

COLLINS SIGNAL

Published by
COLLINS RADIO COMPANY

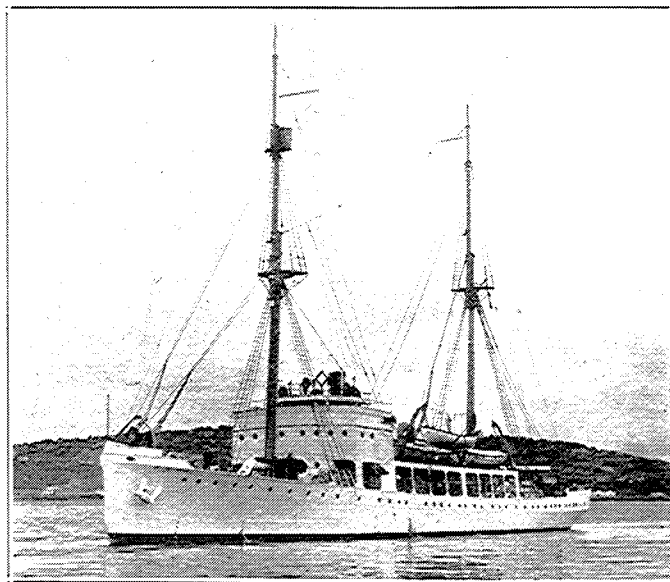
Designers and Manufacturers of
Transmitters, Transformers and Speech Equipment

CEDAR RAPIDS IOWA, U. S. A.

JULY, 1934

Coastguard Activities Described in Broadcast from U. S. Coastguard Cutter "Northland"

The following news item was given to the press on May 15, 1934:



U. S. COASTGUARD CUTTER "THE NORTHLAND" AT ANCHOR IN SEATTLE HARBOR

THE NORTHLAND has recently been equipped with a COLLINS 20B Transmitter

"The strange and numerous duties of the United States Coast Guard in the far reaches of the Arctic Ocean were described this afternoon by Commander William Kirk Scammell, of the USCG Northland, in a broadcast from the deck of that ship as it steamed out of Seattle harbor on the first leg of its annual spring journey to Alaska and the islands of the far north. The short-wave broadcast was picked up by RCA at Point Reyes, a suburb of San Francisco, and relayed to the nation-wide network of the Columbia Broadcasting System. Although the signals of an amateur short-wave operator cut into the program, reception was satisfactory.

"Microphones located at strategic spots about the coast guard cutter picked up the voices of Commander Scammell, his chief radio operator, the bo'sun and the crew. During the interview, Commander Scammell told how he and his subordinate officers serve as physicians, peace officers, and public benefactors, when they stop at the villages along the Alaskan coast.

" 'We have a doctor and a dentist of the United States Public Health Service along with us,' he said, 'with a fully equipped hospital for them to work in. They'll relieve the ills and aches of the Eskimos. You can bet the fellows up there with bad chronic appendices or ulcerated teeth are watching for the Northland's medical staff to come along.'



COASTGUARD RADIO OFFICIALS ABOARD THE NORTHLAND
The man with the soft hat is Lt. Hadley Evans, Communications Officer, Seattle Division U. S. Coastguard.

"The spring weather,' he continues, 'always brings forth some native brides and grooms, and at out-of-the-way places on our route we'll find them waiting for us to tie the knot. I have the pleasure of performing these ceremonies myself.'

"Commander Scammell informed his questioner he is a regular United States Commissioner during the cruise, and the Northland's executive officer acts as Deputy United States Marshal. They are the only representatives of the law some of the Alaskan people ever come into contact with, and it devolves upon them to settle criminal cases, serve as coroners, and enforce U. S. tax and customs laws. The cutter's crew also chart the drift of icebergs, sink floating hulks, and stand by for rescue work of any kind.

"The Northland has recently been equipped with a new and powerful short-wave radio trans-



COMMANDER WILLIAM KIRK SCAMMELL
OF "THE NORTHLAND"

mitter and it is expected that another broadcast from her decks will be heard in August when she is well up in the Arctic Circle."

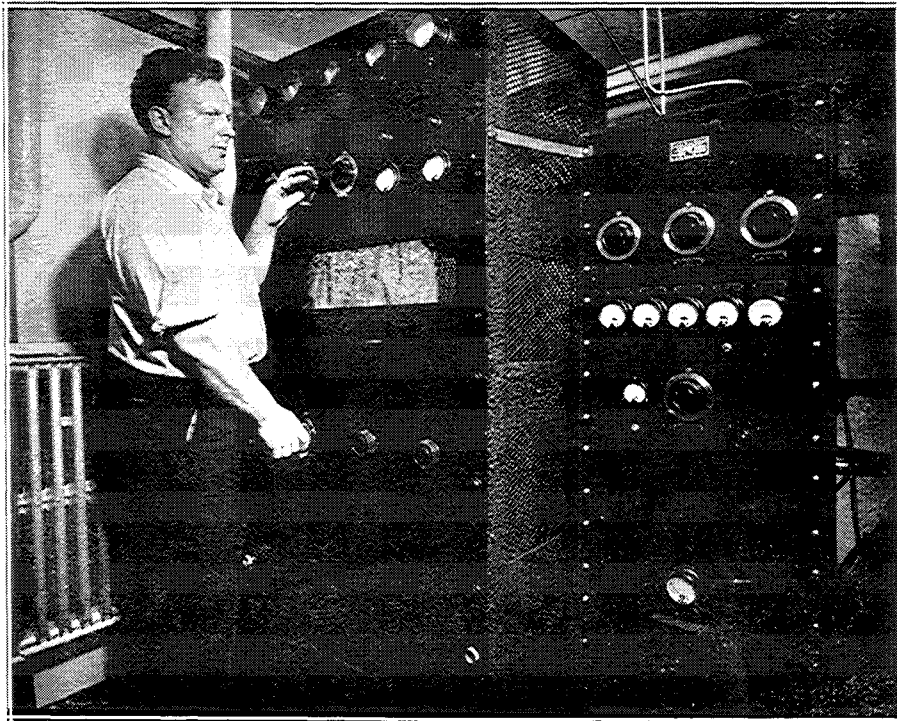
The Northland was recently equipped with a COLLINS 20B—1 kw. transmitter. This installation is identical with the equipment furnished the Byrd Antarctic Expedition II and was selected principally because of the striking suc-

cess achieved by COLLINS equipment at Little America.

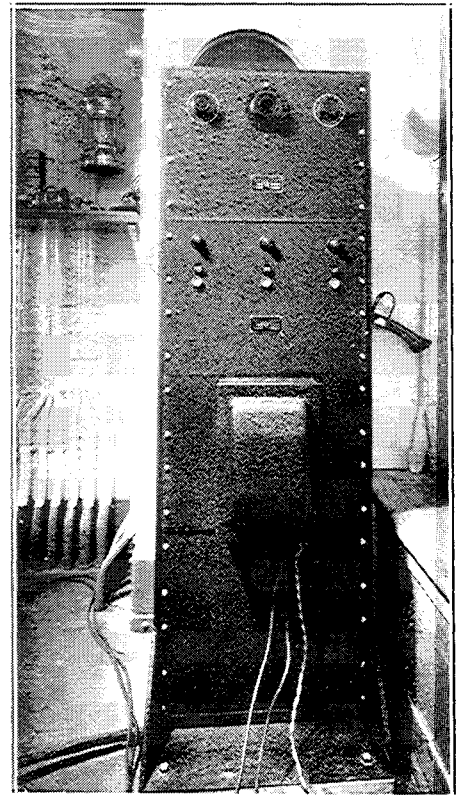
The NORTHLAND will broadcast two sustaining programs during the summer wherein the activities, duties, etc. of the Coastguard will be described. The equipment which the Collins Radio Company has provided will be used under the regular call letters of the NORTHLAND, N U R L.

The first of these broadcasts was given, as described in the above news item, on May 15. The second will occur on August 15.

