

RADIO SERVICE BULLETIN

ISSUED MONTHLY BY ^{U.S.} BUREAU OF NAVIGATION (DEPARTMENT OF COMMERCE)

Washington, August 1, 1919—No. 28.

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DEPARTMENT OF COMMERCE,
BUREAU OF NAVIGATION,
Washington, August 1, 1919.

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

This publication, which was discontinued during the war, 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.

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:

WILLIAM C. REDFIELD,
Secretary of Commerce.

NEW STATIONS.

HE-8677
A3
2nd set

COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Operated and controlled by—	Address.
Port Beauchaire.....	KWO	Beauchaire Packing Co.....	Seattle, Wash.
Port Chatham.....	KWH	Alaska Ocean Food Co.....	Grand Trunk Pacific Dock, Seattle, Wash.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-oceanic service.				
		Cents.	Cents.				
Arenas.....	KIRM	4	4	PG	X	U. S. Shipping Board.	U. S. Navy.
Assinippi.....	KIPB	4	4	PG	X	do.	Do.
Batham.....	KIQT	4	4	PG	X	do.	Do.
Bathgate.....	KIQS	4	4	PG	X	do.	Do.
Bay Head.....	KINT	4	4	PG	X	do.	Do.
Belfort.....	KIQB	4	4	PG	X	do.	Do.
Boston Bridge.....	KINS	4	4	PG	X	do.	Do.
Burnwell.....	KIMS	4	4	PG	X	do.	Do.
Calno.....	KINV	4	4	PG	X	do.	Do.
Cambridge.....	KIRR	4	4	PG	X	do.	Do.
Canumset.....	KIQD	4	4	PG	X	do.	Do.
Cleopatra.....	KIQL	4	4	PG	X	do.	Do.
Cold Spring.....	KIQK	4	4	PG	X	do.	Do.
Corson.....	KIQV	4	4	PG	X	do.	Do.
Costigan.....	KINF	4	4	PG	X	do.	Do.
Coatl.....	KIQF	4	4	PG	X	do.	Do.
Cushnoc.....	KIMJ	4	4	PG	X	do.	Do.
Davidson County.....	KINX	4	4	PG	X	do.	Do.
Delavan.....	KIRQ	4	4	PG	X	do.	Do.
Derbyline.....	KIRT	4	4	PG	X	do.	Do.
Dochet.....	KIMR	4	4	PG	X	do.	Do.
Dorlestown.....	KIPG	4	4	PG	X	do.	Do.
East Side.....	KIMQ	4	4	PG	X	do.	Do.
Edna.....	KIPT	4	4	PG	X	do.	Do.
Eelbeck.....	KINQ	4	4	PG	X	do.	Do.
Fluor Spar.....	KIQX	4	4	PG	X	do.	Do.
Ft. Logan.....	KIQJ	4	4	PG	X	do.	Do.
Geo. H. Jones.....	KIPS	4	4	PG	X	do.	Do.
Haddon.....	KIRN	4	4	PG	X	do.	Do.
Huachuca.....	KIMX	4	4	PG	X	do.	Do.
Hugo'on.....	KIQR	4	4	PG	X	do.	Do.
Hvannis.....	KINC	4	4	PG	X	do.	Do.
John Ena.....	KIRS	4	4	PG	X	do.	Do.
Lake Cannonsburg.....	KIMV	4	4	PG	X	do.	Do.
Lake Fabius.....	KIPQ	4	4	PG	X	do.	Do.
Lake Fabyan.....	KINJ	4	4	PG	X	do.	Do.
Lake Fackler.....	KIQP	4	4	PG	X	do.	Do.
Lake Fairfax.....	KIRV	4	4	PG	X	do.	Do.
Lake Farber.....	KIRB	4	4	PG	X	do.	Do.
Lake Farmingdale.....	KIPZ	4	4	PG	X	do.	Do.
Lake Farragut.....	KIQN	4	4	PG	X	do.	Do.
Lake Festina.....	KEPQ	4	4	PG	X	do.	Do.
Lake Frolono.....	KEGN	4	4	PG	X	do.	Do.
Lake Frumet.....	KIRJ	4	4	PG	X	do.	Do.
Lake Gazette.....	KIPN	4	4	PG	X	do.	Do.
Lake Glasco.....	KINK	4	4	PG	X	do.	Do.
Lehigh.....	KINM	4	4	PG	X	do.	Do.
Liberty Glo.....	KIQZ	4	4	PG	X	do.	Do.
Luxpallie.....	KIPV	4	4	PG	X	do.	Do.
Maiden Creek.....	KIPX	4	4	PG	X	do.	Do.
Mount Evans.....	KIMT	4	4	PG	X	do.	Do.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—
continued.

