

RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, December, 1915—No. 12

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DEPARTMENT OF COMMERCE,
BUREAU OF NAVIGATION,
Washington, January 14, 1916.

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 instruction, 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 contains information concerning Government, commercial, and special stations only. Information regarding amateur stations appears 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) are 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 are printed in the bulletin from time to time, as occasion warrants.

E. T. CHAMBERLAIN,
Commissioner of Navigation.

Approved:
E. F. SWEET,
Acting Secretary.

NEW STATIONS.

LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of July 1, 1915, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name.	Call signal.	System.	Wave lengths.	Service.	Hours.
Fort Constitution, N. H. ¹	WZE	U. S. Army.....	825	O	X
Fort Dade, Fla. ¹	WZK	do.....	825	O	X
Fort Moultrie, S. C. ¹	WZF	do.....	825	O	X

¹ Radio station operated and controlled by the United States Signal Corps, War Department, Washington, D. C.

SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of July 1, 1915, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name.	Call signal.	System.	Wave lengths.	Service.	Hours.
Alaska ¹	WWS	Kilbourne & Clarke, 240...	300, 450, 500, 600	PG	X
Edna ²	WSP	.....	.....	.....	.....
Galatea ³	WGF	Marconi.....	300, 600	.....	.....
Mackinaw ⁴	WHW	Halcun, 240.....	300, 600	PG	X
Nevada ⁵	WFD	.....	300, 600	.....	.....
North America ⁶	KRU	Composite.....	300, 600	PG	X
Orleanian ⁷	KON	Marconi.....	300, 600	.....	.....
Pacific.....	WRD	.....	300, 600	.....	.....

¹ Range, 100; rates, 4 c. per word 40 c. minimum per radiogram. Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.

² Sudden & Christensen, owner of vessel.

³ Radio station operated and controlled by the Marconi Co. E. L. Ford, owner of vessel.

⁴ Range, 500; rates, North and South American service, 4 c. per word, 40 c. minimum per radiogram; transoceanic service, 8 c. per word 80 c. minimum per radiogram. Radio station operated and controlled by George and James Flood, owners of vessel.

⁵ Goodrich Transit Co., owner of vessel.

⁶ Rates, North and South American service, 4 c. per word, 40 c. minimum per radiogram, transoceanic service, 8 c. per word, 80 c. minimum per radiogram. Radio station operated and controlled by the Merritt & Chapman Derrick and Wrecking Co., owner of vessel.

⁷ R. Lawrence Smith (Inc.), owner of vessel.

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of July 1, 1915, only.]

Name.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Lexington, Ky.....	9YL	500, 1800	P	X	Otto Holstein (Co. A, Signal Corps, Ky. N. G.).
Marion, Ohio.....	8ZD	200, 425	P	X	Keith Henney.
New Braunfels, Tex.....	5ZB	200, 450	P	X	Arthur E. Mollenhauer.
San Jose, Cal.....	6XF	300, 600, variable	P	X	Charles D. Herrold.
Wayne, Nebr.....	9YT	300, 425	P	X	U. S. Conn, president State Normal School.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

(b—ship station; c—land station.)

Call signal.	Name.	Call signal.	Name.
KON	Orleanian.....b	WSP	Edna.....b
KRU	North America.....b	WWS	Alaska.....b
WFD	Nevada.....b	WZE	Fort Constitution, N. H.....c
WGF	Galatea.....b	WZF	Fort Moultrie, S. C.....c
WHW	Mackinaw.....b	WZK	Fort Dade, Fla.....c
WRD	Pacific.....b		

SPECIAL LAND STATIONS, GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
5ZB	Fifth district: New Braunfels, Tex.	8ZD	Eighth district: Marion, Ohio.
6XF	Sixth district: San Jose, Cal.	9YL	Ninth district: Lexington, Ky.
		9YT	Wayne, Nebr.

ABBREVIATIONS.

The necessary corrections to the List of Radio Stations of the United States and to the International List of Radiotelegraph Stations, appearing in this bulletin under the heading "Alterations and corrections," are published after the stations affected in the following order:

- Name =Name of station.
 G. loc. =Geographical location: O=west longitude, N=north latitude.
 Call =Call letters assigned.
 System =Radio system used and sparks per second.
 Range =Normal range in nautical miles.
 W. L. =Wave lengths assigned: Normal wave length in italics.
 Service =Nature of service maintained:
 PG=General public.
 PR=Limited public.
 P=Private.
 O=Government business exclusively.
 Hours =Hours of operation:
 N=Continuous service.
 X=No regular hours.
 m=a. m. (12m=midday).
 s=p. m. (12s=midnight).
 Rates =Ship or coast charges, in cents: c=cents. (The rates in the international list are given in francs and centimes. For approximate purposes, 1 franc equals 20 cents and 5 centimes equal 1 cent.)
 Notes =Refer to notes in the Berne list.

