

RADIO SERVICE BULLETIN

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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 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.]

Station.	Call signal.	Range.	Wave lengths.	Service.	Hours.	Station controlled by—
Anchorage, Alaska ¹	NZY					Alaska Engineering Commission. Alaska Packers' Association.
Chignik, Alaska ^{2,3}	KHC	200	300, 600 600, 1610	(12)	X	
Clarks Point, Alaska ^{4,5} ..	KHG	200	300, 400, 500, 600	(12)	X	Do.
Koggiung, Alaska (KHB). ^{3,5}	KHB	200	300, 400, 500, 600	(12)	X	Do.
Koggiung, Alaska (KVV). ^{5,7}	KVV	100	300, 450, 600	(12)	X	Alaska Fishermen's Packing Co.
Larsen Bay, Alaska ^{2,8} ..	KHA	200	300, 500, 600, 1610	(12)	X	Alaska Packers' Association.
Naknek, Alaska (KHT). ^{5,9}	KHT	200	300, 500, 600, 1610	(12)	X	Do.
Port Moller, Alaska ¹⁰ ...	KWR	150	300, 450, 600, 1610	PG	(11)	Pacific-American Fisheries.
Snag Point, Alaska ^{2,12} ..	KHF	200	300, 400, 500, 600	(12)	X	Alaska Packers' Association.

¹ System, Kilbourne & Clark.

² Note, Radio station open from approximately April to October each year.

³ G. loc. (approximate), O 158° 31' 30", N. 56° 17' 30"; system, Kilbourne & Clark, 1,000. Note, Radio station communicates with United States naval station at Kodiak, Alaska, and Alaska Packers' Association stations at Larsen Bay and Naknek, Alaska.

⁴ G. loc. (approximate), O 158° 31' 30", N. 58° 50' 45"; system, Kilbourne & Clark, 120. Note, Radio station communicates with stations of the Alaska Packers' Association at Snag Point, Naknek, and Kvichak, Alaska, and vessels of the association.

⁵ G. loc. (approximate), O 157° 00' 00", N. 59° 02' 30"; system, Kilbourne & Clark, 120. Note, Radio station communicates with stations of the Alaska Packers' Association at Naknek, Snag Point, and Clarks Point, Alaska, and vessels of the association.

⁶ Station is in operation from approximately July 1 to Aug. 20.

⁷ G. loc. (approximate), O 156° 55' 00", N. 59° 00' 00"; system, Kilbourne & Clark, 120.

⁸ G. loc. (approximate), O 153° 59' 40", N. 57° 37' 30"; system, Kilbourne & Clark, 1,000. Note, Radio station communicates with stations of the Alaska Packers' Association at Chignik, and Naknek, Alaska, and with the United States naval station at Kodiak, Alaska.

⁹ G. loc. (approximate), O 157° 00' 00", N. 58° 43' 30"; system, Kilbourne & Clark, 1,000. Note, Radio station communicates with United States naval stations at Kodiak, St. Paul, and Dutch Harbor, Alaska, and the vessels and land stations of the Alaska Packers' Association.

¹⁰ G. loc. (approximate), O 160° 40' 00", N. 59° 50' 00"; system, Kilbourne & Clark, 1,000.

¹¹ Hours, 8.30 a. m. to 12 m., 1 to 5 p. m., and other hours when business warrants.

¹² G. loc. (approximate), O 158° 27' 15", N. 59° 02' 30"; system, Kilbourne & Clark, 120. Note, Radio station communicates with stations of the Alaska Packers' Association at Naknek, Clarks Point, and Kvichak, Alaska, and with vessels of the association.

¹³ Service, limited commercial.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

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

Call signal.	Name.	Call signal.	Name.
KGW	D. N. Luckenbach.....	b	Royal Arrow.....
KHA	Larsen Bay, Alaska.....	c	Munplace.....
KHB	Koggiung, Alaska, KHB.....	c	Munsomo.....
KHC	Chignik, Alaska.....	c	KVV
KHF	Snag Point, Alaska.....	c	KWR
KHG	Clarks Point, Alaska.....	c	NZX
KHT	Naknek, Alaska, KHT.....	c	NZY
KI	Acme.....	b	WBH
KIQ	Astral.....	b	WCU
KNS	Sucrosa.....	b	WCW
KNT	Mielero.....	b	WDH
KNV	Cubadist.....	b	WMU
KPK	Starlite.....	b	WOL
KPL	Moonlite.....	b	WRP ¹
KPO	Twillite.....	b	WRP ¹
KPP	Dawnlite.....	b	WRP ¹
KPQ	Sunlite.....	b	WRP ¹
KPR	Daylite.....	b	WRP ¹
KSV	Standard Arrow.....	b	WSU
			Republic.....

