

# RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE.

Washington, September 2, 1919—No. 29.

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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.*

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2d net

NEW STATIONS.

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.	Wave lengths.	Service.	Hours.	Station controlled by—
Penakee Inlet, Alaska.....	KYG				Columbia Salmon Co.

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.				
Abianset.....	KIXF	4	4	PG	X	U. S. Shipping Board..	Owner of vessel.
Abraham Lincoln.....	KIXS	4	4	PG	X	do	Do.
Afel.....	KISQ	4	4	PG	X	do	Do.
Asabeth.....	KIXG	4	4	PG	X	do	Do.
Asquam.....	KISV	4	4	PG	X	do	Do.
Babboosc.....	KITC	4	4	PG	X	do	Do.
Bakersfield.....	KIZC	4	4	PG	X	do	Do.
Baldbutte.....	KISM	4	4	PG	X	do	Do.
Barthney.....	KIZD	4	4	PG	X	do	Do.
Bellbuckle.....	KITK	4	4	PG	X	do	Do.
Betsy Bell.....	KITM	4	4	PG	X	do	Do.
Buffalo Bridge.....	KIZF	4	4	PG	X	do	Do.
Casper.....	KIRX	4	4	PG	X	do	Do.
Champion.....	KIXV	4	4	PG	X	do	Do.
City of Fairbury.....	KISR	4	4	PG	X	do	Do.
Custodian.....	KIVZ	4	4	PG	X	do	Do.
Dauperata.....	KIZJ	4	4	PG	X	do	Do.
Delco.....	KIZB	4	4	PG	X	do	Do.
Delfina.....	KIVS	4	4	PG	X	do	Do.
Delisle.....	KIVT	4	4	PG	X	do	Do.
Devolente.....	KIVR	4	4	PG	X	do	Do.
Elkridge.....	KISG	4	4	PG	X	do	Do.
Explorer.....	KIVN	4	4	PG	X	do	Do.
Firthe liffe.....	KITF	4	4	PG	X	do	Do.
Fourth Alabama.....	KIXJ	4	4	PG	X	do	Do.
Glen Ridge.....	KIRZ	4	4	PG	X	do	Do.
Guardsman.....	KIVX	4	4	PG	X	do	Do.
Hatchie.....	KIVJ	4	4	PG	X	do	Do.
Huguenot.....	KIVQ	4	4	PG	X	do	Do.
Inoco.....	KITJ	4	4	PG	X	do	Do.
Katherine.....	KIZK	4	4	PG	X	do	Do.
Keshena.....	KITR	4	4	PG	X	do	Do.
Kewanco.....	KIVC	4	4	PG	X	do	Do.
Klokee.....	KITS	4	4	PG	X	do	Do.
Kitchl.....	KITV	4	4	PG	X	do	Do.
Kittegaun.....	KITG	4	4	PG	X	do	Do.
Kiron.....	KITT	4	4	PG	X	do	Do.
Knights Island.....	KIVL	4	4	PG	X	do	Do.
Laborer.....	KIST	4	4	PG	X	do	Do.
Lackawanna Valley.....	KIXD	4	4	PG	X	do	Do.
Lafcom.....	KIXK	4	4	PG	X	do	Do.
Lake Flagon.....	KIXT	4	4	PG	X	do	Do.
Lake Fagundus.....	KISN	4	4	PG	X	do	Do.
Lake Fairlie.....	KISP	4	4	PG	X	do	Do.
Lake Falama.....	KITB	4	4	PG	X	do	Do.
Lake Farrar.....	KISX	4	4	PG	X	do	Do.
Lake Fear.....	KIVM	4	4	PG	X	do	Do.
Lake Gadsden.....	KITP	4	4	PG	X	do	Do.
Lake Singara.....	KITQ	4	4	PG	X	do	Do.
Lake Stobi.....	KISZ	4	4	PG	X	do	Do.
Lebanon.....	KIXL	4	4	PG	X	do	Do.
Liberty Land.....	KISS	4	4	PG	X	do	Do.
Lightburne.....	KIVF	4	4	PG	X	do	Do.
Lockport.....	KIXM	4	4	PG	X	do	Do.
Lordship Manor.....	KIXN	4	4	PG	X	do	Do.
Marina.....	KIVD	4	4	PG	X	do	Do.
Minnequa.....	KIVB	4	4	PG	X	do	Do.
Mercer Victory.....	KIVG	4	4	PG	X	do	Do.
Nameaug.....	KITN	4	4	PG	X	do	Do.