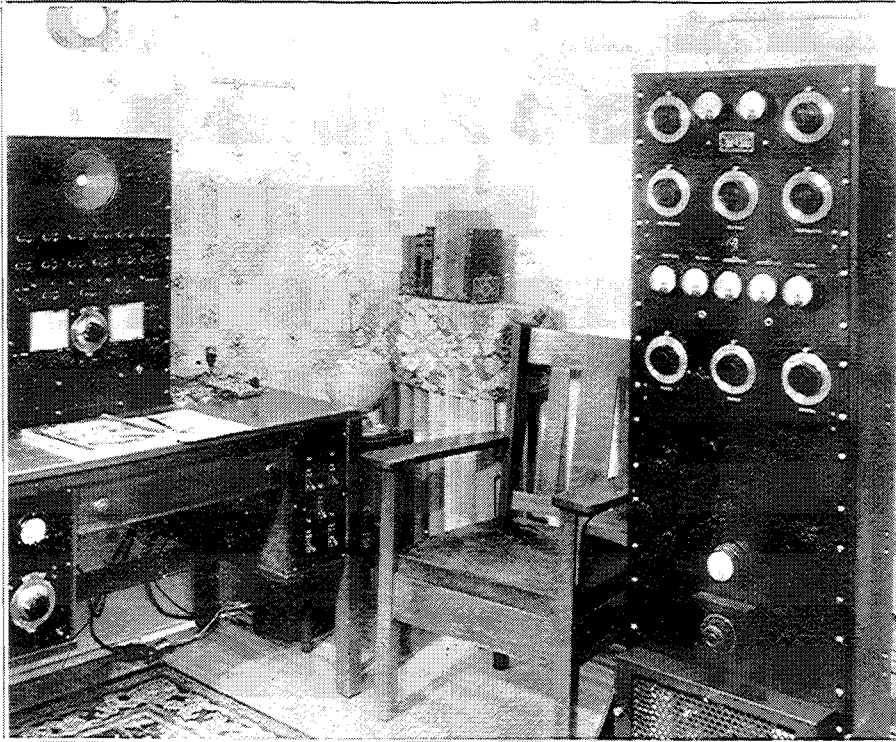
The NORTHLAND is now well on its way to the Arctic Circle, having sailed from Seattle early in May. Upon its return at the close of the season we expect to have some very interesting information regarding the operation of COLLINS equipment in the Arctic Circle. Meanwhile short wave listeners will, no doubt, await with great interest the August 15 broadcast.



CHIEF ENGINEER GUNSTON OF KOL TUNING THE 20B TRANSMITTER ON BOARD
"THE NORTHLAND"



COLLINS POWER PANEL TEMPORARILY
INSTALLED ON "THE NORTHLAND"



John E. Preston Kearny 2-3063

AMATEUR RADIO STATION

W2GOX

105 Prospect Avenue
No. Arlington, N. J.

May 10, 1934.

Collins Radio Company,
Cedar Rapids, Iowa
Attention of Mr. Arthur Collins

Dear Mr. Collins:

I am sending you, under separate cover, a photograph of amateur station W2GOX and a sample of the daily log of the station.

The Collins 300A Transmitter has been giving excellent satisfaction and the results obtained have far surpassed my expectations. The note is always reported T-9 and the signal is frequently reported R-9 in Europe.

The sample log shows the high percentage of DX calls actually worked and gives some idea of the range of the signal, but can give but little idea of the real pleasure and many valued friendships which the transmitter has brought me.

With sincere wishes for your continued success, I am

Very truly yours
J. E. Preston

AMATEUR STATION W2GOX, NORTH ARLINGTON, N. J.



AMATEUR RADIO STATION LOG



WAC ON 14MC W2GOX 42 COUNTRIES

DATE TIME	METHOD	FREQ'Y	POWER	CALLED	CALLED BY	C W H	STATION HEARD			MESSAGES REMARKS ETC <i>Report on my sigs.</i>
							Q	U	R	
5-8-34										
8:55 a	CW	14292	400W	ON4BZ		W	7	T8	103	T9 QSA-5 R-7
4:15 p				HAE3ZO		H	4	RAC	72	
5:45 p				YU7VY		W	5	RAC	112	T9 QSA-5 R-7
6:05 p				I1KI		W	7	T8	41	T9 QSA-5 R-8
7:40 p				CQ	W9JHQ	W	7	T9	81	T9 QSA-5 R-8
10:45 p				CQ	W4AJY	W	7	T9	120	T9 QSA-5 R-8
11:15 p				ZL2BZ		W	8	T7	99	T9 QSA-5 R-8
11:30 p				K6IDK		C	8	T9	106	
11:35 p				VK3MR		W	5	T9	97	T9 QSA-5 R-5
5-9-34										
12:25 p	CW	14292	400W	W6CXW		W	7	T8	105	T9 QSA-5 R-7
8:00 a				LA3C		W	4	T8	26	T9 QSA-5 R-7
8:30 a				G2MA		W	7	T8	78	T9 QSA-5 R-8-9
8:55 a				G6QP		W	4	T9	76	T9 QSA-5 R-8
9:10 a				G2PN		W	4	T9	56	T9 QSA-5 R-8
4:10 p				OK2FF		W	6	T8	35	T9 QSA-5 R-8
4:30 p				PA0AZ		W	6	T9	71	T9 QSA-5 R-7-8
4:55 p				G6QX		C	5	T9	30	
5:00 p				G50J		W	6	T9	47	T9 QSA-5 R-8
5:10 p				LY1J		W	6	T8	79	T9 QSA-5 R-7
6:10 p				D4BCK		W	6	T8	79	T9 QSA-5 R-7-8
7:00 p				G6PY		W	5	T9	50	T9 QSA-5 R-8
9:00 p				TI2DB		C	7	T8	78	
9:05 p				CM2JM		W	8	fone	82	T9 QSA-5 R-7
9:35 p				W6IIA		W	5	T8	89	T9 QSA-5 R-7
9:55 p				LU1EP		C	6	T9	111	
10:25 p				ZL4AO		W	5	T8	88	T9 QSA-5 R-8
11:00 p				K6COG		C	6	T8	90	

A Distinguished Amateur of Mexico City

Dr. James M. B. Hard With His Portable 30DXB Transmitter in His Suite in the Pennsylvania Hotel, New York City

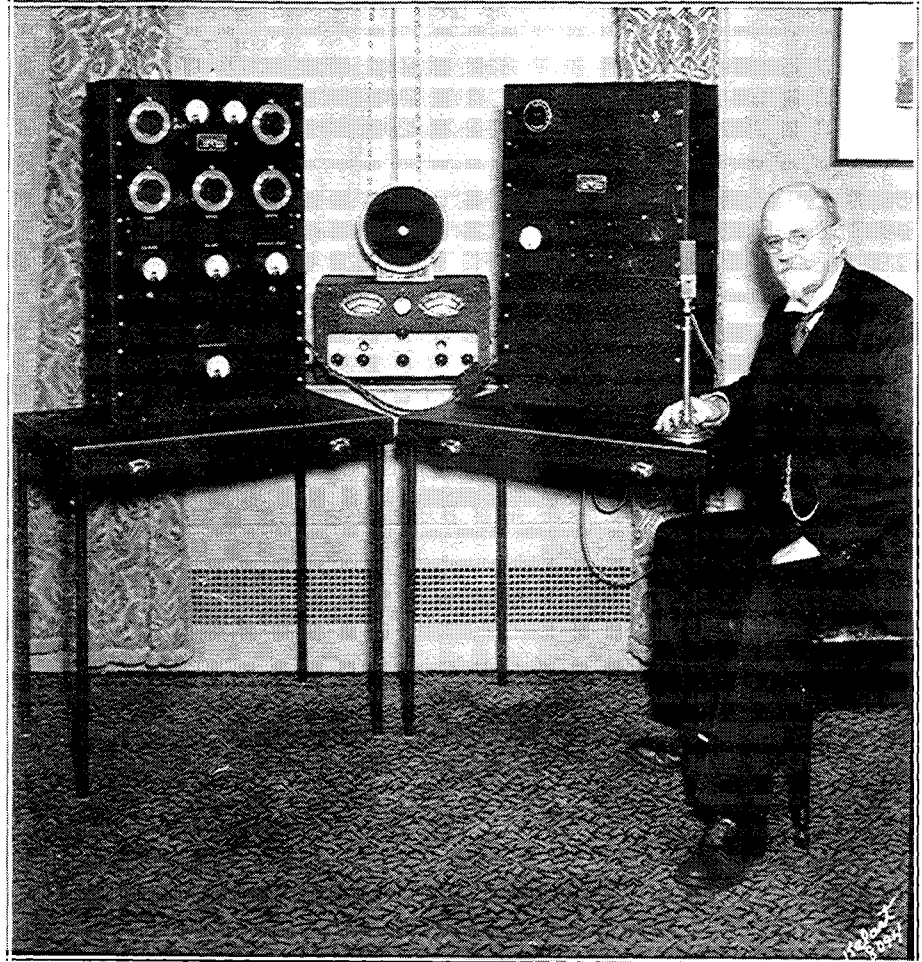
Dr. James M. B. Hard, X 1 G, has been operating his amateur station only for the past year and a half, but in that short time has become one of the best known amateurs, the world over.

