

RADIO SERVICE BULLETIN

U.S.

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, March, 1915—No. 3

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DEPARTMENT OF COMMERCE,
BUREAU OF NAVIGATION,
Washington, January 14, 1915.

To collectors of customs, radio inspectors, and others concerned:

This publication is issued monthly by the Bureau of Navigation, Department of Commerce, and distributed to the United States officers engaged in or concerned with the enforcement of the radio laws for their guidance and instructions, and to those concerned with the operation of Government and commercial radio stations for their information.

The Radio Service Bulletin supersedes the quarterly supplements to the list of Radio Stations of the United States, and will contain information concerning Government, commercial, and special stations only. Information regarding amateur stations will appear only in the annual edition of the list of Radio Stations of the United States.

The bulletin contains tables of new stations, alterations, and corrections under headings, so that the list of Radio Stations of the United States and the list of Radiotelegraph Stations, published by the international bureau at Berne, may be brought up to date. Additions, alterations, and corrections should be entered in these two publications promptly on receipt of the bulletin.

Amendments to or changes in the Radio Laws and Regulations of the United States (edition of July 27, 1914) will be printed in this bulletin in such a manner that they may be clipped and pasted in their proper places in that publication.

Items of general interest concerning the enforcement of the radio laws will be printed in the bulletin from time to time, as occasion warrants.

E. T. CHAMBERLAIN,
Commissioner of Navigation.

Approved:

E. F. SWEET,
Acting Secretary.

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ABBREVIATIONS.

INTERNATIONAL ABBREVIATIONS USED IN THIS LIST.

Nature of service:

- PG=General public
 PR=Limited public or limited commercial.
 P=Private.
 O=Government business exclusively.

Hours of operation:

- N=Continuous service.
 X=No regular hours.
 m=a. m.
 s=p. m.
 12 m=Midday.
 12 s=Midnight.
 fr.=Franc (francs).
 c.=Cents.

OTHER ABBREVIATIONS.

- Name =Name of station.
 G. loc. =Geographical location (O=west longitude, N=north latitude).
 Call =Radio call letters.
 System=Radio system used and sparks per second.
 Range =Normal range in nautical miles.
 W. L. =Wave lengths.
 Service=Nature of service.
 Hours =Hours of operation.
 Rates =Ship or coast charges in francs and dollars.
 Notes =Refers to notes in the Berne list.
 Co. =Company.

NEW STATIONS.

LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the list of Radio Stations of the United States, edition of July 1, 1914, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Longitude and latitude (approximate).	Call signal.
Akron, Ohio ¹	O 81 33 00	WOI
Detroit, Mich ¹	N 41 06 00	
	O 83 04 00	WOK
	N 42 19 00	

¹ Radio station operated and controlled by the Goodyear Tire & Rubber Co.

SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the list of Radio Stations of the United States, edition of July 1, 1914, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name.	Call signal.	System.	Wave lengths.	Ship rate.	
				Per word.	Minimum per radiogram.
Antilla ¹	KWD		300, 600		
Ardmore ²	KIA		300, 600		
Balboa ³	WHU	Marconi.....	300, 600	4 c. (0.20 fr.)	40 c. (2 fr.)
Corning ²	KIH		300, 600		

¹ Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America.

² New York & Cuba Mail Steamship Co. (Ward Line), owner of vessel.

³ Standard Oil Co. of New Jersey, owner of vessel.

⁴ American-Mexican Steamship & Trading Co., owner of vessel.

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SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—continued.

Name.	Call signal.	System.	Wave lengths.	Ship rate.	
				Per word.	Minimum per radiogram.
Dacia * 1	KGD	Marconi, 500.....	300, 600	4 c. (0.20 fr.) 8 c. (0.40 fr.)	² 40 c. (2 fr.) ³ 80 c. (4 fr.)
Despatch * 4	WOA	Marconi.....	300, 600	4 c. (0.20 fr.)	40 c. (2 fr.)
Georgiana * 5	KJE	do.....	300, 600		
Guantanamo 6	KWN		300, 600		
Latouche 7	WAI	Kilbourne & Clark.....	300, 600		
Owera * 8	KZG	Marconi.....		4 c. (0.20 fr.)	40 c. (2 fr.)
Petrolite 9	KIF		300, 600		
Santa Ana 7	WAL	Kilbourne & Clark.....	300, 600	4 c. (0.20 fr.)	40 c. (2 fr.)
Westwego 10	KGE	Telefunken, 1,000.....	300, 600	4 c. (0.20 fr.) 12 c. (0.60 fr.)	² 40 c. (2 fr.) ³ \$1.20 (6 fr.)

* Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America.

¹ Edward N. Breitung, owner of vessel. The station has a range of 150 miles, general public service, with no regular hours.

² North and South American service.

³ Transoceanic service.

⁴ Border Line Transportation Co., owner of vessel.

⁵ Walker, Armstrong Co., owner of vessel.

⁶ New York & Cuba Mail Steamship Co. (Ward Line), owner of vessel.

⁷ Alaska Steamship Co., owner of vessel.

⁸ Peter C. Gerry, owner of vessel (yacht).

⁹ Standard Oil Co. of New Jersey, owner of vessel.

¹⁰ Radio station operated and controlled by the Union Petroleum Steamship Co., owner of vessel. The station has a range of 200 miles, general public service, with no regular hours.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b=ship station; c=land station.]

Call signal.	Station.	Call signal.	Station.
KGD	Dacia.....b	KZG	Owera.....b
KGE	Westwego.....b	WAI	Latouche.....b
KIA	Ardmore.....b	WAL	Santa Ana.....b
KIF	Petrolite.....b	WHU	Balboa.....b
KIH	Corning.....b	WOA	Despatch.....b
KJE	Georgiana.....b	WOI	Akron, Ohio.....c
KWD	Antilla.....b	WOK	Detroit, Mich.....c
KWN	Guantanamo.....b		

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the list of Radio Stations of the United States, edition of July 1, 1914, only.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Agricultural College, N. Dak.	9YG	300, 480, 600, variable.	P	X	North Dakota Agricultural College.
Canal Dover, Ohio.....	8ZX	450, 600.....	P	X	Harry S. Weber.
Cincinnati, Ohio.....	8ZF	200, 300, 450, 600.....	P	X	Henry M. Rubel, jr.
Columbus, Ohio.....	8YO	400.....	P	X	Ohio State University.
Farmington, Conn.....	1ZZ	200, 300, 425, 600.....	P	8s-12s	David Lyon Moore.
Hamilton, Ohio.....	8ZU	300, 600, 800.....	P	X	Doron Bros. Electric Co.
Hartford, Conn.....	1ZM	200, 300, 425, 600.....	P	7s-11s	Hiram Percy Maxim.
Illioopolis, Ill.....	9ZK	200, 300, 450, 600.....	P	X	Harry J. E. Knotts, "State-Center Record."
New York, N. Y.....	2XU	300, 600, 2000, 40,000, variable.	P	X	Peter Cooper Hewitt.
Northampton, Mass.....	1ZL	200, 300, 425, 600.....	P	X	Dean A. Lewis.
Springfield, Ohio.....	8ZM	300, 450, 600.....	P	X	Ross McGregor.
St. Louis, Mo.....	9YR	150, 600.....	P	X	St. Louis University.
Wheeling, W. Va.....	SZW	300, 450, 600, 1800.....	P	X	John C. Stroebel, jr.

SPECIAL LAND STATIONS, GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1ZL	First district:	8ZM	Eighth district—continued.
1ZM	Northampton, Mass.	8ZU	Springfield, Ohio.
1ZZ	Hartford, Conn.	8ZW	Hamilton, Ohio.
	Farmington, Conn.	8ZX	Wheeling, W. Va.
	Second district:		Canal Dover, Ohio.
2XU	New York, N. Y.		Ninth district:
8YO	Eighth district:	9YG	Agricultural College, N. Dak.
8ZF	Columbus, Ohio.	9YR	St. Louis, Mo.
	Cincinnati, Ohio.	9ZK	Illinois, Ill.

