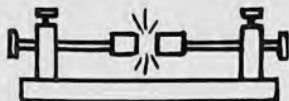
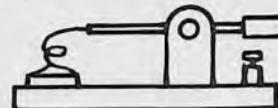


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1 DECEMBER, 1963

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AT THIS TIME OF YEAR, THE SPIRIT OF CHRISTMAS PERVADES THE CHRISTIAN WORLD. IT WILL BE FILLED WITH THE WAIL OF RADIO AND TELEVISION SINGERS WHOSE TALENTS FIT MOST OF THEM FOR A JOB OF DITCH DIGGING; MERCHANTS WILL DISPLAY WARES AT HIGHER PRICES THAN VALUE WILL JUSTIFY AND CHILDREN WILL LOOK AT TOYS THAT MANY OF THEM WILL NOT RECEIVE.

THE BIRTH OF CHRIST WILL BE COMMERCIALIZED TO THE POINT OF DISGUST AND MANY THINKING PEOPLE OF ALL FAITHS WILL WONDER MORE AND MORE ABOUT THE SINCERITY OF MANKIND. ALL THESE THINGS HOWEVER, CANNOT LESSEN THE JOY OF THE OCCASION AND ITS MEANING. THEREFORE ON BEHALF OF ALL OFFICERS, I WISH YOU ALL A MOST JOYOUS CHRISTMAS AND A HEALTHY AND HAPPY NEW YEAR.

EARL E. CLINE SR. PRESIDENT AND EDITOR OF SPARK GAP TIMES.

ELECTED OFFICERS FOR 1964-1965



PERLEY B. DUNN W6WPF
VICE PRESIDENT ELECT



C. BERT OSBORNE W4MF
PRESIDENT ELECT



EARL C. WILLIAMS W2EG
SECY-TREAS RE-ELECTED

R.F.D. EPPING, N.H.
DECEMBER 1, 1963

DEAR OLD OLD TIMERS:

GREETINGS AND SALUTATIONS FOR THE COMING NEW YEAR. IT IS QUITE DIFFICULT TO REALIZE THAT A DECADE HAS PASSED SINCE MY LAST LETTER OF JANUARY 7, 1954, WHICH OPENED IN THE SAME MANNER.

THESE TEN YEARS HAVE SEEN MANY NEW MEMBERS JOIN THE CLUB AND MANY JOIN THE RANKS OF "SILENT KEYS," BUT THE CREED AND PURPOSE OF THE CLUB STILL REMAINS THE SAME, TO DEMONSTRATE THE TRUE BROTHERHOOD OF MAN.

WE ALL WISH TO HEARTILY CONGRATULATE MR. C. BERTRAM OSBORNE ON BEING ELECTED THE FIFTH PRESIDENT OF OOTC. YOUR HANDSOME PLURALITY TESTIFIED TO THE HIGH ESTEEM IN WHICH YOU ARE HELD BY THE ENTIRE MEMBERSHIP; WHICH OF COURSE, IS TRULY A VOTE OF THANKS FOR THE WONDERFUL JOB YOU DID AS EDITOR OF THE "BLUE BOOK OF AMATEUR WIRELESS." WHEN YOU ROLLED UP YOUR SLEEVES AND COMPLETED THE ENTIRE WORK IN A FEW SHORT MONTHS, AFTER SIXTEEN LONG YEARS OF PROCRASTINATIONS, PROMISES AND ALIBIS, HI-- YOU ALSO CONSTRUCTED A MONUMENT TO YOUR LABORS FOR ALL TIME TO COME; AGAIN, CONGRATULATIONS FOR WORK WELL DONE AND MAY YOU ACHIEVE MANY FUTURE HONORS AS PRESIDENT OF THE OOTC.

CONGRATULATIONS ARE ALSO IN ORDER FOR PERLEY B. DUNN W6WPF, VICE PRESIDENT ELECT FOR THE NEXT TWO YEARS. THIS BREAKS THE ICE FOR OUR WEST COAST FRIENDS, AS JACK BECOMES OUR FIRST ELECTED OFFICER OF OOTC FROM W6 LAND. WE ALL SINCERELY THANK YOU FOR THE FINE WORK ALREADY PERFORMED IN THE PAST AS AWARDS CHAIRMAN AND LOOK FORWARD TO BIG THINGS COMING OUT OF ENCINO IN THE NEXT TWO YEARS.

NOW WE COME TO OUR VERY CONSCIENCIOUS SECRETARY-TREASURER, MR. EARL C. WILLIAMS OF NEPTUNE, N.J. WHO SEEMS TO BE RUNNING A PARALLEL COURSE WITH OLD F.D.R., WITH THREE ELECTED TERMS NOW UNDER HIS BELT AND NO DOUBT A FOURTH COMING UP. PLEASE ALLOW ME TO OFFER MY SINCERE CONGRATULATIONS ON THE MASTERFUL WAY IN WHICH YOU MASTER-MIND THE 75 METER OOTC ROUNDTABLE EVERY THURSDAY EVENING ON 3940 Kc. YOUR VERY COMPREHENSIVE WEEKLY REPORT OF OOTC ACTIVITIES; WHICH OF COURSE, IS THE HIGH-LIGHT OF THE ROUNDTABLE; BEING EAGERLY LOOKED FORWARD TO EACH THURSDAY NIGHT AT THE MAGIC HOUR OF 7 P.M. AS COMMODORE OF THE FLEET, I AM WONDERING, EARL MY FRIEND, IF YOU CANNOT GET A FEW MORE POUNDS OF STEAM FROM THE OLD BOILERS AND REV HER UP A FEW KNOTS.

LETTER FROM HONORABLE FOUNDER

SURELY YOU MUST REMEMBER THAT BACK IN THE HALCION DAYS (LATE FORTIES AND EARLY FIFTIES) WE USED TO HAVE 25 TO 35 IN THE ROUNDTABLE WHEN THE MEMBERSHIP WAS LESS THAN ONE HUNDRED. SPECIAL STAND-BYS WERE TAKEN FOR OUR MID-WSETERN BRETHREN AND WE WERE ALWAYS REWARDED WITH PLENTY OF 8S AND 9S, WITH AN OCCASIONAL ZERO. IT WAS A WEEKLY HABIT TO INCLUDE THE ENTIRE FLORIDA CHAPTER.

USUAL PROCEEDURE WAS TO SEND IT DOWN TO PAT, W4ZB (ONE OF THE OLD PIONEERS) THEN TO WIDLH/4 OF DAYTONA BEACH; (HARDTACK JOE), THEN TO BOB, W4TY (ONE OF THE FOUNDING FATHERS) THEN TO W4FE (KING ARTHUR AMONGST THE LITTLE OLD HILLS). NEXT TO W4ZJ (GENTLEMAN JIM OF JACKSONVILLE) AND FINALLY BACK NORTH TO WINQ (WITH EYES OF BLUE) .

WE ALL USED TO VISIT WITH KP4ZK (SIR RICHARD OF ENSENADA) QUITE GREQUENTLY, ALSO A NON-MEMBER STATION DOWN IN THE VIRGIN ISLANDS, WHOSE LETTERS I DO NOT RECALL. THE CONSENSUS OF OPINION SEEMS TO BE COMMODORE, THAT YOUR BEST MC TO DATE HAS BEEN THE "DUCHESS OF CHRISTIAN HILL" WIMPP. EUNICE ALWAYS HAD A FEW TIMELY REMARKS AND FRIENDLY COMMENTS TO MAKE AT THE END OF EACH TRANSMISSION, WHICH ALWAYS MADE A CHAP REALIZE HE HAD NOT BEEN TALKING INTO THIN AIR, HI DE HO. BY ALL MEANS LET US HEAR MORE FROM THE FAIR LADY, AND PERHAPS SHE MAY BE PURSUADED TO SNEAK IN A "BED TIME STORY," FOR OLD TIMES SAKE, AFTER THE ROUNDTABLE FOLDS UP.

THE MAIN PURPOSE IN WRITING THIS LETTER IS TO MAKE TWO EXTREMELY IMPORTANT NOMINATIONS FOR CONSIDERATION OF THE BOARD; ONE OF WHICH IS LONG OVERDUE AND THE OTHER HAS ALREADY BEEN MADE FOR SOME TIME BUT IS JUST NOW BEING ANNOUNCED.

THE FIRST PERTAINS TO A GREAT AMATEUR, ENGINEER AND INVENTOR. I AM SPEAKING ABOUT MY FRIEND AND NEIGHBOR, PROF. EDWIN H. ARMSTRONG, WHO MAINTAINED A BEAUTIFUL SUMMER MAN-SION ON SEA ROAD, RYE BEACH, N.H. FOR SOME TWENTY ODD YEARS; ONLY ABOUT A TWENTY MINUTE EASY DRIVE FROM NOTTINGHAM. HERE HE MAINTAINED A WONDERFULLY EQUIPPED LABORATORY WHERE HE CARRIED ON HIS NUMEROUS ANTENNA EXPERIMENTS UP UNTIL THE LAST.

THE PROFESSOR WAS BORN IN YONKERS, N.Y. IN 1890 AND BUILT HIS FIRST HAM WIRELESS SET IN 1908. IN 1912 HE DEVELOPED THE ARMSTRONG REGENERATIVE CIRCUIT WHICH GRADUATED HAM RECEIVERS FROM THE CRYSTAL STAGE, OPENING UP DX, AND OF COURSE PAVED THE WAY FOR OUR MOPA TRANSMITTERS AT THE BEGINNING OF THE JAZZ AGE. HIS INVENTION OF THE SUPERHETRODYNE IN THE TWENTIES IS NOW THE BASIC CIRCUITRY OF ALL MODERN RADIO RECEIVERS; AND HIS DEVELOPMENT OF THE SUPER-REGENERATIVE CIRCUIT WAS A NATURAL FOR POLICE DEPARTMENTS ALL OVER THE COUNTRY.

I FIRST MET THE PROFESSOR IN THE THIRTIES WHEN I WAS CHIEF OF THE ROCKLAND COUNTY POLICE SYSTEM. AT THAT HE WAS BUSY BUILDING HIS FM STATION AT ALPINE, N.J. THE STATION WAS A VERY SIZABLE BRICK STRUCTURE TWO STORIES TALL, WHICH HOUSED THE POWERFUL GENERATORS SWITCH-BOARDS, AND TRANSMITTING FM EQUIPMENT OF VERY ELABORATE DESIGN. THE STEEL TRANSMITTING TOWER ROSE 400 FEET ABOVE THE TOP OF THE PALISADES AND HAD A 150 FOOT CAT-WALK AT THE TOP, WHERE HE MOUNTED HIS NUMEROUS ANTENNAE. THE PROFESSOR HAD ALREADY SECURED HIS PATENT RIGHTS ON FM. THIS STATION WAS BUILT TO DEMONSTRATE THE COMMERCIAL FEASIBILITY OF FM BROADCASTING AND REPRESENTED AN INVESTMENT OF A HALF MILLION DOLLARS.

I PARTICULARLY REMEMBER ONE VISIT MADE TO ALPINE IN THE SUMMER OF 1937, WHEN THE STATION WAS PRACTICALLY COMPLETED, READY TO GO. AFTER LOOKING OVER THE SITUATION, FROM BOW TO STERN, I REMARKED TO THE PROFESSOR THAT I COULD CERTAINLY SEE A BIG STACK OF BLUE CHIPS INVESTED IN THE DEAL. YES, HE SAID, "I CONSIDER THIS PROJECT JUST LIKE PLAYING THE HORSES, ONLY IN MY CASE, I AM PLAYING THE HORSE ON THE NOSE, IF HE COMES HOME, I WILL HAVE ARRIVED, IF HE DOES NOT, I AM SUNK." WELL, WE ALL KNOW THAT HE HAD THE COURAGE OF HIS CONVICTIONS, BECAUSE ALL FAMILIES IN AMERICA TODAY WHO OWN A TELEVISION SET, CAN THANK PROF. EDWIN H. ARMSTRONG FOR THE HIGH QUALITY, STATIC FREE AUDIO THEY ENJOY TODAY.

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LETTER FROM HONORABLE FOUNDER

THE LAST LETTER I RECEIVED FROM THE PROFESSOR, STATED AMONG OTHER THINGS, THAT HE WAS LOOKING FORWARD TO JOINING UP WITH US OLD OLD TIMERS, JUST AS SOON AS HE RECEIVED HIS CALL LETTERS FROM WASHINGTON AND ALSO QUOTE, "THE OOTC SEEMS SO REFRESHING IN THIS DAY AND AGE WHEN SO MANY DIFFERENT ORGANIZATIONS ARE TRYING TO REPRESENT THE ORIGINAL PIONEERS AND EARLY EXPERIMENTERS IN "WIRELESS TELEGRAPHY." THE LEGAL RUN AROUND HE WAS FORCED TO ENDURE FOR SIX YEARS, WHILE TRYING TO DEFEND HIS FM PATENT RIGHTS, WAS A CONSIDERABLE DRAIN ON HIS RESOURCES, BUT HIS ESTATE WAS ENTIRELY SOLVENT AT HIS PASSING IN 1954.