Dr. Hard is a charter member of Liga Mexicana De Radio Experimentadores.

In rebuilding his station something like a year ago Dr. Hard chose the COLLINS model 30DXB for his new installation. This transmitter was especially designed to meet the needs of X 1 G, it being used on portable location throughout Mexico. It is Dr. Hard's custom to spend the week-ends away from the City and he desired equipment which would be portable so that he might be on the air when away from home. Therefore, on his last trip to the United States he commissioned us to design a special carrying case and distinctive equipment which might be readily transported in a new Packard which he had just purchased at the New York Automobile Show.

The limitations on a portable transmitter are well known. Especially are they rigid when it is specified that it is absolutely necessary for the instrument to cover a minimum range of 1500 miles. Mexico City is approximately 1,000 miles from the border and it was Dr. Hard's desire, of course, to be able to contact stations in the United States as well as throughout Mexico.

The standard 30DXB was used and an output of 55 watts obtained on all frequencies. The speech amplifier, line voltage control and remote control panel were mounted



in a special rack so that, if necessary, the main transmitter could be remotely controlled for a distance up to approximately 25 ft. Space was reserved on the speech rack for mounting a receiver.

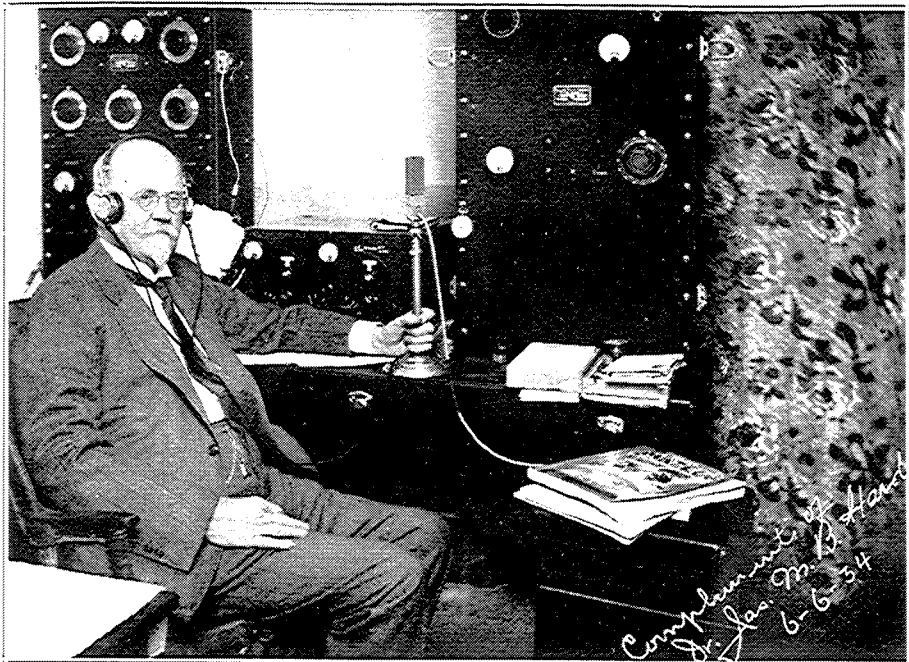
The tables on which the two racks are resting, as shown in the illustrations, are in reality the front covers which protect the meters and dials when the set is being transported. The legs of the tables are removable and it only requires about five minutes to set up completely, or dismantle, the station.

X 1 G has been on the air about six months and is maintaining consistent contacts with all districts

in the United States on 20 meter and 75 meter phone.

The installation is equipped with the Brush crystal microphone which is insensible to atmospheric changes and humidity and it has a frequency response flat from zero to 12,000 cycles.

Dr. Hard is well known to practically every amateur in the United States and abroad. It may interest some to know that the Doctor is a man of imposing height and appearance, of very genial personality and uses amateur radio as a relaxation from his wide and most exacting professional duties. A letter recently received from the Doctor is reproduced herewith.



DR. JAMES M. B. HARD'S AMATEUR STATION X1G, MEXICO CITY

STATION X1G

DR. JAS M. B. HARD, N. R. I.

CHARTER MEMBER
LIGA MEXICANA DE RADIO EXPERIMENTADORES.

TRANSMITER - M. O. P. A.
C. W. & PHONE.
WATTS - 50
MY QRH - 80 MTS.

2a. LAGO CUITZEO 24
COLONIA ANAHUAC, D. F.
Apartado Postal 130.

Mexico, June 18, 1934

Collins Radio Co.,
Cedar Rapids, Iowa; U. S. A.
Gentlemen:

It gives me pleasure to say that I have tried out the special 30DXB, semi-portable transmitter and it has proved very satisfactory.

I have used it on 20 meters and on 75 meters.

The Variac variable transformer has been a life saver, as I have experienced voltages from 70 to 160 volts A. C. with drops of 20 to 50 volts without notice while QSO'ing.

In general, the 30DXB is as nearly fool proof as a transmitter can be, and I heartily recommend it to any who wish to put a good signal on the air and be able to reach 2000 to 3000 miles.

Wishing you success in your future work, I am,

Yours very truly,

Jas. M. B. Hard

58 Monitor Street
Jersey City, New Jersey
April 25, 1934

Collins Radio Company
Cedar Rapids, Iowa

Dear Sirs:

Enclosed please find money order for the 32B Transmitter I purchased from you.

I might add, the performance of the transmitter, considering its low power input, on 14 MC fone and CW has been both a surprise and a revelation. Several European contacts have been established on CW. A card was received the other day reporting my fone R7 in England and a check-up on my log showed less than one week's operation of the transmitter.

All in all I am very much pleased with rig's performance and, needless to say, its appearance.

Respectfully yours,

Henry C. Furch
W2BYR

58 Monitor Street
Jersey City, New Jersey
May 8, 1934

Collins Radio Company
Cedar Rapids, Iowa

Dear Sirs:

Since my last letter four S.W.L. cards have been received from England. One reporting my 14 MC fone signals QSA5—R9 all over the house, another R8 on two tubes, loudest on band, etc. Contact has been established with both Europe and the west coast on fone. In every case reports indicate excellent quality.

I might add the transmitter has been in operation only three weeks and the performance of this little "go-getter" has assured me many a moment of genuine pleasure.