ALTERATIONS AND CORRECTIONS.

LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

Alterations and corrections to be made in the list of Radio Stations of the United States, edition of July 1, 1914, and in the International List of Radiotelegraph Stations, published by the Berne bureau.]

HOLLISTER, Cal.—G. loc. (approximate), O 121° 24' 00", N 36° 55' 43"; system, composite, 120 or 240; W. L., 300, 600, 1650.

SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

Alterations and corrections to be made in the list of Radio Stations of the United States, edition of July 1, 1914, and in the International List of Radiotelegraph Stations, published by the Berne bureau.]

A. G. LINDSAY.—Name, Paylof.

ALMIRANTE.—Range, 500; system, composite, 1000; hours, N; rates, 8 c. (0.40 fr.) per word, 80 c. (4 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Tropical Radio Telegraph Co. Almirante Steamship Corporation, owner of vessel.

ARGYLL (WTB).—Strike out system; strike out rates. Note, Union Steamship Co. (Union Oil Co.), owner of vessel.

CARRILLO.—Name, Carrillo; range, 500; system, composite, 1000; service, PG; hours, N; rates 8 c. (0.40 fr.) per word, 80 c. (4 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Tropical Radio Telegraph Co., Carrillo Steamship Corporation, owner of vessel.

CITY OF EVERETT.—Range, 250; system, Telefunken, 1000; W. L., 300, 600; service, PG; hours, 9m-12m, 2s-5s, 8s-10.30s; rates, 4 c. (0.20 fr.) per word, 40 c. (2 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Atlantic Communication Co. Standard Oil Co. of New York, owner of vessel.

COALINGA.—Note, Union Steamship Co. (Union Oil Co.), owner of vessel.

CRASTER HALL.—System, Marconi; rates, 4 c. (0.20 fr.) per word, 40 c. (2 fr.) minimum per radiogram.

DORA.—Strike out system; W. L., 300, 600; strike out rates. Note, Alaska Steamship Co., owner of vessel.

EL ALBA.—System, Marconi, 240; hours, X.

EL CID.—Hours, X.

EL NORTE.—Range, 200; system, Marconi, 400; W. L., 300, 600; service, PG; hours, X; rates, 4 c. (0.20 fr.) per word, 40 c. (2 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Southern Pacific Co., owner of vessel.

EL SUD.—System, Marconi, 240; hours, X.

GOLIAH.—System, Kilbourne & Clark.

HERMAN FRASCH.—Range, 250; system, Telefunken, 1000; hours, 9m-12m, 2s-5s, 8s-10.30s. Notes, Radio station operated and controlled by the Atlantic Communication Co. Union Sulphur Co., owner of vessel.

IOWA (WFD).—Strike out all particulars.

MEDINA.—Range, 200; system, Marconi, 240; service, PG; hours, N; rates, 4 c. (0.20 fr.) per word, 40 c. (2 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Mallory Steamship Co., owner of vessel.