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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.				
Nonantum.....	KIXP	Cents. 4	Cents. 4	PG	X	U. S. Shipping Board.	Owner of vessel.
Orcus.....	KISC	4	4	PG	X	do.	Do.
Parksville.....	KIZG	4	4	PG	X	do.	Do.
Putnam.....	KIXQ	4	4	PG	X	do.	Do.
Richmond Boro.....	KITX	4	4	PG	X	do.	Do.
Seattle Spirit.....	KISD	4	4	PG	X	do.	Do.
Stanley.....	KISJ	4	4	PG	X	do.	Do.
Traveller.....	KIVK	4	4	PG	X	do.	Do.
Tulsa.....	KIXR	4	4	PG	X	do.	Do.
Wekika.....	KIXX	4	4	PG	X	do.	Do.
West Cactus.....	KIVV	4	4	PG	X	do.	Do.
West Cheswald.....	KIXB	4	4	PG	X	do.	Do.
West Inskip.....	KITZ	4	4	BG	X	do.	Do.
West Keene.....	KISK	4	4	PG	X	do.	Do.
Westoil.....	KIVP	4	4	PG	X	do.	Do.
West Raritans.....	KIXC	4	4	PG	X	do.	Do.
West Selene.....	KIXZ	4	4	PG	X	do.	Do.
Wheatland Montana.....	KISF	4	4	PG	X	do.	Do.
Wytheville.....	KITI,	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.
KIRX	Casper..... b	KIVJ	Hatchie..... b
KIRZ	Glen Ridge..... b	KIVK	Traveller..... b
KISC	Orcus..... b	KIVL	Knights Island..... b
KISD	Seattle Spirit..... b	KIVM	Lake Fear..... b
KISF	Wheatland Montana..... b	KIVN	Explorer..... b
KISG	Elkridge..... b	KIVP	Westoil..... b
KISJ	Stanley..... b	KIVQ	Huguonot..... b
KISK	West Keene..... b	KIVR	Devolente..... b
KISM	Baldbutte..... b	KIVS	Delina..... b
KISN	Lake Fagundus..... b	KIVT	Delisle..... b
KISP	Lake Fairlie..... b	KIVV	West Cactus..... b
KISQ	Afel..... b	KIVX	Guardzman..... b
KISR	City of Fairbury..... b	KIVZ	Custodian..... b
KISS	Liberty Land..... b	KIXB	West Cheswald..... b
KIST	Laborer..... b	KIXC	West Raritans..... b
KISV	Asquam..... b	KIXD	Lackawanna Valley..... b
KISX	Lake Farrar..... b	KIXE	Ablanset..... b
KISZ	Lake Stobl..... b	KIXG	Asabeth..... b
KITB	Lake Falama..... b	KIXJ	Fourth Alabama..... b
KITC	Babboocic..... b	KIXK	Iacomo..... b
KITF	Firthcliffe..... b	KIXL	Lebanon..... b
KITG	Klittegaun..... b	KIXM	Lockport..... b
KITJ	Inoco..... b	KIXN	Lordship Manor..... b
KITK	Bellbuckle..... b	KIXP	Nonantum..... b
KITL	Wytheville..... b	KIXQ	Putnam..... b
KITM	Betsy Bell..... b	KIXR	Tulsa..... b
KITN	Nameaug..... b	KIXS	Abraham Lincoln..... b
KITP	Lake Gadsden..... b	KIXT	Lake Flagon..... b
KITQ	Lake Singara..... b	KIXV	Champion..... b
KITR	Keshena..... b	KIXX	Wekika..... b
KITS	Klokee..... b	KIXZ	West Selene..... b
KITT	Kiron..... b	KIZB	Delco..... b
KITV	Kitchi..... b	KIZC	Bakersfield..... b
KITX	Richmond Boro..... b	KIZD	Barthney..... b
KITZ	West Inskip..... b	KIZF	Buffalo Bridge..... b
KIVB	Minnequa..... b	KIZG	Parksville..... b
KIVC	Kewance..... b	KIZJ	Dauperata..... b
KIVD	Marina..... b	KIZK	Katherine..... b
KIVF	Lightburne..... b	KYG	Penakee Inlet, Alaska..... c
KIVG	Mercer Victory..... b		

