

# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: **CONFIDENTIAL—NOT FOR PUBLICATION.** :: ::

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No. 359

National Broadcasting Company, Inc.  
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## 50 KW HEARING DATE SET

The Federal Radio Commission has decided to hold a hearing Sept. 15 on the applications of eight broadcasting stations for authority to use the maximum allowable broadcasting power of 50,000 watts.

Today's action supplements the recent assignment of similar applications for nine other stations for 50,000 watts power, and it was explained that all stations now using, authorized to use or eligible for the maximum power will be invited to participate in this session. It is expected the hearing will run for more than a week.

Applications of stations assigned to cleared channels, of which there are fifty-five, have been filed with the Commission as a direct result of its recent action in restricting to twenty the number of "clear" channels upon which stations of the highest allowable power would be permitted to operate.

The forty clear channels set aside for high power are distributed eight to each of the five radio zones into which the country is divided. Under the new ruling, only four of the eight channels in each zone may carry 50,000 watt stations.

The applications set for hearing on September 15th under the Commission's action today are those of WOR, Newark; WBZ, Springfield, Mass.; WHAS, Louisville; WCAU, Philadelphia; WBT, Charlotte; KHJ, Los Angeles, and KYW, and WMAQ, Chicago.

Those previously set for hearing on the same date came from WHAM, Rochester; WRVA, Richmond; WAPI, Birmingham; WSM, Nashville; WSB, Atlanta; WCFL, Chicago; KTNT, Muscatine, Iowa; KGO, Oakland, and the joint application of WHO and WOC at Des Moines and Davenport, respectively.

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## WESTINGHOUSE SETS READY

During the next few weeks, the Westinghouse Electric & Manufacturing Company will submit for public approval, through its radio dealers, its line of Westinghouse radios.

The wholesale distribution of Westinghouse radios is being handled by Westinghouse Agent Jobbers, each exclusively serving in their respective territories. Arrangements have been made with the Commercial Investment Trust Company of New York to take care of the financing of time payment sales for the dealers.

The Manager of the Westinghouse Radio Department is M. C. Rypinski, who entered the electrical industry as an engineer in 1897, joined the Westinghouse Company in 1904, and took charge of the Westinghouse Radio Department at the beginning of radio broadcasting in 1920.

Mr. Rypinski, in speaking of the new Westinghouse receivers, said: "The initial line will include four models, of which three are 9 tube, screen-grid heterodynes, and one is a 7-tube, screen-grid, tuned radio frequency set, at prices to fit every purse up to approximately \$300.00 for the most expensive set. Nationwide advertising will start on August 23rd."

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#### LARGEST CENTRALIZED RADIO SYSTEM PLANNED

The largest centralized radio reception system ever designed, capable of intercepting and delivering six selected radio programs to loud-speakers in the 2,000 rooms of the new Waldorf-Astoria Hotel, will be in operation when the building is opened to the public, according to engineers of the Western Electric Company, who will install the equipment. The entire installation will cost nearly \$200,000, they said recently. Besides the speakers in the guest rooms, there will be thirty-nine large horn speakers concealed in the walls or ceilings of the fifteen public rooms.

Three strands of antenna wire suspended 600 feet above the street will intercept programs and serve as the pick-up for a centralized radio antenna system for about 140 apartments in the two towers of the building. Individual radio receivers will be plugged into wall sockets in the tower suites for antenna and ground connections, as well as for electric operating power. This will afford good reception without other outside wires, the engineers said, and prevent interference between the sets.

The largest power amplifier ever designed, consisting of twenty-one separate panels, larger than any similar broadcasting station equipment in the country, will be used to intensify programs received over the radio or the addresses or music picked up from a function held within the hotel. More than 1,000,000 feet of wire, in the form of strands in metal shielding, will convey the programs from amplifier to each of the rooms, according to J. J. Kuhn, engineer of the Bell Telephone Laboratories, New York, the designer.

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#### SIXTH STATION COMPLETES AIR RADIO SERVICE LINK

The last radio station on the New York-Atlanta airway, completing a chain of six stations broadcasting weather information and messages to pilots in flight, has been placed in operation at Silver Hill, Md. The new station will provide a complete chain which also includes New Brunswick, N. J., Atlanta, Spartanburg, Greensboro, and Richmond.

