

# RADIO SERVICE BULLETIN

U. S.

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE.

Washington, November 1, 1919—No. 31.

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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.

## 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.				
Anaconda.....	KOFD	4	4	PG	X	U. S. Shipping Board..	Owner of vessel.
Antigone.....	KOKN	4	4	PG	X	do.	Do.
Antonia.....	KOLD					Madrigal & Co.	Do.
Aryan.....	KOLB	4	4	PG	X	U. S. Shipping Board..	Do.
Auditor.....	KOFF	4	4	PG	X	do.	Do.
Babinda.....	KODP	4	4	PG	X	do.	Do.
Basobel.....	KOFS	4	4	PG	X	do.	Do.
Basford.....	KOFR	4	4	PG	X	do.	Do.
Balcatta.....	KOLM	4	4	PG	X	do.	Do.
Bellhaven.....	KOFC	4	4	PG	X	do.	Do.
Belleplaine.....	KOKF	4	4	PG	X	do.	Do.
Bellerose.....	KOKD	4	4	PG	X	do.	Do.
Bensalem.....	KOFT	4	4	PG	X	do.	Do.
Bethnor.....	KOKT	4	4	PG	X	do.	Do.
Brave Coeur.....	KOGN	4	4	PG	X	do.	Do.
Cathlamet.....	KOIP	4	4	PG	X	do.	Do.
Chancook.....	KOFJ	4	4	PG	X	do.	Do.
Chepadoa.....	KOFL	4	4	PG	X	do.	Do.
Chickasaw.....	KOJR	4	4	PG	X	do.	Do.
Clavarak.....	KOLL	4	4	PG	X	do.	Do.
Cockaponset.....	KOFN	4	4	PG	X	do.	Do.
Commissioner.....	KOGZ	4	4	PG	X	do.	Do.
Cook.....	KOFX	4	4	PG	X	do.	Do.
Coquitt.....	KOFZ	4	4	PG	X	do.	Do.
Cripple Creek.....	KOJL	4	4	PG	X	do.	Do.
Crisfield.....	KOKP	4	4	PG	X	do.	Do.
Daniel Webster.....	KOKM	4	4	PG	X	do.	Do.
Defenders.....	KOJF	4	4	PG	X	do.	Do.
Dillwyn.....	KODX	4	4	PG	X	do.	Do.
Elder.....	KOKJ	4	4	PG	X	do.	Do.
Elkton.....	KOKK	4	4	PG	X	do.	Do.
Escambia.....	KOGK	4	4	PG	X	do.	Do.
Gosport.....	KOIC	4	4	PG	X	do.	Do.
Hadnot.....	KOGP	4	4	PG	X	do.	Do.
Hamlin.....	KOJC	4	4	PG	X	do.	Do.
Hanover.....	KOJK	4	4	PG	X	do.	Do.
Iceland.....	KOKK	4	4	PG	X	do.	Do.
Independent Bridge.....	KOGB	4	4	PG	X	do.	Do.
Inspector.....	KOKR	4	4	PG	X	do.	Do.
Irrington.....	KOGQ	4	4	PG	X	do.	Do.
Jacksonville.....	KOJG	4	4	PG	X	do.	Do.
Kaleen.....	KOKV	4	4	PG	X	do.	Do.
Kaweah.....	KOKL	4	4	PG	X	do.	Do.
Kenwood Bridge.....	KOGG	4	4	PG	X	do.	Do.
Kolda.....	KOKX	4	4	PG	X	do.	Do.
Kootenai.....	KOGF	4	4	PG	X	do.	Do.
Lackawanna Bridge.....	KOGC	4	4	PG	X	do.	Do.
Lake Ellithorpe.....	KOFM	4	4	PG	X	do.	Do.
Lake Ellsbury.....	KOFP	4	4	PG	X	do.	Do.
Lake Elmhurst.....	KOFQ	4	4	PG	X	do.	Do.
Lake Eltuebio.....	KOFV	4	4	PG	X	do.	Do.
Lake Elrio.....	KOKQ	4	4	PG	X	do.	Do.
Lake Fairport.....	KOGR	4	4	PG	X	do.	Do.
Lake Favonia.....	KOJP	4	4	PG	X	do.	Do.
Lake Faxon.....	KOLJ	4	4	PG	X	do.	Do.
Lake Felden.....	KOLK	4	4	PG	X	do.	Do.
Lake Fitch.....	KOJQ	4	4	PG	X	do.	Do.
Lake Flthian.....	KOKZ	4	4	PG	X	do.	Do.
Lake Flanders.....	KOGT	4	4	PG	X	do.	Do.
Lake Flatonia.....	KOGS	4	4	PG	X	do.	Do.
Lake Gaither.....	KOJZ	4	4	PG	X	do.	Do.
Lake Galewood.....	KOJX	4	4	PG	X	do.	Do.
Lake Galien.....	KOJT	4	4	PG	X	do.	Do.
Lake Gebhart.....	KOGV	4	4	PG	X	do.	Do.
Lake Gera.....	KOKS	4	4	PG	X	do.	Do.
Lake Onawa.....	KOJM	4	4	PG	X	do.	Do.
Magmeri.....	KOJS	4	4	PG	X	do.	Do.
Merry Mount.....	KOGX	4	4	PG	X	do.	Do.
Moosehausie.....	KOGD	4	4	PG	X	do.	Do.
Moositauke.....	KOKG	4	4	PG	X	do.	Do.
Noekum.....	KOKJ	4	4	PG	X	do.	Do.
Ocean Traffic.....	KOLP	4	4	PG		Madrigal & Co.	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.				
		Cents.	Cents.				
Olockson.....	KOFB	4	4	PG	X	U. S. Shipping Board.	Owner of vessel.
Ophis.....	KODZ	4	4	PG	X	do.	Do.
Paraiso.....	WRI	4	4	PG		Oliver J. Oliver.	Gray & Danielson Mfg. Co.
Portsmouth.....	KOJV	4	4	PG	X	U. S. Shipping Board.	Owner of vessel.
Sinsinawa.....	KOJD	4	4	PG	X	do.	Do.
Storm King.....	KOGM	4	4	PG	X	do.	Do.
Sunshine.....	KOFG	4	4	PG	X	do.	Do.
Susquehanna.....	KOLN	4	4	PG	X	do.	Do.
Tan-erville.....	KOKB	4	4	PG	X	do.	Do.
Tuwetanka.....	KOLG	4	4	PG	X	do.	Do.
Waterbury.....	KOKC	4	4	PG	X	do.	Do.
West Galata.....	KOJJ	4	4	PG	X	do.	Do.
West Ira.....	KOGL	4	4	PG	X	do.	Do.
Wistaria.....	KOJN	4	4	PG	X	do.	Do.
Xenia.....	KOLQ	4	4	PG	X	do.	Do.
York Harbor.....	KOJB	4	4	PG	X	do.	Do.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b=ship station.]