Respectfully yours,

Henry C. Furch
W2BYR

THE NEW COLLINS 30FXB TRANSMITTER

Reproduction of Advertisement Ap-
pearing in the June, 1934, Issue
of QST

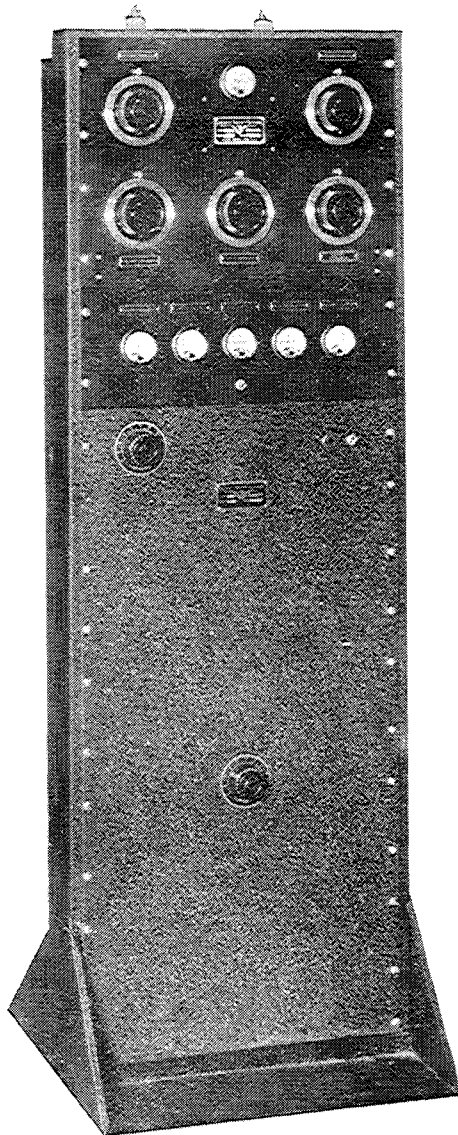
LATEST ADDITION

To a Famed Line of
Transmitters

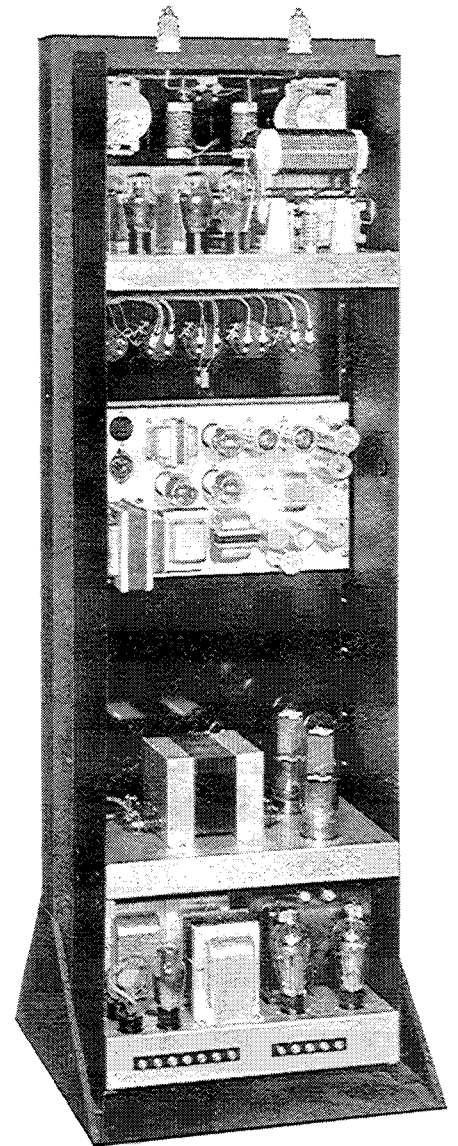
COLLINS 30FXB

A radiophone and telegraph transmitter embodying the latest refinements and developments of the past six months. The 30FXB meets all the requirements of a modern installation — plenty of power, high fidelity, and multiband operation without neutralization adjustment. Installation is simplicity itself — merely connect antenna, power, key and microphone, and you are "on the air."

Completely Self Contained



FRONT



REAR

TECHNICAL DATA

POWER OUTPUT—100 watts nominal rating (203A).

FREQUENCY RANGE—1500 to 15,000 kc. (standard). New isolantite coil forms are used.

FREQUENCY CONTROL—Crystal oscillator with isolation of oscillator from amplifier by a buffer stage.

POWER SUPPLIES—1000 and 1250 volts at 400 MA DC for modulators and power amplifier. 400 volts DC for crystal and buffer.

MODULATOR—Two 830B or 203A tubes are used in Class B.

FIXED NEUTRALIZATION—All neutralization adjustments in the 30FXB Transmitter are fixed at the factory so that the user does not have to do any balancing of the various circuits. Shifting from one band to another is merely a matter of changing the plug-in coils and setting the dials to the calibrated position.

SPEECH AMPLIFIER—The 7C Speech Amplifier designed primarily for use with a crystal micro-

phone is furnished as an integral part of the 30FXB Transmitter. Thus, no external apparatus, except the microphone and telegraph key, is required and the installation is neat, self-contained and compact.

ANTENNA TUNING—The 2C pi Section Antenna Matching Network is furnished as standard equipment. This provision makes it possible to connect the 30FXB to any available antenna and to accomplish efficient energy transfer with proper attenuation of harmonics.

DIMENSIONS—60" high, 20½" wide, 20" deep.

SURPRISINGLY LOW PRICED, WRITE FOR FULL INFORMATION

THE 30FXB TRANSMITTER

The 30FXB Transmitter is the latest 100 watt CW-Radiophone model designed to provide the highest possible performance at moderate cost.

General Specifications

POWER OUTPUT—100 watts, nominal rating.

FREQUENCY RANGE—1500-15,000 kc (provision for operation on higher and lower frequencies available on special order at a slight additional charge.) Coils for any one band furnished with the transmitter. New Isolantite coil forms are standard equipment.

FREQUENCY CONTROL—Direct crystal control with isolation of the crystal oscillator from the power amplifier by a buffer stage.

RADIO FREQUENCY TUBES—47 crystal oscillator, 2-46's parallel as buffers, 1-203A or 1-211 tube as power amplifier.

RECTIFIER TUBES—2-866 high voltage rectifiers, 1-5Z3 low voltage rectifier, 1-45 keying rectifier.

MAXIMUM PERCENTAGE OF MODULATION—100.

AUDIO FREQUENCY RANGE—70-10,000 cycles within plus or minus 1.5 DB.

AMPLITUDE DISTORTION—Less than 5% at 100% modulation.

KEYING—Grid block in the final amplifier. Provision is made for switching off the crystal oscillator to permit reception on the crystal frequency.

POWER SOURCE—110 volts, 60 cycles, single phase is standard. Provision for other voltages and frequencies on special order. Special converters and engine generators are available for use when no AC supply is obtainable.

INSTRUMENTS—Six flush type high-grade instruments are furnished for reading oscillator and first amplifier plate current, second amplifier grid current, second amplifier plate current, modulator plate current, filament voltage and antenna current. All tuning operations and adjustments of the transmitter can be checked by means of these instruments.

SPEECH AMPLIFIER—The 7C Speech Amplifier designed primarily for use with a crystal microphone is furnished as an integral part of the 30FXB Transmitter. Thus, no external apparatus, except the microphone and telegraph key, is required and the installation is neat, self-contained and compact.

ANTENNA TUNING—A 2C pi section antenna matching network is furnished as standard equipment. This provision makes it possible to connect the 30FXB to any available antenna and to accomplish efficient energy transfer with proper attenuation of harmonics. (Arthur A. Collins, "A More Efficient Antenna Coupling System," QST February, 1934).

DIMENSIONS—60" high, 20½" wide, 20" deep. The Transmitter is mounted on a standard COLLINS 60" relay rack.

WEIGHT—Approximately 210 lbs.

SHIPPING WEIGHT—270 lbs.

Radio Frequency Tube Line-Up

The 30FXB Transmitter uses the new 10J Radio Frequency Unit. The final amplifier uses either a 203A or a 211 in a straight neutralized amplifier with a split stator tank circuit. Low-loss tank coils, mounted on Isolantite forms, are used in all stages and the oscillator and buffer tank coils are provided with fixed taps which automatically match impedances and provide adequate excitation. The buffer can be operated as a doubler, especially on 14 mc. operation when a 7 mc. crystal is employed. The exacting design of this Unit has made it possible to realize very high efficiency in the final stage due to proper load relations and adequate grid excitation, especially on 14 mc.

Fixed Neutralization

All neutralization in the 30FXB Transmitter is fixed at the factory so that the user does not have to do any balancing of the various circuits. Shifting from one band to another is merely a matter of changing the plug-in coils and setting the dials to the calibrated position. The entire operation can be performed in a minute's time.

Radiophone Operation

Two 830B's serve as class B modulators for radiophone operation. These tubes have a rated power output of 170 watts, but they are required to deliver only 100 watts of audio power to fully modulate the 200 watt plate input into the 203A class C stage, so that they can be operated with negligible distortion. Provision is also made for inserting RCA 800's or 830's as modulators in case the 830B's are not available.

The Speech Amplifier is the COLLINS 7C Unit described in a separate bulletin. The use of this Amplifier in connection with a crystal microphone insures remarkable audio fidelity. It is also a very convenient arrangement in that it is compact and entirely self-contained within the transmitter. No microphone batteries or pre-amplifiers are required. A special impedance matching unit can be furnished so that moving coil or ribbon type microphones may be used. However, the crystal type of microphone is recommended.

Power Supply

The 405C Power Unit incorporated in the 30FXB Transmitter is of very rugged construction, electrically and mechanically, although it is built in very compact form. The high voltage rectifier using 2-866's delivers 1,000 volts D. C. at 200 to 400 Ma. for radiophone operation and 12500 volts D. C. at 200 Ma. for telegraph operation. The change in voltage output is made by means of a tap on the plate transformer primary. The choke input filter uses a 4 mfd. 2,000 volt pyranol filter condenser. The low voltage rectifier supplying the oscillator and buffer stages delivers 400 volts D.

C. at 125 Ma. with a 5Z3 high-vacuum rectifier. A 45 connected as a diode rectifier furnishes a negative potential for grid block keying of the final amplifier.

Constructional Details

The external dimensions of the 30FXB Transmitter have been outlined under GENERAL SPECIFICATIONS. The 10J Unit employs a dull finish aluminum panel. The chassis sub-assembly is of burnished aluminum accurately formed and pierced. Wiring is rigid conductor or laced cable. Coupling condensers are high-grade mica and resistors are of the wire wound vitreous enamel type. Special Cardwell condensers are used for tuning. Inductances are wound on low-loss Isolantite forms.