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## RMA JOINS AMERICAN STANDARDS ASSOCIATION

The affiliation of the Radio Manufacturers' Association with the American Standards Association, a national standardizing body representing the leading American technical societies and trade associations and several departments of the Federal Government, was announced by the American Standards Association. Ray H. Manson, Vice-President and Chief Engineer of the Stromberg-Carlson Telephone Manufacturing Company will represent the Radio Manufacturers' Association on the Standards Council, the governing body of the American Standards Association.

The action of the Board of Directors of the Radio Manufacturers' Association in accepting the invitation to membership tendered by the standardizing body is expected to aid materially in bringing about the establishment of a body of authoritative national standards for radio equipment. The American Standards Association now has under way a project for the establishment of national standards for radio. One standard, that for four-pin vacuum tube bases, has already been completed.

The Association's standardization work on radio is being handled by a technical committee under the chairmanship of Alfred N. Goldsmith of the Radio Corporation of America. The Radio Manufacturers' Association has been actively cooperating in this project. Among the other bodies represented on the A S A technical committee on radio are the Institute of Radio Engineers, the American Radio Relay League, the National Association of Broadcasters, American Institute of Electrical Engineers, the Radio Division of the National Electrical Manufacturers' Association, and the Radio Section of the United States Department of Commerce.

In addition to the standard for vacuum tubes, the technical committee is now working on standards for transmitting and receiving sets and installations; component parts and wiring; electro-acoustic devices; and power supply and outside plant.

The scope of the technical committee's work is defined as "nomenclature, methods of testing and of rating, specifications of apparatus and equipment, and dimensions to secure interchangeability where this may be found to be desirable."

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## RADIO CHANNELS FOR AVIATORS DESIGNATED

The Federal Radio Commission has adopted the following recommendations which were made at the Aviation Radio Conference between representatives of the United States and Canadian governments held in the City of New York on April 10 and 11, 1930:

1. The International Air Calling Frequency 333 kc. be not required regionally for aircraft or aeronautical stations in Canada or the United States.

2. It is recognized that a frequency separation of 6 kc. is ordinarily sufficient between stations operating radio range beacon and radio telephone services.

3. A minimum distance of 750 miles between radio beacon stations operating on the same frequency is desirable. It is recommended that this separation be maintained between nations, although in some cases it may be necessary to reduce the separation within the interior of either country.

4. The following frequencies: 237, 240, 248 and 278 kc. out of the band 194-284 kc. be reserved regionally for air services.

5. The following frequencies shall remain free from assignments in the United States within 750 miles of Canadian airways radio stations: 248, 290, 296, 326 and 332 kc. In addition, no further assignments in the United States should be made on the following frequencies within 750 miles of Canadian airways radio stations: 240 and 314 kc.

6. The following frequencies shall remain free from assignments in Canada within 750 miles of United States airways radio stations: 254, 260, 266, 272, 284, 302, 308, 320, 338, 344 and 350 kc.

7. The frequency 278 kc. should be reserved primarily for low power airport use.

8. One frequency, approximately 237 kc. shall be reserved for emergency messages from ground stations to aircraft in cases where such messages might interfere with the regular airways beacon service.

9. The following frequencies should be reserved for Canadian stations operating along the Canadian Transcontinental Airways from Halifax to Vancouver: 3,492 and 5,630 kc. The United States authorities will discuss with aviation companies operating between Chicago, Minneapolis and St. Paul a change of frequencies from those now specified in the United States Aviation Plan for the Green Chain to the Red Chain frequencies in order that Canadian planes flying from Winnipeg to Minneapolis and St. Paul will be able to have closer frequency coordination.

10. The United States will continue to use 3,106 kc. as a national calling frequency and Canada will use the frequency 5,630 kc. for the same purpose, since the experience gained to date in the United States and Canada would indicate that the common calling frequency selected in the United States might not be equally suitable in Canada.

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## SAYS SUMMER IS TIME TO LISTEN TO MUSIC

Judging by the let-down in the so-called "good music" programs and some of the poor offerings at this season, certain broadcasters apparently think those who desire to hear the best in music are non-existent during the summer. Evidently this same situation obtains in England for "Auribus", writes in the Musical Times, of London:

"We do not suddenly change our musical tastes when the 'r' drops out of month. The thing we will not do in summer is to spend an evening in a stuffy concert hall and for that reason it has been found impossible to carry on the concert business when the hot weather arrives.