- OCEANA.**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Bermuda-American Steamship Corporation, owner of vessel.
- OHIOAN.**—Range, 200; system, Telefunken, 1000; hours, 9m-12m, 2s-5s, 8s-10.30s; rates, 4 c. (0.20 fr.) per word, 40 c. (2 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Atlantic Communication Co. American Hawaiian Steamship Co., owner of vessel.
- OLEUM.**—Strike out system; W. L., 300, 600; strike out rates. Note, Fillmore Condit (Union Oil Co.), owner of vessel.
- PASTORES.**—Range, 500; system, composite, 1000; service, PG; hours, N; rates, 8 c. (0.40 fr.) per word, 80 c. (4 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Tropical Radio Telegraph Co. Pastores Steamship Corporation, owner of vessel.
- POLARINE.**—Note, Standard Oil Co. of New York, owner of vessel.
- RAYO.**—Range, 250; system, Telefunken, 1000; W. L., 300, 600; service, PG; hours, 9m-12m, 2s-5s, 8s-10.30s; rates, 4 c. (0.20 fr.) per word, 40 c. (2 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Atlantic Communication Co. Standard Oil Co. of New York, owner of vessel.
- ROMA (WTE).**—Strike out system; W. L., 300, 600; strike out rates. Note, Union Steamship Co. (Union Oil Co.), owner of vessel.
- SARATOGA (KWS).**—System, Marconi, 240.
- SEGURANCA.**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Edward N. Breitung, owner of vessel.
- SOCONY.**—Range, 250; system, Telefunken, 1000; W. L., 300, 600; service, PG; hours, 9m-12m, 2s-5s, 8s-10.30s; rates, 4 c. (0.20 fr.) per word, 40 c. (2 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Atlantic Communication Co. Standard Oil Co. of New York, owner of vessel.
- TENADORES.**—Range, 500; system, composite, 1000; service, PG; hours, N; rates, 8 c. (0.40 fr.) per word, 80 c. (4 fr.) minimum per radiogram. Notes, Radio station operated and controlled by the Tropical Radio Telegraph Co. Tenadores Steamship Corporation, owner of vessel.
- VENTURA.**—Strike out range; strike out system; strike out rates. Note, Oceanic Steamship Co., owner of vessel.
- WASHTENAW.**—Strike out range; strike out system; strike out hours; strike out rates. Note, Union Steamship Co. (Union Oil Co.), owner of vessel.
- WHITTIER.**—Strike out range; strike out system; strike out hours; strike out rates. Note, Max Dyer (Union Oil Co.), owner of vessel.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KDE, read: Carrillo (b). Strike out particulars following call signal **WFD**. **WNO**, read: Pavlof (b).

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

Alterations and corrections to be made in the list of Radio Stations of the United States, edition of July 1, 1914, only.]

- PENIKESE, MASS.**—Strike out all particulars
St. LOUIS, Mo. (9YC).—Call, 9XC; W. L., 700, variable.

SPECIAL LAND STATIONS, ALPHABETICALLY BY CALL SIGNALS.

1ZP—Strike out all particulars. **9YC**—Change call to 9XC, placing information between 9XB and 9XD.

MISCELLANEOUS.

PRICES OF RADIO SERVICE PUBLICATIONS.

The list of Radio Stations of the United States, including amateur stations, is published annually as of July 1, and can be procured from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 15 cents per copy.

Copies of the Radio Communication Laws and Regulations of the United States, including the London Radiotelegraphic Convention, etc., may be procured from the Superintendent of Documents at 15 cents per copy.

All orders and inquiries should be addressed direct to the Superintendent of Documents, Government Printing Office, Washington, D. C. Remittances should be made to the Superintendent of Documents by means of coupons, postal or express orders, or certified checks. Postage stamps will not be accepted.

Inquiries concerning the purchase or subscription for the International List of Radio Stations of the World, the International List of Call Letters, and Supplements to both should be addressed direct to the International Bureau of the Telegraph Union, Radiotelegraphic Service, Berne, Switzerland.

OPERATOR'S SERVICE RECORDS.

All operators are warned that any illegal alteration or addition to the service record on the backs of radio operator licenses may constitute a forgery or alteration, and operators may be prosecuted therefor in addition to the suspension of their licenses.

WAVE LENGTHS AND INTERFERENCE.

With the opening of many high-power stations during the last two years the Bureau has received complaints of interference, particularly on the longer wave lengths.

Heretofore, in the issuing of licenses, in very few instances have wave lengths requested by commercial companies been refused. However, some consideration now must be given to the distribution of wave lengths, especially among high-power stations.

The act of August 13, 1912, to regulate radio communication, was designed to execute, in behalf of the United States, the international radiotelegraph convention, and thus to promote the orderly exchange of radiotelegrams.

Section 2 of the act empowers the Secretary of Commerce to specify the wave length or wave lengths which may be used by commercial stations, and hereafter particular attention will be given to this matter and in most cases but one or two wave lengths above 1600 meters will be authorized for high-power stations.

The attention of those concerned is particularly invited to the London Radiotelegraph Convention service regulations, Article XXXV, paragraph 2, concerning the use of the 1800-meter wave length.