The modulator and power supply chassis are heavily copper-plated steel finished with aluminum duco. Transformers are fully encased and every component is designed for continuous duty under full load. Connections are also provided for the key and standby switch.

GUARANTEE—In common with other COLLINS products, the 30FXB Transmitter is unconditionally guaranteed to give complete satisfaction and every purchaser is given individual attention to see that his particular installation is performing at greatest efficiency.

Price On Application
— 30FXB TRANSMITTER —

3309 I Maunaloa Ave.
Honolulu, Hawaii
May 26, 1934

Mr. Arthur A. Collins
Collins Radio Company
Cedar Rapids, Iowa

Dear Mr. Collins,

I received your good letter of the eighth and the 20 meter coil and I want to thank you for your very kind consideration.

I am very satisfied with the splendid performance of the 4-A transmitter. It lives up to your advertisement and more! During the five weeks that I have had it, I worked all W districts (within one week), VE 3-4-5, KA, J, AC, PK, VK, etc. on 40 meters. This is not the limit by all means. Hi. All of them report my sigs as T9, QSA 4-5, R6-7-8.

My antenna is 66'7" long Zepp with 33' feeders, direction almost exactly north and south, height, 30 feet at feeder (south) end, and 40 feet at north end.

The results are surely FB and would recommend the 4-A transmitter to every ham who wants to start off with a moderate investment and get the most out of it.

Just dropping you a line to tell you that I have become one of the many satisfied Collins' users, I remain

Very truly yours,

Norman T. Kobayashi
K 6 K C B

HUNG DAU CHING — K6IDK

Mr. A. A. Collins
Collins Radio Co.
Cedar Rapids, Iowa

Hilo Boarding School
Hilo, Hawaii
April 17, 1934

Dear Mr. Collins:

This is to acknowledge receipt of your pair of 20 meter coils, and for which I am enclosing a check to cover the total cost. I wish to take this opportunity to thank you for your prompt attention to my order and questions pertaining to the operation of the 30FX. Your sincere interest in your customers' progress is certainly commendable.

I am very interested in the developments of the Collins products and hope you will continue keeping me in touch with them thru your timely bulletins. Since I am anxious to go on 160 meter fone, your new data on the 30FXB will be very much welcomed. Here's hoping that I will be one of the lucky hams who will be the first to initiate the 30FXB. It is indeed regrettable that K6 amateurs cannot obtain their Class A licenses here in the Territory at present.

Enclosed, you will find my "official log" of the Sixth International Relay Competition. Being comparatively a novice in this game, you will see that I did fairly well. Your transmitter arrived about four days before the contest, installed the next day, and have been working satisfactorily ever since. In spite of the fact that I had very little time to familiarize myself with the set, she performed like a thorobred, going thru eight days of hectic grind without a hitch, even tho her jockey is "green." Here are the high-lites during that dog-fite. My total score was a little over 9600 points. Undoubtedly, it would have been higher if I had my 20 meter coils then to work during the day. All Ws were worked as well as three Canadian districts. All of the states with the exception of Maine, Vermont, South Carolina, South Dakota, and Nevada were accounted for. The majority of the reports were QSA5, R7 to R9, T9. Many of the QSLs which came in reported me as the loudest and most consistent K6. Among those are W4ZP, W2FAB, W4TS, W8ARO, W7CJR, and VE4IG. Said W1GKE, "Wid 3 WACs in town I am the only one to wrk a K6. . . ." I received a card from PA-R171 who said that he was pretty sure that I was the 1st K6 ever heard there. Cards from SWLs all over the states have been coming in with FB report. Short CQ's generally bring in a bunch of replies. Believe it or not, one cq and one sine thus CQDE K6LDK hooked a mainlander.

Well, Mr. Collins, I can spend a day telling you about that baby of yours, such as giving me the pleasure of meeting an old acquaintance in Peiping via AC2RT (who chewed the rag with me three consecutive nites), working my first Indian and Russian stations, etc., but, I guess, enough have been said to show you how the FX30 is faring. You may use this letter to tell the rest of the amateurs about one satisfied ham. Sorry I have no snap-shot at present, but, I'll send you one as soon as I have some made.

Inquiries about your transmitter have been coming in frequently, and may I assure you that I have nothing but whole-hearted recommendations for it. Mr. Kobayashi, K6KCB, who bought your 4A was one of them. Incidentally, he heard me and reported in his letter to me that my signals were XPDC, QSA 7, R11.

Yours truly,

Hung Dau Ching, K6IDK

P. S. The 30FX is going great on 20 meters. First day on, and W6s, W9s, W1s, and W7s reported best K6 sigs. Really, I can hardly believe them myself.

Ching, K6IDK

LOG—Sixth International Relay Competition

Name—Hung Dau Ching
Address—Hilo Boarding School, Hilo, Hawaii
A. R. R. L. Section—Hawaii

Serial Number—156
Call Signal—K-6IDK
Transmitter—Collins FX30

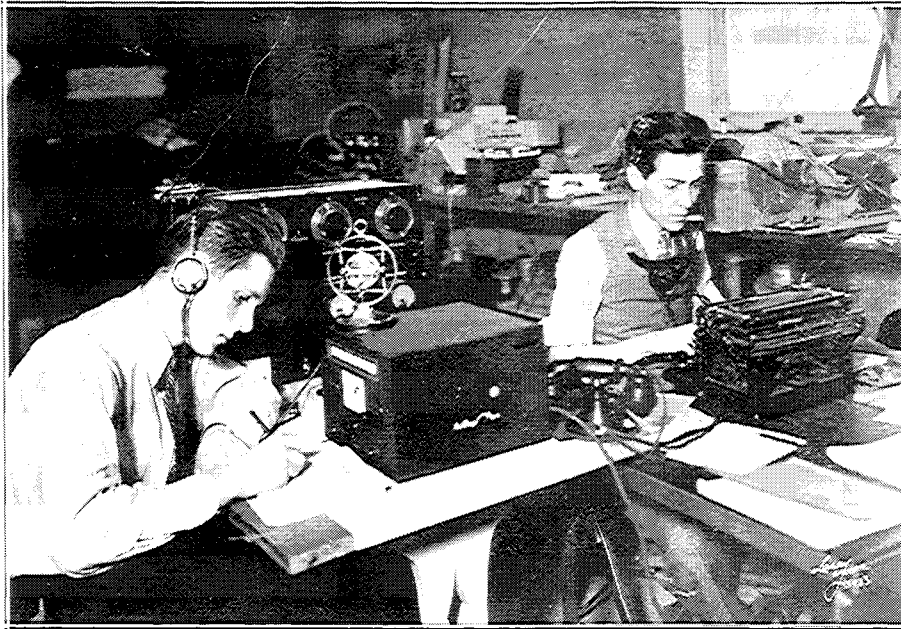
Plate Watts—100
Type of Signal—xdc
Frequency—7188 Exclusively

Time (Local)	Station Worked	Serial Number Sent	Serial Number Rec'd	Points	Time (Local)	Station Worked	Serial Number Sent	Serial Number Rec'd	Points	Time (Local)	Station Worked	Serial Number Sent	Serial Number Rec'd	Points
March 9					12:30	W9UM	156737	482457	3	8:56	W5DUI	156191		2
4:22 P.M.	W6JZD	156000	322000	3	12:45	W9ISR	156482	143265	3	9:08	W9HZR	156191	919232	3
4:49	W6GWY	156322	333000	3	1:00	W8BDG	156143	247000	3	9:15	W9JTP	156919	519191	3
5:20	W6GTM	156333	199159	3	1:15	W3BAI	156247	219505	3	9:32	W6AOD	156519	123126	3
5:35	W7IF	156199	716222	3	1:25	W8DJJ	156219	888000	3	9:42	W6JSG	156123		2
6:00	W3IG	156716	123000	3	1:50	W6ADP	156888	101000	3	10:09	W9SOY	156123	250145	3
8:15	W5AMO	156123	211737	3	1:57	W6AMC	156101		2	10:40	W6KHV	156250	226151	3
8:37	W7DZD	156211	155000	3	2:55	W5ARO	156101	737000	3	10:49	W7BSU	156226	614000	3
9:25	W9BEEZ	156155	752737	3	5:01 P.M.	W7FSK	156737	348744	3	11:22	W7JZ	156614	777728	3
9:40	W9GDH	156752	273123	3	5:35	W6QD	156348	282139	3	11:50	W9LW	156777	888728	3
10:00	W6ENM	156273	245211	3	6:00	W6IEW	156348		2	March 11				
10:25	W3ZJ	156245	555780	3	6:30	W9MNB	156348	345000	3	12:14 A.M.	W7CDC	156888		2
10:48	W6TT	156555	852999	3	6:45	W3DCU	156345	143890	3	12:29	W5MS	156888	777232	3
11:05	W4ZP	156852	737000	3	6:57	W6CBN	156143	373000	3	12:40	W6AM	156777	123321	3
11:25	W6AGS	156737	248000	3	7:18	W5AZB	156373	554000	3	12:54	W5AFV	156123	379663	3
11:30	W5CXU	156248	333222	3	7:28	W7CYK	156554		2	1:10	W1CMX	156379	771222	3
11:52	W9GUN	156333		2	7:45	W8FKG	156554		2	1:27	W4BPY	156771	397000	3
March 10					7:53	W6CSD	156554	123000	3	1:45	W1QV	156397	856111	3
12:00 A.M.	W6JOE	156333		2	8:12	W6CYQ	156123		2	1:55	W8YA	156856	333888	3
12:20	W4WE	156333	737306	3	8:30	W5CTP	156123	191000	3	2:00	W6FEX	156333	892888	3