¹ This call is interchangeable among the following tugs (one set of apparatus only being used): Dauntless, Defiance, Fearless, Hercules, and Sea Rover.

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.]

Vessel.	Call signal.	System.	Wave lengths.	Owner of vessel.
Acme ^{1, 2, 3}	KIJ	Marconi	300, 450, 600	Standard Transportation Co.
Astral ^{1, 2, 3}	KIQ	do	300, 450, 600	Do.
Anne W.	WMU	do	300, 600	Hosford Transportation Co.
Colombia	WBH	do	300, 600	Pacific Mail Steamship Co.
Conneaut ^{2, 4}	WCU	do	300, 600	Wyandotte Transportation Co.
Cubadist ^{2, 3}	KNV	do	300, 600	Cuba Distilling Co.
Dauntless ^{1, 5, 6}	WRP ⁶	Haller-Cunningham impulse excited. ¹³	300, 600	Ship Owners & Merchants' Tugboat Co.
Dawnlite	KPP	Marconi	300, 600	Standard Oil Co. of New Jersey.
Daylite	KPR	do	300, 600	Do.
Defiance ^{1, 7}	WRP ⁶	Haller-Cunningham impulse excited. ¹³	300, 600	Ship Owners & Merchants' Tugboat Co.
D. N. Luckenbach ^{2, 8}	KGW	Marconi	300, 600	Edgar F. Luckenbach.
Fearless ^{1, 8}	WRP ⁶	Haller-Cunningham impulse excited. ¹³	300, 600	Ship Owners & Merchants' Tugboat Co.
Hercules ^{1, 9}	WRP ⁶	do	300, 600	Do.
Los Angeles ^{1, 9, 10}	WOL	Federal Poulsen Arc, 300.	300, 600 1800	Federal Telegraph Co.
L. Roscoe	NZX	Kilbourne & Clark		Alaskan Engineering Commission.
Mielero ^{2, 3}	KNT	Marconi	300, 600	Cuba Distilling Co.
Moonlite	KPL	do	300, 600	Standard Oil Co. of New Jersey.
Munplace ^{1, 2, 3}	KUG	do	300, 600	Munson Steamship Co.
Munsomo ^{1, 2, 3}	KUK	do	300, 600	Do.
Petoskey ^{2, 11}	WDH	do	300, 600	Chicago & South Haven Steamship Co.
Republic	WSU			John A. Hooper.
Royal Arrow ^{1, 2, 3}	KSW	Marconi	300, 450, 600	Standard Transportation Co.
Sea Rover ^{1, 12}	WRP ⁶	Haller-Cunningham impulse excited. ¹³	300, 600	Ship Owners & Merchants' Tugboat Co.
Sucrosa ^{2, 3}	KNS	Marconi	300, 600	Cuba Distilling Co.
Standard Arrow ^{1, 2, 3}	KSV	do	300, 450, 600	Standard Transportation Co.
Starlite	KPK	do	300, 600	Standard Oil Co. of New Jersey.
Sunlite	KPQ	do	300, 600	Do.
The Limit	WCV	do		Whitney Bros. Co.
Twilite	KPO	do	300, 600	Standard Oil Co. of New Jersey.

¹ Service, PG.

² Note, Radio station operated and controlled by Marconi Co.

³ 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.

⁴ Rates, 2 c. per word 20 c. minimum per radiogram.

⁵ Range, 100; hours, X; rates, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by Ship Owners & Merchants' Tugboat Co., owner of vessel.

⁶ This call is interchangeable among the following tugs (one set of apparatus only being used): Dauntless, Fearless, Defiance, Hercules, and Sea Rover.

⁷ Range, 100; hours, X; rates, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by Ship Owners & Merchants' Tugboat Co., owner of vessel.

⁸ Range, 100; hours, X; rates, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by Ship Owners & Merchants' Tugboat Co., owner of vessel.

⁹ Range, 100; hours, X; rates, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by Ship Owners & Merchants' Tugboat Co., owner of vessel.