I WOULD LIKE TO SEE THE NAME OF PROF. EDWIN H. ARMSTRONG PERMANENTLY PLACED ON THE HONOR ROLL OF OOTC IN "MEMORIAM."

NOW WE COME TO THE SECOND APPOINTMENT, WHICH WAS ACTUALLY MADE ON NOVEMBER 18, 1962. THIS PERTAINS TO OUR ILLUSTRIOUS PRESIDENT, MR. EARL E. CLINE SR. OF CHATTANOOGA, TENN.

I CONSIDER IT AN HONOR AND A PRIVILEGE TO HAVE HAD THE OPPORTUNITY TO WORK WITH AND BE COLSELY ASSOCIATED WITH THIS FINE GENTLEMAN FOR THE PAST EIGHT YEARS. THE FIRST FOUR OF WHICH HE SERVED AS TREASURERE AND THE LAST FOUR AS PRESIDENT OF THE OOTC.

WHEN CLINE WROTE ME A LETTER ABOUT ONE YEAR AGO AND INDICATED THAT HE WOULD NOT CHOOSE TO RUN FOR OFFICE DURING THE RECENT ELECTION, I ANSWERED AND SAID THAT I QUITE AGREED WITH HIM-THAT IT WAS TIME TO SIT BACK AND REST ON HIS LAURELS AND ENJOY WATCHING THE FRUITS OF HIS MANY YEARS OF CONCIENCIOUS LABOR IN HELPING TO BUILD UP THE OOTC TO ITS PRESENT HIGH STATUS.

AFTER MUCH THOUGHT AND DELIBERATION IT WAS DECIDED THAT CLINE SHOULD BE REWARDED WITH THE HIGHEST HONOR THE CLUB IS ABLE TO BESTOW, NAMELY, THE LIFE TITLE OF (PRESIDENT EMERITUS OF THE OOTC) THIS IN RECOGNITION OF EIGHT YEARS OF DILIGENT WORK PERFORMED WITH SUCH DISTINCTION.

AS STATED IN THE "INTRODUCTION IN THE BLUE BOOK, ONE OF HIS BIG CONTRIBUTIONS WAS HIS CREATION AND PUBLICATION OF " SPARK GAP TIMES." I HAVE ALWAYS ENJOYED HIS TIMELY REMARKS AND FLATTERING COMMENTS AT THE END OF EACH ARTICLE, AND WHEN I SEE THAT FAMOUS SIGNATURE, "YE OLDE COPPYE BOYE," I AM REMINDED OF THE IMMORTAL WORDS OF OUR GREAT MASTER AND TEACHER, WHO ONCE SAID, "LET HIM WHO IS GREATEST AMONG YOU BE SERVANT OF ALL."

NOW CLINE, MY FRIEND, YOU CAN BREAK OUT THOSE GONDOLA SLIPPERS, I MEAN THE ONES WITH THE CURVED UP TOES, PUT ON THE OLD STOCKING CAP, THE ONE WITH THE LONG TASSEL; THEN SIT IN THE ROCKING CHAIR AND WATCH THIS HARD CRUEL WORLD ROLL BY. MORE POWER TO YOU CLINE AND MAY YOU BECOME BETTER KNOWN TO THE NEWCOMERS, AS THE GREAT GRAND DADDY OF OOTC.

I MIGHT AS WELL CLOSE THIS LETTER THE SAME AS THE LAST ONE BY SAYING THAT, THE GOOSE STILL HANGS HIGH, ALTHO PERHAPS HE HAS BEEN PUSHED UP A FEW NOTCHES ON THE OLD BARN RAFTER.

FRATERNALLY YOURS

Hubert E. Ingalls

HONORABLE FOUNDER.

BERT, IT WAS SO VERY NICE OF YOU TO TAKE THE TIME TO WRITE THIS VERY INTERESTING AND INSPIRING LETTER TO OUR MEMBERS. WE ALL THANK YOU AND I PERSONALLY MUST THANK YOU MOST HEARTILY FOR YOUR KIND WORDS AND THE NOMINATION. YE OLDE COPPYE BOYE.

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CHATTANOOGA 11, TENN. OCT. 25, 1963

DEAR FRIENDS AND FELLOW MEMBERS:

I HAD PLANNED ON GIVING MY SWAN SONG IN THIS ISSUE OF SPARK GAP TIMES, BUT THE INSPIRING LETTER BY OUR ESTEEMED AND MOST RESPECTED HONORABLE FOUNDER NEGATED THIS INTENTION.

IT DOES SEEM IN ORDER HOWEVER, TO CONGRATULATE OUR MEMBERS ON RETAINING OUR SPLENDID SECRETARY-TREASURER AND ON ACQUIRING OUR NEWLY ELECTED PRESIDENT AND VICE PRESIDENT. THESE GENTLEMEN ARE OF THE HIGHEST CALIBRE AND HAVE PROVED BY THEIR PAST PERFORMANCE THEIR ABILITY AND FITNESS FOR THE OFFICES TO WHICH THEY HAVE BEEN ELECTED. THEY DESERVE OUR THANKS FOR ACCEPTING THESE POSTS, AND ABOVE ALL THEY DESERVE THE WHOLEHEARTED SUPPORT AND COOPERATION OF ALL MEMBERS.

IN TURNING OVER THE OFFICE OF PRESIDENT TO MY GOOD FRIEND BERT OSBORNE, I DO SO WITH FULLEST CONFIDENCE THAT OOTC WILL PROGRESS AT AN ACCELERATED PACE AND THAT ON THE FOUNDATION THAT HAS BEEN ESTABLISHED OVER THE YEARS, WILL BE BUILT THE GREAT ORGANIZATION ENVISIONED BY ITS FOUNDERS.

IF MY ADMINISTRATION OF THE PAST FOUR YEARS HAVE BEEN IN ANY DEGREE SUCCESSFUL; AND IF IN ANY MEASURE I HAVE MADE A CONTRIBUTION OF WORTH, I WOULD SAY ABOVE ALL, THAT IT HAS BEEN BECAUSE I HAVE BEEN ABLE TO GET THE SUPPORT AND COOPERATION OF OUR MEMBERS. I DO NOT CLAIM THIS AS AN ACHIEVEMENT FOR MYSELF BUT RATHER I GIVE IT AS A SINCERE AND DESERVED TRIBUTE TO ALL MEMBERS.

TO EARL WILLIAMS, OUR FINE SECRETARY-TREASURER, I GIVE MY SINCERE AND HEARTY THANKS FOR HIS HARD WORK, PERSISTENCE AND UNDERSTANDING. TO MERRILL BEAM, OUR VICE PRESIDENT, I ALSO OWE MY THANKS FOR HIS WORK AND ABLE ADVICE AND SUGGESTIONS. WITHOUT THESE GENTLEMEN, OUR PROGRESS WOULD HAVE BEEN RETARDED IMMEASURABLY.

TO THE CONTRIBUTORS OF SPARK GAP TIMES SPECIAL CREDIT MUST BE GIVEN. WITHOUT THE ARTICLES AND PHOTOS WHICH THEY MADE AVAILABLE, THERE WOULD BE NO SPARK GAP TIMES. THEIR EFFORTS IN BEHALF OF OUR LITTLE JOURNAL HAVE BEEN REWARDED WITH MANY, MANY FAVORABLE MENTIONS. THANK YOU GENTLEMEN, PLEASE CONTINUE THE GOOD WORK.

TO OUR NEW OFFICERS I PROMISE MY FULL SUPPORT AND ANY ASSISTANCE REQUESTED. WE ALL CONFIDENTLY EXPECT THAT THE NEXT TWO YEARS WILL BE THE MOST FRUITFUL IN OUR HISTORY.

TO ALL HANDS, "SO LONG, GOOD LUCK AND GOD BLESS YOU."

73,

EARL E. CLINE SR. W4PPZ
PRESIDENT.

NOTE FROM EDITOR---IT IS ALWAYS VERY DISTURBING TO LEARN THAT ONE OF OUR MEMBERS, FOR REASONS OF HEALTH FINDS IT NECESSARY TO STOP HIS ACTIVITIES ON OUR ROUNDTABLES. RECENTLY IT WAS LERNEED THAT ONE OF THE MOST BELOVED MEMBERS, W6KA, TOM STEVENS FINDS THIS NECESSARY AND THE LOSS WILL BE FELT BY ALL WHO KNOW HIM AND HAVE HAD THE GREAT PRIVILEGE OF WORKING THIS OUTSTANDING MEMBER AND FRIEND. DESPITE HIS PRESENT INDISPOSITION, TOM HAS SENT US THE DESCRIPTION OF AND A COPY OF THE WIG WAG CODE. THIS WILL BE FOUND NEXT.

THE RID STORY GEORGE E. STERLING WIAE

CHAPTER IV THE GERMAN EMBASSY CASE



CHIEF OF RID STERLING AND HIS ASSISTANT, AL MCINTOSH, LOOKING OVER EQUIPMENT LOCATED IN EMBASSY WHEN U.S. GOVERNMENT TOOK OVER BUILDINGS FROM THE SWISS OFFICIALS. PORTRAITS OF HITLER AND VON HINDENBURG WERE ON THE WALLS OF SOME ROOMS.

THE GERMAN EMBASSY CASE

PRIOR TO THE ATTACK ON PEARL HARBOR I HAD ASSIGNED THREE MOBILE UNITS IN THE DISTRICT OF COLUMBIA TO PROVIDE A SPECIAL SURVEILLANCE OVER CERTAIN EMBASSIES. IN THE WEE HOURS OF TUESDAY, DECEMBER 9TH, 1940, MONITORING OFFICER MORRIS BLUME IN CHARGE OF ONE OF THE UNITS RADIOED MY OFFICE (I HAD SLEPT IN MY OFFICE FROM DECEMBER 8TH GOING TO A HOTEL WHEN I COULD, FOR A BATH AND CHANGE OF CLOTHES.) STATING THAT HIS APERIODIC RECEIVER WHICH I PREVIOUSLY DESCRIBED, HAD SOUNDED OFF A STRONG SIGNAL WITH THE CALL LETTERS UA. WITH ANOTHER RECEIVER HE IDENTIFIED THE FREQUENCY AND I IMMEDIATELY ALERTED THE OTHER TWO MOBILE UNITS TO GUARD THE FREQUENCY AND TAKE BEARINGS ON AN TRANSMISSIONS.

I HAD NO SOONER DONE THIS WHEN MY WATCH OFFICER INFORMED ME THAT THE PRIMARY STATION AT PORTLAND, OREGON HAD PRINTED ON THE TELETYPEWRITER THAT IT HAD INTERCEPTED A STATION CALLING UA AND FURNISHED THE FREQUENCY. IT WAS THE SAME AS THAT REPORTED BY MONITORING OFFICER BLUME. I IMMEDIATELY ISSUED ORDERS TO SOUND A NATIONWIDE ALERT ON THE TELETYPEWRITER AND RADIO NETS. WE USED BOTH NATIONWIDE AND REGIONAL ALERTS. A SHORT TIME LATER BEARINGS FROM ADCOCK HIGH FREQUENCY DIRECTION FINDERS STARTED TO COME INTO THE COMMUNICATION CENTER AND THEY WERE RAPIDLY PROJECTED AND MADE A FIX EMBRACING THE DISTRICT OF COLUMBIA WITH THE MOST INTERSECTIONS IN THE CITY OF WASHINGTON. THEY WERE FOLLOWED BY

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THE RID STORY (CHAP. IV)

BEARINGS TAKEN BY LOOP DIRECTION FINDERS ON THE MOBILE UNITS AND PRODUCED A FIX IN THE VICINITY OF MASSACHUSETTS AVENUE AT THOMAS CIRCLE, WHICH WAS THE LOCATION OF THE GERMAN EMBASSY. THERE WAS NO DOUBT IN MY MIND THEN THAT THE CHIEF OPERATOR OF THE GERMAN STEAMER, COLUMBUS, WHICH HAD BEEN INTERNED AFTER A CHASE DOWN THE ATLANTIC COAST HAD PLACED A TRANSMITTER ON THE AIR IN VIOLATION OF EXISTING AGREEMENTS CONCERNING EMBASSIES. THE STATE DEPARTMENT HAD PERMITTED THE EMBASSY AT THEIR REQUEST TO HAVE AN OPERATOR ON DUTY THERE FOR WHAT THEY SAID WAS TO COPY PRESS FROM THE HOMELAND. THE STAFF OF THE EMBASSY WERE IN FACT SEALED IN AFTER DECEMBER 7TH AND DEPRIVED OF THEIR DIPLOMATIC POUCH PRIVILEGES AND COMMERCIAL CHANNELS OF COMMUNICATION. ON THE NEXT TRANSMISSION WE CONFIRMED THAT THE TRANSMITTER WAS IN THE GERMAN EMBASSY GROUNDS.

