

RADIO MESSAGES ACROSS PACIFIC

Arrangements Being Made to Greatly Increase the Volume of Business

SAN FRANCISCO, Cal., June 12.—While naval radio communication across the Pacific during the last two years, supplementing the Commercial Pacific cable, has carried a greater volume of trans-Pacific messages than ever before transmitted, plans have been approved that will increase this volume, to five or six times the present capacity, in the near future. These proposed improvements, which have been approved by the fast-expanding demand for commercial communication facilities which have led to plans in Japan for a new trans-Pacific cable, will be met by radio transmission and congestion will soon be a matter of the past.

Installation of automatic high speed sending and receiving apparatus at all high power naval radio stations, and the opening of a second trans-Pacific radio circuit are two of the main improvements that have been approved. Vast strides in radio transmission have been made during the past two years, improvements that, however, have been guarded as war secrets. When the new reports are made available of the amount of communication handled, commercial and government, and complete assumption of trans-Pacific communication by the naval radio during periods when the cable was rendered useless by break, the revelation of secrets will come as a surprise to those interested in trans-Pacific communication. It has been learned here.

The present United States Naval Radio Communication trans-Pacific service as maintained for commercial work out of San Francisco to Pearl Harbor, Hawaiian Islands, from which circuits are maintained to Pusan, Japan, Cavite, Manila, which relays to the Far East; Tutuila, Guam, and other stations in the Pacific.

It is upon this circuit that automatic high speed sending and receiving apparatus will be installed, increasing the transmission efficiency five or six times.

It has been necessary for the naval radio station at Guam to serve as relay between Cavite and Pearl Harbor, but a short time ago improvements by means of subterranean antennae have permitted direct communication between the Hawaiian Islands and the Philippines.

The use of subterranean antennae, used with excellent results on the Atlantic coast, was just recently added to the naval radio communication service in the Pacific. Instead of high aerials, the antennae is placed a few feet underground or in the water.

Another important feature of improvement in trans-Pacific radio service being inaugurated at present is remote control stations. This means operating of the transmission by a land telegraph wire the transmitting key thus being some distance from the transmitting aerials. The result is that there being no interference by noise of sending, the service is duplicated, messages being sent and received at the same time.

Additional power has been authorized for this circuit, contemplating installation of a new power plant at Cavite, which upon completion will permit at least of cutting down one relay; and a 500 kilowatt plant at Guam with distant control which will permit direct communication between San Francisco

and Guam, thus eliminating the relay at Pearl Harbor. In addition the transmitting station at South City, San Francisco, will be increased from 50 to 100 kilowatts.

The new important development will be the establishment of a second trans-Pacific circuit to the north from a high power station at Keyport, Washington, to St. Paul, Peleby Islands, to Russian Islands, Vladivostok, to the Marine Station, Yokohama, and Cavite. These stations are all American radio stations. The Russian Islands station at Vladivostok will be able to communicate in addition with Shanghai, a French station; Omsk, and other Siberian stations.

The Russian Island station for some time past has been copying government matter from the Point Loma, San Diego station although unable to reply, owing to incompleteness of the transmission set. Just recently, however, the transmission set was reported in operation sufficiently powerful to communicate regularly with Peking and Cavite.

It is expected here that by July 1st, the northern trans-Pacific naval radio circuit will be in operation.

For more than four months the naval radio circuit has been handling all communication between Guam and the Philippines owing to a break in the cable, between those points.

Radio communication, commercial government, has been in operation regularly to the Orient for more than two years, and the only times there have been congestion were when cable trouble occurred and the unusually large amount of traffic, regularly handled by the radio circuit was further loaded down by the volume normally carried by the cable.

LOUISIANA MEETING
The Union County Pioneers will meet in their annual picnic on Thursday, June 18, 1914, at 10 o'clock, a. m., at Riverside Park. Coffee and cake will be furnished free but bring your lunch baskets well filled. There will be an all day session and entertainment at night. 61-1167. S. L. BROOKS, Pres.

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Who are near and dear and true,
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We have nice "cats" for mother,
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Grape Nuts	13c
Post Toasties	14c
H-O Oat Meal	20c
Corn Flakes	14c
Puffed Wheat	14c
Puffed Rice	14c
Shredded Wheat	14c
10 lbs. Germs	75c
10 lbs. Rolled Oats	68c

TEA—

Tree Tea, 1 pound	50c
Hill's Tea, 1 pound	67c
Lipton Tea, 1 pound	85c

FLOUR—

Sea Foam Flour, sack	\$2.80
Blue Stem Flour, sack	\$2.90
Upper Crust H. P. Flour	\$3.17

BAKING POWDER—

Shilling, 1s	54c
Shilling, 2 1/2s	\$1.28
Royal, 12-oz.	47c
Crescent, 1s	25c
Crescent, 3s	70c
Royal, 5s	\$2.47

SOAP—

Bob White Soap, dozen	67c
Crystal White Soap, dozen	67c
Lava Soap, dozen	96c
Goblin Soap, dozen	60c
Sunny Monday Soap, dozen	70c

WESSON OIL—

Pint Tins	42c
Quart Tins	79c
Half Gallon Tins	\$1.47
Mazola Oil, gallon	\$2.82
Mazola Oil, quart	79c
Mazola Oil, pints	42c

SYRUP—

Log Cabin, large	\$1.28
Log Cabin, medium	65c
Tea Garden, gallon	\$1.75
Hill's Sorghum, 2 1/2	33c
Hill's Sorghum, 5s	65c
Brer Rabbit Molasses, 2s	33c
Brer Rabbit Molasses, 10s	\$1.23
Avondale Syrup, 5s	53c
Avondale Syrup, 10s	97c

CANNED VEGETABLES—

Royal Club Beans	22c
Del Monte Peas	22c
Hoopa Tomatoes	13c
Preferred Stock Tomatoes	24c
A. & L. Corn	19c
Del Monte Corn	20c
Del Monte Corn, dozen	\$2.35
Standard Beans	13c
Standard Beans, dozen	\$2.06

CATSUP—

Snider's Catsup, bottle	23c
Del Monte Catsup, bottle	23c

BROOMS—

Light polished handle Broom	96c
Med. Parlor fine stitched	\$1.23

MILK—

Carnation Milk	\$6.85
Sego Milk	\$6.85

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3 pound can	\$1.07
6 pound can	\$2.12

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Camel, L. S. Cigarettes, pkg.	18c

MATCHES—

Rosebud, carton	29c
Swift's, carton	29c

COTTOLENE—

Small cans	58c
Medium cans	\$1.19
Large cans	\$3.05

CHEESE—

Fancy Cream Cheese	38c
Oregon Brick	38c

OLIVES—

Del Monte Ripe Olives, can	32c
Fancy Queen Olives, lg. bot.	63c

EXTRACTS—

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8 oz. bottle	85c
16 oz. bottle	\$1.58

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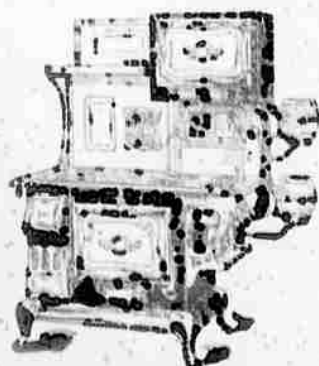
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