Applicants desiring the use of additional wave lengths must submit with Form 761 a detailed statement of the purpose for which additional wave lengths are desired, and such statement will be considered with regard to wave lengths assigned to other stations.

A request for several wave lengths for the purpose of passing from one wave length to another to avoid interference will not be considered.

RADIO SERVICE PERSONNEL.

Changes March 1, 1915:

The headquarters of L. R. Krumm, chief radio inspector, have been transferred to New York.

W. D. Terrell, radio inspector in charge at New York, has been transferred to the radio division of the Bureau of Navigation at Washington.

V. Ford Greaves, radio engineer of the Bureau of Navigation, has been transferred to the radio field service at large and will make a tour of the various radio districts.

THE OHIO FLOOD.

During the recent flood in the Ohio Valley, the Secretary of Commerce detailed J. F. Dillon, radio inspector in charge at Cleveland, to supervise the operation of commercial and amateur radio stations in the district and to cooperate with the authorities to expedite the exchange of messages relative to life and property.

Fortunately the flood did not reach the proportions of the flood of two years ago, and land-line communication was not interrupted. However, Mr. Dillon arranged with the owners of several powerful amateur stations in the flood district to transmit messages if necessary.

Before leaving the district Mr. Dillon inspected many stations with a view to organizing a chain of stations, so that communication can be maintained in the event of a recurrence of the conditions which prevailed during the flood of 1913. Several special amateur station licenses have been granted upon his recommendations.

FALSE CALL LETTERS.

Recently a list of amateur radio stations, published by private parties, came to the attention of the Bureau, and it was observed that several of the call letters of the stations were irregular and probably in some cases constitute violations of the law.

Receiving stations and sending stations which are not required to be licensed under the law should use two-letter or other unofficial signals. All three-letter combinations and the numbers 1 to 9, followed by two or three letters, are official and can only be used by the stations to which they are assigned by the proper Government authority.

Any station using an official call letter or call signal other than that properly assigned may be prosecuted for a violation of section 7 of the act of August 13, 1912.

COMMERCIAL EXTRA FIRST-GRADE OPERATOR EXAMINATIONS.

Naval and other Government operators who submit satisfactory evidence, certifying 18 months' satisfactory service during the two years previous to the date of filing application as radio operator on a Government vessel or at a Government land station open to general public service, are eligible to take the examination for commercial extra first-grade operator licenses, as such service is essentially the same as private commercial service. Government operators are not required by law to hold operator licenses; therefore the requirement that applicants must hold commercial first-grade licenses is waived in such cases.

When the examination papers of applicants for commercial extra first-grade licenses are forwarded to the Bureau of Navigation, evidence of service should be attached showing the number of months of sea service and number of months of land service, as these particulars are incorporated in the licenses when issued.

LONDON RADIOTELEGRAPH CONVENTION.

The following is a list of the countries which have ratified or adhered to the London radiotelegraph convention, giving dates. The letters "A" and "R" denote adherence and ratification respectively.

Country.	Date.	Country.	Date.
Austria.....	Mar. 12, 1914 R	Japan.....	July 16, 1913 R
Belgium (including Belgian Congo).....	Nov. 23, 1912 R	Mexico.....	Oct. 6, 1913 A
Bosnia-Herzegovina.....	Mar. 12, 1914 R	Monaco.....	Dec. 10, 1912 R
Brazil.....	Dec. 18, 1914 R	Morocco.....	Nov. 2, 1914 R
Bulgaria.....	Apr. 27, 1914 R	Netherlands (including colonies).....	Mar. 20, 1913 R
Chile.....	Apr. 16, 1914 R	Nicaragua.....	May 27, 1914 A
Columbia.....	Aug. 25, 1914 A	Norway.....	Aug. 8, 1913 R
Cyrenaica.....	Jan. 13, 1914 A	Panama.....	July 14, 1914 A
Denmark.....	Apr. 29, 1913 R	Portugal.....	Dec. 2, 1913 R
Egypt.....	Feb. 1, 1913 R	Roumania.....	July 5, 1913 R
France (including French West Africa, French Equatorial Africa, Indo-China, Madagascar, and Tunis).....	Feb. 17, 1914 R	Russia.....	Apr. 5, 1913 R
Germany (including protectorates).....	July 5, 1913 R	San Marino.....	Aug. 1, 1913 R
Greece.....	July 24, 1914 R	Santo Domingo.....	July 1, 1913 R
Guatemala.....	July 10, 1914 A	Sarawak.....	Apr. 23, 1914 A
Honduras.....	Feb. 11, 1915 A	Siam.....	May 20, 1913 R
Hungary.....	Mar. 12, 1914 R	Spain.....	July 8, 1913 R
Italy (including colonies of Eritrea and Somalia).....	June 18, 1913 R	Sweden.....	Aug. 8, 1913 R
		Tripolitana.....	Jan. 13, 1914 A
		United Kingdom of Great Britain and Ireland.....	June 2, 1913 R
		United States of America.....	Feb. 21, 1913 R
		Zanzibar.....	July 14, 1913 A