I IMMEDIATELY NOTIFIED THE STATE DEPARTMENT AND THE F.B.I. AFTER CONSULTATION IN THE EARLY HOURS OF THE MORNING IN MY OFFICE IT WAS DECIDED THAT THE TRANSMITTER SHOULD BE SEIZED. HOWEVER, THERE WAS A FLY IN THE OINTMENT. THERE WERE TWO BUILDINGS ON THE PROPERTY, ONE THE EMBASSY, THE OTHER THE CHANCELLORY AND A POLE ON EACH SUPPORTED AN ANTENNA WITH A LEAD-IN TAKEN OFF AT EACH END. I WAS OF THE OPINION THAT THIS WAS DONE TO DECEIVE US OR TO MAKE IT DIFFICULT TO PINPOINT THE LOCATION OF THE TRANSMITTER. THE F.B.I. WANTED ME TO GO IN FIRST AND LIKE A QUARTERBACK PUT THE TRANSMITTER IN THEIR HANDS. DURING THE CONFERENCE I TOLD THEM I COULD NOT TELL IN WHICH BUILDING THE JOB WAS LOCATED SINCE IT WAS NOT ADVISABLE TO GO TOO CLOSE AND SHOW OUR HAND. HOWEVER, I INFORMED THEM THAT IF I COULD ASCERTAIN FROM THE POWER COMPANY IF THERE WERE SEPARATE FEEDERS TO EACH BUILDING, SWITCHES COULD BE PLACED IN EACH LINE AND WHEN A TRANSMISSION WAS IN PROGRESS, BY INTERRUPTING THE POWER, THE BUILDING COULD BE POSITIVELY IDENTIFIED.

IT WAS AGREED THAT THIS SHOULD BE DONE AND I GOT MY FRIEND, MR. FERRIS, THE CHIEF ENGINEER OF THE POTOMAC ELECTRIC POWER COMPANY, OUT OF BED AND FIRST, BEFORE DAYBREAK WE WERE DOWN IN A MANHOLE IN FRONT OF THE BUILDINGS INSTALLING SWITCHES. IN THE END, HOWEVER, BECAUSE THE STATE DEPARTMENT WAS AFRAID OF REPRISALS TO OUR DIPLOMATIC MISSION STILL IN GERMANY, IT WAS DECIDED NOT TO ENTER THE BUILDING BUT SET UP TWO TRANSMITTERS TO JAM SIGNALS SHOULD THEY TRY ONCE MORE TO CONTACT GERMANY.

THE JAMMERS WERE DEvised BY ORDERING THE STAFF AT THE PRIMARY STATIONS AT MILLIS, MASSACHUSETTS AND LUREL, MARYLAND TO REMOVE THE FILTERS FROM THEIR HIGHEST POWER TRANSMITTERS AND CONVERT THEM TO THE RHOMBIC ANTENNAS WHICH WERE BEAMED TO EUROPE.

THEY NEVER TRIED ANOTHER TRANSMISSION. IN THE MEANTIME WE WERE REQUESTED TO PROVIDE A SPECIAL 24 HOUR WATCH OVER THE EMBASSY AND I DID THIS BY MOVING MY SECRETARY AND HER MOTHER OUT OF THEIR APARTMENT SINCE THEY LIVED WITHIN A BLOCK OF THE BUILDINGS. THE F.B.I. PROVIDED US WITH THE MOST POWERFUL BINOCULARS I HAVE EVER SEEN, SO POWERFUL THAT THEY HAD TO BE MOUNTED ON A TRIPOD. WITH THIS INSTRUMENT AND OUR RECEIVERS WE DID A GOOD JOB OF SURVEILLANCE.

DURING 1940 THE TREASURY DEPARTMENT SAID THAT AN INSTRUMENT HAD ARRIVED FOR THE EMBASSY AND REQUESTED MY ASSISTANCE IN IDENTIFYING IT BEFORE THEY PERMITTED IT TO BE DELIVERED. TO DO THIS THEY FIRST TOLD ME I HAD TO BE SWORN IN AS A SPECIAL CUSTOMS OFFICER WHICH WAS DULY PERFORMED. I IDENTIFIED THE INSTRUMENT AS A HELLScriBER PRINTER, A SYSTEM OF RADIO COMMUNICATION THAT PRINTS LETTERS AND WORDS. I HOOKED UP IN MY OFFICE AND WITH ONLY A MAKESHIFT ANTENNA I HAD IT PRINTING BOTH GERMAN AND RUSSIAN MESSAGES FROM OVERSEAS.

AFTER THE WAR AL McINTOSH AND I AT THE REQUEST OF THE STATE DEPARTMENT, WENT INTO

THE RID STORY (CHAP IV)

THE EMBASSY AND THERE WAS THE HELLScriber AND OTHER RADIO GEAR.

THIS CASE WAS AN EXCELLENT EXAMPLE OF HOW WELL OUR MONITORING SYSTEM WORKED OUT AS PLANNED; THAT IS THE ADCOCK DIRECTION FINDERS AT GREAT DISTANCES OBTAINING BEARINGS ON THE SKY WAVE AND THE MOBILE UNITS OBTAINING BEARINGS WITH LOOP DIRECTION FINDERS ON THE GROUND WAVE AND FIXING PRECISELY THE LOCATION OF A TRANSMITTER.



GERMAN EMBASSY AND CHANCELLORY

WASHINGTON, D.C.

NOTE ANTENNA POLE ON EACH BUILDING. LEADINS CAME OFF AT EACH END. (G.E.S.)

THE RID STORY (CHAP. IV)



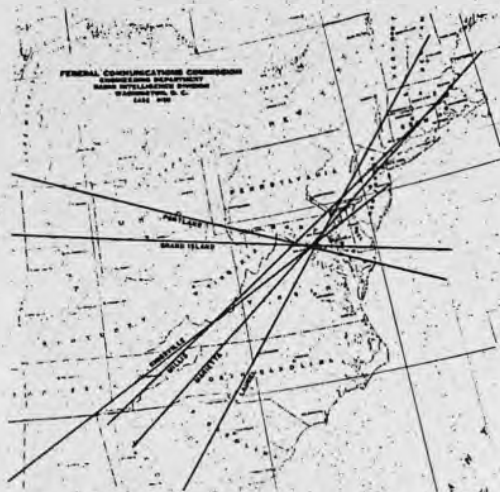
INTERIOR VIEW OF
ADCOCK DIRECTION FINDER



PROJECTION OF BEARINGS OF SIGNALS
INTERCEPTED BY THREE MOBILE UNITS
INGROUND WAVE RANGE OF WA BEAR-
INGS TAKEN WITH LOOP DIRECTION
FINDERS. ANOTHER CHART ON THE
FOLLOWING PAGE.

NOTE FROM AUTHOR: THE TWO CHARTS
SHOW HIGH FREQUENCY BEARINGS FROM
THE PRIMARY STATIONS AROUND THE
NATION PLUS THE CHART SHOWING
PROJECTION OF GROUND WAVE SIGNALS

THE RID STORY (CHAP. IV)



OR BEARINGS TAKEN WITH LOOP DIRECTION FINDERS ON THE THREE MOBILE UNITS IN WASHINGTON HIGHLIGHT THE GERMAN EMBASSY CASE AND ARE A GOOD EXAMPLE OF HOW RID DIRECTION FINDING SYSTEM OPERATED.

THE AUTHOR TOOK GREAT PAINS TO MAKE THIS MATERIAL AS CLEAR AS POSSIBLE BY SUPPLYING THESE FINE PICTURES.

SUCH ILLUSTRATIONS ARE MOST IMPORTANT AND INDICATES THE GREAT CARE THE AUTHOR TOOK IN THE PREPARATION OF THIS ARTICLE.

IN THIS CASE IT IS MOST REMARKABLE THAT HE WAS ABLE TO SUPPLY SUCH FINE PICTURES.
(THE EDITOR)

CHAPTER V

THE RID STORY

NAZI SPIES IN LATIN AMERICA

IN THE PRECEEDING CHAPTER I NARRATED HOW NAZI SPIES ATTEMPTED BY CLANDESTINE RADIO TO ESTABLISH COMMUNICATION BY RADIO AND REALLY BELIEVED THEY WERE DOING SO THROUGH THE OPERATION OF THE TRANSMITTER THE FBI HAD SET UP IN OPERATION ON LONG ISLAND. IN THIS CASE FALSE AND INNOCUOUS INFORMATION WAS TRANSMITTED BY THE FBI TO ACR IN GERMANY.

IN THIS GROUP OF SPIES AXEL WHEELER-HILL HAD ALSO SET UP A TRANSMITTER WITH WHICH HE TOO WAS TO ESTABLISH COMMUNICATION WITH GERMANY. HE NEVER GOT A SIGNAL ON THE AIR BECAUSE THE TRANSMITTER WAS DEFECTIVE. RID MAINTAINED A SPECIAL LISTENING WATCH VERY CLOSE TO THE APARTMENT IN WHICH HE WAS LOCATED.

SO WITH THE CLOSING OF THE GERMANY EMBASSY CASE AND THIS ONE IN NEW YORK NO OTHER STATION ENGAGED IN ESPIONAGE SUCCESSFULLY WITHIN THE UNITED STATES TO THE BEST OF OUR KNOWLEDGE. THIS WAS THE BEGINNING AND THE END FOR AXIS RADIO AGENTS WITHIN OUR BORDERS. GERMAN AGENTS PICKED UP BY THE FBI THEREAFTER WERE FOUND TO HAVE BEEN USING SECRET INK OR MICROFILM THROUGH MAIL DROPS TO GET INFORMATION OUT OF THE COUNTRY. WE LEARNED THAT SOME JAPANESE AGENTS WHO REQUESTED FUNDS TO ESTABLISH A STATION ON THE WEST COAST WERE TURNED DOWN ON THE GROUNDS THAT RID WOULD NAB THEM AS SOON AS THEY GOT ON THE AIR.

WILHELM HOETTEL, ONE OF THE GERMAN FOREIGN INTELLIGENCE AREA CHIEFS, AFFIRMED DURING HIS INTERROGATION BY THE 3RD ARMY IN JUNE 1945 THAT THE SICHERHEITSDIENST HAD NOT BEEN ABLE TO ESTABLISH A SINGLE WIRELESS CONNECTION IN THE UNITED STATES.

HOWEVER, OUTSIDE OF OUR STATES AND TERRITORIES IT WAS A DIFFERENT STORY, ONE IN WHICH THE RID BECAME INTIMATELY CONCERNED.

NOW, WHILE WE COULD TAKE PRIDE IN THE FACT THAT WE HAD SEALED THE UNITED STATES AGAINST ESPIONAGE TRANSMISSION, WE COULD TAKE SMALL COMFORT FROM THE FACT THAT THEY HAD

CHAPTER V

THE RID STORY

NAZI SPIES IN LATIN AMERICA

SET UP SHOP IN LATIN AMERICA. IN LATIN AMERICA SPIES HAD VARIOUS WAYS OF GETTING INFORMATION FROM THE UNITED STATES, INCLUDING THE USE OF TRAVELERS AND INVISIBLE INK. ONCE THEY HAD THAT INFORMATION THEY COULD SHORT WAVE IT TO GERMANY. THESE NATIONS HAD VIRTUALLY NO FACILITIES TO COMBAT SUCH ACTIVITY AND IN FACT THEY WERE FOR THE MOST PART NOT EVEN AWARE OF IT SINCE THEY HAD NO ADEQUATE RADIO INTELLIGENCE ORGANIZATION. BUT WE OF THE RID WERE PAINFULLY AWARE OF THE SCOPE OF NAZI ESPIONAGE ACTIVITY IN OUR GOOD NEIGHBOR COUNTRIES. OUR LONG RANGE FINDERS LOCATED LOCATED IN OUR COUNTRY LOCATED STATION AFTER STATION SENDING OUT A SHOCKING FLOW OF INTELLIGENCE. OFTEN THEY INTERCEPTED THE STATIONS BEFORE THEY COULD ESTABLISH CONTACT WITH EACH OTHER.



RID AGENTS PREPARATORY TO LEAVING FOR SOUTH AMERICA WITH CHIEF OF RID STERLING AND OTHER GOVERNMENT OFFICIALS FROM THE STATE DEPARTMENT AND THE FBI. LEFT TO RIGHT STANDING: JOHN M. LARSON, CIAA; BENJAMIN THEEMAN, CIAA; CHARLES A. ELLERT, TRAVELING SUPERVISOR, FCC; ELLIOTT S. HANSON, ADMINISTRATOR, INTER AMERICAN TRAINING ADMINISTRATION; GLEN W. EARNHART, PAUL S. MEANS, DONALD E. STRONG, CHARLES R. WEEKS, WILLIAM N. FELLOWS, DALE B. DOROTHY, SIDNEY R. LINES, JOHN W. CREWS, CAPTAIN WM. L. CALFEE, MILITARY INTELLIGENCE SERVICE AIC; GEORGE N. BUTLER, ASSISTANT ADMINISTRATOR INTER AMERICAN TRAINING ADMINISTRATION; R.E. THORNTON, SPECIAL AGENT SUPERVISOR FBI; STACY W. NORMAN, ASSISTANT TO CHIEF OF RADIO INTELLIGENCE DIVISION, FCC.

SEATED: E.P. COFFEY, ASSISTANT DIRECTOR, FBI; GEORGE E. STERLING, CHIEF, RADIO INTELLIGENCE DIVISION, FCC; HARVEY B. OTTERMAN, DIVISIONAL ASSISTANT, DIVISION OF INTERNATIONAL COMMUNICATIONS, DEPARTMENT OF STATE.

INTER-AMERICAN TRAINING ADMINISTRATION
WASHINGTON, D.C.