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-oceanic service.				
Nedmac.....	KIQM	4	4	PG	X	U. S. Shipping Board..	U. S. Navy.
New Britain.....	KIRG	4	4	PG	X	do.....	Do.
Newton.....	KIRC	4	4	PG	X	do.....	Do.
Ogontz.....	KINB	4	4	PG	X	do.....	Do.
Olen.....	KINR	4	4	PG	X	do.....	Do.
Pawtucket.....	KINZ	4	4	PG	X	do.....	Do.
Pelican.....	KIRL	4	4	PG	X	do.....	Do.
Pere Marquette 8.....	KINL					Chicago & South Haven S. S. Co.	Do.
Pipestone County.....	KIMZ	4	4	PG	X	U. S. Shipping Board..	Do.
Pontchartrain.....	KIMP	4	4	PG	X	do.....	Do.
Pontia.....	KIPC	4	4	PG	X	do.....	Do.
Pyramus.....	KIPL	4	4	PG	X	do.....	Do.
Rock Island.....	KIND	4	4	PG	X	do.....	Do.
Salvation Lass.....	KIMN	4	4	PG	X	do.....	Do.
Santa Leonora.....	KIML	4	4	PG	X	do.....	Do.
S. B. Hunt.....	KIPR	4	4	PG	X	do.....	Do.
Sharon.....	KIRK	4	4	PG	X	do.....	Do.
Strathnaver.....	KIPP	4	4	PG	X	do.....	Do.
Thala.....	KIQQ	4	4	PG	X	do.....	Do.
Utina.....	KIPM	4	4	PG	X	do.....	Do.
Vacuum II.....	KIMK	4	4	PG	X	do.....	Do.
Waco.....	KIRP	4	4	PG	X	do.....	Do.
Wallkill.....	KIPD	4	4	PG	X	do.....	Do.
Watertown.....	KING	4	4	PG	X	do.....	Do.
West Aleta.....	KIQG	4	4	PG	X	do.....	Do.
West Cayote.....	KIRF	4	4	PG	X	do.....	Do.
West Chatala.....	KIPJ	4	4	PG	X	do.....	Do.
West Hepburn.....	KINP	4	4	PG	X	do.....	Do.
West Ison.....	KINN	4	4	PG	X	do.....	Do.
Westmoreland.....	KIQC	4	4	PG	X	do.....	Do.
West Segovia.....	KIPK	4	4	PG	X	do.....	Do.
Winyah.....	KIMM	4	4	PG	X	do.....	Do.
Woodmansie.....	KIPF	4	4	PG	X	do.....	Do.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

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

Call signal.	Name.	Call signal.	Name.		
KEGN	Lake Frolono.....	b	KIPP	Strathnaver.....	b
KEQP	Lake Festina.....	b	KIPQ	Lake Fabius.....	b
KIMJ	Cushnoc.....	b	KIPR	S. B. Hunt.....	b
KIMK	Vacumm II.....	b	KIPS	Geo. H. Jones.....	b
KIML	Santa Lenora.....	b	KIPT	Edna.....	b
KIMM	Winyah.....	b	KIPX	Maiden Creek.....	b
KIMN	Salvation Lass.....	b	KIPV	Luxpallie.....	b
KIMP	Pontchartrain.....	b	KIPZ	Lake Farmingdale.....	b
KIMQ	East Side.....	b	KIQB	Belfort.....	b
KIMR	Dochet.....	b	KIQC	Westmoreland.....	b
KIMS	Burnwell.....	b	KIQD	Cansumset.....	b
KIMT	Mount Evans.....	b	KIQE	Cotati.....	b
KIMV	Lake Cannonsburg.....	b	KIQG	West Aleta.....	b
KIMX	Huachuca.....	b	KIQJ	Ft. Logan.....	b
KIMZ	Pipestone County.....	b	KIQK	Cold Spring.....	b
KINB	Ogontz.....	b	KIQL	Cleopatra.....	b
KINC	Hyannis.....	b	KIQM	Nedmac.....	b
KIND	Rock Island.....	b	KIQN	Lake Farragut.....	b
KINF	Costigan.....	b	KIQP	Lake Fackler.....	b
KING	Watertown.....	b	KIQQ	Thala.....	b
KINJ	Lake Fabyan.....	b	KIQR	Hugoton.....	b
KINK	Lake Glasco.....	b	KIQS	Bathgate.....	b
KINL	Pere Marquette 8.....	b	KIQT	Bathalum.....	b
KINM	Lehigh.....	b	KIQV	Corson.....	b
KINN	West Ison.....	b	KIQX	Fluor Spar.....	b
KINP	West Hepburn.....	b	KIQZ	Liberty Glo.....	b
KINQ	Eelbeck.....	b	KIRB	Lake Farber.....	b
KINR	Olen.....	b	KIRC	Newton.....	t
KINS	Boston Bridge.....	b	KIRF	West Cayote.....	b
KINT	Bay Head.....	b	KIRG	New Britain.....	b
KINV	Calno.....	b	KIRJ	Lake Frumet.....	b
KINX	Davidson County.....	b	KIRK	Sharon.....	b
KINZ	Pawtucket.....	b	KIRL	Pelican.....	b
KIPB	Assinippi.....	b	KIRM	Arenas.....	b
KIPC	Pontia.....	b	KIRN	Haddon.....	b
KIPD	Walkill.....	b	KIRP	Waco.....	b
KIPE	Woodmansie.....	b	KIRQ	Delavan.....	b
KIPG	Doylestown.....	b	KIRR	Cambridge.....	b
KIPJ	West Chatals.....	b	KIRS	John Ena.....	b
KIPK	West Segovia.....	b	KIRT	Derbyline.....	b
KIPL	Pyramus.....	b	KIRV	Lake Fairfax.....	b
KIPM	Utina.....	b	KWH	Port Chatham, Alaska.....	c
KIPN	Lake Gazette.....	b	KWO	Port Beauclair, Alaska.....	c

GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Bernc bureau.]

Station.	Call signal.	Operated and controlled by—	Address.
Bellefonte, Pa. ¹	WWQ	Post Office Department.....	Washington, D. C.
Chicago, Ill. ¹	WWG	do.....	Do.
Cleveland, Ohio ¹	WWO	do.....	Do.
College Park, Md. ¹	WWX	do.....	Do.
Newark, N. J. ¹	WWU	do.....	Do.
Seward, Alaska.....	NPV	U. S. Navy.....	Do.

¹ Aeroplane control station.

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919.]

Name of ship.	Call signal.	Name of ship.	Call signal.
Abel P. Upshur.....	NUJD	Old Dominion.....	NUKN
Alameda.....	NUGJ	Overton.....	NUJN
Atlantic.....	NENN	Patoka.....	NUGN
Barker.....	NUJK	Ramapo.....	NUGP
Chesapeake.....	NUJB	Rapidan.....	NUGQ
Doyen.....	NUJS	Relief Light Vessel No. 2.....	NUGF
George E. Badger.....	NUJG	Robert Smith.....	NUKB
Henshaw.....	NUJQ	Salinas.....	NUGR
Hulbert.....	NUKD	Sapaleo.....	NUGS
Hunt.....	NUJF	Sepulga.....	NUGT
James K. Paulding.....	NUJM	Shirk.....	NUJV
Kaweah.....	NUGK	Smith Thompson.....	NUJJ
Kidder.....	NUJX	Sturtevant.....	NUJP
Laramie.....	NUGL	Tippicanoe.....	NUGV
La Valette.....	NUJT	Tracy.....	NUJL
Mattole.....	NUGM	Trinity.....	NUGX
Meyer.....	NUJR	Wasmuth.....	NUKC
Nahunta.....	NUKM	W. F. Babcock.....	NUKG
Noa.....	NUKF		

GOVERNMENT LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALLS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919. c=land station b=ship station.]

Call signal.	Name of station.	Call signal.	Name of station.
NPV	Seward, Alaska.....c	NUJN	Overton.....b
NUGF	Relief Light Vessel No. 2.....b	NUJP	Sturtevant.....b
NUGJ	Alameda.....b	NUJQ	Henshaw.....b
NUGK	Kaweah.....b	NUJR	Meyer.....b
NUGL	Laramie.....b	NUJS	Doyen.....b
NUGM	Mattole.....b	NUJT	La Valette.....b
NUGN	Patoka.....b	NUJV	Shirk.....b
NUGP	Ramapo.....b	NUJX	Kidder.....b
NUGQ	Rapidan.....b	NUKB	Robert Smith.....b
NUGR	Salinas.....b	NUKC	Wasmuth.....b
NUGS	Sapaleo.....b	NUKD	Hulbert.....b
NUGT	Sepulga.....b	NUKF	Noa.....b
NUGV	Tippicanoe.....b	NUKG	W. F. Babcock.....b
NUGX	Trinity.....b	NUKM	Nahunta.....b
NUJB	Chesapeake.....b	NUKN	Old Dominion.....b
NUJD	Abel P. Upshur.....b	NENN	Atlantic.....b
NUJF	Hunt.....b	WWG	Chicago, Ill. ¹c
NUJG	George E. Badger.....b	WWO	Cleveland, Ohio ¹c
NUJJ	Smith Thompson.....b	WWU	Newark, N. J. ¹c
NUJK	Barker.....b	WWQ	Bellefonte, Pa. ¹c
NUJL	Tracy.....b	WWX	College Park, Md. ¹c
NUJM	James K. Paulding.....b		

¹ Aeroplane contro. station of Post Office Department.

