coah.	XEBX	610	0.5	Sucs. Miguel B. Rodriguez
Saltillo, Coah.	XESJ	1250	1.0 D	.....
			0.5-N	.....
		1450	0.1	.....
Saltillo, Coah.	XEKS	1330	0.1	Juan Antonio de la Pena
Saltillo, Coah.	XEDE	1400	0.25	Aurelio G. Zaragoza
Saltillo, Coah.	XEXU	1490	0.1	.....
San Luis Potosi	XECZ	1430	1.0	Zeferino Z. Jimenez
San Luis Potosi	XEBM	1260	0.25	Benjamin Briones
San Luis Potosi	XEXQ	1400	0.1	.....
S. Luis Rio Colorado, Son.	XEIIY	1450	0.25	Lucinda Arenaxde de Maza Millan
Santa Barbara, Chih.	XESB	1400	0.15	.....
Santa Rosalia, B. C.		560	0.1	.....
Tampico, Tams.	XEFW	810	50.0	Messrs. Flores y Martinez
			0.1	.....
	XETW	6045	0.1	.....
Tampico Tams.	XETU	1460	1.0	Juan Perez Cardenas
Tampico, Tams.	XECA	980	1.0	Nicolas M. Picot
Tampico, Tams.	XES	1300	0.25	Difusora Portena S. de R. L.
Tapachula, Chiapas	XETS	630	0.1	Wadley Dominguez Correa
Tapachula, Chiapas	XETA	1450	0.25	.....
Tehuacan, Pue.	XEWJ	1420	0.1	.....
Tepic, Naryit	XEXT	980	1.0	Gobierno del Estado de Nayarit
Tepic, Naryit	XERK	1450	0.1	Dario Mondragon
Texcoco	XEXE	1450	0.1	H. Ayuntamiento
Teziutlan, Puebla	XETZ	1360	0.25	.....
Tijuana	XEBG	1550	1.0	Angel B. Fernandez
Tijuana	XEAC	690	5.0	Jorge I. Rivera
Tijuana	XEMO	860	5.0	Fernando Frederico Ferreira
Tijuana	XEAU	1470	5.0	Manual Acuna Varela
Tijuana	XEGM	950	1.0	Rita Mayans y Gustavo Faist E.
			2.0	Cia. Radiodifusora, S. A.
Tijuana	XEON	1420	2.0	.....
Tijuana		1590	5.0	.....
Tijuana	XEAZ	1270	0.5-N	.....
			5.0-D	.....
Tijuana	XEC	1310	0.25	Luis E. Enciso
Tlaxcala	XEXZ	1480	5.0	.....
Toluca	XEXS	1340	0.1	Instituto Cientifico y Literario
			0.25	Rodolfo Llamas
Torreón, Coah.	XETB	1350	0.5	Sucs. Aurelio G. Zaragoza
Torreón, Coah.	XEDN	600	1.0	Difusoras del Norte, S. A.
Torreón, Coah.	XEBP	1260	0.25	Alejandro O. Stevenson, Jr.
Torreón, Coah.	XEQW	1450	0.25	Maria Refugio A. de Valdiviesco
Torreón, Coah.	XEOB	1490	0.1	Panfilo Gonzales Flores
Tuxpan, Veracruz	XETL	1390	0.25	Calixto Almazan
Tuxtla Gutierrez, Chiapas	XEXJ	1280	0.1	Govt. of the State of Chiapas
Uruapan, Mich.	XEFU	550	0.35	Ignacio Navarro
Veracruz	XEFT	9545	0.25	Jose Rodriguez Lopez
Veracruz	XEUV	6020	0.25	Fernando Pazos Sosa
			0.5	.....
	XEU	960	0.5	.....
Veracruz	XEHV	1310	1.0	Juan A. Palavicini
Veracruz	XETF	1250	0.5	Jose Rodriguez Lopez
Veracruz	XELR	610	0.1	.....
Veracruz	XELL	1430	0.25	.....
Villa Acuna, Coah.	XEDH	1340	0.25	Vicente Hernandez
Villa Acuna, Coah.	XEAB	1600	5.0	.....
Villa Acuna, Coah.	XEAQ	1430	0.1	.....
Villahermoasa		790	0.5	.....
Zacatecas	XELK	1280	0.1	Jose Macias Guerrero (J. M. Acevido)
Zamora, Mich.	XEGC	1450	0.1	Guillermo Calzada
Zamora, Mich.	XEGT	1490	0.25	.....

STATIONS OF CENTRAL AND SOUTH AMERICA

ARGENTINA

Location	Call Letters	Frequency Kcs.	Power Kw.	Owner or Operating Agency
Bahia Blanca	LU3	1150	10.0	Red Argentina de Emisoras Splendid RADES
Bahia Blanca	LU2	900	8.0	Camilio V. Bertorini
Bahia Blanca	LU7	1240	5.0	Filomena Z. de Gennari e Hijos. Belonging to La Primera Cadena Argentina de Broadcasting. (Belgrano Network)
Banfield, B. A.	LS2	1190	15.0	Teodoro Prieto
Buenos Aires	LRV	9640	50.0	Primera Cadena Argentina de Broadcasting
Buenos Aires	LRS1	6090	25.0	Red Argentina de Emisoras Splendid RADES
	LRS	9590	25.0	
Catamarca	LW7	730	1.5	Red Argentina de Emisoras Splendid RADES
Catamarca	LV15	1360	0.5	Station Projected for some future time.
Ciudadela, B. A.	LS4	670	15.0	Juan G. Gonzalez Speroni
Ciudadela, B. A.	LS6	1350	6.0	Ricardo A. Bernotti
Comodoro Rivadavia	LU4	640	5.0	Red Argentina de Emisoras Splendid RADES Network
Cordoba	LV3	620	25.0	Alberto P. Brouard. Belonging to La Primera Cadena Argentina de Broadcasting. (Belgrano Network)
Cordoba	LV2	960	10.0	Luis Maunier (El Mundo Network)
Cordoba	LV8	1540	.25	Station projected for some future time
Cordoba	LW1	790	18.0	Red Argentina de Emisoras Splendid RADES
Corrientes	LT7	1340	1.0	Gobierno Prov. Corrientes—Belonging to La Primera Cadena Argentina de Broadcasting (Belgrano Network)
Florida, B. A.	LR2	910	6.0	Alfredo Schroeder
Florida, B. A.	LS10	590	6.0	Victor J. Ruano
Florida, B. A.	LR9	1030	4.0	Gregorio Echavarria
General Pacheco, B. A.	LRA	750	10.0	Direccion General de Correos Telegrafos
	LRA1	9690	7.0	
	LRA5	17830		
	LRA3	11730	.2	
Hurlingham, B. A.	LR6	870	25.0	S. A. La Nacion
Hurlingham, B. A.	LR3	950	90.0	Jaime Yankelevich. Belonging to La Primera Cadena Argentina de Broadcasting
Jujuy	LV13	1430	5.0	Belonging to La Primera Cadena Argentina de Broadcasting