SIGNS OF THE NAZI EFFORT TO CREATE AN ESPIONAGE BASE IN LATIN AMERICA BEGAN TO BE APPARENT AS EARLY AS THE FALL OF 1940. ON OCTOBER 27, OUR PRIMARY STATION AT ALLEGAN, MICHIGAN PICKED UP A STRANGE MARITIME SIGNAL USING THE UNREGISTERED CALL BCNL. OTHER MONITORING POSTS WERE ALERTED AND QUITE A NUMBER OF SIMILAR CALLS WERE TRACED TO SHIPS IN THE GULF OF MEXICO AND CARRIBBEAN SEA. OUR TAMPA OFFICE SUCCEEDED IN IDENTIFYING THESE VESSELS AS SMALL ONES OPERATED BY A FIRM NEAR BELIZE, BRITISH HONDURAS WHICH ALSO OPERATED A SMALL COASTAL STATION. THE U.S. CARRIBBEAN DEFENSE COMMAND, AFTER DEVELOPING EVIDENCE THAT THIS FLEET WAS BEING USED TO REFUEL GERMAN SUBMARINES AND PASSING INFORMATION, ARRESTED A CANAL ZONE EMPLOYEE WHO WAS A MEMBER OF THE RING AND WAS ABLE TO ARRANGE A TRAP FOR NINETEEN OTHERS, INCLUDING THE RINGLEADER, A PROMINENT SHIPPING EXECUTIVE IN BELIZE.

THE CONCERTED DRIVE TO ESTABLISH RADIO AGENT NETS IN THIS HEMISPHERE AND OUR STRUGGLE AGAINST THEM BEGAN IN THE SPRING OF 1941. ONE OF OUR MONITORS AT MILLIS, MASS., DETECTED THE FAINT SIGNALS OF A STATION THAT WAS TRYING TO HIDE ITS TRANSMISSION IN A TRANSATLANTIC CIRCUIT OPERATING ON THE SAME FREQUENCY. IT WAS REPEATING THE CALL LETTERS REW, BUT THE SIGNAL SOUNDED QUITE LIKE THAT OF AOR, THE FBI OPERATED SEBOLD TRANSMITTERS RESPONDENT.

OTHER MONITORING STATIONS WERE PUT ON THE CASE TO HELP IDENTIFY THE SUSPICIOUS SIGNAL AND COPY ALL TRANSMISSIONS. IT WAS NOTED THAT WHEN REW PAUSED TO LISTEN, A STATION ON A DIFFERENT FREQUENCY WOULD START SENDING THE CALL LETTERS PYL. THE TWO TRANSMITTERS PUT ON THE SAME PERFORMANCE AT THE SAME HOUR THE NEXT DAY, AND FOR SEVERAL DAYS IN THEIR APPARENT ATTEMPT TO COMMUNICATE WITH EACH OTHER.

THE OFFICER IN CHARGE OF OUR MONITORING STATION AT SEARSPORT, MAINE, GRAINGER BECAME SO ENTHUSIASTIC ABOUT THE CASE HE REQUESTED THAT I PERMIT HIM TO TUNE UP HIS TRANSMITTER ON THE FREQUENCY OF ONE OF THE STATIONS AND HELP THEM GET TOGETHER SO WE COULD INTERCEPT THE TRAFFIC.

IN THE MEANTIME ALL HIGH FREQUENCY DIRECTION FINDERS HAD BEEN ALERTED TO THE CASE AND AS BEARINGS CAME IN THE FIXES SHOWED THAT REW WAS IN HAMBURG, AND PYL IN VALPARAISO, CHILE, AN ESPIONAGE STATION DISCOVERED BEFORE IT COULD MAKE CONTACT WITH ITS BASE.

AS OUR MONITORS DILIGENTLY PATROLLED THE ETHER, MORE AND MORE CLANDESTINE TRANSMITTERS WERE IDENTIFIED AND THE LOCATIONS APPROXIMATELY DETERMINED, CHILE AND BRAZIL HELD THE PRINCIPAL CONCENTRATIONS AT THIS TIME. THERE WERE THREE MAIN AGENT NETWORKS IN BRAZIL, CENTERED ON TRANSMITTERS THAT WE DESIGNATED LIR, CEL AND CIT, FROM THE CALL SIGNS THAT THEY WERE USING, WHEN FIRST HEARD. EVIDENCE OF THE DAMAGE, THE MESSAGES SENT FROM THESE TRANSMITTERS BEGAN TO MOUNT.

BEFORE REVEALING THE CONTENTS OF SOME OF THESE MESSAGES, I THINK IT WOULD BE WELL TO DIGRESS FOR A BIT AND EXPLAIN HOW THE NAZI ESPIONAGE SYSTEM OPERATED AND HOW THE AGENTS WERE TRAINED.

THE GERMAN RADIO ESPIONAGE SYSTEM

THE GERMAN ESPIONAGE SYSTEM UTILIZED SIX MAJOR RADIO NETS WITH CONTROL CENTERS IN BERLIN, HAMBURG, BORDEAUX, MADRID, PARIS, AND AT ONE TIME LISBON, FOR THE PURPOSE OF

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SECURING FROM ITS AGENTS INFORMATION RELATING TO THE ALLIED MOVEMENT OF SHIPS AND AND TROOPS, ARMAMENTS, PRODUCTION OF FACTORIES AND OTHER ESSENTIAL MILITARY INFORMATION. THE RADIO STATIONS ASSOCIATED WITH THESE CONTROL CENTERS EXTENDED TO PRACTICALLY EVERY COUNTRY IN EUROPE, NEUTRAL COUNTRIES IN AFRICA, ISLANDS IN THE ATLANTIC, AND TO THE WESTERN HEMI-SPHERE. THE LARGEST RADIO ESPIONAGE NET WAS CONTROLLED BY BERLIN.

THE FOLLOWING IS HOW THE AGENTS OF THE NAZI ESPIONAGE SYSTEM WERE TRAINED. THE FACTS WHICH I WILL GIVE YOU HAVE BEEN ASSEMBLED LARGELY FROM INTERVIEWS AND CONFESSIONS OF NAZI AGENTS WHOM WE HAVE ASSISTED IN RUNNING DOWN.

ORDINARILY, THE TRAINING TOOK PLACE IN A SCHOOL NEAR HAMBURG. THE MEN SELECTED FOR THESE ASSIGNMENTS ARE NOT SKILLED RADIODIEN. THEY WERE TAUGHT PHOTOGRAPHY, INCLUDING MICRO-FILMING, USE OF INVISIBLE INK FOR SECRET WRITING, CODES AND CIPHERS, RADI AND OTHER ESSENTIAL INFORMATION, INCLUDING HANDLING OF EXPLOSIVES AND DEMOLITION METHODS.

AS PART OF THEIR RADIO TRAINING CANDIDATES FOR THIS SERVICE WERE TAUGHT INTERNATIONAL MORSE CODE, CONSTRUCTION AND USE OF TRANSMITTERS AND RECEIVERS AND GENERAL RADIO KNOWLEDGE. PROSPECTS HAD TO PASS A TEST IN SENDING AND TO BE SUCCESSFUL, DEMONSTRATE THAT THEY WERE CAPABLE OF TRANSMITTING FIFTY TO SIXTY LETTERS PER MINUTE, WHICH IS EQUIVALENT TO TWELVE WORDS PER MINUTE. TWELVE WORDS PER MINUTE IS NOT CONSIDERED A VERY HIGH SPEED, EITHER IN AMATEUR OR COMMERCIAL RADIO CIRCLES, AS FOR EXAMPLE, THE MINIMUM CODE REQUIREMENTS FOR OPERATORS SERVING IN OUR OWN MERCHANT MARINE ARE SIXTEEN WORDS PER MINUTE OR 80 LETTERS PER MINUTE.

AFTER THEY FINISHED UP THE TRAINING PERIOD, EACH CANDIDATE WAS REQUIRED TO SEND FOR FIVE MINUTES WITH SPECIAL EQUIPMENT, PRODUCING A GRAPH INDICATING HIS TOUCH, SPEED AND METHOD OF SENDING. THE PERSON IN CHARGE, AFTER STUDYING THIS GRAPH, ASSIGNS TO THE AGENT HIS SENDING SPEED AND THE STUDENT IS REQUIRED THEREAFTER TO SEND ALL MESSAGES AT THE SPEED ASSIGNED TO HIM. IN ORDER THAT HE BE PROPERLY TRAINED INTO THIS SPEED, HE UNDERGOES FURTHER TRAINING IN SENDING ONLY. AT THE CONCLUSION OF THE WEEK, A FURTHER GRAPH IS MADE AS A PROTECTIVE MEASURE AND FILED FOR LATER USE IN COMPARING MESSAGES PURPORTING TO COME FROM THE AGENT. HAVING A RECORD AT THE CONTROL CENTER OF THE AGENT'S INDIVIDUAL CHARACTERISTICS IN SENDING IS A PROTECTIVE MEASURE TO INSURE THAT THE TRANSMITTER IS IN FACT BEING OPERATED BY THEIR BONA FIDE REPRESENTATIVE AND NOT OPERATORS OF AN INTELLIGENCE AGENCY IN COUNTER ESPIONAGE ACTIVITY. THIS ACTION WAS TAKEN, I BELIEVE. AFTER THE NAZIS HAD BEEN FOOLED BY THE FEDERAL BUREAU OF INVESTIGATION WHEN THAT AGENCY ESTABLISHED THEIR COUNTER-MEASURE STATION ON LONG ISLAND.

AGENTS WERE PROVIDED WITH PORTABLE TRANSMITTERS AND RECEIVERS, GENERALLY OF THE TYPE THAT HAS BEEN BUILT IN A SUITCASE, AND COMPLETE IN ITSELF, INCLUDING ANTENNA WIRE, TOOLS AND ALL ACCESSORIES NECESSARY TO PERMIT QUICKLY PLACING THE STATION IN OPERATION WHEN THEY ARRIVED AT THEIR DESTINATION. (I WAS PRESENTED ONE OF THESE SUITCASE JOBS BY THE BRAZILIAN GOVERNMENT IN APPRECIATION FOR THE WORK R1D PERFORMED FOR THAT COUNTRY.) THEY ARE FURNISHED EXPLICIT INSTRUCTIONS RELATIVE TO CONSTRUCTION OF THEIR ANTENNA SYSTEMS SO AS TO INSURE THAT MAXIMUM SIGNAL IS BEAMED ON THE RECEIVING SITE WHICH ALSO AIDS IN COVERING UP THEIR TRANSMISSIONS. (PICTURES OF THIS EQUIPMENT ON NEXT PAGE.)

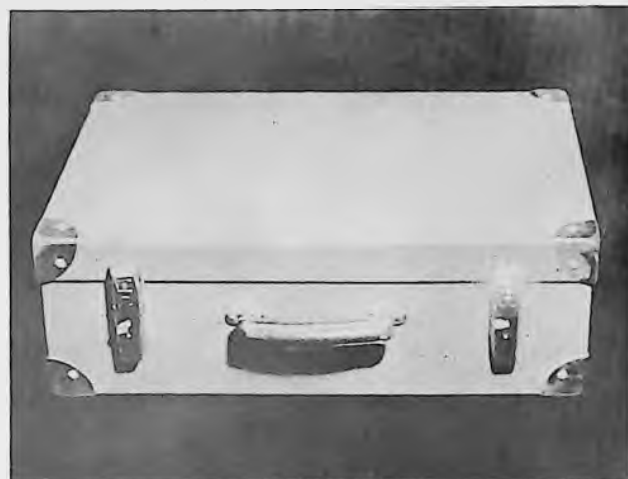
I HAVE TOLD YOU THAT THESE AGENTS WHILE IN TRAINING RECEIVE INSTRUCTIONS IN CODE AND CIPHERS. ONE GROUP OF AGENTS IS TAUGHT TO USE A SYSTEM WHICH UTILIZES POPULAR NOVELS FOR THE PURPOSE OF SECURING CALL LETTERS AS WELL AS CIPHER IN WHICH TO ENCIPHER MESSAGES. THE SYSTEM OF CALL LETTERS USED AND THE MANNER IN WHICH THEY ARE DERIVED IS OF INTEREST. IN THE GROUP REFERRED TO, THE CALL LETTERS OF THE CONTROL STATION IN GERMANY AND THE AGENT OUTSIDE CHANGE DAILY. LET US EXAMINE A PARTICULAR CASE WHICH REQUIRES THE USE OF THE NOVEL ENTITLED, "THE STORY OF SAN MICHELE" BY ALEX MUNTHE, PUBLISHED BY THE ALBATROSS PUBLISHING COMPANY OF LEIPZIG, PARIS AND BOLOGNA. ON THE FRONT COVER WILL BE OBSERVED THE FOLLOWING: "NOT TO BE INTRODUCED INTO THE BRITISH EMPIRE OR THE U.S.A." THIS NOVEL IS USED NOT ONLY

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THE INNOCENT LOOKING SUITCASE
CARRIED BY NAZI SPY.