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, only.]

Station.	Call signal.	Station controlled by—
College Station, Tex.....	5YA	Agricultural and Mechanical College of Texas.
Atlanta, Ga.....	4YA	Georgia School of Technology.
Agricultural College, N. Dak.....	9YB	North Dakota Agricultural College.
Lafayette, Ind.....	9YA	Purdue University.
Kingston, R. I.....	1YA	Rhode Island State College.
Tuscaloosa, Ala.....	5YB	University of Alabama.
Los Angeles, Calif.....	6YA	University of Southern California.
Morgantown, W. Va.....	8YA	West Virginia University.

SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1YA	First district: Kingston, R. I.	6YA	Sixth district: Los Angeles, Calif.
4YA	Fourth district: Atlanta, Ga.	8YA	Eighth district: Morgantown, W. Va.
	Fifth district:		Ninth district:
5YA	College Station, Tex.	9YA	Lafayette, Ind.
5YB	Tuscaloosa, Tex.	9YB	Agricultural College, N. Dak.

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, S = south 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.

ALTERATIONS AND CORRECTIONS.

COMMERCIAL 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 June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Accomac (KMOE).

Anne W. (WMU).

City of South Haven (WDI).

Diana (KZM).

Farnam (KQIE).

Goliath (WPG).

Great Northern (WIR).

Isthmian (WKI).

Luckenbach No. 1 (KEO).

Luckenbach No. 2 (KGC).

Luckenbach No. 3 (KGF).

Luckenbach No. 4 (KGG).

Luckenbach No. 5 (KEV).

Lydonia (WDY).

Mackinaw (WHW).

May (KZI).

Nevada (WFD).

Niagara (KYN).

Nokomis (WHD).

Northern Pacific (WIM).

Orleanian (KON).

Roamer (KZN).

Santa Cristina (WHO).

Sayonara (KYJ).

Sialia (WFY).

Theodore Roosevelt (WCT).

Tyee (WPC).

Virginia (WFH).

Virginia (KFR).

Wakiva (KYI).

Warrior (KYW).

Strike out all particulars of the above-named vessels.

Huron (WCH), owner Huron S. S. Co. (Inc.).
 Margaret (WRQ), owner Margaret Ship Co. (Inc.).
 Panuco (KWM), owner Atlantic Gulf & West Indies S. S. Lines.
 Parthian (WCE), owner U. S. Shipping Board.
 Rosewood (WSH), owner Pacific-American Fisheries.
 Socony No. 82, correct name Socony 82.
 Socony No. 83, correct name Socony 83.

Socony No. 84, correct name Socony 84.
 Socony No. 85, correct name Socony 85.
 Socony No. 88, correct name Socony 88.
 Socony No. 89, correct name Socony 89.
 Socony No. 90, correct name Socony 90.
 Socony No. 92, correct name Socony 92.
 Socony No. 94, correct name Socony 94.
 S. M. Spaulding, correct orthography S. M. Spalding.
 Suruga, owner New York & Oriental S. S. Co.
 Susanna, correct orthography Susana.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out all particulars following the call signals, KEO, KEV, KFR, KGC, KGF, KGG, KMOE, KON, KQIE, KYI, KYJ, KYN, KYW, KZI, KZM, KZN, WCT, WDY, WFD, WFH, WFY, WHD, WHO, WHW, WIM, WIR, WKI, WPC, WPG, WDI, and WMU. KRUU, *read* Socony 88; KSAA, *read* Socony 89; KVAO, *read* Socony 83; KVAI, *read* Socony 82; WCOE, *read* Socony 84; WCOI, *read* Socony 92; WKAE, *read* Socony 85; WTII, *read* Socony 90; WTIO, *read* Socony 94; KNX, *read* Susana; and WKG, *read* S. M. Spalding.

GOVERNMENT 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 June 15, 1919.]

Light Vessel No. 86, Great Round Shoals, Mass., *read* Relief Light Vessel No. 86, (NAJJ).
 Relief Light Vessel No. 66, *read* Light Vessel No. 66, Great Round Shoals, Mass. (NABJ).