OTHER ABBREVIATIONS.

Marconi Co.=Marconi Wireless Telegraph Co. of America.

ALTERATIONS AND CORRECTIONS.

LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of July 1, 1916, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

- CHICAGO, ILL. (WGO).—Hours, 7m-6s, 8s-7m.
 EAST SAN PEDRO, CAL.—Notes, Radio station operated and controlled by the Marconi Co. The station also communicates with Avalon, Cal. For radiotelegrams exchanged with the ships *Hermosa* and *Cabrillo*, 2 c. per word 20 c. minimum per radiogram (address and signature free of charge). For radiotelegrams exchanged with Avalon, Cal., 3 c. per word 30 c. minimum per radiogram.
 GRAND HAVEN, MICH.—Hours, 7m-11m, 8s-11s.
 JACKSONVILLE, FLA.—Range, 200; system, Marconi, 240.
 LUDINGTON, MICH.—Hours, 7m-11m, 12m-6s, 8s-1m, 2m-7m, when lake is open to navigation.
 MANITOWOC, WIS.—Hours, 8m-11.30m, 2.30s-6s, 7.30s-8.30s, time of the meridian 90° west of Greenwich.

MILWAUKEE, WIS.—Hours, 8m-12m, 1s-5m.

SAVANNAH, GA.—W. L., 300, 550, 600.

SEA GATE, N. Y.—Range, 200; system, Marconi, 1000.

SEATTLE, WASH. (KPA).—Range, 250; system, Marconi, 1000; W. L., 300, 540, 600, 1700, 3100; service, PG and limited commercial. Note, Radio station operated and controlled by the Marconi Co.

UNDERWOOD, WASH.—G. loc. (approximate), $0\ 45^{\circ}\ 45'\ 00''$, N. $121^{\circ}\ 32'\ 00''$; range, 75; system, composite, 400; W. L., 300, 600, 1700; hours, X.

VIRGINIA BEACH, VA.—Range, 200; system, Marconi, 480.

SHIP STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of July 1, 1915, and to the International List of Radiotelegraph Stations published by the Berns bureau.]

ADMIRAL EVANS.—Range, 250.

ADMIRAL WATSON.—Strike out all particulars.

ALAMO.—System, Marconi, 1,000; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.

ALLIANCE.—Rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.

ANN ARBOR No. 3.—Hours, X.

ANN ARBOR No. 4.—Hours, X.

ANN ARBOR No. 5.—Hours, X.

ANTILLA.—Range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.

ATENAS.—System, National Electric Signaling Co., 1,000.

CAMDEN.—System, Marconi, 400; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.

CARLOS.—Range, 500; system, Halcun, 240; W. L., 300, 500, 600. Note, Radio station operated and controlled by the Olson & Mahony Steamship Co., owner of vessel.

CHINA.—Notes, Radio station operated and controlled by the Marconi Co. China Mail Steamship Co., owner of vessel.

CITY OF ALPENA II.—System, Kilbourne & Clark, 120; W. L., 300, 450, 500, 600. Note, Radio station operated and controlled by the Detroit & Cleveland Navigation Co., owner of vessel.

CITY OF AUGUSTA.—Range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.

CITY OF DETROIT II.—System, Kilbourne & Clark, 120; W. L., 300, 450, 500, 600; hours, X. Note, Radio station operated and controlled by the Detroit & Cleveland Navigation Co., owner of vessel.

CITY OF GRAND RAPIDS.—Hours, X.

CITY OF MACKINAC II.—System, Kilbourne & Clark, 120; W. L., 300, 450, 500, 600. Note, Radio station operated and controlled by the Detroit & Cleveland Navigation Co., owner of vessel.

CITY OF ST. IGNACE.—System, Kilbourne & Clark, 120; W. L., 300, 450, 500, 600. Note, Radio station operated and controlled by the Detroit & Cleveland Navigation Co., owner of vessel.

CONGRESS.—Range, 150; system, Marconi, 480.

CORNING.—System, Marconi. Notes, Radio station operated and controlled by the Marconi Co. Standard Oil Co. of New Jersey, owner of vessel.

CREOLE.—Range, 300; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.

DE SOTO.—System, Marconi. Notes, Radio station operated and controlled by the Marconi Co. Standard Oil Co. of New Jersey, owner of vessel.

FORT BRAGG.—Strike out all particulars.

FRIEDA.—Strike out all particulars.