A SUITCASE TRANSMITTER, THE STOCK IN
TRADE OF NAZI SPIES LANDED IN SOUTH AMER-
ICA BY SUBMARINE. THIS UNIT AFTER SEIZURE
WAS PLACED IN OPERATION BY RID OFFICER
ROBERT LINX TO ESTABLISH COMMUNICATION
WITH GERMANS.

THIS EQUIPMENT WAS SUBSEQUENTLY PRESENTED TO RID CHIEF GEORGE STERLING BY BRAZILIAN GOV.

TO ARRIVE AT THE DAILY CALL LETTERS OF EACH STATION BUT ALSO FOR THE PURPOSE OF ENCIPHER-
ING AND DECIPHERING MESSAGES. EACH AGENT IS FURNISHED A CERTAIN CONSTANT. THE AGENT ADDS
TO THIS CONSTANT THE NUMBER OF THE YEAR PLUS THE DAY. IN THE CASE AT HAND THE CONSTANT WAS
56. IN SELECTING THE CALLS TO BE USED FOR A PARTICULAR DATE, AS FOR EXAMPLE JUNE 6. IT IS
NECESSARY TO ADD THE NUMBER OF THE DAY PLUS THE MONTH TO THE CONSTANT, WHICH IN THIS CASE
WOULD BE 12 PLUS 56, GIVING A TOTAL OF 68. THIS OPERATION GIVES THE NUMBER OF THE PAGE OF
THE NOVEL TO BE CONSULTED. THE CALL LETTERS FROM THE BOTTOM LINE OF THIS PAGE AS FOLLOWS:

THE FIRST THREE LETTERS OF THE FIRST WORD ON THE BOTTOM LINE, READ IN REVERSE ORDER
GIVE THE CALL FOR THIS DATE FOR STATION No. 1, WHICH IS THE CONTROL STATION IN GERMANY
AND REFERRED TO IN GENERAL RADIO PARLANCE AS THE "IN" STATION. IN SIMILAR MANNER, THE LAST
WORD ON THE BOTTOM LINE WHEN READ IN REVERSE ORDER, GIVE THE CALL FOR STATION No. 2, THE
ESPIONAGE STATION, WHICH IS-REFERRED TO AS THE "OUT" STATION.

LET US TURN TO PAGE 68 OF THIS NOVEL AND SEE WHAT WE FIND ON THE LAST LINE. THIS LINE
READS AS FOLLOWS:

"HALF OPEN DOOR HE WAGGED HIS STUMP OF A TAIL AND LOOKED"

IF WE TAKE THE FIRST THREE LETTERS OF THE FIRST WORD OF THIS LINE AND READ THEM IN
REVERSE WE FIND THE CALL OF THE CONTROL STATION LAH, AND SINCE THE LAST WORD ON THE LINE
IS "LOOKED", THE LAST THREE LETTERS WHEN READ IN REVERSE ORDER GIVE THE CALL LETTERS DEK
FOR THE "OUT" STATION. ON THE SUCCEEDING DAY, PAGE 69 WILL BE USED FOR THIS PURPOSE AND
THIS WOULD CONTINUE UNTIL THE END OF THE MONTH, AFTER WHICH THE PROCESS WOULD START OVER
AGAIN.

THE RADIO INTELLIGENCE DIVISION BY CAREFUL ANALYSIS OF TRAFFIC INTERCEPTED FROM
CLANDESTINE STATIONS HAD BEEN ABLE TO WORK OUT IN ADVANCE THE DAILY CALL LETTERS WHICH

CHAPTER V

NAZI SPIES IN LATIN AMERICA

WERE TO BE USED ON MANY CLANDESTINE CIRCUITS EACH DAY AND THEY WERE FURNISHED OUR MONITORING STATIONS FOR THE PURPOSE OF ENABLING THEM TO IDENTIFY THESE TRANSMISSIONS. THIS INFORMATION HAD ALSO BEEN FURNISHED OTHER AGENCIES WHO HAD AN INTEREST IN THIS WORK, AS FOR EXAMPLE THE COAST GUARD, FEDERAL BUREAU OF INVESTIGATION, AND BRITISH SECURITY COORDINATION. SOMETIMES AN OPERATOR WAS CAUGHT MAKING A MISTAKE BY NOT USING THE CALL OR FREQUENCY REQUIRED BY HIS OWN SYSTEM.

AS AN INTERESTING SIDELIGHT, I MIGHT MENTION, IT BECAME NECESSARY ON ONE PARTICULAR FOR A CLANDESTINE STATION TO USE THE CALL LETTERS "SOS", WHICH EVERYONE RECOGNIZES AS AN INTERNATIONAL DISTRESS SIGNAL. THIS WAS IN 1941 AND THERE WERE MANY WHO WERE LISTENING IN ON THE SHORTWAVE BANDS, AND IN CASES OF THIS KIND IT IS CUSTOMARY FOR OPERATORS OF GOVERNMENT AGENCIES AND SHORTWAVE LISTENERS TO REPORT SUCH TRANSMISSIONS WHEN HEARD UNDER UNUSUAL CIRCUMSTANCES TO THE FEDERAL COMMUNICATIONS COMMISSION. ANTICIPATING THAT SUCH CALLS WOULD BE RECEIVED ON THAT DATE, AN INFORMATION MEMORANDUM WAS FURNISHED ALL INSPECTORS IN CHARGE IN THE FIELD DIVISION AS WELL AS THE MONITORING STATIONS OF THE RADIO INTELLIGENCE DIVISION THAT THEY COULD PROPERLY HANDLE THE SITUATION.

ANOTHER VERY COMMON SYSTEM OF CALL LETTERS EMPLOYED ON CERTAIN INTRA-EUROPEAN CIRCUITS IS KNOWN AS THE "ODD-EVEN MONTH" METHOD. THIS TYPE CONSISTS OF TWO SETS OF 31 CALLS EACH. THE FIRST SET BEING USED DURING EACH ODD MONTH AND THE SECOND SET FOR EACH EVEN MONTH. OBVIOUSLY, IN SUCH A SYSTEM THE SAME CALL WOULD BE USED ON THE SECOND OF JANUARY, MARCH, MAY, AND JULY. A VARIATION OF THIS TYPE OF CALL WAS USED BY STATIONS WHICH EMPLOY ONLY ONE LIST, THE SAME CALL BEING USED FOR THE SAME DAY OF EACH MONTH THROUGHOUT THE YEAR. THERE ARE A FEW CIRCUITS WHICH USED A DIFFERENT CALL FOR EACH DAY.

THE CONTROL OF ONE OF THE MOST IMPORTANT CLANDESTINE NETS OPERATED IN THE WESTERN HEMISPHERE PASSED FROM THE GERMAN HIGH COMMAND TO THE GERMAN GESTAPO. AT THAT TIME THE NET ADOPTED CALL LETTERS AND FREQUENCIES ASSIGNED TO COMMERCIAL STATIONS LOCATED IN THE VARIOUS COUNTRIES IN SOUTH AMERICA. THIS MADE DETECTION MORE DIFFICULT BUT IT WAS STILL POSSIBLE TO IDENTIFY THE TRAFFIC BY THE FORMULATION OF THE MESSAGES AND THE GENERAL OPERATING PROCEDURES WHICH ARE CHARACTERISTIC OF CLANDESTINE TRANSMITTERS OPERATED BY GERMAN AGENTS ELSEWHERE. THEREAFTER, THE PROCEDURE WAS CHANGED AGAIN AND THIS NET USED A CALL LIST BASED ON THE "MONTH PLUS DAY SYSTEM."

RID DID NOT MAINTAIN A CRYPTANALYSIS LABORATORY. BUT IN ORDER TO BE ABLE TO IDENTIFY TRAFFIC, RID DID HAVE A HANDFUL OF MEN WHO BECAME FAMILIAR WITH SUCH WORK.

THE GERMAN ESPIONAGE RADIO OPERATORS USED THE SIGNAL QSO, ZERO WHEN EITHER THE "IN" OR CONTROL STATION, OR THE AGENT, THE "OUT" STATION AS WE LEARNED WHEN THEY WERE ATTEMPTING TO ESTABLISH COMMUNICATION. ON OCCASIONS RID OPERATORS KNEW A NEW AGENT WAS TO COME ON THE AIR SINCE THEY COULD HEAR THE CONTROL STATION CALLING EACH DAY WITH A DIFFERENT CALL LETTER AND ENDING "QSO ZERO" PLEASE ANSWER". THE AGENT WOULD ALSO TERMINATE HIS CALL IN THIS FASHION UNTIL CONTACT WAS ESTABLISHED. "QSO ZERO PLEASE ANSWER", BECAME QUITE A BIG WORD AMONG THE RID BOYS.

I PREVIOUSLY EXPLAINED HOW NAZI ESPIONAGE SYSTEMS UTILIZED NOVELS TO ENABLE THEM TO ENCODE THEIR MESSAGES, NOVELS WHICH WERE NOT OBTAINABLE IN THE UNITED STATES AND THE BRITISH EMPIRE. LET US SEE HOW THIS SYSTEM OF CRYPTOGRAPHY WORKED IN A REAL CASE.

SHORTLY BEFORE 8 A.M. E.S.T. ON MARCH 12, 1942, ONE OF OUR MONITORING OFFICERS AT THE SECONDARY STATION AT LAREDO, TEXAS COPIED SOLID A 35 GROUP CODED MESSAGE ON 220 Kc. HE REALLY HAD TO DIG IT OUT OF THE MUD SINCE IT WAS SENT WITH ONE OF THE LOW-POWERED SUITCASE TRANSMITTERS. HE SIGNED THE CALL LETTERS EVI. WE KNEW FROM OUR ANALYSIS OF PREVIOUS MESSAGES THAT THE CALL EVI WAS DUE TO BE USED BY AN OPERATOR OF THE SAN MICHELE

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(THE NOVEL "THE STORY OF SAN MICHELE" EXCLUDED BY COPYRIGHT FROM BRITAIN AND THE UNITED STATES) WHOSE ASSIGNED CONSTANT WAS 56. CHECKING WE ADDED THE MONTH AND DAY, THIS WOULD BE MARCH 13 BY GREENWICH MEAN TIME, SO WE TURN TO PAGE 72 OF THE NOVEL. THE LAST WORD ON THE PAGE IS "GIVE" SO EVI IS RIGHT FOR THAT DAY. THE FIRST WORD ON THE LAST LINE IS "LIKE" HENCE THE CONTROL CENTER CALL LETTER FOR THAT DAY IS KIL.

NOW IF WE ARE TO PROCEED TO DECIPHER THE CODED MESSAGE IN ACCORDANCE WITH THE PRESCRIBED PROCEDURE WE WOULD OBTAIN A GERMAN TEXT WHICH TRANSLATED INTO ENGLISH WORDS READS "SIXTY FROM VESTA TO STEIN, QUEEN MARY REPORTED OF RECIFE BY STEAMSHIP CAMPEIRO ON ELEVENTH AT EIGHTEEN O'CLOCK MIDDLE EUROPEAN TIME".

WHEN THE TEXT IS TRANSLATED WE FIND THAT THE AGENT VESTA IS REPORTING AS FOLLOWS:

"QUEEN MARY ON THE ELEVENTH AT 18 O'CLOCK MIDDLE EUROPEAN TIME REPORTED FROM STEAMER CAMPEIRO OFF RECIFE". IT IS INTERESTING THAT ON THAT DAY THREE OF THE SIX ESPIONAGE TRANSMITTERS IN RIO REPORTED THE ARRIVAL OF THE QUEEN MARY.

THE QUEEN MARY LAID OVER IN RIO FOR ABOUT A WEEK AND TOOK ABOARD A CONSIDERABLE NUMBER OF TROOPS. A FEW HOURS AFTER SHE SAILED ON MARCH 20, 1942, THE BRAZILIAN POLICE ROUNDED UP A CONSIDERABLE NUMBER OF NAZI SPIES, INCLUDING A LEADER BY THE NAME OF CHRISTIANSEN, WHOSE ORGANIZATION WAS OPERATING IN RIO DE JANEIRO, RECIFE, SAN SALVADORE, AND OTHER PLACES IN BRAZIL.

CHRISTIANSEN'S LAST MESSAGES TO HAMBURG HAD REPORTED THE MOVEMENTS OF THE QUEEN MARY. HOWEVER, THE BRITISH NAVAL ATTACHE HAD BEEN PROMPTLY ADVISED OF THE ESPIONAGE TRANSMISSION AND THIS ENABLED THE ADMIRALTY TO CHANGE THE QUEEN MARY'S ROUTE. IT WAS RIO THAT FIRST DETECTED THE ACTIVITIES OF THE CHRISTIANSEN GROUP (KNOWN AS THE CIT GROUP), AS WELL AS THE ACTIVITIES OF THE LIR AND CEL GROUPS. WITHIN SEVERAL DAYS OF THE SAILING OF THE QUEEN MARY, THE BRAZILIAN AUTHORITIES ROUNDED UP SOME 200 ESPIONAGE AGENTS.