Call signal.	Name.	Call signal.	Name.
KODP	Babinda.....b	KOJJ	West Galata.....b
KODX	Dillwyn.....b	KOJK	Hanover.....b
KODZ	Ophis.....b	KOJL	Cripple Creek.....b
KOFB	Olockson.....b	KOJM	Lake Onawa.....b
KOFC	Bellhaven.....b	KOJN	Wistaria.....b
KOFD	Anaconda.....b	KOJP	Lake Faxonia.....b
KOFF	Auditor.....b	KOJQ	Lake Fitch.....b
KOFG	Sunshine.....b	KOJR	Chickasaw.....b
KOFJ	Chancook.....b	KOJS	Magmerie.....b
KOFK	Elkton.....b	KOJT	Lake Galien.....b
KOFL	Chepadoa.....b	KOJV	Portsmouth.....b
KOFM	Lake Ellithorpe.....b	KOJX	Lake Galewood.....b
KOFN	Cockaponset.....b	KOJZ	Lake Gaither.....b
KOFP	Lake Ellsbury.....b	KOKB	Tankerville.....b
KOFQ	Lake Elmhurst.....b	KOKC	Waterbury.....b
KOFR	Basford.....b	KOKD	Bellerose.....b
KOFS	Bascobel.....b	KOKF	Belleplaine.....b
KOFT	Bensalem.....b	KOKG	Moositaucke.....b
KOFV	Lake Elpueblo.....b	KOKJ	Eider.....b
KOFX	Cook.....b	KOKK	Iceland.....b
KOFZ	Coquit.....b	KOKL	Kaweah.....b
KOGB	Independent Bridge.....b	KOKM	Daniel Webster.....b
KOGC	Lackawanna Bridge.....b	KOKN	Antigone.....b
KOGD	Mooschausic.....b	KOKP	Crisfield.....b
KOGF	Kootenai.....b	KOKQ	Lake Elrio.....b
KOGG	Kehwood Bridge.....b	KOKR	Inspector.....b
KOGJ	Nockum.....b	KOKS	Lake Gera.....b
KOGK	Escambia.....b	KOKT	Bethnor.....b
KOGL	West Ira.....b	KOKX	Kolda.....b
KOGM	Storm King.....b	KOKV	Kaleen.....b
KOGN	Brave Cocur.....b	KOKZ	Lake Fithian.....b
KOGP	Hadnot.....b	KOLB	Aryan.....b
KOGQ	Irvington.....b	KOLC	Gosport.....b
KOGR	Lake Fairport.....b	KOLD	Anton.....b
KOGS	Lake Flatonia.....b	KOLF	Ocean Traffic.....b
KOGT	Lake Flanders.....b	KOLG	Tuwetanka.....b
KOGV	Lake Gebhart.....b	KOLJ	Lake Faxon.....b
KOGX	Merry Mount.....b	KOLK	Lake Felden.....b
KOGZ	Commissioner.....b	KOLL	Clavarack.....b
KOJB	York Harbor.....b	KOLM	Balcatta.....b
KOJC	Hamlin.....b	KOLN	Susquehanna.....b
KOJD	Sinsinawa.....b	KOLP	Cathlamet.....b
KOJF	Defenders.....b	KOLQ	Xenia.....b
KOJG	Jacksonville.....b	WRI	Paraiso.....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.	Name of ship.	Call.
C-1.....	NXK	Preble.....	NUNG
C-4.....	NXN	Preston.....	NUNJ
Dale.....	NUND	Reid.....	NUNK
Decatur.....	NJC	S. P. 439.....	NUNP
Flusser.....	NUNF	Stewart.....	NUNN
Fulton.....	NZD	Truxtun.....	NUS
Kankakee.....	NUMZ	Whipple.....	NUNL
Lamson.....	NUNC	Worden.....	NUNM
Marblehead.....	NGK	Yocona.....	NUNB
Ozark.....	NIII		

### GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY CALLS.

Call signal.	Name of ship.	Call signal.	Name of ship.
NGK	Marblehead..... b	NUND	Dale..... b
NIII	Ozark..... b	NUNF	Flusser..... b
NJC	Decatur..... b	NUNG	Preble..... b
NUS	Truxtun..... b	NUNJ	Preston..... b
NXK	C-1..... b	NUNK	Reid..... b
NXN	C-4..... b	NUNL	Whipple..... b
NZD	Fulton..... b	NUNM	Worden..... b
NUMZ	Kankakee..... b	NUNN	Stewart..... b
NUNB	Yocona..... b	NUNP	S. P. 439..... b
NUNC	Lamson..... b		

### 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—
Clifton, N. J.....	2ZM	Lester Spangenberg.
Bozeman, Montana.....	7XB	Montana State College.
Bozeman, Montana.....	7XD	R. Earle Dawes.
Cliffwood, N. J.....	2XF	Western Electric Co.
Elberon, N. J.....	2XJ	Do.
Green Harbor, Mass.....	1XD	Do.
Lacey, Wash.....	7YS	St. Martins College.
New York, N. Y.....	2XB	Western Electric Co.
New York, N. Y.....	2XO	Walter G. Hudson.
New York, N. Y.....	2YT	Marconi Institute.
New York, N. Y.....	2XN	College of the City of New York.
Seattle, Wash.....	7XZ	University of Washington.
Vancouver, Wash.....	7ZB	John B. Herty.

### SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1XD	First district: Green Harbor, Mass.	7XB	Seventh district: Bozeman, Mont.
2XF	Second district: Cliffwood, N. J.	7XD	Bozeman, Mont.
2XJ	Elberon, N. J.	7XZ	Seattle, Wash.
2ZM	Clifton, N. J.	7YS	Lacey, Wash.
2XB	New York, N. Y.	7ZB	Vancouver, Wash.
2XN	New York, N. Y.		
2XO	New York, N. Y.		
2YT	New York, N. Y.		

## 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.]

Morzhovoi, Alaska, *read* False Pass, 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.]

Inoco *read* Innoko.

Williamantic *read* Willimantic.

Strike out all particulars of the following-named vessels:

Adonis.	Constantia.	Kaosamud.
Alioth.	Cornelis.	Kishinev.
Alkaid.	Corolla.	Konigen der Nederlanden.
Ameland.	Drechterland.	Kralingen.
Bacchus.	Elizabeth.	Lakeland (WDL).
Bali.	Flint.	Lakeport (WDJ).
Barendrecht.	Goentoer.	Lakewood (WDK).
Batjan.	Gooiland.	Larenburg.
Bellatrix.	Gorontalo.	Leersum.
Beukelsdijk.	Gorredijk.	Maartensdyk.
Biesbosch.	Hercules (KDAU).	Magdalena.
Billiton.	Hercules (WOE).	Malang.
Buitenzorg.	Jan Van Nassau.	Merauke.
Bussum.	Jason (KDEI).	Mercurius.
Celebes.	Java.	Mijdrecht.
Ceylon.	Jobshaven.	Mirach.
Clio.	J. W. McGrath.	Mizar.

Myogisan Maru.	Rijswijk.	Van Cloon.
Neptunus.	Roepat.	Veendijk.
Nickerie.	Rondo.	Veerhaven.
Nijni Novgorod.	Samarinda.	Vesta.
Noord Brabant.	Sassenheim.	Waalhaven.
Norden.	Seisuku Maru.	West Aero.
Oostdijk.	Shintaka.	West Aula.
Penang Maru.	Slidrecht.	West Harqua Hala.
Pharos.	Sobral.	West Hassan.
Phecda.	Soestdijk.	West Hastain.
Pluto.	Stella.	West Haswell.
Pollux.	Storviken.	West Larango.
Prins de Nederlanden.	Sumatra.	West Mahnet.
Prins Frederik Hendrick.	Sverre.	Wieldrecht.
Prins Willem I.	Ternate.	Wieringen.
Procyon.	Themisto.	Winterswijk.
Randwijk.	Thuban.	Woudrichem.
Rijndam.	Tjisondari.	Yselhaven.
Rijndijk.	Tordenskjold.	Zeelandia.
Rijnland.	Triton.	Zuiderijk.

The stations on the following-named vessels are controlled by the Federal Telegraph Co.:

Argyll.	Lansing.	Sierra.
City of Para.	Los Angeles.	Sonoma.
Coalinga.	Lyman Stewart.	Venezuela.
Colombia.	Newport.	Washtenaw.
Ecuador.	Oleum.	Whittier.
Frank H. Buck.	San Jose.	Wm. F. Herrin.
J. A. Chanslor.	San Juan.	W. S. Porter.
La Brea.		

The stations on the following-named vessels are controlled by the Panama Railroad Co.:

Advance.	Ancon.	General H. F. Hodges.
Allianca.	Cristobal.	General O. H. Ernst.
Colon.	Achilles.	General W. C. Gorgas.
Panama.	Ulysses.	General G. W. Goethals.