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<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Mar del Plata.....	LU6	1300	0.5	Jose Zaccagnini
Mendoza	LV10	1210	5.0	Marcelino Aparicio. Belonging to La Primera Cadena Argentina de Broadcasting (Was El Mundo Network)
Mendoza	LV6	630	10.0	Red Argentina de Emisoras Splendid RADES
Mendoza	LRM	6180	10.0	Under construction
Mendoza	LV16	1520	.25	Under construction
Monte Grande, B. A.....	LS1	710	50.0	Municipalidad de la Capital
Monte Grande, B. A.....	LR5	830	25.0	Alfredo B. Dougall
Necochea	LU9	1440	0.5	Projected for some future time
Neuquen	LU5	1130	1.5	Red Argentina de Emisoras Splendid RADES Network
Neuquen	LU11	1370	0.5	Projected for some future time
Parana	LT11	1470	0.5	Projected for some future time
Plata (La)	LR11	1390	1.5	Universidad Nacional de la Plata
Plata (La)	LS11	1319	30.0	Gobierno Prov. B. Aires — Pasaje Dardo Rocha
Posadas	LT4	1010	1.5	Red Argentina de Emisoras Splendid RADES
Posadas (Misiones)	LT6	1460	0.5	Projected for some future time
Resistencia, Chaco	LT5	1080	5.0	Jose M. Noveri (El Mundo Network)
Rio Gallegos	LU12	680	1.5	Cia. Broadcasting de la Patagonia. Red Argentina de Emisoras Splendid RADES Network
Rivadavia, B. A.....	LR4	990	50.0	Antonio C. Devoto. Red Argentina de Emisoras Splendid RADES
Rivadavia, B. A.....	LS5	1110	5.0	Enrique Carido
Rosario, Santa Fe.....	LT1	780	20.0	Fernando Maliandi. Belonging La Primera Cadena Argentina de Broadcasting (Belgrano Network)
Rosario, Santa Fe.....	LT3	1160	10.0	Soc. Rural Cerealistas. (El Mundo Network)
Rosario, Santa Fe.....	LT8	840	3.0	Alfredo B. Dougall (Excelsior Network)
Rosario, Santa Fe.....	LT2	1230	18.0	Red Argentina de Emisoras Splendid RADES
Rosario, Santa Fe.....	LRR	11880	10.0	Joaguin Lagos
Salta	LV9	970	1.0	Gobierno Prov. Salta (El Mundo Network)
San Fernando, B. A.....	LR1	1070	50.0	Empresa Editorial
	LRU	15290	25.0	Haynes Ltda., S. A.
	LRX	9660	25.0	
San Juan	LV1	560	10.0	S. A. Graffigna, Ltda. Belonging to La Primera Cadena Argentina de Broadcasting (Belgrano Network)
San Juan	LV5	1090	5.0	Soc. C. Rodriguez Vila y Cia. (El Mundo Network)

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
San Rafael, Mendoza.....	LV4	690	.5	Julio Silva—Belonging to La Primera Cadena de Argentina de Broadcasting. (Belgrano Network)
Santa Fe	LT10	1320	.5	Radio del Inst. Social de la Universidad, Litoral
Santa Fe	LT9	1200	5.0	Roca Hermanos y Cia. (El Mundo Network)
Santa Fe	LT12	1260	1.0	Projected
Santa Rosa, Pampa Central...	LU8	1250	0.5	Projected
Santiago del Estero.....	LV11	1170	2.0	S. A. El Liberal. Belonging to La Primera Cadena Argentina de Broadcasting (Belgrano Network)
Tacuman	LV12	580	8.0	Soc. Resp. Ltda. Radio Aconquija. Belonging to La Primera Cadena Argentina de Broadcasting (Belgrano Network)
Tacuman	LV7	820	2.5	Gonzale Acha y Munoz. (El Mundo Network)
Vicente Lopez, B. A.....	LS9	1270	6.0	S. A. La Voz del Aire

BOLIVIA

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Cochabamba	CP28	1360	0.150	Gottret y Cia.
	CP40	9570	0.25	
Cochabamba	CP44	580	0.05	Victor Veltze
Cochabamba	CP45	1090	0.05	Raul Montecinos
Cochabamba	CP39	6160	0.25	.....
La Paz	CP3	1380	1.0	Costas Hermanos
	CP38	9505	1.0	
La Paz	CP4	1040	0.25	Dept. of Communications of Bolivian Govt.
	CP5	6200	1.0	
La Paz	CP8	1450	0.05	Sejas and Company
La Paz	CP10	1090	0.25	Chavez Suarez
La Paz	CP12	6150	0.25	Jesuit School
	CP29	1350		
La Paz	CP16	1230	0.2	.....
La Paz	CP18	1300	0.05	.....
La Paz	CP15	1250	0.05	Javier Romero (Sociedad Anonima-Radio la Noche)
La Paz	CP26	1510	0.05	.....
La Paz	CP31	975	0.05	.....
La Paz	CP46	770	0.05	.....
La Paz	CP19	950	0.05	Agustin Aspiazu
La Paz	CP20	940	1.0	Ramon Pelaez
	CP15	5880	1.0	
La Paz	CP32	620	0.05	Cia. Internacional de Radio Bolivia (Juan C. Salinas)
La Paz	CP34	680	0.15	Guillermo Teran
	CP25	9700	0.25	
Oruro	CP36	1420	0.05	Enrique Wanting
Oruro	CP11	6100	0.25	Dept. of Communications of Bolivian Government
Oruro	CP37	6170	0.25	Blanco Linares
Oruro	CP18	900	0.25	Ramon Pelaez
Potosi	CP22	6130	0.25	L. Comacho
Potosi	CP17	1600	0.05	Alfredo Ossio L.
Santa Cruz	CP13	6135	0.25	Dept. of Communications of Bolivian Government
Sucre	CP27	1420	0.05	C. Torres
Sucre	CP1	9500	0.25	Jose Comacho B.
Tarija	CP23	6190	0.75