DURING THIS PERIOD THE GERMAN CONTROL STATIONS SENT EXHAUSTIVE LISTS OF REQUIREMENTS FOR NAVAL INFORMATION, ASKING PYL IN CHILE IF THEY COULD "PLACE A SUITABLE MAN FOR US AMONG STUDENTS GOING TO THE UNITED STATES FOR AIR TRAINING", COMPLEMENTED AGENTS AS "EXCEPTIONALLY CORRECT" IN THEIR REPORTS ON TECHNICAL DETAILS OF ENGLISH AND AMERICAN CRUISERS EQUIPMENT" AND ASSIGNED AGENTS TO INVESTIGATE "USA PARADE AND AIR BASES IN COLUMBIA AND VENEZUELA" AND "AIR UNITS IN TRINIDAD AND LESSER ANTILLES AND FLIGHTS VIA THOSE PLACES TO WEST AFRICA, AIRPLANE TYPES, MOVEMENTS, DATES". THE AGENTS SENT BACK REPORTS LIKE THESE:

5 JULY. NINE BOEINGS FLEW WITH MIXED CREW ENGLISH AND AMERICANS. IN NEXT FEW WEEKS 20 MORE TO BE FLOWN ACROSS. DETAILS FOLLOW.

19 JULY. LM REPORTS 15 LOCKHEED HUDSONS FLEW ACROSS. ENGLISH REGISTRY AND CANADIAN-AUSTRALIAN CREW. BOEING CLIPPER LEFT NATAL ON SEVENTH ALLEGEDLY FOR BOLANO WITH 19 LOCKHEED MECHANICS AND 11 CREW.

7 AUGUST. USA STEAMER URUGUAY ON LAST VOYAGE TO UNITED STATES LEFT RIO 25 JUNE. WAS CONVOYED BY BRITISH AUXILIARY CRUISER CARNARVON CASTLE TO TRINIDAD. TRIP TAKES 7 DAYS. CRUISER TRAVELED SOMETIMES AHEAD SOMETIMES ASTERN OF SS URUGUAY.

8 OCTOBER. BMM REPORTS SEVERAL HUNDRED US AIRCRAFT OF VARIOUS TYPES AND 8000 SPECIAL TROOPS ALLEGEDLY LANDING CORPS BEING ASSEMBLED PORT OF SPAIN.

1. JANUARY. CURTISS COLUMBUS FACTORY WILL BEGIN MASS PRODUCTION SERIES SB2C SINGLE

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NAZI SPIES IN LATIN AMERICA

SEATER STUKA FOR NAVY. ARMAMENT ONE CANNON, FIVE MACHINE GUNS, MOTOR 1700 HP WRIGHT. BUILT FOR 2000 HP WRIGHT IN EXPERIMENTAL STAGE. PRODUCTION S03C BEGUN IN COLUMBUS FACTORY AT BEGINNING DECEMBER. EMPLOYEES ALL CURTISS AIRCRAFT FACTORIES DECEMBER TOTAL 27000. PROPELLER PRODUCTION NOVEMBER 1042.

THE RID STORY

THE AMERICAN REPUBLICS PREPARE FOR ACTION

THE EMERGENCY ADVISORY COMMITTEE FOR POLITICAL DEFENSE, REPRESENTING LATIN AMERICAN NATIONS AND THE UNITED STATES PUBLISHED A REPORT AT THIS TIME IN WHICH THE FOLLOWING WAS STATED. "THE PERNICIOUS AND CONSTANT ACTIVITIES OF THE GERMAN SPIES ARE PROVED BY HUNDREDS OF MESSAGES INTERCEPTED BY AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, (RID) BY MEANS OF DETECTING EQUIPMENT IN THAT COUNTRY."

THIS STATE OF AFFAIRS AS REVEALED BY MESSAGES COPIED BY OUR MONITORING STATIONS HERE IN THE UNITED STATES, AROUSED THE LATIN AMERICAN NATIONS TO ACTION.

THE THIRD MEETING OF THE FOREIGN MINISTERS OF THE AMERICAN REPUBLICS ON JANUARY 15, 1942, 23 DAYS AFTER PEARL HARBOR ADOPTED A RESOLUTION RECOMMENDING THAT THE SEVERAL GOVERNMENTS TAKE IMMEDIATE MEASURES TO ELIMINATE CLANDESTINE STATIONS. ACCORDINGLY, AT THE REQUEST OF OUR STATE DEPARTMENT, RID SENT MONITORING OFFICERS AND EQUIPMENT TO OUR NEIGHBORS TO THE SOUTH WHILE AT THE SAME TIME RID TOOK A STEP TO TRAIN 30 REPRESENTATIVES OF THE SEVERAL COUNTRIES IN RADIO INTELLIGENCE THEORY AND TECHNIQUE AT OUR TRAINING SCHOOL AT LAUREL, MARYLAND.

AT THE CONCLUSION OF THE COURSE THESE TRAINEES WERE REQUIRED TO LOCATE HIDDEN TRANSMITTERS IN THE SURROUNDING COUNTRYSIDE SOMETIMES 15 TO 20 MILES AWAY. ONE PHASE OF THIS EXERCISE REQUIRED THAT THE FIRST BEARING BE TAKEN ON THE LOOP DIRECTION FINDER WITH WHICH OUR CARS WERE EQUIPPED. THEY WERE PLUG IN LOOPS AND WERE CONCEALED EXCEPT FOR A SHORT PERIOD OF TIME WHEN TAKING A BEARING. AFTER PLOTTING THE BEARINGS ON A CHART THEY WERE REQUIRED TO TAKE OFF AND PROCURE AT LEAST TWO ADDITIONAL BEARINGS SO AS TO OBTAIN A FIX. I RECALL ONE ENGINEER FROM CUBA COMING TO ME WITH TEARS STREAMING DOWN HIS CHEEKS AFTER HE AND HIS COMPANION HAD JUST SUCCESSFULLY LOCATED A TRANSMITTER BY OUR METHODS, BEGGING ME TO LET HIM RETURN TO HIS COUNTRY IMMEDIATELY SAYING THAT HIS PEOPLE WERE STARVING BECAUSE OF LACK OF FOOD BECAUSE OF SUBMARINE SINKINGS OF SHIPS BOUND TO CUBA WITH FOOD. HE SAID THAT IF HE COULD GO RIGHT BACK HE WAS CERTAIN HE COULD CLEAN OUT THE SPIES THERE WITH CLANDESTINE TRANSMITTERS THAT WERE REPORTING ON SHIPPING.

WHILE THE ENGINEERS FROM THE LATIN AMERICAN COUNTRIES WERE TRAINING AT LAUREL UNDER THE DIRECTION OF MY TECHNICAL SUPERVISOR CHARLES ELLERT, THE RID MEN WE HAD SENT TO THESE COUNTRIES WERE BUSY HELPING THE GOVERNMENTS LOCATE ESPIONAGE TRANSMITTERS AS WELL AS AIDING IN ESTABLISHING MONITORING NETWORKS AFTER THAT OF RID.

THE MAN WE SENT TO BRAZIL WAS ROBERT D. LINX. HE HELPED LAY THE GROUNDWORK FOR THE ARRESTS OF 200 ODD SPIES AFTER THE QUEEN MARY LEFT HER DOCK IN MARCH. MUCH OF THE EQUIPMENT SEIZED IN THE ARRESTS OTHER THAN THE SUITCASE TRANSMITTER, THE STOCK IN TRADE FOR A NAZI SPY, WAS MANUFACTURED IN THE UNITED STATES THAT WE WERE USING IN COUNTER-ESPIONAGE OPERATIONS.

THESE ROUNDUPS APPARENTLY CLEANED OUT THE LIR AND CIT ORGANIZATIONS AS THEY WERE NEVER HEARD ON THE AIR AGAIN. SOME MEMBERS OF THE CEL ESCAPED TO THE INTERIOR, BUT ARRESTS AFTER THEY VENTURED TWICE AT INTERVALS TO GET THEIR TRANSMITTERS ON THE AIR PUT AN END TO THEM ALSO.

THE RIO STORY

THE AMERICAN REPUBLICS PREPARE FOR ACTION

IT WAS NOT UNTIL AUGUST OF 1943 THAT NAZI AGENTS AGAIN ATTEMPTED TO USE RADIO FOR ESPIONAGE PURPOSES IN BRAZIL. ABOUT MIDNIGHT ON AUGUST 9, 1943, TWO GERMAN AGENTS WERE LANDED ON THE SHORES OF SAN JOA DE BARRA, BRAZIL, FROM A GERMAN FISHING VESSEL. THEY WERE APPREHENDED BY THE POLICE IMMEDIATELY AFTER LANDING. THESE TWO AGENTS CARRIED WITH THEM TWO SHORT-WAVE TRANSMITTERS WITH WHICH THEY WERE TO COMMUNICATE INTELLIGENCE INFORMATION TO GERMANY. ONE OF THESE TRANSMITTERS, WITH THE AID OF RIO OFFICER BOB LINX WAS PLACED IN OPERATION AS A COUNTER-ESPIONAGE STATION UNDER THE AUSPICES OF THE BRAZILIAN ARMY UTILIZATION WAS MADE OF ONE OF THE NAZI AGENTS AS AN UNDERCOVER OPERATOR AND COMMUNICATION WAS ESTABLISHED WITH GERMANY.

DURING THE OPERATION OF THIS STATION THE GERMAN REICH TRANSMITTED A MESSAGE TO THE BRAZILIAN STATION ASKING DATA ABOUT THE DEFENSE OF THE HARBOR OF RIO DE JANEIRO, THE LOCATION OF SUBMARINE NETS AND MINE FIELDS AS WELL AS THE ARRIVAL AND SAILING DATES OF VESSELS. IT WAS THOUGHT BY THE BRAZILIANS THAT THIS COMMUNICATION MIGHT BE AN INDICATION THAT IT WAS THE PLAN OF THE GERMANS TO ESSAY A TOKEN INVASION OF THE HARBOR AND CITY OF RIO. IN REPLY, A MESSAGE WAS PROPOSED TO THE REICH IN THE HOPE OF LAYING A TRAP OF SOME KIND FOR A REICH U-BOAT.

SUBSEQUENTLY, THROUGH THE FACILITIES OF THIS COUNTER ESPIONAGE STATION TWO MESSAGES WERE RECEIVED FROM GERMANY WHICH READ AS FOLLOWS:

- (1) "INFORMATION IS DESIRED CONCERNING THE STRENGTH AND COMPOSITION OF THE BRAZILIAN AIR FORCE. WHAT POSSIBILITY IS THERE OF BEING SENT ABROAD?"
- (2) "IMPOSSIBLE TO GIVE YOU ANY CONTACT IN RIO DE JANEIRO. AS LAST EXTREMITY, PROCEED TO THE SOUTH AND CONTACT THE INDIVIDUAL WHOSE NAME YOU ALREADY HAVE."

FROM THE LAST MESSAGE WE CONCLUDED THAT WITH THE HELP OF RIO THE GERMAN SPIES IN THE VARIOUS CALLS OPERATING IN RIO AND VICINITY HAD BEEN CLEARED OUT OR SILENCED. SUBSEQUENTLY THE BRAZILIANS ABANDONED THE USE OF THIS COUNTER-ESPIONAGE STATION, HOWEVER, THE CONTROL STATION IN GERMANY WAS HEARD BY RIO MONITORING STATIONS IN THE UNITED STATES ENDEAVORING TO CONTINUE COMMUNICATION WITH IT LONG AFTER IT HAD CEASED OPERATING.

THIS IS EXACTLY WHAT THE CONTROL STATION IN GERMANY DID AFTER THE FBI HAD DISCONTINUED THE COUNTER-ESPIONAGE STATION ON LONG ISLAND AS I MENTIONED PREVIOUSLY THE CONTROL CONTINUED TO CALL EVEN WHILE THE TRIAL OF THE SPIES WAS GOING ON IN THE BROOKLYN FEDERAL COURT. THIS TO US IN RIO WAS A GOOD SIGN THAT WE HAD SEALED THE UNITED STATES FROM ESPIONAGE RADIO OPERATIONS SINCE THE GERMANS HAD NOT LEARNED OF THE ARREST OF THE NEW YORK GANG OF SPIES.

THE SUITCASE TRANSMITTER AND RECEIVER PRESENTED TO ME BY THE BRAZILIAN GOVERNMENT WAS ONE OF THOSE CARRIED BY THE TWO SPIES WHO LANDED ON THE SHORE AT SAN JOAO DE BARRA FROM THE GERMAN FISHING VESSEL.