¹⁰ Range, 200; hours, X. Note, Radio station operated and controlled by Federal Telegraph Co.

¹¹ Rates, 2 c. per word 20 c. minimum per radiogram.

¹² Range, 100; hours, X; rates, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by Ship Owners & Merchants' Tugboat Co., owner of vessel.

¹³ Sparks per second, variable.

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.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Bozeman, Mont	7ZD	200, 425	P	X	R. Earl Dawes.
Indianapolis, Ind.....	9YK	200, 450.....	P	X	James E. Weyant.
Lacey, Wash.....	7YS	300, 450, 600.	P	X	St. Martin's College.
Little Rock, Ark. (5XF).....	5XF	Variable.....	P	X	Arthur R. McCreary.
Media, Pa.....	3X	300, 400, 600.	P	X	Simon Delbert, jr.
Oxford, Ohio.....	8YR	200, 425.....	P	X	Miami University.
Philadelphia, Pa. (3XP).....	3XP	300, 400, 600.	P	X	Simon Delbert, jr.

SPECIAL LAND STATIONS, GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
3XO	Third district: Media, Pa.	7YS	Seventh district: Lacey, Wash.
3XP	Philadelphia, Pa. (3XP).	7ZD	Bozeman, Mont.
5XF	Fifth district: Little Rock, Ark. (5XF).	8YR	Eighth district: Oxford, Ohio.
		9YK	Ninth district: Indianapolis, Ind.

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 lengths 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, 1915, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

CHIGNIK, ALASKA.—Strike out all particulars.

CLARKS POINT, ALASKA.—Strike out all particulars.

DENVER, COLO.—W. L., 300, 575; service, limited commercial; hours, X. Note, This station limited to communication with the following stations: Ajax Gold Mining Co., Victor, Colo., and H. C. Colburn, Colorado Springs, Colo.

FORT MORGAN, ALA. (WFM).—Range, 200; system, Marconi, 400; W. L., 300, 445, 600. Note, In addition to hours previously published, station is also in operation from 9.40 a. m. to 9.50 a. m., daily.

KARLUK, ALASKA.—Strike out all particulars.

KOGGIUNG, ALASKA.—Strike out all particulars.

NAKNEK, ALASKA (KHT).—Strike out all particulars.

NUSHAGAK, ALASKA (KHF).—Strike out all particulars.

PASSAGRILLE, FLA.—G., loc. (approximate), $0^{\circ} 82' 44'' 16''$, N. $27^{\circ} 40' 53''$; range, 50; system, composite, 250; W. L., 300, 435, 600; service, PG; hours, X (this station also communicates with a land station (WIX) at St. Petersburg, Fla., the hours of operation being as follows: 8m-11m, 1s-5s, 7.30s-8s); rates, for communication with ships (cable count) per word 4 c. minimum per radiogram of 15 words 60 c., for communication with St. Petersburg, Fla. (not cable count), 10-word day message 35 c., additional words 2 c. each, 10-word night message 25 c., additional words 1 c. each, 50-word day letter 53 c., each additional 10 words or less one-fifth of initial rate, 50-word night letter 35 c., each additional 10 words or less one-fifth of initial rate.

PHOENIX, ARIZ.—Range, 300; system, Federal Poulsen arc; W. L., 3,000, 3,400; service, limited commercial; hours, 6m-6s, local standard time; rates, per radiogram of 15 words 50 c., additional words 3 c. each (domestic count). Note, This station is limited to communication with the Federal Telegraph Co.'s station at Los Angeles (KEX), Cal.

ST. PETERSBURG, FLA.—System, composite, 500; W. L., 300, 395, 600; service, limited commercial; hours, 8m-11m, 1s-5s, 7.30s-8s; rates (not cable count), 10-word day message 35 c., additional words 2 c. each, 10-word night message 25 c., additional words 1 c. each, 50-word day letter 53 c., each additional 10 words or less one-fifth of initial rate, 50-word night letter 35 c., each additional 10 words or less one-fifth of initial rate. Note, This station limited to correspondence with a land station (WRG) at Passagrille, Fla.

TAMPA, FLA.—W. L., 300, 510, 600; hours, 6m-8m, 10m-1s, 4s-7s (time of the meridian 90° west of Greenwich).

SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[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 Berne bureau.]

ARBOREAN.—Range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; service, PG; 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. Note, Radio station operated and controlled by Marconi Co.

ARDMORE.—System, Marconi.