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BRAZIL

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Aracaju, Sergipe	PRJ6	630	1.0	Edificio do Instituto Historico e Geografico
Aracatuba, Sao Paulo.....	PR18	1460	0.5	.....
Araguari, Minas Gerais.....	PRJ3	970	0.25	Praca Manoel Bonito
Araraquara, Sao Paulo.....	PRD4	1370	0.5	Romulo Lupo
Assis, Sao Paulo.....	ZYA9	1550	0.1	.....
Barretos, Sao Paulo.....	PRJ8	1530	0.1 N 0.25 D	.....
Bauru	PRG8	1210	0.25	B. Radio Club Joao Simonetti
Belem, Para	PRC5	1450	2.0	Roberto Camelier
		4865		
Bello Horizonte	PRC7	690	3.0	Dr. Alberto Deodato
Bello Horizonte	PRH6	1340	3.0	Lauro Souza Barros
Bello Horizonte	PR13	880	25.0	Luis Bessa
Blumenau, Santa Catarina...	PRC4	1330	0.25	Joao Medeiros, Jr.
Botucatu, Sao Paulo.....	PRF8	1530	0.1	Emilio Pedute
Cambara, Parana	ZYA3	1590	0.1	.....
Campinas, Sao Paulo.....	PRC9	1170	0.5	Antonio Tepedino Pagano
Campos, Rio de Janeiro.....	PRF7	1330	0.5	Dr. Mario Ferrez Sampaio
Campo Grande, Mato Grosso	PR17	1510	0.1	Dr. Antonio Alvez Campos
Caxambu, Minas Gerais.....	ZYC2	1550	0.1	.....
Corumba, Mato Grosso.....	ZYA2	1470	0.5	Teodomiro Serra
Cruzeiro, Sao Paulo.....	PRG6	640	0.5	Romoaldo Canevari
Curityba, Parana	PRB2	1440	5.0	Eppaminondas Santos
Formiga, Minas Gerais.....	ZBY6	1530	0.1	.....
Fortaleza, Ceara	PRE9	1320	2.0	Waldemar Cartolano
		6105	2.0	
		15165		
Franca, Sao Paulo	PRB5	1240	0.25	.....
Goiania, Goiaz	ZYG3	930	2.0	.....
Itapetininga, Sao Paulo.....	PRD9	970	0.25	.....
Itarare, Sao Paulo.....	ZYA7	1550	0.1	.....
Jaboticabal, Sao Paulo.....	PRG4	1250	0.25	Oswaldo Fernandes
Jau, Sao Paulo.....	PRG7	1010	0.25	Ulisses Newton Ferreira
Joao Pessoa, Paraiba	PR14	1110	10.0	Dr. Abelardo Juruema
Joinville, Santa Catarina....	ZYA5	1600	0.1	.....
Juiz de Fora, Minas Gerais...	PRB3	1010	0.5	Pedro Goncalves de Oliveira
Limeira, Sao Paulo.....	PRJ5	1550	0.1	Ary Levy Pereira
Lins, Sao Paulo.....	ZBY	1550	0.1	.....
Manaos, Amazonas	PRF6	4895	0.1	Dr. V. Pareto Neto
Marapicu, Rio de Janeiro....	PRF5	9500	12.0	.....
		9600		
		15190		
	PSH	10220	15.0	
	PSE	14935		
	PSF	14690		
	PSL	9755		
Marilia, Sao Paulo.....	PR12	1090	0.5	Oscar de Moraes Barros
Natal, Rio Grande do Norte...	ZBY5	1270	1.0	.....
Niteroi, Rio de Janeiro.....	PRD8	1320	1.0	Jose Augusto Mendes Tte. Custodio Fontes
Niteroi, Rio de Janeiro.....	PRE6	1470	1.0	.....
Paranagua, Parana	ZYC5	1460	0.25	.....
Parnaiba, Piauhy	PRJ	1470	0.5	Dr. Joao Tavares de Carvalho y Silvo
Patos, Minas Gerais.....	ZYB4	1530	0.1	.....
Pelotas, Rio Grande do Sul...	PRC3	580	0.25	Carlos G. Sica
Pelotas, Rio Grande do Sul...	PRH4	1320	0.5	Atakualpa Dias
Petropolis, Rio de Janeiro...	PRD3	1480	1.0	Carlos Rodrigues Viana
Piracicaba, Sao Paulo.....	PRD6	820	0.25	Joao Sampaio Goes

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Pocos de Caldas, Minas Gerais	PRH5	1160	0.25	
Ponta Grossa	PRJ2	1250	0.25	Benedito Meira Borges
Porto Alegre, Rio Grande do Sul	PRH2	600	25.0	Manoel Machuca Messrs. Antonio Florese Cunha & Arnaldo Balve
Porto Alegre, Rio Grande do Sul	PRF9	640	5.0	Arthur Pizoli
Porto Alegre, Rio Grande do Sul	PRC2	680	5.0	Dr. Lelis Espartel
Pouso Alegre, Minas Gerais	PRJ7	1530	0.1	Jose Nunes Rebello
Presidente, Prudente Sao Paulo	PR15	970	0.25	Manoel Bussacos
Recife, Pernambuco	PRA8	720 6012	25.0 5.0	Oscar Moreira Pinto
Ribeirao Preto, Sao Paulo	PRA7	730	0.5	Jose da Silva Bueno
Ribeirao Preto, Sao Paulo	PRH7	1170	—	Lonzada Bueno
Rio Clara, Sao Paulo	PRF2	1460	0.25	Waldemar Cartolano
Rio de Janeiro	PRA2	800	25.0	Ministerio de Educacao e Saude
Rio de Janeiro	PRA3	860	10.0	Dr. Rolpho Estevan de Siquerira
Rio de Janeiro	PRA9	1220	25.0	Edmar Machado
Rio de Janeiro	PRB7	900) 6200) 9610) 15370)	5.0 25.0	Alceu Mario de Sa Freire
Rio de Janeiro	PRC3	1360	5.0	Guilherme Manes
Rio de Janeiro	PRD3	1060	10.0	Mario Villaca Meyer
Rio de Janeiro	PRD3	1400	1.0	Francisco Gomes Maciel Pinheiro
Rio de Janeiro	PRE2	1430	10.0	Dr. Placido de Melo
Rio de Janeiro	PRE3	1180	10.0	Dr. Elisio Dantas
Rio de Janeiro	PRE8	980	25.0	Dr. Gilberto de Andrade
Rio de Janeiro	PRF4	940	10.0	Ernesto Pereira Carneiro
Rio de Janeiro	PRG3	1280	10.0	Dr. Teofilo de Barros
Rio de Janeiro	PRL9	17850	50.0	Brazilian Govt. (RCA "Good Will" Broadcasting Station)
	PRL8	11720		
	PRL7	9505		
Rio de Janeiro	PRH8	1130	5.0	Francisco Xavier Filho
Rio Grande, Rio Grande do Sul	ZYC3	1510	0.1	
Rio Preto, Sao Paulo	PRB8	640	0.25	Andrassy Ribeiro
Santos, Sao Paulo	PRB4	1450	1.0	Hermengildo da Rocha Brito
Santos, Sao Paulo	PRG5	580	0.75	Carlos Baccarat
Sao Carlos, Sao Paulo	ZYA6	1590	0.1	
Sao Luiz, Maranhao	PRJ9	1490	5.0	Jose Ribamar Pinheiro
S. Manoel, Sao Paulo	PRI6	1510	0.1	Vitorino Riberro
Sao Paulo, Sao Paulo	PRB9	1000	25.0	Dr. Paulo Machado de Carvalho
Sao Paulo, Sao Paulo	PRE7	1410	5.0	Dr. Joao Ferreira Fontes
Sao Paulo, Sao Paulo	PRF3	960	5.0	Dr. Ubiratan Silveira Pampalona
Sao Paulo, Sao Paulo	PRG2	1040	25.0	Dr. Antonio Herman Dias Menezes
Sao Paulo, Sao Paulo	PRG9	1100	25.0	Mons. Dr. Francisco Bastos
Sao Paulo, Sao Paulo	PRH3	620	5.0	Pedro de Camargo
Sao Paulo, Sao Paulo	PRH9	840	5.0	Jose Niccolini
Sao Paulo, Sao Paulo	PRA5	1260	5.0	Joao Baptista do Amaral
Sao Paulo, Sao Paulo	PRA6	890	10.0	Arnaldo Lopes
Sao Paulo, Sao Paulo	PRB6	1200	10.0	Oscar P. Seckles
Sao Paulo, Sao Paulo	PRE4	1300	5.0	Olavo C. Fontoura