GOVERNOR.—System, Marconi, 480.

GRACE DOLLAR.—Range, 100; system, Marconi, 480.

HOLLAND (WDW).—Hours, X.

HUMBOLDT.—System, Marconi, 240.

- MANCHURIA.**—Notes, Radio station operated and controlled by the Marconi Co. Atlantic Transport Co., owner of vessel.
- MARIPOSA.**—Strike out all particulars.
- MONGOLIA.**—Notes, Radio station operated and controlled by the Marconi Co. Atlantic Transport Co., owner of vessel.
- MUSKOGEE.**—System, Marconi. Notes, Radio station operated and controlled by the Marconi Co. Standard Oil Co. of New Jersey, owner of vessel.
- NACOOCHEE.**—Range, 300; system, Marconi, 1,000.
- NORTHLAND (WNX).**—Strike out all particulars.
- ONEGA.**—Hours, X; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- PARAISO.**—Range, 200; system, Marconi, 480.
- PARISMINA.**—System, National Electric Signaling Co., 1,000.
- PERE MARQUETTE.**—W. L., 300, 500, 600; hours, X; service, limited commercial; strike out rates. Notes, Radio station operated and controlled by the Marconi Co. Pere Marquette Railroad Co., owner of vessel.
- PERE MARQUETTE 17.**—W. L., 300, 500, 600; service, limited commercial; hours, X; strike out rates. Notes, Radio station operated and controlled by the Marconi Co. Pere Marquette Railroad Co., owner of vessel.
- PERE MARQUETTE 18.**—W. L., 300, 500, 600; service, limited commercial; hours, X; strike out rates. Notes, Radio station operated and controlled by the Marconi Co. Pere Marquette Railroad Co., owner of vessel.
- PERE MARQUETTE 19.**—W. L., 300, 500, 600; service, limited commercial; hours, X. Notes, Radio station operated and controlled by the Marconi Co. Pere Marquette Railroad Co., owner of vessel.
- PERE MARQUETTE 20.**—W. L., 300, 500, 600; service, limited commercial; hours, X. Notes, Radio station operated and controlled by the Marconi Co. Pere Marquette Railroad Co., owner of vessel.
- PETROLITE.**—System, Marconi, 1,000. Notes, Radio station operated and controlled by the Marconi Co. Standard Oil Co. of New Jersey, owner of vessel.
- PRESIDENT.**—System, Marconi, 240. Notes, Radio station operated and controlled by the Marconi Co. Pacific Coast Steamship Co., owner of vessel.
- PRINCETON (KST).**—System, Marconi, 1,000. Notes, Radio station operated and controlled by the Marconi Co. Standard Oil Co. of New Jersey, owner of vessel.
- PROTEUS (KKP).**—Range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- SAN MATEO.**—Range, 300; system, Wireless Specialty Apparatus Co., 1,000; service, PG; hours, X; rate 8 c. per word 80 c. minimum per radiogram. Notes, Radio station operated and controlled by the Tropical Radio Telegraph Co. San Mateo Steamship Corporation, owner of vessel.
- SIBERIA.**—Notes, Radio station operated and controlled by the Marconi Co. Atlantic Transport Co., owner of vessel.
- SILVER SHELL.**—Range, 400; system, Marconi, 1000; W. L., 300, 450, 600; service, PG; hours, X.
- SOUTH AMERICAN (KVW).**—Strike out all particulars.
- VANADIS.**—Note, Radio station operated and controlled by Morton F. Plant, owner of vessel (yacht).
- WESTERN STATES.**—System, Kilbourne & Clark, 120; W. L., 300, 450, 500, 600. Note, Radio station operated and controlled by the Detroit & Cleveland Navigation Co., owner of vessel.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out particulars following the call signals KFF, KVW, WAW, WHP, WLH, and WNX.

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of July 1, 1915, only.]

- BOSTON, MASS. (1XB).**—Strike out all particulars.
- MONTGOMERY, ALA.**—W. L., 500, 1650, 1800.
- SAN FRANCISCO, CAL. (6XH).**—W. L., 300, 600, variable.
- ST. DAVIDS, PA.**—W. L., 425, 500.

MISCELLANEOUS.

RADIO STATIONS OF THE UNITED STATES.

[Nov. 1, 1915.]

Government, commercial, and special land stations.