BALBOA.—Strike out all particulars.

BARGE No. 1.—Name changed to *Inco No. 1*.

BUCCANEER.—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.

CHESTER W. CHAPIN.—System, Fessenden, 260; W. L., 300, 550, 600.

CONCHO.—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.

CONCORD.—System, Fessenden, 260; W. L., 300, 550, 600.

CONSTABLE HOOK.—(Name formerly *Henry Williams*); 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. Note, Radio station operated and controlled by Marconi Co.

- CURACAO.—System, Marconi; 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. Note, Radio station operated and controlled by Marconi Co.
- DADE.—Note, Radio station operated and controlled by Marconi Co.
- DIANA.—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. Note, Radio station operated and controlled by Marconi Co.
- ECUADOR.—System, Marconi; W. L., 300, 600.
- EL OCCIDENTE.—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.
- EL ORIENTE.—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.
- EL SOL.—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.
- EL SUD.—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.
- FRED'K. LUCKENBACH.—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. Note, Radio station operated and controlled by Marconi Co.
- GALATEA.—Rates, 2 c. per word 20 c. minimum per radiogram.
- GARGOYLE.—RANGE, 200; W. L., 300, 450, 600.
- GREAT NORTHERN.—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.
- HENRY WILLIAMS.—Name changed to *Constable Hook*.
- HEWITT.—(Name formerly *Pacific, KIL*). Note, Radio station operated and controlled by Union Sulphur Co., owner of vessel.
- H. H. ROGERS.—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. Note, Radio station operated and controlled by Marconi Co.
- ILLINOIS (KTH).—System, Marconi, 1,000; W. L., 300, 450, 600.
- INCO No. 1.—Name formerly *Barge No. 1*. Rates, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by Marconi Co.
- IROQUOIS (KVF).—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.
- J. A. CHANSLOR.—System, Federal Poulsen arc. Note, Radio station operated and controlled by Federal Telegraph Co.
- JOHN A. HOOPER.—System, Marconi, 480.
- LA BREA.—Range, 300; W. L., 300, 600, 1,800.
- LAKEPORT.—Rates, 2 c. per word 20 c. minimum per radiogram. Note, Radio station operated and controlled by Marconi Co.
- LAKEWOOD.—Rates, 2 c. per word 20 c. minimum per radiogram. Note, Radio station operated and controlled by Marconi Co.
- LEXINGTON (KNB).—W. L., 300, 550, 600.
- MANOA.—System, Marconi, 1,000; W. L., 300, 450, 600.
- MASCOTTE.—Range, 150; hours, N; 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. Note, Radio station operated and controlled by Marconi Co.
- MATINICOCK.—System, Marconi; 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. Note, Radio station operated and controlled by Marconi Co.
- MEDINA.—Range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; 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.
- MIAMI (KOZ).—Hours, N; 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. Note, Radio station operated and controlled by Marconi Co.
- NECHES. 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.

- NEVADA.—System, Marconi, 480; W. L., 300, 600. Note, Radio station operated and controlled by Marconi Co.
- NEW HAMPSHIRE (KXF).—System, Fessenden, 260; W. L., 300, 550, 600.
- NEW HAVEN (KXN).—System, Fessenden, 260; W. L., 300, 550, 600.
- NEW YORK (KUW).—Range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; service, PG; 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. Note, Radio station operated and controlled by Marconi Co.
- NORTHERN PACIFIC.—Range, 150; W. L., 300, 465, 600.
- PACIFIC (KIL).—Name changed to *Hewitt*.
- PEARL SHELL.—Rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. per radiogram. Note, Radio station operated and controlled by Marconi Co.
- REMLIK.—Note, Radio station operated and controlled by Willis S. Kilmer, owner of vessel.
- SANTA CATALINA.—Range, 200.
- SANTA CECILIA.—Range, 200.
- SANTA CRUZ (WPA).—Strike out all the particulars.
- SANTIAGO.—Range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; hours, N.
- SENATOR BAILEY.—System, Composite, 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. Notes, Radio station operated and controlled by Marconi Co.; Gulf Refining Co., owner of vessel.
- STANDARD.—System, Marconi.
- SURUGA.—Call, KGD; range, 300; system, Marconi, 1,000; W. L., 300, 450, 600; service, PG; 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. Note, Radio station operated and controlled by Marconi Co.
- TORMENTER.—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.
- VENEZUELA.—System, Marconi; W. L., 300, 600.
- VIRGINIA (KFR).—Note, Gaston, Williams & Wigmore Steamship Corporation, owner of vessel.
- WESTWEGO.—System, Marconi, 1,000; W. L., 300, 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. Note, Radio station operated and controlled by Marconi Co.
- YAGUEZ.—W. L., 300, 450, 600.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out all the particulars following the call signals: KHA, KHB, KHC, KHF, KHG, KHT, and WHU.