• • • **SOUTH AMERICAN STATIONS** • • •

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Sao Paulo, Sao Paulo.....	ZYB7)	6095	25.0	.....
	ZYB8)	11765		
	ZYB9)	15155		
Sao Salvador, Baia.....	PRA4	740	10.0	Dr. Armando Carneiro da Rocha
Sao Sebastiao de Paraiso, Minas Gerais	ZYA4	1510	0.1	.....
Sorocaba, Sao Paulo.....	PRD7	1080	0.5	Orlanda da Silva Freitas
Taubate, Sao Paulo.....	ZYA8	1590	0.1	.....
Uberaba, Minas Gerais	PRE5	1390	0.5	Quintiliano Jardim
Uberlandia, Minas Gerais....	PRC6	1510	0.1	Aristides Figueiredo
Varginha, Minas Gerais	ZYB2	1590	0.1	.....
Victoria, Espirito Santo.....	PR19	1350	1.0	Dr. Ciro Vieira da Cunha

CHILE

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Antofagasta	CA141	1410	1.350	Angel Garcia Agra
Antofagasta	CA127	1270	.25	Horus Pedreny Palma
Chillan	CC138	1330	.15	Adriana Pagueguy de Logos
Chillan	CC127	1270	.1	Rafael Barrios
Concepcion	CC141	1410	1.4	Arturo Sandoval Munita
Concepcion	CC117	1170	1.8	Federico Sanchez Urra
Concepcion	CC64	640	1.0	Mario Saez Lagos
Coquimbo	CA96	960	.4	Cesar Nieme Apey
Curico, Talca	CC96	960	.25	Alberto Guerra Cruzat
Iquique	CA63	630	.25	Antonio Cajiao
Los Angeles	CD121	1200	1.3	Sociedad de Broadcasting, Soc. Nacional de Agricultura y Cia., Ltda.
Osorno, Valdivia	CD84	840	1.5	David Arrigada
Puerto Montt	CD101	1010	1.0	Cia. Chilena de Comunicaciones, S. A.
Punta Arenas	CD103	1030	0.1	Ramon Verde Ramos
Punta Arenas	CD111	1110	1.25	Turina y Cia.
Punta Arenas	CD113	1130	1.0	Jorge Vial A.
Punta Arenas	CD136	1360	.1	Sra. Victoria Iglesias de Biancilla
Quillota	CB113	1130	1.0	Leopolda Girando G.
Rancagua	CC63	630	1.0	Manuel Massoni
Rancagua	CC109	1090	1.2	Jorge Romero Ramirez
Rancagua	CC145	1450	.1	Alan Rojas
S. Antonio, Puerto Viejo.....	CB140	1400	.1	Soc. Radiodifusora Onda Azul, Ltda.
Santiago de Chile.....	CB62	620	1.0	International Machinery Co.
Santiago de Chile.....	CB57	570	7.5	Soc. Nacional de Agricultura y Cia., Ltda.
	CE1180	11980	1.0	
	CE8AA	2870	0.5	
		5750		
Santiago de Chile.....	CB76	760	14.0	Cia. Chilena de Comunicaciones, S. A.
Santiago de Chile.....	CB89	890	1.0	Carlos Bricono Olivares
Santiago de Chile.....	CB97	970	1.0	Pinochet, Goyeneche y Cia., Ltda.
Santiago de Chile.....	CB101	1010	1.2	Heriberto Bewais Arenas
La Cisterna, Santiago de Chile	CB106	1060	10.0	Manuel Casablanca Latorre
Santiago de Chile.....	CB126	1260	10.0	Soc. Chilena Radiodifusora, S. A.
Santiago de Chile.....	CE960	9600	1.25	Horacio Hevia Labbe
	CB130	1300	2.5	

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Santiago de Chile.....	CB134	1340	3.0	German Holtheuer Valdivia
Santiago de Chile.....	CB138	1380	5.0	Luis F. Brain
Santiago de Chile.....	CB70	700	2.5	Soc. Silva Blanco y Cia., Ltda.
Santiago de Chile.....	CB144B	1440	2.0	Clark Hnos.
Cvalle (Santiago de Chile).....	CB144C	1440	.1	Oscar Moraga Fuenzalida
Santiago de Chile.....	CB1170	11700	.3	Otto Becker Ltda.
Santiago de Chile.....	CB93	930	1.0	Soc. Olandini y Raggio Ltda.
	CE1174	11740	4.0	
Santiago de Chile.....	CB82	820	5.0	Ricardo Vivado O.
Santiago de Chile.....	CB66	660	15.0	Cia. Radio Chilena
Talca	CB67	670	.15	Ramon Abasolo
Talcahuano, Concepcion	CC84	840	2.5	Francisco Morales Castillo
Temuco, Cautin	CD125	1250	2.0	Cia. Chilena de Comunicaciones, S. A.
Temuco, Cautin	CD69	690	1.2	Daniel de Mayo Levy
Tocapilla	CA90	900	1.0	Hilda Cuellar Alfaro de Yaesta
Valdivia	CD59	590	1.2	Cia. Chilena de Comunicaciones
Valdivia	CD132	1320	1.0	Carlos Cockbaine R.
Vina del Mar.....	CB64	640	1.6	Adriano Iz. de Reyes
Vina del Mar.....	CB68	680	1.0	Renard y Garcia Tello Ltda.
Vina del Mar.....	CB111	1110	1.2	Joaquin Venegas
Valparaiso	CB147	1470	4.0	Fundacion Santa Maria
Valparaiso	CE970	9700	7.5	Cia. Chilena de Comunicaciones, S. A.
	CB103	1030	10.0	
Valparaiso	CB90	900	1.0	Soc. de Broadcasting, Soc. Nacional de Agricultura y Cia., Ltda.
Valparaiso	CB116	1160	1.25	Patricio Edwards Linares
Valparaiso	CB120	1200	1.5	Angel I. Prieto Andreas
Valparaiso	CB124	1240	.1	Ramon y Fernando Garcia y Cia.
Valparaiso	CB132	1320	1.2	Wallace y Cia.