GOVERNMENT 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 June 15, 1919.]

Accomac (NTH).
 Askawake (NEPP).
 Bache (NLK).
 Christabel (NMQ).
 Cizenia (NUBP).
 Corozal (NEGX).
 Crook (NECX).
 Cuttyhunk (NSA).
 Decatur (NJC).
 Druid (NDP).
 Eastern Cross (NEZB).
 Eddelyn (NEDV).
 Ellington (NLN).
 Federal (NEGP).
 Fort Snelling (NEVF).
 Forward (NUSF).
 Helenita (NAKK).
 Herbert L. Pratt (NANM).
 Hermes (NRP).
 Indianapolis (NISD).
 Isis (NQA).
 Kiowa (NAKR).
 Lake Champlain (NHR).
 Lake Dyer (NEMF).
 Lake Lillian (NESF).
 Lake Sunapee (NECS).
 Liscum (NECL).
 Los Angeles (NSG).

Luella (NALJ).
 Nashville (NKY).
 Natoma (NUGG).
 Oneida (NSO).
 Paducah (NOG).
 Pathfinder (NLJ).
 Pequot (NEVN).
 Piqua (NMU).
 Polarland (NEMM).
 Polar Sea (NANL).
 Princeton (NEGT).
 Remus (NENR).
 Robert McCurdy (NAXB).
 Rondo (NBK).
 Roosevelt (NLR).
 Santee (NAPD).
 Sao Paulo (NEGJ).
 Seatia (NCQ).
 Sherman (NECJ).
 Sixaola (NENC).
 Soestdijk (NAPJ).
 Sultana (NMX).
 S. P. 651 (Atlantic II) (NOR).
 Warren (NEBN).
 Wawalona (NEQN).
 Westwood (NAQL).
 Winterswijk (NEGV).

Strike out all particulars of the above-named vessels.

Kewaydin (NAXN), correct orthography
Kemaydin.
S. P. 411 (Sussanne), correct orthography
S. P. 411 (Susanne).
S. P. 568 (Magnet) (NUBG), correct
number 563.

Tatnuck (NETQ), correct orthography
Tatmuck.
Truxton, correct orthography Truxtun.
Wilmette, correct orthography Willmette.

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL
SIGNALS.

Strike out all particulars following the call signals, NBK, NCQ, NDP, NJC, NHR, NKY, NLJ, NLK, NLN, NLR, NMQ, NMU, NMX, NOG, NOR, NQA, NRP, NSA, NSG, NSO, NTH, NAKK, NAKR, NALJ, NANL, NANM, NAPD, NAPJ, NAQL, NAXB, NEBN, NECJ, NECL, NECS, NECX, NEDV, NEGJ, NEGP, NEGT, NEGV, NEGX, NEMF, NEMM, NENC, NENR, NEPP, NEQN, NESF, NEVF, NEVN, NEZB, NISD, NUBP, NUS, and NUGG. NUS, read Truxtun; NABJ, read L. V. No. 66, Great Round Shoals, Mass.; NAJJ, read Relief L. V. No. 86; NAVD, read Willmette; NAXN, read Kemaydin; NETQ, read Tutmuck; NUBG, read S. P. 563 (Magnet); and NUBN, read S. P. 411 (Susanne).

MISCELLANEOUS.

AMENDMENTS.

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

Paragraph 122, page 63, amended December 20, 1918, to read:

Amateur, first grade.—The applicant must have a sufficient knowledge of the adjustment and operation of the apparatus which he wishes to operate and of the regulations of the international convention and acts of Congress in so far as they relate to the interference with other radio communication and impose certain duties on all grades of operators. The applicant must be able to transmit and receive Continental Morse code at a speed sufficient to enable him to recognize distress calls or the official "keep-out" signals. A speed of at least 10 words per minute (5 letters to the word) must be obtained.

Paragraph 126, page 64, amended December 20, 1918, to read:

The code test shall continue for five minutes at a speed of 20 words, 12 words, and 10 words per minute, respectively, for the commercial first, second, and amateur first-grade license, 5 letters, numerals, or other characters to the word, and to qualify the applicant must receive 20, 12, and 10 words in consecutive order accurately and legibly written. Operators will not be permitted to break or interrupt while receiving or to correct or alter the transcription after it has been submitted to the examining officer.

Radio operators' examinations are held by the radio inspectors at the following ports: At the customhouse in Boston, New York, Baltimore, New Orleans, and San Francisco; Federal Building in Chicago and Detroit; 205 Citizens Bank Building, Norfolk; and 2301 L. C. Smith Building, Seattle.

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