NORMAL WAVE LENGTH.

Every coast station open to general public service is required to have a normal sending and receiving wave length of 600 meters and all general public service with ship stations must be conducted on 300, 600, or 1800 meters.

The Department interprets the radio laws and the London convention to require that every coast station, excepting general and restricted amateur, shall have a normal wave length of 600 meters for use in case of distress or emergency, and licenses issued for such stations so indicate.

The indication of a 600-meter normal wave length for a special station does not mean that the station shall use this wave length for its *normal* business. All radio communication, other than general public service, must be conducted on some authorized wave length other than 300, 600, or 1800 meters, but the station is required, when open and no special business is being conducted, to listen in with the receiving apparatus tuned to receive the 600-meter wave length and must be prepared to transmit on 600 meters if necessary.

The Radio Laws and Regulations, edition of July 27, 1914, page 52, paragraphs 38 to 50, inclusive, bear on this subject and paragraph 44 provides that all coast stations shall listen in at intervals of not more than 15 minutes and for not less than 2 minutes, with the receiving apparatus adjusted to receive a 600-meter wave length. The act of August 13, 1912, section 4, regulation 11, requires general public-service coast stations to listen in at intervals of not less than 15 minutes and for a period of not less than 2 minutes with the receiver tuned to receive messages of 300-meter wave lengths.

SPECIAL AMATEUR STATION LICENSES.

The organization of a chain of stations in the Ohio flood district and the organization of the American Radio Relay League has caused an influx of applications for special amateur station licenses.

The attention of all concerned is invited to the Laws and Regulations, edition of July 27, 1914, page 55, paragraphs 63 and 64. Applications will not be considered by the Department if these requirements are not complied with.

The Bureau is satisfied that the American Radio Relay League is organized with a view to complying with the Laws and Regulations in all particulars, and radio inspectors in submitting their recommendations to the Department as to the issue of special amateur station licenses will give due consideration to an indorsement on an application by the proper officers of the league.

If all the requirements of the Laws and Regulations are complied with, the Bureau will approve a limited number of special amateur inland station licenses for members of the league, authorizing the use of a wave length of 425 meters.

Very few, if any, special amateur station licenses will be approved for stations along the coast or in localities where the operation of such stations may interfere with maritime, Government, or commercial radio communication. All holders of special amateur station licenses or applicants therefor are warned that such licenses may be suspended or revoked if interference is caused by the working of the stations or if any of the Laws and Regulations are violated.

RADIO RATES INCREASED.

The Marconi Wireless Telegraph Co. of America has been authorized to increase the rate of its station at Miami, Fla., for limited public service with the British Government station at Nassau, Bahamas, from 6 cents to 12 cents per word, effective March 15, 1915.

AMENDMENTS.

The list of Radio Stations of the United States, edition of July 1 1914, is hereby amended, as follows:

Introduction, page 9, sentence commencing on the sixth line should read:

"The rates in the international list are stated in francs and centimes. For approximate purposes, 1 franc equals 20 cents and 5 centimes equal 1 cent."

ADDITIONAL COPIES

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