COLOMBIA

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Aguadas, Caldas	HJFJ	1500	.025	Roberto Florez (Cultural)
Armenia, Caldas	HJFI	1540	1.5	Pregones del Quindio Ltda.
Armenia, Caldas	HJFH	4875	.75	Braulio Botero Londono
	HJFM	1210	1.0	
Armenia, Caldas	HJFG	1245	.5	Alfonso Toro V.
Barranquilla	HJAA	1330	.5	Alfonso Rosales Navarro
Barranquilla	HJAG	4905	1.0	Emisora Atlantico, S. A.
	HJAH	1050	1.0	
Barranquilla	HJAI	1370	.25	Julian Melendez
Barranquilla	HJAK	1310	.5	Vassallo Hijos and Mendez
Barranquilla	HJAN	1190	1.0	Eliecer Velasco (Emisoras Unidas Ltda.)
	HJAB	4785	2.5	
Barranquilla	HJAT	1275	1.0	Delfina v. de Haayen
Barranquilla	HJAS	1500	.6	Miguel A. Ruiz
Barranquilla	HJAJ	1220	.5	Julio Balderrama
Bogota	HJCB	1105	1.0	Colombia Broadcasting, S. A.
	HJCD	6160	10.0	
Bogota	HJCC	870	5.0	Gustavo Uribe Th.
	HJCE	1220	1.0	
	HJCF	6073	.75	
Bogota	HJCG	1060	1.0	Luis E. Bernal
Bogota	HJCJ	1380	.2	Manuel J. Gaitan
	HJCJ	1380	.12	
Bogota	HJCK	1290	.5	Jorge Anez
Bogota	HJCM	970	.5	Roberto Ramirez
Bogota	HJCN	1335	.5	Roberto Laignelet

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Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Bogota	HJCO	1160	1.0	Jesus M. Garcia
Bogota	HJCW	4945	.75	Ministeri ode Economia Nat'l. (Cul.)
	HJCQ	4955	.5	
Bogota	HJCR	1200	5.0	Ministerio de Educacion (Co- lombian Gov't)
	HJCT	6260	2.5	
Bogota	HJCY	1460	.35	Cristobal Paez G. y Via. Ltda.
	HJCU	720	5.0	
	HJCA	4855	1.0	
Bogota	HJCX	6018	.75	Cipriano Rios Hoyos
	HJCZ	1040	2.5	
Bogota	HJCS	920	50.0	Jose Vincente Arias
Bogota	HJCH	810	2.0	Manuel J. Gaitan
	HJCH	810	.35	
	HJCI	4895	1.0	
Bucaramanga	HJGE	1130	1.0	Gustavo Sorzano Jimenez
Bucaramanga	HJGB	4775	2.5	Francisco A. Bueno
	HJGK	1280	.5	
Bucaramanga	HJGN	1360	1.0	Francisco A. Bueno
Buenaventura	HJES	1525	.07	Heriberto Quintero Sociedad Radio Andagoya Ltda.
Buenaventura	HJEW	1355	.25	Jorge E. Berrio
Buga	HJEI	1410	.1	Hernando Bueno
Buga	HJEP	1485	.5	Jorge Ortiz Marquez
Cali	HJEB	1150	1.0	Eduardo Cordoba
	HJED	4825	1.0	
Cali	HJEC	1300	.5	Rafael Angulo
Cali	HJEE	1090	.5	Jose T. Calderon N.
Cali	HJEF	1340	.5	Hernando Bueno
Cali	HJEL	1260	.5	Cesar Mendoza Mazuera
	HJER	1395	.5	
	HJEX	4865	2.5	
Cali	HJEN	1370	.5	Alfonso Mesa Vargas
Cali	HJEM	1510	.5	Arturo Salazar
Cartagena	HJAE	4965	.6	Laboratorios Fuentes, S. A.
	HJAF	1240	.36	
Cartagena	HJAP	4925	.75	Lequerica Hermanos
	HJAR	1400	.3	
Cartago, alle del Cauca	HJEO	1230	.5	Daniel Dosman
Cienaga, Magdalena	HJBE	1460	.25	Elvira de Pereira
Cucuta, Norte de Santander	HJBB	4815	1.5	Pompilio Sanchez
	HJBC	1270	1.0	
Girardot, Cundinamarca	HJCL	1460	.5	Carlos J Sanchez G.
Girardot, Cundinamarca	HJCV	1430	.1	Antonio Useche R.
Ibague	HJFC	1500	.1	Vicente Gaitan Rondon
Ibague	HJFL	1440	.25	Luis E. Martinez
Ibague	HJFP	1550	.075	Mario Cadavid
Libano, Tolima	HJFO	1520	.05	Hector Enrique Giraldo
Magangue, Bolivar	HJAC	1420	.1	Manuel Agustin Varela
Manizales	HJFB	6105	1.0	Francisco Jaramillio Alberto Hoyos A. (Director)
	HJFD	1390	1.0	
Manizales	HJFX	600	1.0	Antonio Pinzon H.
Medellin	HJDA	1285	.5	Humberto Restrepo A.
Medellin	HJDC	1360	.6	Francisco Cuartas
	HJDX	4795	.6	
Medellin	HJDE	6145	10.0	Luis Ramos
	HJDK	1250	.75	Cia Colombiana de Radio- difusion
Medellin	HJDL	1480	.5	Jaime Tobon R.
Medellin	HJDM	1520	1.0	
Medellin	HJDQ	1320	.75	Fernando Restrepo Alvarez
	HJDP	4885	2.5	(owner) Jesus Munoz Cano

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Medellin	HJDR	1380	.3	Ramirez & Cia. Ltda.
Medellin	HJDT	1150	.25	Alfonso Jaramillo, Hernando Tellez B., Jaime Garcia L.
Medellin	HJDU	1490	.25	Universidad de Antioquia
Monteria	HJAL	1465	.5	Julio Cesar Patino
Monteria	HJAM	1210	.251	Julio A. Sanchez
Neiva	HJFN	1420	.1	Heliadora Tamayo
Ocana	HJBF	1525	.1	Luis Linero
Palmira, Valle	HJEJ	1460	.5	Rafael Angulo
Palmira, Valle	HJEQ	1180	.5	Regulo Benitez
Pamplona, Norte de Santander	HJBA	1400	.1	Gonzalo Vargas
Pasto	HJHA	1350	.35	Sociedad Radio Narino, Senora Elisa de Pesantes, owner
Pasto	HJHB	1170	.5	Hernando Bueno
Pereira	HJFA	6054.3	.75	Cesar & Mario Arango M.
	HJFE	1470	.499	
Pereira	HJFK	6097	2.5	Antonio J. Giraldo C. & Son
	HJFF	1350	1.0	(Oscar Giraldo Arango)
Pereira	HJFQ	1120	.5	Marceliano Ossa M.
Popayan	HJEA	1500	.8	Jesus Hernando Hormaza B.
Popayan	HJEG	1450	.3	Mercedes M. de Valencia (owner), Carlos Valencia Mosquero (Mgr.)
Quibdo	HJDG	4805	.5	Intendencia del Choco Cultural
Santa Marta	HJBH	1410	.5	Manuel C. Conde
Santa Marta	HJBJ	1140	.5	Julio A. Sanchez
Santander, Cauca	HJEH	1550	.025	Escuela Rafael Tello
Sevilla, Valle	HJET	1510	.25	Daniel Benitez
Tocaima, Cundinamarca	HJCP	1530	.25	Ruperto Aguilera Leon. (Presbyter & Parson of Tocaima)
Tulua, Valle de Cauca	HJEK	1430	.1	Eduardo Gardezabal
Tunja, Boyaca	HJGA	1425	.25	Pedro Martinez