## 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.
Alden.....	NULK	McCawley.....	NULS
Borie.....	NULL	Moody.....	NULT
Breakwater.....	NUMS	Mullany.....	NUML
Breck.....	NULZ	Murvine.....	NUMJ
Chase.....	NUMK	Neches.....	NIFP
Childs.....	NULN	Pecos.....	NIFQ
Contocook.....	NELR	Phalarope.....	NUKT
Harbor Tug No. 59.....	NUKQ	Sands.....	NULQ
Harbor Tug No. 60.....	NUKR	Sharkey.....	NULV
Harbor Tug No. 62.....	NUKZ	Sinclair.....	NULR
Harbor Tug No. 63.....	NULD	Sloat.....	NUMD
Harbor Tug No. 64.....	NUMT	Toucey.....	NULX
Harbor Tug No. 66.....	NULB	Trever.....	NUMP
Harbor Tug No. 67.....	NULG	Wachusett.....	NFO
Harbor Tug No. 68.....	NUMR	Wainwright.....	NULF
Harbor Tug No. 85.....	NULC	Welborn C. Wood.....	NULJ
Hospital Ship No. 1.....	NEPQ	William B. Preston.....	NUMQ
Humphreys.....	NUKX	Winchester.....	NUKS
Kane.....	NULM	Wood.....	NUMF
King.....	NULP	Yarborough.....	NUMC
Litchfield.....	NUMM	Zane.....	NUMN
Mansfield.....	NUMV	Zellin.....	NUMB
Marcus.....	NUMG		

## GOVERNMENT LAND AND SHIP 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.		
NFO	Wachusett.....	b	Sinclair.....	b	
NELR	Contocook.....	b	McCawley.....	b	
NIFP	Neches.....	b	Moody.....	b	
NEPQ	Hospital Ship No. 1.....	b	NULV	Sharkey.....	b
NIFQ	Pecos.....	b	NULX	Toucey.....	b
NUKQ	Harbor Tug No. 59.....	b	NULZ	Breck.....	b
NUKR	Harbor Tug No. 60.....	b	NUMB	Zellin.....	b
NUKS	Winchester.....	b	NUMC	Yarborough.....	b
NUKT	Phalarope.....	b	NUMD	Sloat.....	b
NUKX	Humphreys.....	b	NUMF	Wood.....	b
NUKZ	Harbor Tug No. 62.....	b	NUMG	Marcus.....	b
NULB	Harbor Tug No. 66.....	b	NUMJ	Murvine.....	b
NULC	Harbor Tug No. 85.....	b	NUMK	Chase.....	b
NULD	Harbor Tug No. 63.....	b	NUML	Mullany.....	b
NULF	Wainwright.....	b	NUMM	Litchfield.....	b
NULG	Harbor Tug No. 67.....	b	NUMN	Zane.....	b
NULJ	Welborn C. Wood.....	b	NUMP	Trever.....	b
NULK	Alden.....	b	NUMQ	William B. Preston.....	b
NULL	Borie.....	b	NUMR	Harbor Tug No. 68.....	b
NULM	Kane.....	b	NUMS	Breakwater.....	b
NULN	Childs.....	b	NUMT	Harbor Tug No. 64.....	b
NULP	King.....	b	NUMV	Mansfield.....	b
NULQ	Sands.....	b			

## 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 LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

(Alterations and corrections to be made to the List of Radio Stations of the United States, edition, June 15, 1919, and to the International List of Radiotelegraph Stations, published by the Berne bureau.)

Strike out all particulars following Juneau and Ketchikan, Alaska.

#### 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.)

AIRLIE.—Note, Nacirema S. S. Corp. owner of vessel; station operated and controlled by Marconi Co.

AMPETCO.—Note, Standard Oil Co. of New Jersey, owner of vessel; station operated and controlled by Marconi Co.

BALESHED.—Name changed to Clincho.

BENSONI.—Correct name Benoni.

BIRCHLEAF.—Note, Nacirema S. S. Corp. owner of vessel; station operated and controlled by Marconi Co.