COLLINS SIGNAL

(Local) Time	Worked Station	Sent Serial Number	Rec'd Serial Number	Points	Time (Local)	Station Worked	Serial Number Sent	Serial Number Rec'd	Points	(Local) Time	Worked Station	Sent Serial Number	Rec'd Serial Number	Points
2:25	W6CVV	156892	373773	3	10:09	W9BTW	156717	861929	3	1:03	W1EK	156189	222662	3
2:42	W7DMN	156373	497777	3	10:20	W6JXA	156861	555323	3	1:14	W1ZI	156222	162267	3
2:50	W6WQ	156497	888666	3	10:37	W2BHZ	156555	852500	3	1:31	W6AAK	156162	642999	3
3:03	W6DRE	156888	914363	3	10:57	W9EZX	156852	732000	3	1:41	W8HQW	156642	888313	3
3:12	W7BYW	156914	313107	3	11:03	W4AJX	156732	852210	3	2:00	W6DYF	156888	515852	3
6:10 P.M.	W6IUU	156313		2	11:17	W6KDG	156852	654243	3	2:10	W5CRS	156515	242091	3
6:30	W6JBV	156313	654321	3	11:31	W6ANN	156654	777111	3	2:24	W5CDY	156242	795000	3
6:49	W6BYB	156654	151139	3	11:43	W6EXQ	156777	888262	3	4:35 P.M.	W6EGH	156210	343717	3
6:57	W6HNT	156151	555115	3	March 14					5:35	W4BGA	156343	747634	3
7:22	W9BQ	156555		2	12:15 A.M.	W2CIN	156838	318765	3	6:00	W8AZH	156747		2
7:45	W6KHF	156555	226156	2	12:53	W1DJX	156318	852444	3	6:20	W7BAA	156747		2
7:52	W7CFC	156226	467210	3	1:11	W8BDP	156852	127871	3	6:39	W5DMB	156747	634444	3
8:01	W6FZL	156467	444777	3	1:23	W8CBC	156127	606711	3	7:01	W7AMP	156634	238313	3
8:14	W65EZ	156444	711373	3	1:33	W8DQN	156606	666777	3	7:20	W8AGK	156238	524314	3
8:30	W4CBY	156711	721583	3	1:53	W9RH	156666	999210	3	7:36	W6GQF	156524	444440	3
8:40	W6IBQ	156721	911898	3	2:05	W9COG	156999	461711	3	8:20	VE4EA	156444	737232	3
9:00	W7AVL	156911	728126	3	2:21	W1BNT	156461	145999	3	8:50	W9GES	156737	222777	3
9:25	W7CHT	156728	777852	3	2:33	W5AUL	156145	409457	3	9:13	W5CUX	156222	887788	3
9:35	W7VG	156777	833852	3	2:49	W9IH	156409	333123	3	9:41	W6FT	156887	121711	3
9:44	W9ATN	156833	833132	3	3:15	W6FBE	156333	123000	3	9:57	W6IEW	156121	723107	3
10:01	W4CA	156833	121999	3	5:05 P.M.	W6TE	156123	990204	3	10:25	W7AYO	156723	311233	3
10:15	W7GJ	156121	774728	3	5:15	W9GYK	156090	999000	3	10:45	W7BBY	156311	276100	3
10:23	W6TA	156774	736373	3	5:21	W7RL	156999	243444	3	10:55	W9IML	156276	999215	3
10:40	W7BVI	156736	111888	3	5:35	W6CEM	156243	921314	3	11:05	W6FWO	156999	351104	3
10:59	W6DHR	156111	246151	3	5:43	W9FAY	156921	362728	3	11:15	W6FQY	156351	999207	3
11:13	W4NN	156246	473583	3	7:13	W6ASV	156236	612139	3	11:26	W9HUZ	156999	885314	3
11:35	W8ANT	156473	602728	3	7:25	W9AKJ	156612	339123	3	11:35	W9TB	156885	888357	3
11:50	W8DED	156602	849227	3	7:43	W9BSK	156339	711526	3	11:46	W6GPU	156888		2
March 12					7:51	W6BPE	156711		2	March 17				
12:01 A.M.	W5BF	156849	526775	3	8:09	W6FZI	156711	999556	3	12:00 A.M.	W6FEX	156888	892111	3
12:11	W7BE	156526	177111	3	8:21	VE5HQ	156999	777999	3	12:09	W3CCF	156892	666849	3
12:21	W9FNK	156177	345000	3	8:41	W9KPV	156777	313313	3	12:18	W6KIU	156666	191916	3
12:34	W9ELL	156345	915363	3	8:55	W8HWE	156313	224156	3	12:27	VE4PG	156191	444000	3
12:50	W5DAA	156915	411123	3	9:05	W6KIL	156224		2	12:40	W4TS	156444	763222	3
1:00	W9DIB	156411	789457	3	9:40	W9EMY	156224	737111	3	12:51	W8ARO	156763	789728	3
1:10	W3BET	156789	324999	3	9:53	W2GEF	156737	467100	3	1:00	W9GJZ	156789	126842	3
1:35	W7TS	156324	456211	3	10:05	W6CLP	156467	787314	3	1:40	W9GRV	156126	159466	3
1:44	W9ASV	156456	971211	3	10:35	W7BUJ	156787	111000	3	1:54	W6EJA	156159	888151	3
4:50 P.M.	W6FET	156971	876104	3	11:05	W7ASN	156111	276001	3	2:05	W8EPC	156888	222457	3
5:37	W9EFQ	156876	317477	3	11:20	W9BQE	156276	928219	3	2:25	W6BAV	156222	371663	3
7:04	W7VT	156317	666711	3	11:35	W5AUC	156928	737267	3	3:35	W5ARB	156371	809456	3
7:49	VE5HS	156666	830156	3	11:45	W3CIC	156737	727749	3	4:44 P.M.	VE4IG	156809	654141	3
8:05	W4VT	156830	452663	3	March 15					5:17	W5DOV	156654	111999	3
8:17	VE5EH	156452	333999	3	12:25 A.M.	W4BGG	156727	444111	3	5:43	W1ME	156111	311222	3
8:35	VE5FG	156333	454606	3	12:45	W6CQI	156444	817111	3	6:02	W3BES	156311	852333	3
8:45	W6BNH	156454	789451	3	1:02	W1GKE	156817		2	6:23	W6WB	156852	564731	3
8:50	W7DXT	156789		2	1:27	W6HEX	156817	222000	3	6:29	W9SX	156564	699424	3
9:17	W9ATN	156789	132002	2	1:35	W5UX	156222	789999	3	6:55	W5APP	156699	317000	3
9:55	W7UJ	156132	223104	3	1:53	W4SW	156789	600210	3	7:12	W8HQ	156317	989711	3
10:26	VE5BI	156223	555142	3	2:07	W6ISG	156600	999606	3	7:23	W8BOF	156989	888728	3
10:36	W6YU	156555	101451	3	2:17	W6CNX	156999	678123	3	7:44	W4AJY	156888	586222	3
10:46	W9JGF	156101	169999	3	2:30	W9FQC	156678	104210	3	7:54	W6EYC	156586	666232	3
11:02	W8JRL	156169	172215	3	2:43	W5GP	156104		2	8:02	W7AOD	156666	256111	3
11:45	W5BSK	156172	471288	3	3:06	W5CUT	156104	189706	3	8:12	W9BYM	156256	156772	3
March 13					3:17	W6JWK	156189	210917	3	8:35	W7DJY	156156		2
12:23 A.M.	W3APJ	156471	555313	3	4:09 P.M.	W6AIX	156210	211347	3	9:03	W9GLW	156156	111444	3
12:34	W9FA	156555	245775	3	5:40	W6EVS	156211	111000	3	9:40	W6KCC	156111	779779	3
12:42	W8AUP	156245	875711	3	6:49	W4DW	156111	888222	3	10:03	W6MV	156779	354333	3
12:51	W1GDY	156875	291711	3	7:23	W5BUI	156888	198000	3	10:11	W6FUM	156354		2
1:05	W1DZE	156291	888678	3	7:32	W6ISH	156198	123000	3	10:32	W6CVW	156354	333115	3
1:17	VE2AX	156888	222485	3	7:46	W4EM	156123	145852	3	10:41	W6IRD	156333	922663	3
1:24	W8BXC	156222	213213	3	7:57	W5AQD	156145	777728	3	11:26	W8BJX	156922	662345	3
1:50	W6FQG	156213	348852	3	8:16	W9BCX	156777	123192	3	11:43	W6AHP	156662	195323	3
2:00	W9JJP	156348	951456	3	8:27	W7DF	156123	773156	3	11:52	W6GIS	156195	777302	3
7:18 P.M.	W6KU	156951	152999	3	8:53	W6HJW	156773	888666	3	March 18				
7:26	W6IUZ	156152	269222	3	9:08	W6FYS	156888		2	12:14 A.M.	W5DSI	156777	857777	3
7:37	W5ASG	156269	258125	3	9:20	W5AQI	156888	221268	3	12:40	W6IAR	156857	816422	3
7:45	W2FAB	156258	858212	3	10:04	W8FJP	156221	111123	3	1:01	W6EFS	156816	123105	3
7:57	W5BRS	156858	666222	3	10:30	W6IOX	156111	333276	3	1:12	W8VZ	156123	522125	3
8:31	W6AZK	156666	337457	3	10:47	W6FMY	156333	416999	3	1:47	W1DXL	156522	222749	3
8:37	W2BUJ	156337	814210	3	11:13	W6ASG	156416	755281	3	2:00	W9CIA	156222	999711	3
8:51	W6CXW	156814	333141	3	11:22	W9HQT	156755	777000	3	2:13	W2BKW	156999	447215	3
8:57	W6BXR	156333	246241	3	11:44	W6HX	156777	300999	3	2:28	W9HVW	156447	999511	3
9:05	W2CDA	156246	752456	3	March 16					2:47	W7CCT	156999		2
9:19	W9AYO	156752	797852	3	12:30 A.M.	W5ZF	156300	515232	3	Log does not include stations outside of W's and VE's.				
9:35	W5DQW	156797	365624	3	12:41	W9ADN	156515	677373	3	Ching K6IDK				
9:43	W6FYN	156365	717737	3	12:47	W9ARN	156677	189777	3					