ECUADOR

Ambato	HC1VT	6550	0.1	I. Municipio de Ambato
Cuenca	HC1AO	4200	.15	Octavio Espinosa and Jose Heredia Crespo
Cuenca	HC1CC	7461	.004	Comunidad Salesiana
Guayaquil	HC2CW	950	.025	Alfonso Wilmot
Guayaquil	HC2OAD	9400	0.2	Odalia Aruz de Garcia
		900	0.2	
Guayaquil	HC2AJ)	1050	1.0	Luis Alcivar Elizalde
	HC2AK)	9310	1.0	
Guayaquil	HC2JSB	1260	0.2	Rafael Cuellos
		7854	0.3	
Guayaquil	HC2RB	1250	0.1	Eric Williams
Guayaquil	HC2ET	9200	0.3	Jose Santiago Castillo
		1131	0.1	
Guayaquil	HC2AU	1350	0.2	Augusto Alvarado Olea.
Guayaquil	HC2RL	6645	0.2	Roberto Levy
Guayaquil	HC2AN	1600	0.15	Washington Delgado Cepeda
Guayaquil	HC2AQ	1450	0.25	Riboberto Ortiz Vermeo
Ibarra	HC1IM	4020	0.3	I. Municipio de Ibarra
Loja	HC3SC	6700	0.3	F. Montero Carrison
Portoviejo	HCJB4	3645	0.05	Clarence W. Jones
Quito	HCJB	12455)	10.0	Clarence W. Jones, Manager.
		9958)		Owner — World Missionary
		7285)		Radio Fellowship, Inc.
		4108)	0.2	
		974)		
		1018		

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Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
		28040)	1.0	
		7068)		
		14200)		
		27850)	0.2	
			1.0	
			1.0	
			.025	
Quito	HC1PM	5725	0.15	Leonardo Ponce
Quito	HCQR)	1330	0.3	Carlos Mantilla, Empresa Editora "El Comercio"
	HCQRX)	5970	0.3	
		3710		
Quito	HC1GQ	9163	0.15	Ferrocarril del Sur
		3710	0.08	
Quito	HCBT	1304	0.3	Sr. Cesar Mantilla
	HCBS	9350	0.3	
Quito	HCK	5885	0.3	
Quito	HC1GP	7874.6	0.2	(Prop.) Miguel Angel Gonzalez Paez (Dir.) Padre Elias Brito
Quito	HC1BF	7265	0.3	Adriano Jaramillo
	HC1BD	1111	0.2	
Quito	HC1AB	6400	0.2	Spanish Falangist (Mgr.) Enrique Arroyo (Francisco Simon)
	HC1AC	1600		
Quito	HC1AD	1410	0.25	Cia. Interandina de Broadcasting (Mgr.) Vicente Ordonez Pallares
Quito	HC1CT	3700	0.2	Escuela Central Tecnica
Riobamba	PRADO	6618	0.5	

PARAGUAY

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Asuncion	ZPA1	6010	3.0	Estacion Oficial de Gobierno del Paraguay (Govt. Station)
Asuncion	ZP4	730	0.1	Isern & Scarello
	ZP8	11850	0.1	
Asuncion	ZP6	1300	0.1	Emilio Jordan Livieres
Asuncion	ZP9	970	0.8	Atilio Bajac
Asuncion	ZP10	1330	0.1	Victor Noriega
Asuncion	ZP11	1200	0.3	Juventus Antoniana
Asuncion	ZP13	1430	0.1	Julio Picossi Villagra
Asuncion	ZP17	1030	0.1	Jose Hanemann
Asuncion	ZPA2	11721	0.7	Teleco Paraguaya, S. A.
	ZP3	700	10.0	
Encarnacion	ZP5	920	5.0	Philips Argentina, S. A.
	ZPA5	11950	2.5	
Villarica, Guaira	ZP14	11721	1.0	Friedmann Hermanos
		11725		
	ZP15	700	0.2	
Villarica, Guaira	ZP6	1300	0.1	Emilio Jordan Livieres

PERU

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Arequipa	OAX6B	6035	0.15	Maximo J. Landa
Arequipa	OAX6C	1370	0.3	J. Antonio Umbert
	OAX6E	6055	0.3	
Arequipa	OAX6A	6050	0.25	Jorge E. Olazabol

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Callao	OAX4C	1160	0.3	Sociedad Comercial Urtega y Couralegui
Chiclayo	OAX1A	6150	0.2	J. Carlos Montjoy
Cuzco	OAX7A	6128	0.1	Carlos Lizarraga
Huancayo	OAX4P	6020	0.25	Alfredo Elejalde Granados
Huanuco	OAX3A	6115	0.35	Victor Priano
Ica	OAX5B	1460	0.2	Luis de los Heros
	OAX5C	9590	0.15	
Lima	OAX4H	6095	1.0	Ronald & Cia.
	OAX4F	1080	0.25	
Lima	OAX4B	1200	0.25	Bolivar & Carcovich
	OAX4G	6190	0.25	
Lima	OAX4Z	6082	15.0	Government of Peru
	OAX4A	854	10.0	
	OAX4T	9562	10.0	
	OAX4R	15150	15.0	
Lima	OAX4E	960	0.2	Juan Pablo Goicochea
	OAX4K	9545	0.25	
Lima	OAX4I	1320	0.25	Antonio Vasquez
	OAX4J	9520	0.2	
Lima	OAX4L	1250	0.3	Clemeaite Palma
Lima	OAX4V	5990	1.5	Cia. Peruana de Radiodifusion, S. A.
	OAX4W	9490	1.5	
	OAX4U	1030	5.0	
Trujillo	OAX2A	6000	0.25	Rafael Larco Herrera