Controlled by—	General public.		Limited public.		Limited commercial.		Government, official.		Special. ¹		Total.	
	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915
United States Navy.....	23	21		1			25	33			48	55
United States Army.....	7	9					32	39			39	48
Philippine insular government.....	6	6									6	6
Marconi Co.....	58	45	3	4	1	10				1	62	60
National Electric Signaling Co.....	1	2	1		1	1					3	3
Tropical Radio Telegraph Co.....	2	2									2	2
Federal Telegraph Co.....		3	6	4	2	1					8	8
Mutual Telephone Co. (Ltd.).....	3	3	2			2					5	5
Unclassified ²	5	7		3	9	32	2	2	54	127	70	171
Total.....	105	98	12	12	13	46	59	74	54	128	243	358

Ship stations.

Controlled by—	Number.		Controlled by—	Number.	
	1914	1915		1914	1915
United States Navy.....	248	228	Alaska Steamship Co.....		12
United States Coast Guard.....	25	24	Standard Oil companies.....		11
United States Army.....	34	51	Pacific-Alaska Navigation Co.....		5
United States Department of Commerce.....	6	7	Federal Telegraph Co.....		5
Marconi Co.....	330	367	Atlantic Communication Co.....	15	3
National Electric Signaling Co.....	19	20	Unclassified ²	197	120
Tropical Radio Telegraph Co.....	21	21	Total.....	895	895
American-Hawaiian Steamship Co.....		21			

¹ Including experimental and special amateur.² Includes individually operated stations.*Amateur stations.¹*

District and headquarters.	Number.		District and headquarters.	Number.	
	1914	1915		1914	1915
1. Boston, Mass.....	374	542	7. Seattle, Wash.....	114	203
2. New York, N. Y.....	503	636	8. Cleveland, Ohio.....	456	785
3. Baltimore, Md.....	543	682	9. Chicago, Ill.....	172	515
4. Savannah, Ga.....	36	54	Total.....	2,796	3,836
5. New Orleans, La.....	36	56			
6. San Francisco, Cal.....	562	383			

¹ To July 1.

Summary.

Kind of station.	Number.		Kind of station.	Number.	
	1914	1915		1914	1915
Government land stations.....	93	109	Government land and ship stations.....	406	419
Private, commercial, and private special land stations.....	150	249	Private commercial and private special stations, land and ship.	732	834
Total.....	243	358	Total.....	1,138	1,253
Government ship stations.....	313	310	Amateur stations.....	2,796	3,836
Private commercial and private ship stations.....	582	585	Grand total.....	3,934	5,099
Total.....	895	895			

LOS ANGELES AMATEURS REPORTED FOR VIOLATIONS.

During a recent visit of V. Ford Greaves, radio engineer of the Bureau, and Ellery W. Stone, assistant radio inspector at San Francisco, the following Los Angeles amateur radio stations were found to be operating in violation of the radio act, and the cases have been referred to the United States district attorney for prosecution:

Hadys Hancock, Venice Pier, Venice, Cal., was found to be using a wave length in excess of 200 meters; maximum penalty, \$100.

Richard White, 435 Oakland Avenue, Pasadena, Cal., operating an amateur station without a license and using improper call letters; maximum penalty, \$100 fine and imprisonment for not more than two months.

Ernest Underwood, 903 Commercial Street., Inglewood, Cal., using a wave length in excess of 200 meters; maximum penalty, \$100.

George Vodra, 211 South Avenue, Los Angeles, Cal., using an amateur sending station without either station or operator's license; maximum penalty, \$100 and imprisonment for not more than two months.

Stuart Dalton, 121 East Twenty-third Street, Los Angeles, Cal., using a wave length exceeding 200 meters; penalty, \$100.

Harry Blodgett, 1953 Bonsallo Avenue, Los Angeles, Cal., using a transmitting station for some time without station or operator's license; maximum penalty, \$100 fine and imprisonment for two months.

METHOD OF CORRECTING LIST OF RADIO STATIONS OF THE UNITED STATES.

The following method of keeping the List of Radio Stations of the United States up to date by means of the Radio Service Bulletin is published for the information and guidance of those concerned:

The blank pages provided at the back of the List of Radio Stations should be numbered from 1 to 24.

The list of new stations published in the Radio Service Bulletin should be cut out and pasted on one of these blank pages.

The names and call letters of new stations should then be written on the margin of the proper page in the main list, with an arrow indi-

ating the proper alphabetical position. Following the name and call letter should be written the number of the page at the back of the book on which the particulars regarding the new station appear. This constitutes an alphabetical index to new stations.

The names of new stations should be written in the main list under the heading "Land and ship stations, alphabetically by call signals," showing the proper call signals as published in the bulletin. All of the call signals allotted to the United States are published in the list and followed by blanks for this purpose.