CARIB (KMIA).—Note, Carib S. S. Co. (Inc.), owner of vessel; station operated and controlled by Marconi Co.

CHITCHUNG.—Correct name Chipchung.

DALANA.—Note, Nacirema S. S. Corp. owner of vessel; station operated and controlled by Marconi Co.

DOCHRA.—Note, LaPlata S. S. Co. (Inc.), owner of vessel; station operated and controlled by Marconi Co.

KANABEC.—Note, French-American Line (Inc.), owner of vessel; station operated and controlled by Marconi Co.

LAKE FESTINA.—Correct name Lake Festinia.

L. J. DRAKE.—Note, Standard Oil Co. of New Jersey owner of vessel; station operated and controlled by Marconi Co.

MONASSES.—Correct name Manasses.

MONTRILITE.—Note, Standard Oil Co. of New Jersey, owner of vessel; station operated and controlled by Marconi Co.

O. T. WARING.—Note, Standard Oil Co. of New Jersey, owner of vessel.

PLYMOUTH.—Note, Nafra Co. (Inc.), owner of vessel; station operated and controlled by Marconi Co.

SANTA OLIVIA.—Note, Atlantic & Pacific S. S. Co. owner of vessel; station operated and controlled by Marconi Co.

ST. LOUIS.—Name changed to Louisville.

TIDEWATER.—Note, Nafra Co. (Inc.) owner of vessel; station operated and controlled by Marconi Co.

YOSEMITE (WYQ).—Note, Pope & Talbot (Inc.) owner of vessel; station operated and controlled by Marconi Co.

Strike out all particulars of the following-named vessels:

Bavaria.	Lake Frunet (KEJM).	Santa Louise.
Besoeki.	Mantasket.	War Ferret.
Dubhe.	Moosabee (WCEU).	Warrior (KUY).
Goliah.	Neptune (KED).	West Canob.
Lake Farber (KECP).	Portland (WLK).	

The stations of the following-named vessels are operated and controlled by Marconi Co.:

A. C. Bedford.	Gulfight.	Sabine Sun.
Ardmore.	Gulfmaid.	Santa Ana (WBX).
Arlington.	Gulf of Mexico.	Santa Barbara.
Bacoi.	H. H. Rogers.	Santa Cecilia.
Baton Rouge.	James McGee.	Santa Luisa.
Bayway.	Jason (KNJ).	Santa Paula.
Benj. Brewster.	John D. Rockefeller.	Santa Rita (WTG).
Bradford..	Josiah Macy.	Santa Rosa.
Brandon.	Kerkenna.	Shoshone.
Brindilla.	Kerlew.	Somerset.
Caddo.	Kermoor.	Standard (KIC).
Caloria.	Ligonier.	Sucrosa.
Charles Pratt.	Matinicock.	Sun.
Chester Sun.	Melrose.	Sunoil.
Chinapa.	Mexicano.	S. V. Harkness.
Communipaw.	Mielero.	Toledo.
Corning.	Muskogee.	Trinidadian.
Cubadist.	Nelson.	Trontolite.
Dayton.	Newton.	W. C. Teagle.
De Soto.	Owego.	W. H. Tilford.
Eurana.	Paraguay.	Wico.
Everett.	Pennant.	William O'Brien.
Fred W. Weller.	Pioneer (KIG).	William G. Warden.
Glenpool.	Polarine.	
Gulfcoast.	Princeton.	

#### COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out all particulars following the call signals KCII, KECP, KED, KEJM, KKOI, KKKU, KPB, KTII, KUY, WCEU, WLK, WNN, WPG, and WQAE. KENX, read Clincho; KEQP read, Lake Festinia; KERR, read Benoni; KILX, read Manasses; KJH, read KJII; KSI, read St. Louis; and WBIA read Chipchung.

#### 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.]

Strike out all particulars following Montauk Point, Long Island, N. Y. (NVQ).

#### 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.]

ARAPAHO.—Correct name Arapahoe.

GEN. R. N. BATCHELOR.—Correct name Gen. R. N. Batchelder.

MACKENZIE.—Correct name McKenzie.

O'BANNAN.—Correct name O'Bannon.

SAPALEO.—Correct name Sapelo.