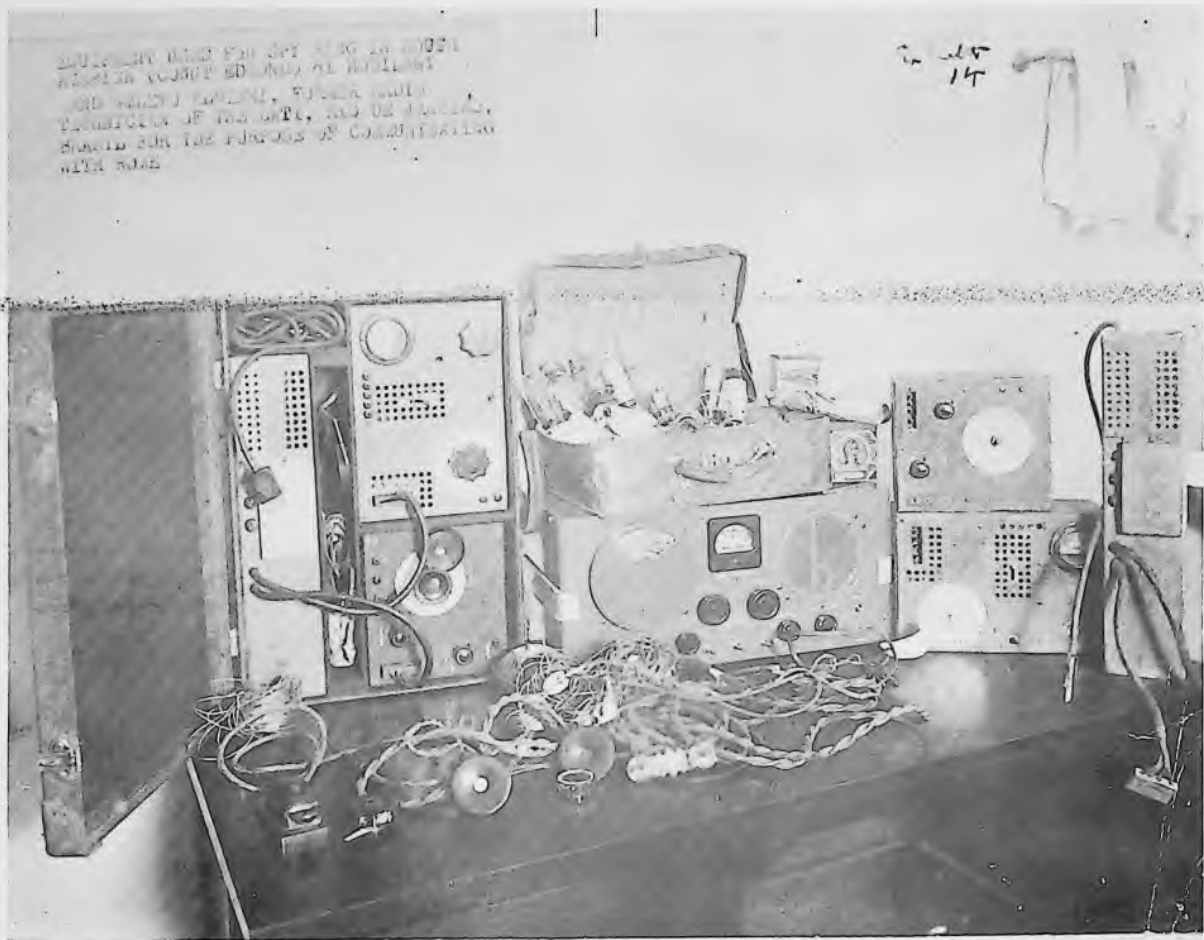
BY MID-YEAR OF 1944 BRAZIL WAS PERMANENTLY CURED OF ITS SPY RADIO INFESTATION. BOB LINX STAYED ON TO DIRECT THE ESTABLISHMENT AND OPERATION OF BRAZIL'S MONITORING SERVICE PATTERNED AFTER THAT OF RIO AND BECAME KNOWN AS THE "FATHER OF BRAZILIAN MONITORING".

THE PICTURES ON THE FOLLOWING PAGE ARE RELATED TO THESE OPERATIONS. (EEC) ALL PHOTOS WERE FURNISHED BY THE AUTHOR GEORGE STERLING AND THE SCREENED NEGATIVES WERE MADE BY ROB-ROY OF CANTON, OHIO BY COURTESY OF W8HR, BOB ROY.

CHAPTER V

THE RID STORY

THE AMERICAN REPUBLICS PREPARE FOR ACTION



NOTE THE USUAL STOCK IN TRADE---NAZI SUITCASE TRANSCEIVER--ALSO HALLICRAFTER EQUIPMENT RECEIVER---RID USED HALLICRAFTER EQUIPMENT TO LOCATE SPIES WHO ALSO WERE USING HALLICRAFTER EQUIPMENT PURCHASED IN AMERICA AND SOLD TO LEGITIMATE SOURCES IN SOUTH AMERICA.

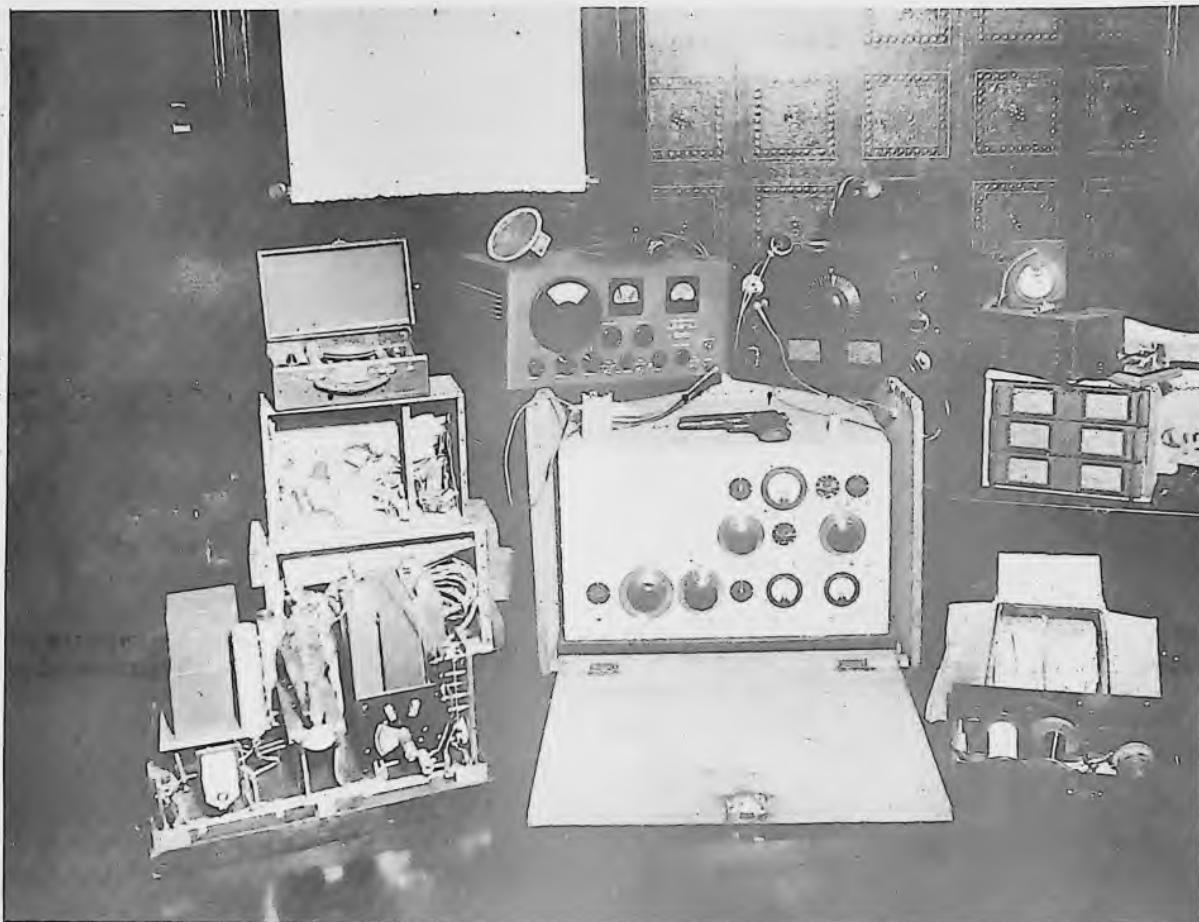
THE RID STORY

RID AIDS THE CHILEAN GOVERNMENT

I HAVE PREVIOUSLY INDICATED THE KIND OF INFORMATION THE GERMAN ESPIONAGE HEADQUARTERS IN BERLIN WAS DEMANDING OF ITS AGENTS IN CHILE. THE INITIAL CALL LETTERS OF THE STATION RID FIRST DETECTED IN CHILE WAS PYL SO WE ALWAYS IDENTIFIED THE CALL IN CHILE BY THOSE CALL LETTERS.

THE MAN WE SENT TO CHILE WAS JOHN DE BARDELEBEN. PRIOR TO DE BARDELEBEN'S ARRIVAL IN CHILE, WE HAD INTERCEPTED AND DECODED A MESSAGE PYL SENT TO HAMBURG THAT THEIR AGENT IDENTIFIED AS "PEDRO" WOULD BE READY TO TEST ON THE NEXT DAY, MARCH 9, AN AUXILIARY TRANSMITTER FOR PYL, MADE FROM THE PARTS PURCHASED BY NZUI AGENT BLUME.

THE RID STORY



ANOTHER GROUP OF NAZI SPY EQUIPMENT LOCATED BY RID IN RIO DE JANEIRO 7/20/42

CONT. FROM PREVIOUS PAGE

THE RID STORY

RID AIDS THE CHILEAN GOVERNMENT

ON MARCH 10, RID MONITORS IN THE UNITED STATES PICKED UP PEDRO'S TEST TRANSMISSION THE FIRST TIME HE ATTEMPTED COMMUNICATION WITH GERMANY. HE SIGNED THE CALL LETTERS GES.

JOHN DE BARDELEBEN ARRIVED IN VALPARAISO ON MARCH 19 AND THIS WAS THE SIGNAL FOR THE MAIN TRANSMITTER OF PYL TO BE MOVED AROUND. DE BARDELEBEN SPENT WEEKS TRACKING ITS CHANGE IN LOCATION IN THE AREA WITHIN A TEN MILE RADIUS OF VALPARAISO. IT WAS NOTED THAT EVERY SECOND WEEK HOWEVER, A TRANSMISSION WOULD BE MADE FROM A HOUSE AT AVENUE ALEMANA 5508, CUSO ALEGRE. THIS HOUSE WAS OWNED BY GUILLERMO ZELLER, A RADIO TECHNICIAN AND LICENSED AMATEUR WHO WAS OFTEN SEEN IN THE COMPANY OF HANS BLUME, MANAGER OF THE VALPARAISO BRANCH OF THE GERMAN COMPANY TRANSRADIO.

IN APRIL OF 1941, SHORTLY BEFORE PYL WAS FIRST HEARD TRYING TO CONTACT REW, BLUME

THE RID STORY

RID AIDS THE CHILEAN GOVERNMENT

HAD BOUGHT FROM A LOCAL SUPPLY STORE A COMPLETE SET OF TRANSMITTER PARTS AND TWO RECEIVERS. A TAP WAS THEN PLACED ON ZELLER'S TELEPHONE. THE CHILEAN POLICE PREMATURELY RAIDED ZELLER'S HOUSE ON JUNE 25. THEIR PERFUNCTORY SEARCH REVEALED NO TRANSMITTER. DEBARDELEBEN TOLD ME THAT HE BELIEVED ZELLER HAD BEEN TIPPED OFF. ANOTHER RAID WAS MADE AFTER ZELLER HAD TELEPHONED HIS AGENT COLLEAGUES AND REPORTED HE HAD A NARROW ESCAPE SINCE THE POLICE HAD NOT MADE A GOOD SEARCH. HE HAD HIS TRANSMITTER IN A SEWING MACHINE BOX.

PYL WENT OFF THE AIR AFTER THIS AND NOTHING COULD BE DONE BUT A FEW WEEKS LATER DEBARDELEBEN FOUND THE TRANSMITTER IN A SEWING MACHING BOX IN A STORE ON THE SAME STREET ON WHICH ZELLER LIVED. FINALLY, ON OCTOBER 23, MOST OF THE AGENTS OF PYL ORGANIZATION WERE ARRESTED, BUT THE MAN WHO ACTUALLY OPERATED THE MAIN TRANSMITTER AND OPERATOR PEDRO HAD DISAPPEARED. IN THE MEANTIME I HAD SENT DEBARDELEBEN WITH ANOTHER AGENT TO ARGENTINA.

WILLIAM FELLOWS, ONE OF THE RID ENGINEERS WHO HAD AIDED IN DEVELOPING OUR APERIODIC RECEIVER WAS SENT TO CHILE TO TAKE DEBARDELEBEN'S PLACE. ALMOST A YEAR AFTER THE INCOMPLETE CAPTURE OF THE PYL RING IN VALPRAISO, THREE DIFFERENT OPERATORS AT WIDELY SCATTERED MONITORING STATIONS INTERCEPTED A NEW STATION WITH THE CALL LETTERS PQZ, AND ALL THREE ON THEIR INTERCEPTED COPY STATED THAT FIST OF THE OPERATOR RESEMBLED THAT OF PEDRO WHO HAD SIGNED THE CALL GES WHEN USING THE STANDBY PYL TRANSMITTER MADE FROM THE PARTS PURCHASED BY AGENT BLUME. A NATIONWIDE ALERT ON THE RID MONITORING NETWORK OBTAINED BEARINGS ON PQZ DURING HIS NEXT SCHEDULE AND FIX INDICATED THE LOCATION IN SANTIAGO, CHILE.