"And so, the musical world has come to regard the 'end of the musical season' as a definite entry on the calendar, all because it is unpleasant to be one of a warm and enclosed crowd. This end of the season shadow seems to have fallen on the British Broadcasting Corporation, in spite of the obvious fact that broadcasting has nothing to do with enclosed crowds.

"It may be argued that summer evenings tempt people away from their receiving sets. True, in some cases, but believe me, by far the most popular summer evening recreation is to sit near an open window, without a collar, and to avoid any form of exercise beyond an occasional flexion of the right elbow. And that is the time and state in which the average keen musician is most, not least, ready to listen to the radio."

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## RADIO SPEECHES IN PRINT NOW PAID FOR

Political candidates in Hoquiam and Aberdeen, Wash., according to the Editor and Publisher, formerly accustomed to paying for time on the radio during their campaigns, and expecting the newspapers to give full coverage to their radio addresses free of charge, are now required to pay for this space in newspapers.

The Aberdeen World, the Hoquiam Daily Washingtonian, and the Hoquiam American have agreed on a policy whereby announcement of candidates' radio speeches and their subsequent publication may be made only at regular advertising rates. All such copy is labeled "Paid Advertisement."

"The first candidate to be advised of the policy", R. A. LeRoux, Editor of the Hoquiam American, said, "declared himself willing to pay for the announcement. However, it was noted that the copy was boiled down to about half."

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## RADIO NOT TO BLAME

Replying to those persons who tried to lay the blame for the long dry spell on the radio, Mr. W. D. Terrell, Chief of the Radio Division of the Department of Commerce, said that some years ago, when there was an excess of rainfall, "someone suggested the closing of radio stations to prevent floods." He declared there is very little difference in the amount of power used this year and the amount of power used during the last few years.

Mr. Terrell pointed out that there is more radio energy dissipated in the ether in and around New York than in any other section of this country, yet that vicinity has not been affected by the drought as has the South Atlantic and mid-West section.

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## RAYTHEON'S FINANCIAL REPORT

The following is a financial report for the Raytheon Manufacturing Company for the fiscal year ended May 31st:

Net loss after depreciation and other charges, \$328,800, compared with net loss of \$33,294 in previous fiscal year.

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## APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

August 7 - WCLB, Arthur Faske, Long Beach, New York, C. P. to make changes in equipment; WLBW, Radio-Wire Program Corporation of America, Hog Back Mountain, Oil City, Pa., C. P. to move transmitter to a location near Oil City, Pa.; WKBH, Jos. Callaway, trading as Callaway Music Co., La Crosse, Wisconsin, request for authority to voluntarily assign C. P. to WKBH, Inc.; KGIQ, Radio Broadcasting Corp., Twin Falls, Idaho, C. P. to install new equipment and increase power from 250 W. to 500 W. day and 250 watts night on 1320 kc.; King Evans, Marshall, Texas, amendment filed to application for new station to request 1340 kc., 100 w. and daytime hours instead of 910 kc., 100 W. and unlimited hours.

August 8 - WBZ, Westinghouse Electric & Manufacturing Co., E. Springfield, Mass., modification of C. P. to obtain permanent approval of new location, Millis Twp., and extend completion date on C. P. to 3/20/31; WLAP, American Broadcasting Corp. of Ky., Louisville, Ky., license to cover C. P. issued 3/14/30 to move transmitter to Phillips Lane, install new equipment and increase power from 30 W. to 250 W. day and 100 W. night on 1200 kc., unlimited, also license for authority to move old equipment to new location to be used as an auxiliary; WEHC, Emory & Henry College,

Emory, Virginia, C. P. to change equipment; A. L. Bellinger and F. S. Holliday, d/b as Atlanta Broadcast Company, Atlanta, Georgia, amendment filed to application for new station to install automatic frequency control.

August 9 - WKBQ, StandardCahill Co., Inc., New York, N. Y., C. P. to make changes in equipment; WWVA, West Virginia Broadcast Corp., Wheeling, West Virginia, C. P. to move transmitter from Wheeling to South Hills, near Charleston, and studio from Wheeling to Charleston, West Virginia; WTMJ, The Journal Company (The Milwaukee Journal), Brookfield, Wisconsin, C. P. to move transmitter to a location not yet determined, install new equipment, change frequency from 620 kc. to 870 kc., and increase power from  $2\frac{1}{2}$  KW day and 1 KW night to 50 KW with unlimited hours; KOA, National Broadcasting Co., Inc., Denver, Colo., C. P. to move transmitter locally, install new equipment, and increase power from  $12\frac{1}{2}$  KW to 50 KW, on 830 kc., with unlimited hours.