URUGUAY

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Canelones	CW47	1470	0.3	Julio J. Rabassa
Carmelo, Colonia	CW7	640	.325	Alberto Pablo Brouard
Colonia	CW1	550	4.5	Raul Montellano and Ricardo Bernetti
Colonia	CXA8	11840	3.0	Jamie Yankelevich
Durazno	CW25	1430	0.5	Artola, Evangelisti y Cia.
Florida, Montevideo	CW3	580	0.3	Diario Rural, S. A.
Florida, Montevideo	CW33	1200	.075	Omar F. Barreiro
Maldonado	CW51	1560	0.5	Hector Lamaison
Melo, Cerro Largo	CW47B	1510	0.1	Jose Fernandez Eiriz
Melo, Cerro Largo	CW53	1580	0.25	Ruben D. Lucas
Minas	CW43	1420	0.5	Juan R. Volante
Montevideo	CX34	1210	1.0	A. Canepa y Cia.
Montevideo	CX26	1050	5.0	A. Canepa y Cia.
Montevideo	CX50	1530	0.5	Bernardino Ayala
Montevideo	CX20	930	0.3	Dr. Carlos L. Romay
Montevideo	CX32	1170	0.520	Cia. Uruguaya de Publicidad, S. A.
Montevideo	CX18	890	5.0	Difusoras El Espectador Ltda.
Montevideo	CX4	610	5.0	Seccion Informacion y Enseñanza of the Direccion de Agronomia, which is under the Ministerio de Ganaderia y Agricultura
Montevideo	CX46	1450	1.5	Guzman Bertacchi
Montevideo	CX22	970	0.5	Harispuru Hermanos
Montevideo	CX42	1370	0.5	Hector Vernazza
Montevideo	CX44	1410	.250	Julio J. Rabassa
Montevideo	CX40	1330	0.1	Julio J. Rabassa
	CXA21	6170	0.1	
Montevideo	CX12	770	1.0	Luis A. Artola
Montevideo	CX24	1010	5.0	Prencinradio, Sociedad de Responsabilidad Ltda. Roberto Fontaina and Dardo Regules

SOUTH AMERICAN STATIONS

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Montevideo	CX8	690	2.0	Ramon Puyal y Gazanto
Montevideo	CX16	850	50.0	Prencinradio, Sociedad de Responsibilidad Ltda. Roberto Fontaina and Dardo Regules
Montevideo	CX36	1250	.250	Vazquez y Walder
Montevideo	CX48	1490	0.8	Vazquez y Cia.
Montevideo	CX28	1090	6.0	Walfrido Figueira Moran
Montevideo	CXA1	6200	0.05	Uruguayan Government
	(Portable)			
Montevideo	CXA11	27000	2.5	S.O.D.R.E.
Montevideo	CXA4	6125	5.0	Uruguayan Government
Montevideo	CX6	650	25.0	Servicio Oficial Difusion
	CXA6	9620	0.2	Radioelectronica (Ministry of Public Education—Urugayan Govt.)
	CXA10	0620	20.0	
		11900		
		15300		
	CXA18	15300	2.5	
	CX38	1290	5.0	
Montevideo	CXA22	29500	2.5	Servicio Oficial Difusion Radioelectronica
	CXA23	43600		
	CXA24	58000		
Montevideo	CX30	1130	1.0	Silva y Larrea
	CXA30	6035	1.0	
Montevideo	CX10	730	1.0	(Sr. Luis Batlle Berres
	CXA3	6075	1.0	(Sr. Juan Gestoso
Montevideo	CXA19	11705	15.0	Difusoras El Espectador Ltda.
	CX14	810	15.0	
Montevideo	CXA14	7330	0.05	Difusoras El Espectador Ltda.
		10000	0.02	
Montevideo	CW47	1470	0.4	Julio J. Rabassa
Montevideo	CXA9	15345	4.0	Difusoras El Espectador Ltda.
Paysandu	CW35	1240	0.25	Alfonso M. Ordoqui
Paysandu	CW39	1320	0.1	Miguel Penna
Rivera	CW19A	1340	0.06	Jorge Dowton Garcia
Rivera	CW43B	1480	0.75	Walfrido Figueira Moran
Rocha	CW19	1340	0.05	Abel Machado
Salto	CW23	820	0.25	Domíngio Giordano
Salto	CW27	680	0.750	Sr. Luis Batlle Berres—Director. Sr. Juan Gestoso
Salto	CW31	1120	1.2	Salvador E. Pera
San Jose	CW47A	1510	.100	Fasola Rios y Tiboni
San Jose	CW41	1360	.05	Pedro Bruccoleri
Soriano	CX52	1570	0.05	Anibal Frabasil, Juan Orlando Kelly, Jose Pedro Irigaray, Florencio Donato Montero
Soriano	CW46B	1496	0.05	Roberto Taruselli
Tacuarembó	CW46A	1400	2.0	Luis S. Dini
Treinta y Tres	CW45	1390	.250	Marroche y Lacurcia

VENEZUELA

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Alcarigua	YV3RF	3490	.104	Pausides Sigala Luis Barrios—Director
Barcelona	YV6RC	3450	0.3	L. J. Arreaza A.
	YV6RE			
Barquisimeto	YV3RE	1240	0.7	Almicar Segura
	YV3RN	6175	.815	
Barquisimeto	YV3RS	3490	.600	Sr. Rafael Angel Segura

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Caracas	YV5RA	960	10.0	C. A. Almacen Americano
	YV5RN	4920	5.0	
Caracas	YV5RB	790	5.0	Degwitz & Siblitz
	YV5RM	6150	5.0	
	YV5RH	710	1.0	
Caracas		720	.75	Mons. J. M. Pellin The Catholic Church
	YV5RX	3430	1.75	
	YV5RG	1010	1.0	Gonzalo Veloz Mancera
	YV5RU	6070	2.5	
			1.0	
Caracas	YV5RI	590	1.0	O. Vincentelli—Director, Cia. Anonima Radio Continente & Cia. A. Agencias Unidas
	YV5RY	3380	1.0	
Caracas	YV5RL	1160	1.0	Ponce & Benzo Sucesores Cia. Anonima
	YV5RW	3400	1.15	
Caracas	YV5RQ	880	1.0	C. A. Radio Libertador. Manuel Torrealba, director
	YV5RS	3360	1.0	
Ciudad Bolivar	YV6RA	1400	.68	E. Torres Valencia
	YV6RU	4790	.62	
Coro	YV1RY	4770	.215	Roger Leyba
La Guaira (Vargas)	YV5RZ	1050	.75	Senor Carlos L. Perez
	YV5RV	4890	.75	
Maracaibo	YV1RC	1400	.52	Pedro Bermudez
	YV1RT	3370	.455	
Maracaibo	YV1RD	1150	.2	Govea & Nouel
	YV1RU	3440	.68	
Maracaibo	YV1RF	1120	.55	N. Vale Quintero
	YV1RX	4800	2.0	
Maracaibo	YV1RK	1250	.437	J. R. Higuera
Maracaibo	YV1RV	4750	.195	Luis Garcia Nebot
Maracay	YV4RK	3390	.3	Atilio Ormezzano
Merida	YV2RC	3420	0.32	Senores Quintero and Strauss Roberto Strauss, director
Puerto Cabello	YV4RQ	3480	0.575	Rafael Segura
San Crisobal	YV2RB	980	.325	J. M. Diaz Gonzalez
	YV2RN	4830	.13	
Trujillo	YV1RO	3310	.625	Pedro J. Torres
			0.2	
Valencia	YV4RA	1350	.83	Guillermo Degwitz
Valencia	YV4RE	1400	1.138	Miguel Acho
	YV4RP	3460	.68	
Valera	YV1RZ	4840	.315	Manager by Pedro Flores J. Owned by Jorge L. Febres J.