As there is not space in the main list in which to write changes concerning particulars of stations, the tables of alterations and corrections published in the bulletin should be cut and pasted on the blank pages provided at the back of the List of Radio Stations in such a manner as to permit the reading of both sides of a sheet thus inserted. Following the name of the station in the List of Radio Stations, the particulars of which have been altered, should be written the number of the page in the back of the book on which the changes may be found. Where the alterations and corrections affect only the Berne list the reference note may be omitted. The names of stations which have been discontinued or dismantled should be crossed out on the main list.

Corrections or changes in call letters should be written in the List of Radio Stations under the proper heading.

AMENDMENTS.

The Radio Laws and Regulations of the United States, edition of July 27, 1914, are hereby amended as follows:

Page 66, paragraph 149, should read:

Amateurs should write to the nearest examining officer in their vicinity (see pars. 134-145) for Form 756 "Application for operator's license," and to the radio inspector in their vicinity for Form 762 "Amateur applicant's description of apparatus."

Foreign-born applicants for station licenses must submit satisfactory evidence of their citizenship.

Page 67, paragraph 156, add the following sentence:

Licenses will not be signed by examining officers until the oath of secrecy has been properly executed.

Page 67, paragraph 160, last sentence should read:

Licenses held by them must be submitted to the examining officer.

Page 67, paragraph 161, should read:

Radio operators who pass the examination for a higher-grade license are required to submit their existing licenses to examining officers to be marked "Canceled."

Page 67, paragraph 162, should read:

Expired or canceled licenses will be returned to the licensees, marked "Canceled" or "Expired" in red across their faces, provided the particulars on Form 756, submitted herewith, are found correct by the examining officer. The service record shown on the reverse side of the license must be transcribed on Form 756.

Page 70, paragraph 175, should read:

Whenever practicable, the radio inspector shall satisfy himself on his visit before the departure of a steamer subject to the act of June 24, 1910, as amended July 23, 1912, that the radio apparatus is efficient and in good working order within the meaning of the act. If the apparatus does not comply with the law, the radio inspector will furnish the master with the stub of Form 771 "inspection record" on which will be noted the particulars in which the apparatus does not comply with the law. Where apparatus is found to be in compliance with the law, the stub of Form 771 will not be detached.

Page 70, paragraph 176, should read:

Masters of vessels entering a port of the United States and expecting to leave under the act of June 24, 1910, as amended July 23, 1912, should file Form 753a "Radio declaration" (Appendix A) in duplicate with the customs officer at the time of entry. The customs officer will furnish one copy to the radio inspector in order that proper inspection of the radio equipment may be made before departure.

Page 70, paragraph 177, should read:

For each departure of a steamer under the act of June 24, 1910, as amended July 23, 1912, the master is required to furnish to the customs officer a certificate in the form of Appendix B (Form 753b) "Master's certificate of radio apparatus." Such certificates shall be retained in the files of the collectors of customs. The collector of customs will arrange for the collection of these certificates at all times.

[Page 10 is intentionally blank in the original document]

Page 75, Radio Service forms, Appendix A, should read:

Radio service Form 753a.

RADIO DECLARATION

(To be submitted in duplicate)

DEPARTMENT OF COMMERCE

BUREAU OF NAVIGATION

RADIO SERVICE

NOTICE.—“The radio equipment must be in charge of two or more persons skilled in the use of such apparatus, one or the other of whom shall be on duty at all times while the vessel is being navigated. Such equipment, operators, the regulation of their watches, and the transmission and receipt of messages, except as may be regulated by law or international agreement, shall be under the control of the master, in the case of a vessel of the United States; and every willful failure on the part of the master to enforce at sea the provisions of this paragraph as to equipment, operators, and watches shall subject him to a penalty of one hundred dollars.”—*Act of July 23, 1912.*

PORT OF.....

DATE....., 191

This is to certify that the.....
(Nationality.)

S. S.

of the.....
(Name of company or line.)

of which I am master, entered this port on....., 191

having in crew..... persons and licensed or certified to
(Number.)

carry..... passengers; that the said vessel { is }
(Number.) { is not }*

equipped with radio apparatus as required by the act of June 24, 1910, as amended

July 23, 1912; that the radio station is in charge of..... properly licensed
(Number.)

radio operators and the apparatus is in { efficient } † condition.
{ inefficient }

.....
Master or Agent.

This form should be filed in duplicate with the collector of customs at time of entry, who will furnish one copy to the radio inspector of the district on the date of entry in order that proper inspection may be made of the radio apparatus prior to the clearance of the vessel.

* Strike out *is* or *is not* as the case may be.

† Strike out *efficient* or *inefficient* as the case may be.

Page 75 (Radio Service forms). The form number of Appendix B has been changed from 753 to 753b, the form remaining as heretofore.