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.]

- ALAMEDA, CAL.—Strike out all the particulars.
- BURLINGTON, IOWA.—Note, Radio station operated and controlled by William W. Peters (Burlington High School).
- CHICAGO, ILL.—Strike out all the particulars.
- HARTFORD, CONN. (1ZT).—W. L., 200, 300, 425, 600; hours, X.
- NORWALK, OHIO.—Strike out all the particulars.
- OBERLIN, OHIO.—Strike out all the particulars.

SPECIAL LAND STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out all the particulars following the call signals: 6XS, 8ZI, 8ZO, and 9YH.

MISCELLANEOUS.

CHILEAN WIRELESS SERVICE.

In view of the fact that the press has lately spoken of opening the Chilean radiotelegraphic stations for commercial use, information was requested of the Director General of Telegraphs by the commercial attaché at Santiago as to the actual state of affairs. Under date of March 2 he replied:

The radiotelegraph stations have not been opened for public service because there are some which are not yet connected with the land lines and are also lacking in certain details which will be necessary for putting them into service. This office will advise you as soon as they are opened for use. I am sending you herewith a copy of the proposed tariff and other information which you have indicated a desire to know.

A translation of portions of the decree opening the wireless stations of Chile to public service, to which the director general refers in the above note, is as follows:

Whereas, there have been established in the country several radiotelegraphic stations and some of them are united to the land lines of the State Telegraph; and

Whereas, it would appear that these offices should be utilized by the public and in view of the facts presented by the Director General of Telegraphs, acting in accordance with the Director General of the Navy.

I decree that the Director General of Telegraphs shall take charge of the telegraphic service of the radiotelegraph stations and all details relating to the public service, collection of tariffs, and the relations which this country may have with other countries or administrations. The Navy will have charge in future of everything connected with the personnel, apparatus, and actual service of the radiotelegraphic stations.

Second. The radiotelegraphic offices will be opened to the public service from time to time, as the Director General of Telegraphs may announce, beginning with the offices which are now connected with the existing land lines.

The respective charges in the service of wireless interchange, in accordance with the international convention, will be:

- (a) To a coast station, 60 centimes of a franc (11.58 cents U. S.).
- (b) To a station on board a ship, 40 centimes (7.72 cents).
- (c) Land service, 10 centimes (1.93 cents).
- (d) Intermediary transit charges from coast or ship stations, and charges fixed for any special services requested by sender.

Fourth. In making collections for aerograms from the offices of the State Telegraphs, the following rates will be charged:

- (a) Aerograms sent to ships via station on the Chilean coast, 5.50 gold pesos (\$2 U. S.) for the first 10 words and 0.55 gold peso (\$0.20) for each additional word.
- (b) For radiotelegraphic exchange between the coast offices which are on the Chilean coast, 4 Chilean paper pesos (fluctuating value, \$0.15 to \$0.18) for the first 10 words, and 40 centavos Chilean paper currency for each additional word.
- (c) For the radio telegrams which are sent to any offices of the State Telegraph land lines from Chilean ships of war by the personnel of these warships, whether officials or members of the crew, 2 paper pesos for the first 10 words and 20 centavos for each additional word.
- (d) If it is necessary for a radiotelegram to pass over lines or stations of other administrations or companies, there will be collected in addition to the rates mentioned the charges corresponding to such lines or stations.
- (e) Radio telegrams for the press will be given the advantage of a discount of 50 per cent of the indicated tariffs, provided they comply with the respective regulations.

Fifth. For the present there will not be admitted to the radiotelegraphic service any special service with the exception of the radiotelegrams for the press.

Sixth. There will be no franks recognized in connection with the radiotelegraphic service except on messages sent by His Excellency the President of the Republic and official messages sent by the Secretary of State, the superior officers of the Navy, commanders of Chilean ships of war, and the Director General of Telegraphs.