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

KITJ, *read* Innoko; KJL, *read* False Pass, Alaska; KMIO, *read* Willimantic; strike out all particulars following the call signals KCAA, KCAI, KCAO, KCAU, KCEI, KCLO, KCEU, KCIA, KCIE, KCIO, KCIU, KCOA, KCOI, KCOO, KCOU, KCUA, KCUE, KCUI, KCUO, KCUU, KDAA, KDAE, KDAI, KDAO, KDAU, KDEE, KDEI, KDEO, KDEU, KDIA, KDIE, KDII, KDIO, KDIU, KDOA, KDOE, KDOO, KDOU, KDUU, KDUE, KDUI, KDUO, KDUU, KEFV, KEGV, KEGZ, KEJR, KEJZ, KEMS, KFAA, KFAE, KFAU, KFEA, KFEV, KFEI, KFUA, KFIA, KFIE, KFII, KFIO, KFIU, KFOA, KFOE, KFOI, KFOO, KFOU, KFUA, KFUE, KFUI, KFUO, KFUU, KGAA, KGAI, KGAO, KGAU, KGEA, KGEE, KGEI, KGEO, KGEU, KGIE, KGI, KGIO, KGIU, KGOA, KGOI, KGOO, KGOU, KGUA, KGUO, KKUE, K KUO, KMOA, KPIO, KQEU, KTK, KXIA, WBAE, WBAO, WBOO, WDJ, WDK, WDL, WKAA, WNEE, WNEI, WOE, WPIA, WRAU, WVIO, and WZUI.

#### 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 Cape St. Elias, Alaska, and Noorvik, Alaska.

## 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.]

Breckenridge *read* Breckinridge.

Strike out all particulars of the following-named vessels:

America.	Otsego.	S. P. 516.
Amphion.	Pastores.	S. P. 517.
Antigone.	Preble.	S. P. 523.
Arcadia.	President Grant.	S. P. 533.
Arizona.	Preston.	S. P. 577.
Dale.	Princeton.	S. P. 738.
Eurana.	Reid.	S. P. 839.
Flusser.	Sandoval.	S. P. 915.
Gen. Goethals.	Santa Eliza.	S. P. 1047.
Gopher.	Santa Teresa.	S. P. 1138.
Hawk.	Sierra.	Standish.
Isla de Luzon.	Sol Navis.	Stewart.
K. I. Luckenbach.	S. P. 145.	Sub. chaser 58.
Kroonland.	S. P. 158.	Sub. chaser 108.
Lake Capens.	S. P. 175.	Sub. chaser 125.
Lake Conesus.	S. P. 182.	Sub. chaser 209.
Lake Elsinora.	S. P. 191.	Sub. chaser 267.
Lake Lemando.	S. P. 194.	Sub. chaser 275.
Lake Michigan.	S. P. 209.	Von Steuben
Lamson.	S. P. 211.	Suwanee.
Lancaster.	S. P. 221.	Wachusett.
Liberator.	S. P. 312.	Westerdijk.
Mercury.	S. P. 323.	Whipple.
Mount Vernon.	S. P. 336.	Worden.
Nahunta.	S. P. 463.	Yantic.
Ohioan.	S. P. 467.	

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

NERZ *read* Breckinridge; strike out all particulars following the calls NCO, NEA, NED, NEH, NEW, NFG, NFK, NFO, NFS, NFW, NHX, NIG, NIW, NLQ, NMI, NMT, NNR, NNY, NOJ, NON, NQO, NTC, NTU, NUY, NWI, NWP, NZO, NABN, NABQ, NACC, NADK, NAGD, NAKS, NALG, NENB, NANP, NAPF, NAST, NATP, NAVG, NAVL, NEDL, NEDS, NEFD, NEGG, NEGT, NELQ, NENF, NEPL, NEQV, NERP, NESP, NITM, NODG, NOGS, NOJR, NONM, NORN, NORZ, NUBF, NUBL, NUBQ, NUBX, NUCC, NUCD, NUCQ, NUCV, NUDB, NUDD, NUDJ, NUDL, NUDM, NUDT, NUFD, NUPF, NUFQ, NUFR, NUKL, NUKM, and NUKV.

## MISCELLANEOUS.

## NAVAL RADIO COMPASS STATIONS.

Effective January 1, 1920, the 800-meter wave length and no other will be used by all United States naval shore radio-compass stations.

## AMENDMENT TO RADIO LAWS AND REGULATIONS OF THE UNITED STATES.

Regulation 166 should be amended so as to eliminate Cleveland, Ohio, and substitute Detroit, Mich., in lieu thereof.

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