COSTA RICA

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Alajuela	TIJJM-5	575	0.80	Emilio E. Martinez
Cartago	TIMC	735	0.70	J. Mario Cardos M.
Heredia, Heredia	TI4NRH	725	0.75	Amando Cespedes Marin
Puntarenas	TIWS	900	0.35	Manuel Campos J.
San Jose	TILJ	775	3.0	Lola Monje M. de Jimenez
San Jose	TI-MACHO	1100	1.0	Maximo Chaves Arias
San Jose	TIOS	940	2.0	Rafael Sotela
San Jose	TILS	880	5.0	Luis Saenz Mata
San Jose	TIGPH	605	6.5	Gonzalo Pinto H.
San Jose	TIGPH2	800	8.0	Gonzalo Pinto H.
San Jose	TIGPH3	650	10.0	Gonzalo Pinto H.
San Jose	TIRH	970	1.0	Rafael Hine Chavarria
San Jose	TIJMP	690	2.5	Jose Maria Pinaud
San Jose	TIPG	625	5.0	Perry Girton
San Jose	TIFA	1000	0.25	Francisco Arie (This station not on air for duration of war)

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
San Jose	TINBC	1070	5.0	Perry Girton
San Jose	TICQ	750	0.5	Narciso Garcia
San Jose	TIEP	830	3.0	Eduardo Pinto H.
San Jose	TIRS	925	1.0	Rogelio Sotela B.
San Jose	TIHZ	1150	1.0	Heli Zuniga
San Jose	TIRCC	1200	0.5	Carlos Borge (Prbo.)
San Juan de Tibas	TIBAS	650	8.0	Gonzalo Pinto H.

DOMINICAN REPUBLIC

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Ciudad Trujillo	HIZ	1350	0.2	Frank Hatton
	HIIZ	6316	0.25	
Ciudad Trujillo	HIN	1090	0.15	Partido Dominicano
	HIIN	6243	.7	
Ciudad Trujillo	HIX	950	0.2	Dominican Gov't
	HIIX	6340	.25	
	HI3X	11960	.25	
Ciudad Trujillo	HIIG	6120	0.25	Andres Cordero P.
	HI2G	9140	0.25	
Ciudad Trujillo	HIT	6630	0.1	F. A. Sanabia
		1050		
Ciudad Trujillo	HIL	6175	0.08	Joaquin C. Pellicer
Ciudad Trujillo	HI6H	6115	0.1	Emilio Garden, Jr.
Ciudad Trujillo	HIH	1420	.150	Domingo Dominguez
Romana (La) (Seybo)	HI3C	6690	.150	Antonio Herrero
Monsignor Nouel (La Vega)	HI2T	6480	.200	Jose Arismendy Trujillo
Puerto Plata	HI9T	6170	.025	Luis A. Pelegrin
	HI9U	1010	.1	
San Pedro de Macoris	HIH	6780	0.25	Domingo Dominguez
San Pedro de Macoris	HI1J	6025	0.25	Fausto M. Donastorg
Santiago	HI1A	6190	0.25	Rafael Western
Santiago	HI3U	6015	0.1	Fernando Bertran
Santiago	HI9B	6383	0.25	Jacinto L. Sanchez
Santiago	HI1S	6420	0.2	Generoso Sarhelli
Santiago	HI1L	6480	0.1	Maria J. Tavarez

EL SALVADOR

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
San Salvador	YSR	990	2.0	Alberto Cevallos
		6265		
San Salvador	YSS	650	0.5	Owned by Gov't of El Salvador
	HUB	5556	0.4	
	YSD	7894		
San Salvador	YSP	780	0.5	Fernando Albayeros Sosa— Affiliated with Columbia Broadcasting Company
		760		
San Salvador	YSY	1100	0.25	Consul of Paraguay
		7225		

GUATEMALA

Location	Call Letters	Frequency Kcs.	Power Kws.	Owner or Operating Agency
Guatemala City	TG1	1310	0.25	Government
	TG2	6190		
	TG3	2320		
Guatemala City	TGW	610	10.0	Guatemalan Government
	TGWA	9685	10.0	
		11760		
		15170		
		17800		
	TGWB	6460	1.0	
	TGWC	1520	1.0	
Guatemala City	TGX	1400	0.1	El Liberal Progresista (Newspaper)
	TGX1	6130		
Quezaltenango	T6Q	1450	.25	Government
	T6QA	6400		

BRITISH GUIANA

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Georgetown	VP3BG	6130	0.065	British Guiana Broadcasting Co., Ltda.

SURINAM (Dutch Guiana)

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Paramaribo	ZPH	5865	0.150	J. E. Herrenberg, Chairman, of private radio club "AVROS." Tech. equip. owned by Surinam Govt.

HAITI

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Port-au-Prince	HHW	1300	.5	C. Ricardo Widmaier, Jr.
	HH3W	10100	.750	
Port-au-Prince	HH2S	7500	.300	Societe Haitienne de Radio- diffusion
Port-au-Prince	HHBM	9660	0.1	Frank C. Magliore

BRITISH HONDURAS

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Belize	ZIK-2	10600	0.2	Government

HONDURAS

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Ceiba (La), Atlantida	HRD2	6235	0.25	Ing. M. R. Moncada
San Pedro Sula, Cortes	HRP1	6351	0.2	Filiberto Diaz Zelaya
Tegucigalpa	HRN	5875	0.2	Rafael Ferrari

NICARAGUA

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Boaco	YNBO	6980	0.03	J. Edgar Tijerino
Granada	YNFT	7500	0.1	Jose Francisco Tercero
Granada	YNLAT	7625	0.3	Nicolas W. Navas Admor
Leon	YNJAT	5758	0.45	Jose Antonio Tiperino and Sons
Leon	YNDG	7660	0.2	Dionisio E. Gallo
Managua	YNPS	6760	0.6	Nicaraguan Govt.
	YNDS	6240	0.6	
Managua	YNFP	6275.5	0.1	Francisco Perez G.
Managua	YNOW	6850	0.6	Mendoza Bros.
Masaya	YNFM	6950	0.06	Jose Francisco Tercero (Granada)

PANAMA

<i>Location</i>	<i>Call Letters</i>	<i>Frequency Kcs.</i>	<i>Power Kws.</i>	<i>Owner or Operating Agency</i>
Colon	HP5K	6005	0.5	Jose Jaen y Jaen y Compania
Colon	HP5F	6050	0.15	Servicio Publica de Radio
Colon	HOK	640	0.25	Jose Jaen y Jaen y Compania
Panama	HP5G	11780	0.5	Jose Antonio Sosa M.
Panama	HOA	1000	0.5	Jose Antonio Sosa M.
Panama	HOC	1440	0.05	Jose Jaen y Jaen y Compania
Panama	HP5A	11700	0.3	Jose Jaen y Jaen y Compania
Panama	HOQ	1250	0.25	Augustin Fernandez Jose Herrera, Jr.
Panama	HP5B	6030	0.15	E. de la Guardia, President
	HP5C	730	0.5	
Panama	HP5H	6122	0.25	M. Lombardo Vega
Panama	HP5J	9607	0.4	Servicio Publico de Radio,
	HP6J	1358	0.3	S. A. Manuel Doce

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