Strike out all particulars of the following-named vessels:

Aphrodite.	Lake Helen.	Stewart.
Besoeki.	Lake Lasang.	S. P. 590 (Aztec).
Black Arrow.	Lake Osweya.	Sub. chaser 59.
Buitenzorg.	Lakeport.	Sub. chaser 61.
C-1.	Lake St. Regis.	Sub. chaser 81.
C-4.	Lake Superior.	Sub. chaser 83.
Dale.	Lake View.	Sub. chaser 88.
Despatch.	Lake Worth.	Sub. chaser 89.
Dubuque.	Lamson.	Sub. chaser 92.
Ed. Luckenbach.	Lydonia.	Sub. chaser 131.
Essex.	Marblehead.	Sub. chaser 151.
F. J. Luckenbach.	Marietta.	Sub. chaser 197.
Flusser.	Muscatine.	Sub. chaser 200.
Fresno.	Nahma.	Sub. chaser 227.
Fulton.	Noma.	Sub. chaser 324.
Great Northern.	Ozark.	Sub. chaser 325.
Jason.	Paysandu.	Sub. chaser 337.
Kerowlee.	Petrel.	Truxton.
Lake Benbow.	Preble.	Wainwright (NKX).
Lake Bridge.	Preston.	West Apaum.
Lake Catherine.	Rijland.	Western Front.
Lake Crescent.	Sagadahoc.	Wm. Isom.
Lake Garza.	Santa Barbara.	Willmette.
Lake Gedney.	Scranton.	Worden.
Lake Geneva.	Shoshone.	Zuiderdijk.

#### GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out all particulars following the call signals NCW, NDR, NEU, NFP, NFS, NGK, NHH, NHJ, NHP, NIG, NIW, NJQ, NKH, NKX, NMP, NMV, NMY, NNB, NOZ, NQN, NQO, NTC, NUM, NUS, NVQ, NWA, NWP, NXX, NXN, NZD, NZN, NACJ, NACM, NADR, NAFJ, NAKJ, NALB, NAML, NAPZ, NAQQ, NARD, NARK, NAMF, NAQG, NAVD, NAXR, NAXZ, NECC, NEDC, NEDM, NEFG, NEPJ, NEPK, NEQC, NERF, NERM, NESL, NETA, NELC, NITN, NODJ, NODL, NOFG, NOFK, NOFQ, NOFR, NOFV, NOKB, NOKX, NOMT, NOMZ, NOPL, NOVJ, NOVK, NOXB, and NUCL. NSP, *read* Arapahoe, NEVX, *read* McKenzie, NEXS, *read* O'Bannon, NUGS, *read* Sapelo and WZW, *read* Gen. R. N. Batchelder.

#### MISCELLANEOUS.

##### GOVERNMENT AND COMMERCIAL CALLS.

It will be noted that in the "List of Radio Stations of the United States" some vessels and call letters appear in the commercial and also in the Government list. The reason for this is that at the present time it is not known when they will be released from Government service. When they enter the commercial service, the commercial calls only should be used.

##### SUPERFLUOUS SIGNALS.

The attention of radio operators is called to regulation 209, prohibiting the transmission of superfluous signals.

The Bureau has received several reports recently of radio operators on American vessels engaging in unofficial conversation, causing unnecessary interference. Operators continuing this practice may expect the suspension or cancellation of their licenses.

**EMERGENCY LICENSES AND TEMPORARY PERMITS.**

Operators holding emergency licenses and temporary permits should arrange to take an examination and secure a regular license as early as possible. The holders of such licenses and permits will not be employed if regularly licensed operators are available. Operators holding second-grade licenses should endeavor to secure first-grade licenses, so as to be available for senior operators in charge of stations.

**PORTS WHERE RADIO OPERATORS' EXAMINATIONS ARE HELD.**

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.

**USE OF RADIO BY VESSELS IN PORT.**

Vessels docked or at anchor in harbors should not use radio for intercommunication except in urgent cases where no other quick means of communication are available, and then with reduced power, so as to avoid interference.

For short-distance communication between vessels, operators should make use of the wave lengths of 300 and 450 meters when interference may be caused on 600 meters. If this practice is followed in crowded waters much of the congestion on 600 meters will be relieved.

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