AMATEUR FLOOD RESCUE WORK



PAUL BOBERG, W7BAZ AND BOB SUTTON, W7GZ ON DUTY IN FLOOD EMERGENCY COLLINS TRANSMITTER IN THE BACKGROUND

Early last January Mr. Morris H. Willis of the Spokane Radio Company wrote us as follows:

"No doubt the fact that COLLINS transmitters were used effectively in connection with the recent work done in Spokane and surrounding territory by local amateurs will be of interest to you.

"The amateurs in this community very effectively carried on the only means of communication for a period of over a week with the flood stricken area at Wallace and Kellogg, Idaho. A copy of the log and notes of Radio Station W7AMA owned and operated by Henry Sturtevant using a COLLINS 32B transmitter will tell the story better than we are able to tell it in a letter. (The log covering the period from December 22 and including a period subsequent to midnight December 27 is intensely interesting but too voluminous for reproduction here.)

"You will note that the transmitter, a COLLINS 4A, used by Mr. Johnson and transported with Mr. Johnson in a plane to Wallace, along with a receiver, was the one which kept up constant communication during the period of the flood.

In addition to the copy of W7AMA's log we inclose a sheet from a local newspaper giving the story and photographs, which illustrate the COLLINS equipment in use.

"If you want any more information regarding this we will be glad to supply it.

Very truly yours,
SPOKANE RADIO CO. INC.
Morris H. Willis, Manager"

The press clipping referred to by Mr. Willis appeared in The Spokane Press of December 26, 1933 and excerpts are as follows:

Peace-time heroes, working modern miracles—that's what Spokane amateur short wave radio operators proved themselves during the Coeur d' Alenes flood emergency.

When raging waters descended on the Coeur d' Alenes last Friday, isolating the towns of Wallace and Kellogg, Idaho, from the outside world, cutting off every other means of communication, short wave radio operators pierced the walls of silence that shrouded the flooded district.

GOT NO PAY FOR LONG HOURS DUTY

Without compensation, working tirelessly night and day, repairing transmitting antenna in darkness and storm, tramping hip deep in mud, carrying heavy equipment into the storm-ridden district, these soldiers of sound waves "stood by" for 120 consecutive hours.

They are still standing by, although telephone communication has been partially restored. Overflow messages are being handled by the radio operators.

When the first report of conditions at Wallace and Kellogg reached Henry Sturtevant, owner of station W7AMA, N3824 Normandie, his transmitting antenna was out of order.

It was dark at the time, and a high wind was blowing. Sturtevant, however, realized that an emergency existed. With only a single flashlight to guide him, he climbed the trees on which the antenna was suspended and repaired the wires.

Since that time station W7AMA and station W7BEV, owned by Roland Smith, W1828 Eighth, have been in constant communication with W7BDX at Wallace and with W7AQK at Kellogg.

Some of the operators, all of whom are members of the Spokane Radio Operators' association, have not been to bed since the flood started. They have stayed with the receivers, keeping awake by drinking black coffee.

McLEAN ON AIR FOR LONG PERIOD

Duncan McLean, operator of station W7BDX at Wallace, Idaho, who had been on the air practically every minute since the flood started, was relieved Christmas day when Carl Johnson, short wave operator, flew to the Osborn flying field near Wallace with Major R. G. Breene in an army plane.

Osborn and an assistant were obliged to carry the heavy transmitter and receiving equipment for a second short wave station at Wallace from the flying field to town.

WALK THROUGH MUD TO STRICKEN TOWN

They walked in mud and water that reached to their hips the four miles to Wallace, where station W7BUZ was set up in a garage.

Johnson reported that great difficulty was encountered in rigging up suitable antenna for the station, but it was accomplished.

AT 2:30 P. M. CHRISTMAS DAY THE STATION WAS FUNCTIONING PERFECTLY

More than a thousand messages were handled by Spokane short wave operators. Telegrams, stockbrokers sales, requests for food and other emergency messages were put through with speed and accuracy.

SPOKANE FIRMS ALSO HELPFUL

Short wave operators on duty Christmas day at the two local stations included Art Schwartz,



AMATEURS ON DUTY IN COEUR d' ALENES FLOOD EMERGENCY
 Standing—Bill Logan and Chester Brown. Extreme right—COLLINS 32B Transmitter.
 Sitting—Eugene Balch, Henry Sturtevant (at typewriter) and Jim Cardullo.

George Bullis, Bob Sutton, Howard Masterson, Bob Dellar, Richard Blair, Paul Van Dusen, Eugene Balch, Wes Bell, Chester Brown, Roland Smith, Arvid Peterson, Nelson Collett, Wilbur Miller, John Matthews, Jim Cardullo, Tex Taylor, Bill Logan, Paul Boberg and Ray Souther.

Spokane firms who co-operated with the amateurs and furnished them with extra equipment free were the Home Telephone & Telegraph company, the Spokane Radio company and E. J. Gibson Co.

OTHER OPERATORS DID THEIR PART

Short wave stations throughout this section of the country co-operated with Spokane stations during the emergency, and gave splendid assistance. Operators who were especially helpful included Ted Reid, Orofino, Idaho; Russell Short, Weiser, Idaho; Jeff Woodhouse and Les Crouter, Butte, Montana, and station W7CRX, Salt City, Utah.

The Spokane Chamber of Commerce gave a luncheon on January 2, 1934 which was devoted almost entirely to the above exploit.