#### Applications Other Than Broadcasting

August 8 - WRDT, City of Cleveland, Department of Airport, Cleveland, O., license to cover C. P. for 278 kc., 10 watts, aeronautical service; WQDP, S.A.T. Flying Service, Inc., Hapeville, Ga., license to cover C. P. for 278, 3484, 5600 kc., 250 and 10 watts, aeronautical service; W9XAY, National Battery Broadcasting Co., Portable in St. Paul, Minn., license for portable experimental station to be used in Open Tournament from August 14 to 19, 1930; KTK, Globe Wireless, Ltd., Mussel Rock, Calif., modification of coastal license for additional frequencies of 11080, 11140, 11200 kc.; KGQ, Globe Wireless, Ltd., Mussel Rock, Calif., modification of limited public license for additional frequencies of 7437.5, 14875 kc.; also for same station, C. Ps for new transmitters on 7430, 7445, 9410, 10930, 14860, 14890, 18820, 22700 kc.,  $1\frac{1}{2}$  KW, limited public service, Serial No. 131; KGS, Globe Wireless, Ltd., Kaena Point, Hawaii, modification of license for additional frequencies of 7437.5, 14875 kc., limited, public service,

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#### DECISIONS OF THE FEDERAL RADIO COMMISSION

The Commission on August 8th granted the following applications:

WELK, Howard R. Miller, Philadelphia, Pa., C. P. to make changes in equipment, including automatic frequency control, and changes in tube complements of transmitter; WLOE, Boston Broadcasting Co., Boston, Mass., permission to discontinue operating until Labor Day in order to facilitate reorganization of the commercial department; WQBC, Delta Broadcasting Company, Vicksburg, Miss., C. P. to replace transmitter, to provide same

power and same hours of operation used before plant was destroyed by fire. Application requesting increase of power from 300 w. to 500 w. and hours of operation from daytime to unlimited set for hearing; KGBX, Foster-Hall Tire Company, St. Joseph, Missouri, consent to voluntary assignment of license to KGBX, Inc.; KTAT, Texas Air Transport Broadcast Company, Ft. Worth, Texas, consent to voluntary assignment to S.A.T. Broadcast Company; WISJ, Wisconsin State Journal Co., Beloit, Wisconsin, consent to voluntary assignment of license to Wisconsin State Journal Broadcasting Company; KTUE, William John Uhalt, Houston, Texas, consent to voluntary assignment of license to Harris County Broadcast Company; WBT, Station WBT, Inc., Charlotte, N. C., authority to install automatic frequency control; WIBA, The Capital Times Co., Madison, Wisconsin, modification of C. P. to change date of required commencement of construction from 5/19/30 to 7/10/30 and change date of required completion of construction from 8/19/30 to 11/10/30;

Also, KFUM, W. D. Corley, Colorado Springs, Colo., C. P. to install new ground system and replace present counterpoise with a ground connection; KMBC, Midland Broadcasting Company, Kansas City, Missouri, modification of license to move studio from Aladdin Hotel, locally in Kansas City; WQAM, Miami Broadcasting Company, Miami, Florida, modification of license to move main studio locally in Miami.

Commercial - WLOXF, Chicago Daily News, Chicago, Ill., permission to use transmitter WLOXF now licensed in an airplane as temporary broadcast pick-up for purpose of reporting the airplane races week of August 23 to September 3, 1584 kc.; KGOT-KGOS, Libby Communications, Inc., KGOT on Island of Molokai, and KGOS on Island of Oahu, T. H., modification of two licenses, permission to use A1 and A2 emissions for period of 90 days; KHFAZ, Pan American Airways, Inc., Aircraft NC 9137, renewal of license 333, 414, 500, 2662, 3070, 3106, 5690, 8015 kc., 12 w; W3XAC, WTAR Radio Corporation, portable in Princess Anne County, Virginia, license to cover C. P. 780 kc., 250 w. for 90 days; W3XAL, RCA Communications, Inc., Bound Brook, N. J., authority to use 6100 kc., for purpose of sending message to members of Bartlett-Greenland expedition; WLO, American Telephone and Telegraph Company, Lawrenceville, N. J., authority for 30 days pending final action on formal application to use special telephone connection to put through a long report of public interest concerning a boxing match; Stromberg-Carlson Telephone Mfg. Co., aboard cruiser "Phyllis II", license to install two transmitters to rebroadcast descriptions of races to be held on Lake Ontario the week of August 10th

The Commission also renewed the licenses of 28 ships and modified the licenses of 2 ships.