All funds received by the offices of the State Telegraphs in payment for radiograms will be paid into the respective fiscal treasuries for the account of the State Telegraph combined service, and these fiscal treasuries will credit these funds to the respective

department accounts maintained by the fiscal treasurer in Santiago. There will be credited to the same account by the Director General of Telegraphs, the balances received from other countries and other administrations for the value of radiotelegrams. The payment of the balances due other countries or administrations for the account of radiotelegrams will be made from this same fund, which may be drawn upon for this purpose by the Director General of Telegraphs.

Eighth. For the present, and until other instructions are issued, the international regulations appended to the radiotelegraphic convention, which was subscribed to in London in July, 1912, will be followed.

COMMERCIAL EXTRA FIRST-GRADE LICENSES FOR OPERATORS ON UNITED FRUIT CO. SHIPS.

Under date of January 26, 1916, the Tropical Radio Telegraph Co. issued the following circular pointing out to operators on United Fruit Co. ships the desirability of securing commercial extra first-grade licenses:

TO ALL OPERATORS:

Ship operators are again reminded that it is highly desirable to hold the extra first-grade commercial operators' licenses issued by the Department of Commerce. The possession of such a license is a distinct mark of ability, and in considering men for promotion to positions as chief operators on board ship, as well as trick operators at shore stations, those holding an extra grade license will be given preference regardless of their length of service.

In general, it should be the aim of every radio operator on board a United Fruit Co. ship to hold an extra grade license.

Operators who obtain an extra grade license should notify the general office promptly, giving the license number and date issued.

Yours very truly,

GEO. S. DAVIS,
General Superintendent.

The commercial extra first-grade license is the highest class of license, and is issued by the Department of Commerce to radio operators who pass a special examination demonstrating unusual experience and skill. These licenses are given consideration by the Civil Service Commission in examinations for positions requiring knowledge of radiotelegraphy when experience is rated as a part of such examinations. To be eligible for the examination for the commercial extra first-grade license applicants must hold commercial first-grade licenses, and their certificates of skill in radio communication, issued under the act of June 24, 1910, or licenses under the act of August 13, 1912, must record 18 months' satisfactory commercial service at sea or at land stations, either or both, during the two years previous to the filing of the application for examination, as shown by indorsement on the license service records, or other satisfactory evidence, and provided that the applicants have not been penalized for a violation of the radio laws and regulations.

A speed of at least 30 words per minute, Continental Morse, and 25 words per minute, American Morse (five letters to the word), must be attained. The technical questions and the questions of the radio laws and regulations will be considerably wider in scope than those for commercial first grade, and a higher percentage will be required.

All examination papers, including the code test sheets, are marked and forwarded to the Commissioner of Navigation with a recommendation by the radio inspector or examining officer. Examination papers are marked upon the basis of 100, and licenses are recommended only if 80 or better is attained.

Licenses of this grade are issued by the Commissioner of Navigation, indorsed by the Secretary of Commerce, and delivered to the successful applicant through the examining officer.

UTILIZATION OF WIRELESS FOR TRANSMISSION OF WEATHER OBSERVATIONS.

At the request of the Weather Bureau arrangements have been made by the United States Bureau of Lighthouses for taking weather observations on the light vessels at Nantucket Shoals, Mass.; Diamond Shoals, N. C.; Frying Pan Shoals, N. C.; and Heald Bank, Tex. These light vessels are all equipped with radio, by means of which observations may be transmitted to any point desired.

LOS ANGELES AMATEURS FINED FOR RADIO VIOLATIONS.

On March 23, 1916, four amateurs, all residents of Los Angeles, Cal., appeared before Judge Oscar A. Trippet, of the United States District Court, and entered pleas of guilty to Federal indictments returned last December, charging them with operating radio stations without first having obtained licenses from the Government. Fines were imposed by Judge Trippet and the offenders were admonished to be more cautious in future.

The trial of two other amateurs, who pleaded not guilty, has been set for next July.

The maximum penalty for the above violation is a fine of \$100 and imprisonment for a period of two months.

BOSTON AMATEUR PENALIZED.

On April 19, 1916, the radio inspector at Boston, Mass., reported an amateur in his district for violation of sections 1, 3, and 7 of the act of August 13, 1912. The case was referred to the United States district attorney for prosecution. A verdict of guilty was rendered in the district court and a fine imposed.

The maximum penalty for the above violation is a fine of \$500 and confiscation of the apparatus unlawfully used.

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