An Eminent Surgeon and an Enthusiastic Amateur

Dr. H. A. D. Baer, owner of the Baer Hospital of Allentown, Pa., and President of the Allentown Amateur Radio Club, is an enthusiastic owner of a COLLINS 4A and 150A. Like many men of distinguished position and affairs, Dr. Baer seeks his relaxation through his interest in amateur short wave radio.

The Baer Hospital was established in

September, 1920. It was located at that time at 12th & Walnut Sts. in Allentown and was originally devoted exclusively to maternity cases. About five years ago the old quarters proved entirely inadequate and more ample facilities were provided in a location a little farther out near the best residential section of the city.

The institution gained so high a reputation in its work that it was compelled to extend its activities to the treatment of other surgical cases. At the present time the hospital does the work of a general institution with eight senior members on the staff, most of whom are nationally and internationally known and the hospital is one of those approved by the American Medical Association because of high professional standards.

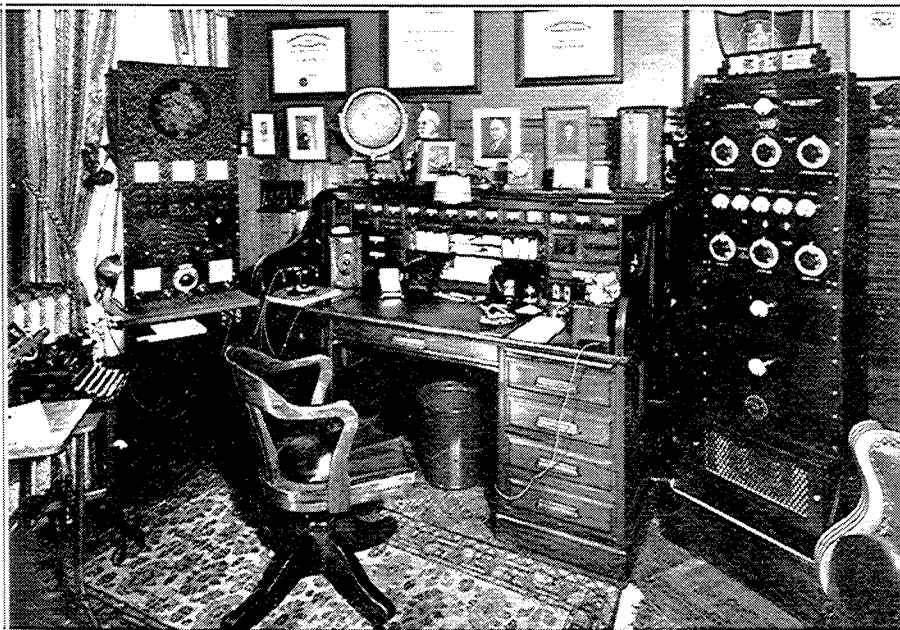
An extremely interesting and amusing incident occurred recently and was reported in the Allentown "Morning Call" of Wednesday, May 24, from which we quote.

"First cries of his infant daughter, upon her entrance into the world, were heard by Forrest Fried, of 942 North street, as he sat at his short wave radio receiving set at his home.

"The baby, to be named Katie after her grandmother, was born Friday afternoon at the Baer hospital, with Dr. H. A. D. Baer in attendance. Dr. Baer and Mr. Fried are both short wave enthusiasts, fellow members of the Allentown Radio Club, and it was over Dr. Baer's station, W3EEY, that the child's cries were sent.

"Immediately after the birth Dr. Baer took the child to the microphone of the radio station and her lusty cries were distinctly heard by the father.

"It is believed the broadcast staged at the hospital Friday is the first of its kind ever conducted and it is a matter of genuine interest among the radio enthusiasts of this section."



A CORNER OF THE OFFICE AND STUDY OF DR. H. A. D. BAER IN ALLENTOWN, PA. SHOWING COLLINS 150A TRANSMITTER

U. S. POSTAGE PAID
PERMIT No. 82
Cedar Rapids, Ia.

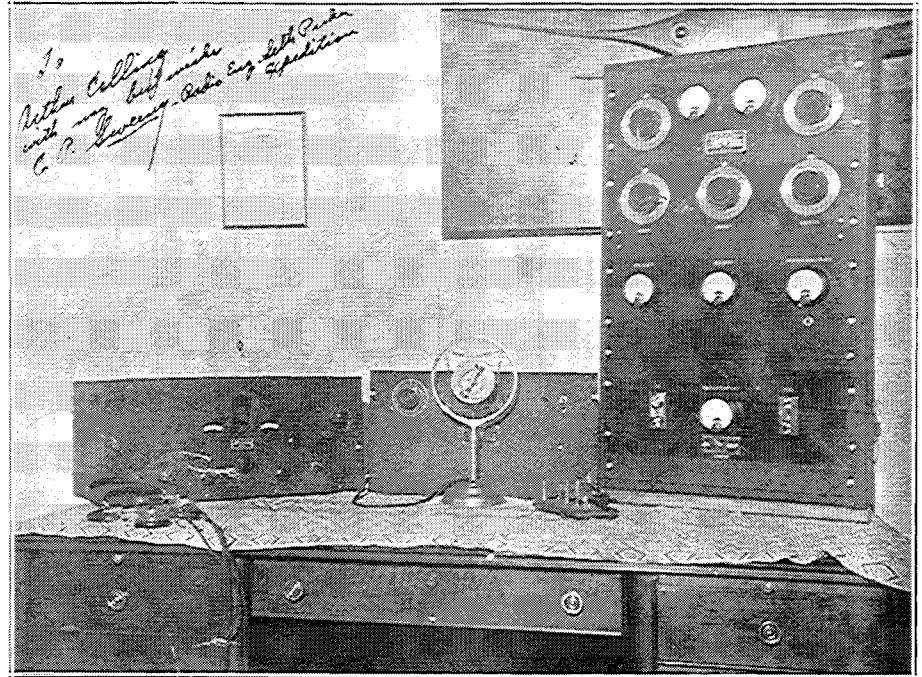
H. M. Johnson
414 - E 3rd St
Kansas City
Mo

296

COLLINS SIGNAL

The Cruise of the "Seth Parker"

The radio broadcasts of Phillips Lord as "Seth Parker" are familiar to every citizen of the United States. Just at present Mr. Lord is on a world cruise and one of the short wave transmitters on the yacht, "Seth Parker," was furnished by the Collins Radio Company. C. P. Sweeney, who is a well known amateur, is radio engineer. We are informed on excellent authority that the swordfish was neither located nor enticed by short wave.



QUARTERS OF RADIO ENGINEER C. P. SWEENEY ON BOARD YACHT, "SETH PARKER" COLLINS 30DXB AND 7C AMPLIFIER EQUIPMENT

ANOTHER NEWS RELEASE

The following news item was released to the press on June 29, 1934:

Arctic-Antarctic Broadcast to be Multiple Meeting of Extremes

The Columbia Broadcasting System's spectacular attempt to link the Arctic and the Antarctic by radiophone during the Byrd Expedition broadcast on Wednesday, July 11, will be a meeting of the extremes in more ways than one. The widest possible differences in surroundings, temperature and light will separate Little America and Columbia's temporary station in northwestern Alaska, KILS. In fact, the only similarity between the two regions at opposite ends of the globe lies in the fact that they are both polar areas, in the same approximate time belt and they are both "wired for sound." Bob Flagler, CBS announcer-engineer in the Arctic, will be working in almost constant daylight, while Charlie Murphy and John Dyer, at

KFZ in Little America, will be in total darkness. Although the temperature within the Arctic Circle will not be of heat-wave proportions, it will be considerably warmer than Byrd Expedition base. Both polar regions are always in the grip of an ice pack, but in July, the Arctic ice will be receding and leaving great stretches of clear water, while the Antarctic pack will be frozen solid. Radio will be subject to one of the severest tests in its history during the broadcast linking the two regions. In the first place, both Flagler's and Little America's signals will be influenced by polar magnetism. The voices, as they travel from KILS to KFZ and return, will have to pass twice through the frigid, temperate and tropical zones and their varying

atmospheric conditions. The broadcast will be heard in the United States between 10:00 and 10:30 P. M., EDST.

The equipment used in this broadcast by Bob Flagler will be a COLLINS 20B—1 kw. transmitter.

It is most interesting to note that this most difficult feat ever accomplished by radio will be undertaken by the Columbia Broadcasting System with COLLINS equipment at both Little America and in the Arctic Circle.

FLASH! — Most outstanding communication Arctic to Antarctic was completed, as planned, on Wednesday evening, July 11, 1934 just at time of going to press. Details in next issue.