### Set For Hearing

WOR, Bamberger Broadcasting Service, Inc., Newark, N. J., application for C. P. to move transmitter from Lincoln Highway, Kearny, N. J. to Morris County, N. J., install new equipment, increase power from 5 to 50 KW, no changes in frequency or time involved; WBZ, Westinghouse Electric & Mfg. Co., Boston, Mass., application for modification of C. P. to install different equipment and increase power from 15 to 50 KW; WCAU, Universal Broadcasting Co., Philadelphia, Pa., application for C. P. to move transmitter from Bensalem and Byberry Turnpike and Barlow Sts., Byberry, Pa., to near Philmont Station, Pa., install new equipment, increase power from 10 KW to 50 KW and use portable to test for most desirable location; WHAS, Courier-Journal Co., and the Louisville Times Co., Louisville, Ky., application for C. P. to install new equipment and increase power from 10 KW to 50 KW; WBT, WBT, Inc., Charlotte, N. C., application for C. P. to install new 50 KW equipment with automatic frequency control and increase power from 5 KW to 50 KW; KHJ, Don Lee, Inc., Los Angeles, Calif., application for C. P. to move transmitter from Los Angeles to a location to be determined, increase power from 1 KW to 50 KW, use portable to test for most desirable location, install new equipment; KYW-KFKX, Westinghouse Electric and Mfg. Co., Chicago, Ill., application for modification of license to increase power from 10 KW to 50 KW (retain 1020 kc., and unlimited time); WMAQ, WMAQ, Inc., Chicago, Ill., application for C. P. to install new equipment and increase power from 5 KW to 50 KW.

All of the above applications for power increases to 50 KW have been set for hearing September 15, 1930, 10:00 A. M.

WFDW, Raymond C. Hammett, Talladega, Ala., application for C. P. to move transmitter from Talladega to 3 miles N.E. of Talladega on Anniston Highway, Ala., install new equipment, change frequency from 1420 to 580 kc., and increase power from 100 to 250 watts; KGKO, Wichita Falls Broadcasting Co., Wichita Falls, Texas, application for C. P. to install new equipment and increase night power from 250 to 500 watts; WSPA, Virgil V. Evans, tr. as The Voice of South Carolina, Spartanburg, S. C., application for C. P. to move transmitter from Spartanburg to a location not yet determined, install new equipment, change frequency from 1420 kc., to 1190 kc., and increase power from 250 w. day and 100 w. night to 5 KW; KPWF, Pacific-Western Broadcasting Federation, Ltd., Los Angeles, Calif., application for modification of license, to extend completion date from 7/13/30 to 12/31/30; KFVS, Oscar C. Hirsch, tr. ad Hirsch Battery and Radio Co., Cape Girardeau, Mo., application for C. P. to install composite 250 w equipment and increase day power from 100 to 250 w. Now has 100 w. day and night, on 1210 kc., sharing with WEBQ; WRAF, Charles Middleton, LaPorte, Indiana, application for C. P. to install composite 250 w. equipment and increase day power from 100 to 250 w. (now has 250 w. day and 100 night, 1200 kc., sharing with WWAE); WNBO, John Brownlee Spriggs, Silver Haven, Pa., application for C. P. to install new 1 KW equipment, change frequency from 1200 to 1120 kc., increase power from 100 to 500 w. at night and 1000 w. during day and change hours of operation from sharing with WHBC to unlimited.

For New Stations: Alfred L. Setaro, d/b as Merchants Radio Station, Vicksburg, Miss., application for C. P. to erect new station 550 kc., 100 w., unlimited time; George B. Bairey, Valley City, North Dakota, application for C. P. to erect new station 1310 kc., 50 w., unlimited time; D. Estes, Vernon, Texas, application for C. P. to erect new station 1260 kc., 100 w., daytime operation; J. E. Bennett, tr. as J. E. Bennett Music Co., Cordell, Okla., application for C. P. to erect new station 1500 kc., 100 w., 6 hrs. daily (day and night); Radio Advertising Co. of Pittsburgh, Pittsburgh, Pa., application for C. P. to erect new station 1380 kc., 500 w., unlimited time; R. P. Denman, tr. as R. P. Denman Music Store, Paris, Texas., application for C. P. to erect new station 1210 kc., 100 w., daytime operation; A. P. Stark, Pampa, Texas, application for C. P. to erect new station 1380 kc., 500 w., 7 hours daily; G. C. Blee, tr. as Radio Service Laboratories, Negaunee, Mich., application for C. P. to erect new station 580 kc., 1 KW, Sundays up to 9 P. M., other days up to 8 P. M. and to use portable to test for most desirable location; Forrest H. Bayne, Trenton, Mo., application for C. P. to erect new station 1150 kc., 100 w., unlimited time; R. S. & D. W. Gavin, Marion, Miss., application for C. P. to erect new station 590 kc., 250 w., unlimited time; J. E. Ormann & Walter Denton, d/b as Radio Service Co., Russellville, Ala., application for C. P. to erect new station 570 kc., 10 w., unlimited time.

Also, W6XAL, Pacific-Western Broadcasting Federation, Ltd. near Westminster, Calif., application for modification of C. P. to extend completion date to 9/30/31 (6080, 15250, 21500 kc), KFUO, Evangelical Lutheran Synod of Mo., Ohio and other states, Rev. R. Kretzschmar, Chairman, Board of Control of Concordia Seminary, Clayton, Missouri, application for modification of license, to increase night power from 500 w. to 1 KW (Now has 1 KW day and 500 w. night on 550 kc., sharing with KSD); WDAE, Tampa Publishing Company, Tampa, Florida, application for license to cover C. P. which authorized installation of new composite 1 KW equipment; WSPA, Virgil V. Evans, tr. ad The Voice of South Carolina, Spartanburg, S. C., application for C. P. to install new equipment, change frequency from 1420 to 590 kc., and increase power from 100 w. (250 L.S.) to 1 KW, no change in hours of operation involved; WSPD, The Toledo Broadcasting Co., Toledo, Ohio, application for modification of license, to increase night power from 500 to 1000 watts (no other changes 1340 kc., unlimited time); WISJ, The Wisconsin State Journal Co., Beloit, Wisconsin, application for modification of license to change time from sharing with WIBO and WPCC (10½ hours a week) to operate 55½ hours a week.

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## VICTOR TO HAVE SELF RECORDING SET

In the new Victor line will be a radio-phonograph which includes a recording outfit with a small portable microphone attached to the set by means of a flexible cord. The control knob of the unit permits an operator either to play an existing phonograph record, make a recording of music or words played or spoken before the small microphone or of a program being received over the radio, or reproduce the received program on the loud-speaker of the radio-phonograph outfit. The special pick-up of the phonograph is used for both the recording and reproducing process.

Blank records six inches in diameter for making home recordings will be made available when the sets are placed on the market. This set is provided with a record compartment under the lid of the cabinet where the record-making and playing turntable is located.

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## LINDBERGH'S RADIO ADDRESS ON RECORDS

Colonel Charles A. Lindbergh, a group of industrial leaders and aviators, together with the leading broadcasting networks of the world, will receive souvenir phonograph records of the address made by Colonel Lindbergh on Friday last over the radio on "International Aviation," according to Walter Lemmon, President of Electro Broadcasters Corporation, 6 West 32nd Street, New York City.

Engineers of the recording concern intercepted the address over the radio as Colonel Lindbergh spoke for WABC, WAAF, and WJZ, from the Columbia System headquarters, transcribed it electrically on a wax master-record, which has been stereotyped and reproduced in quantity for preservation to posterity.

Among the foreign broadcasting systems which will receive a disk record of the Lindbergh address, Mr. Lemmon said are the British Broadcasting Corporation, the Reich Rundfunk Gessellschaft of Berlin, the Swedish radio system at Stockholm, South American broadcasting organizations and the radio systems of Australia and New Zealand.

The main disks run fifteen minutes, without change, through a new process invented by Charles Hasin, engineer-recorder of the concern, Mr. Lemmon said.

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