WILLIAM FELLOWS IMMEDIATELY DISPATCHED ORDERS TO TRACK DOWN THE LOCATION OF PQZ. BECAUSE OF SHORT COMMUNICATIONS, FELLOWS HAD A DIFFICULT TIME OBTAINING SUFFICIENT BEARINGS TO PRODUCE A GOOD FIX ON THE HOUSE IN WHICH THE TRANSMITTER WAS LOCATED. ONE NIGHT WHILE DOING A LITTLE FOOTWORK IN AN AREA FELLOWS HAD BRACKED WITH HIS BEARINGS, AND LONG AFTER THE LIGHTS HAD GONE OUT IN SURROUNDING HOUSES, FELLOWS DETECTED A TRACE OF LIGHT SEEPING THROUGH A CORNER OF A WINDOW ON THE SECOND STORY OF A HOUSE. DURING DAYLIGHT OF THE NEXT DAY A DISCREET INVESTIGATION REVEALED A SMALL WIRE RUNNING FROM THE WINDOW IN WHICH THE LIGHT HAD BEEN DETECTED, TO A TREE IN THE BACK YARD. NOW THE PURSUIT WAS GETTING HOT.

FELLOWS PLAYED THE GAME CAREFULLY AND WHEN THE NEXT TIME THE SIGNAL CAME ON THE AIR, BEARINGS CONFIRMED THE LOCATION OF THE TRANSMITTER. SO TO MY CONSIDERABLE SATISFACTION THE OPERATOR PEDRO, WHO HAD BEEN HIDING FOR A YEAR AND A GRADUATE SPY OF THE HAMBURG SCHOOL AND WHO ALSO HAD THE EFFRONTERY TO USE MY OWN INITIALS FOR THE CALL LETTERS OF HIS CLandestine transmitter WAS ARRESTED AND HIS EQUIPMENT SEIZED. THIS CASE WAS AN EXCELLENT EXAMPLE OF THE PROFICIENCY OF RID OPERATORS SINCE THREE OF THEM AS I HAVE PREVIOUSLY STATED, AT WIDELY DIFFERENT LOCATIONS, ADVISED THAT THE OPERATOR SIGNING PQZ HAD THE SAME FIST ON SENDING CHARACTERISTICS AS ONE WHO HAD OPERATED GES A YEAR BEFORE. YES, INDEED IT WAS PEDRO.

NOTE FROM AUTHOR: THE FOLLOWING IS TYPICAL OF THE DECODED MESSAGES SENT BETWEEN HAMBURG AND VALPRAISO, CHILE BY THE NAZI SPY RING IN CHILE AND THE CONTROL IN HAMBURG.

(A) DECEMBER 15, 1941

VALPARAISO TO HAMBURG

"PLEASE DEVELOPE LETTERS TO SENORITA WITH SIGNATURES PEDRO, ALFREDO, OR ROBERTO FOR INK AND RADIO CONTENTS."

THE RID STORY

RID AIDS THE CHILEAN GOVERNMENT

(A) APRIL 14, 1942

HAMBURG TO VALPARAISO

"GIVE UP LUIS AS SOON AS CONNECTION WITH ENRIQUE IS SECURED. COLLECT MAIL MEANWHILE ONLY BY MEANS OF A TRUSTWORTHY MIDDLEMAN."

(A) MARCH 26, 1942

HAMBURG TO VALPARAISO

"BE CAREFUL. ALFREDO ARRESTED. PLEASE ASK BACH WHICH OF YOUR COVER ADDRESSES HE GAVE TO ALFREDO AND WHOM ALFREDO PASSED IT ON TO. IN ANY EVENT, ABANDON YOUR (COVER) ADDRESS JUAN, AND DON'T PICK UP ANY MORE LETTERS THERE."

THE RID STORY

ARGENTINA-HOT BED OF GERMAN ESPIONAGE OPERATIONS

THAT ARGENTINA WAS THE CENTER AND HOT BED OF GERMAN ESPIONAGE OPERATIONS IN THE WESTERN HEMISPHERE CAN BE RAPIDLY SEEN FROM THE FOLLOWING QUOTATIONS REPORTED ON JANUARY, 1943 BY THE EMERGENCY ADVISORY COMMITTEE FOR POLITICAL DEFENSE TO THE GOVERNMENTS OF THE AMERICAN REPUBLICS IN RESOLUTION XVIII ON THE SUBJECT OF AXIS ESPIONAGE ACTIVITIES IN ARGENTINA.

THIS RESOLUTION SAID IN PART AS FOLLOWS:

"A. THE GOVERNMENT OF THE UNITED STATES OF AMERICA HAS SUBMITTED TO THE EMERGENCY ADVISORY COMMITTEE FOR POLITICAL DEFENSE, FOR ITS CONSIDERATION, A MEMORANDUM DATED JAN. 4 OF THE CURRENT YEAR, ENTITLED 'AXIS ESPIONAGE ACTIVITIES IN ARGENTINA';

"B. THIS MEMORANDUM REVEALS THE EXISTANCE OF WELL ORGANIZED AND EXTREMELY ACTIVE GROUPS OF AXIS ESPIONAGE AGENTS WHO ARE USING ONE OF THE AMERICAN REPUBLICS AS A BASE OF OPERATIONS AGAINST ALL OF THE REPUBLICS OF THE AMERICAN CONTINENT, IN FLAGRANT VIOLATION AND DISREGARD OF THE MOST ELEMENTARY STANDARDS OF CONDUCT BETWEEN NATIONS WHICH MAINTAIN FRIENDLY RELATIONS;

"C. THIS DOCUMENT FURTHER REVEALS THAT THESE ESPIONAGE GROUPS ARE ORGANIZED, DIRECTED FINANCED BY GERMAN DIPLOMATIC REPRESENTATIVES ACCREDITED TO THE ARGENTINE REPUBLIC, WHO HAVE ALSO UNDERTAKEN THE ORGANIZATION, DIRECTION, AND COORDINATION OF THE DIFFERENT GROUPS OR CELLS OF AGENTS AND THEIR ACCOMPLICES, ENGAGED IN SUBVERSIVE ACTIVITIES IN FAVOR AND FOR THE TOTALITARIAN STATES, SO THAT THESE DIPLOMATIC REPRESENTATIVES CONSTITUTE AN INTEGRAL PART OF THE GERMAN ESPIONAGE SYSTEM, OPERATING IN AMERICA UNDER THE ORDERS AND INSTRUCTIONS OF THE GERMAN HIGH COMMAND."

RESOLUTION XVIII GOES ON TO STATE:

"THE INFORMATION DEMONSTRATES THAT AFTER THE RUPTURE OF DIPLOMATIC RELATIONS WITH THE AXIS BY VARIOUS COUNTRIES, THE AXIS BEGAN TO USE ARGENTINA AS THE BASE OF ITS ESPIONAGE AND SABOTAGE ACTIVITIES AGAINST ALL THE AMERICAN NATIONS. IT HAS BEEN ESTABLISHED THAT FROM THIS BASE OF OPERATIONS THE GERMANS HAVE SPREAD THE NET OF THEIR SUBVERSIVE ORGANIZATION TO AT LEAST TEN AMERICAN COUNTRIES, AND THAT AS A RESULT OF THEIR WORK A LARGE NUMBER OF AMERICAN LIVES, CONSIDERABLE AMERICAN PROPERTY, AND THE LIVES AND PROPERTY OF THE CITIZENS AND COUNTRIES OF THE UNITED NATIONS WHICH ARE ENGAGED IN THE STRUGGLE AGAINST THE TOTALITARIAN POWERS HAVE BEEN LOST."

THE RIO STORY

ARGENTINA-HOT BED OF GERMAN ESPIONAGE OPERATIONS

"TOTALITARIAN DIPLOMATS AND AGENTS HAVE EMPLOYED EVERY IMAGINABLE ARTIFICE AND TECHNIQUE TO ACHIEVE THEIR OBJECTIVE OF UNDERMINING AND DESTROYING THE DEFENSE AND SECURITY OF THE PEOPLES OF THE AMERICAN REPUBLICS. IN ADDITION TO THE METHODS ALREADY MENTIONED-- THAT IS TO SAY, ESPIONAGE, THE TRANSMISSION OF INFORMATION BY DIPLOMATIC CHANNELS, CLANDESTINE RADIO, THE MAILS AND TELECOMMUNICATIONS, SECRET INK, ETC.--- THE FOLLOWING MAY BE CITED, AMONG OTHERS, WRITTEN AND ORAL PROPAGANDA, SABOTAGE, CLANDESTINE ENTRY AND EXIT, EITHER BY SECRETLY CROSSING FRONTIERS THAT ARE NOT UNDER PATROL OR BY USING FRAUDULENT PASSPORTS, CERTIFICATES OR OTHER DOCUMENTS OF IDENTITY, AND ABUSE OF NATIONALITY."

"A NUMBER OF RANKING ESPIONAGE AGENTS ENJOY DIPLOMATIC STATUS AND ARE ACTUALLY CONNECTED WITH THE GERMAN EMBASSIES. THIS IS ESPECIALLY TRUE OF THE MILITARY AND NAVAL ATTACHES. IT IS ALSO WORTH NOTING THAT SOME OF THE PRINCIPAL ESPIONAGE AGENTS ARE NAZI PARTY LEADERS AND KNOWN AS SUCH. THE GERMAN EMBASSIES HAVE NOT HESITATED TO USE CLANDESTINE RADIO STATIONS AND IT IS DEFINATELY KNOWN THAT THE GERMAN EMBASSY IN RIO DE JANEIRO EMPLOYED A STATION BELONGING TO GROUP II IN SENDING MESSAGES TO THE FOREIGN OFFICE IN BERLIN."

SINCE AXIS AGENTS HAD FREE USE OF DIPLOMATIC CHANNELS AND COULD SEND UNLIMITED CODED MESSAGES THROUGH THE REGULAR COMMERCIAL RADIOTELEGRAPH AND TELEPHONE CIRCUITS AND BY DIPLOMATIC POUCH AS WELL AS SECRET WRITING, THEY HAD NO NEED TO ESTABLISH CLANDESTINE RADIO STATIONS. HOWEVER, AFTER THE EXPOSURE OF THE SITUATION IN BRAZIL, CHILE, AND ARGENTINA, THE ARGENTINE GOVERNMENT PLACED RESTRICTIONS ON THE NUMBER OF CODED MESSAGES THAT COULD BE SENT THROUGH COMMERCIAL RADIO AND CABLE CIRCUITS AND EVENTUALLY PROHIBITED TRANSMISSION OF ALL CODED MESSAGES.

THESE RESTRICTIONS FORCED THE NAZIS IN ARGENTINA TO RESORT TO THE USE OF CLANDESTINE RADIO STATIONS AND RIO DIRECTION FINDERS IN THE UNITED STATES ESTABLISHED THE LOCATION OF SEVERAL NEAR BUENOS AIRES AND THE MESSAGES TRANSMITTED TO AND FROM GERMANY WERE COPIED DAILY AND FURNISHED THE APPROPRIATE AGENCIES OF THE GOVERNMENT AS RAPIDLY AS RECEIVED. MOREOVER, THE GERMANS TRANSMITTED TRAFFIC BY ONE-WAY NAVAL CIRCUIT FROM GERMANY TO THE EMBASSY OF THAT COUNTRY IN BUENOS AIRES.

DURING THE MONTH OF DECEMBER 1943, RIO INTERCEPTED CODED MESSAGES CONTAINING 10,000 GROUPS OF FIVE LETTERS EACH, TRANSMITTED BY AXIS CLANDESTINE TRANSMITTERS TO THE GERMAN HIGH COMMAND. ON APRIL 17TH A CLANDESTINE TRANSMITTER IN ARGENTINA SENT 2,325 GROUPS, ESTABLISHING A NEW RECORD FOR ESPIONAGE TRAFFIC FROM THAT COUNTRY FOR A SINGLE DAY.

DURING MAY OF 1943, THE STATE DEPARTMENT REQUESTED THAT THE FCC FURNISH PERSONNEL AND EQUIPMENT TO BE USED IN ARGENTINA TO LOCATE THESE CLANDESTINE TRANSMITTERS. TWO RIO MEN, MR. J.F. DEBARDELEBEN, WHO FORMERLY PERFORMED MERITORIOUS SERVICE IN CHILE, AND FRANCIS McDERMOTT OF THE DEPARTMENTAL STAFF OF RIO, WERE SELECTED FOR THIS ASSIGNMENT.

CONSIDERABLE DOFFICULTY WAS EXPERIENCED BY OUR MEN OPERATING IN ARGENTINA BECAUSE OF THE POLITICAL SITUATION THAT EXISTED AT THE TIME. ALL AUTOMOBILES WERE UNDER VERY STRICT SURVEILLANCE ON THE PART OF THE POLICE, ESPECIALLY THOSE WHICH OPERATED OUTSIDE OF THE CITY AND THUS HINDERED THEIR FIELD OPERATION. SUFFICIENT EVIDENCE WAS GAINED, HOWEVER, THROUGH STUDIES MADE BY RIO AND OUT MEN OPERATING IN ARGENTINA TO CONFIRM THE EXISTANCE OF AT LEAST SIX TRANSMITTERS. THE NAZI TECHNICIANS RESORTED TO EVERY TRICK OF THE TRADE IN ORDER TO PREVENT THEIR BEING LOCATED. THEY WOULD OPERATE A TRANSMITTER AT A CERTAIN LOCATION ONE DAY AND WHEN OUR MEN WOULD MOVE IN ON THAT LOCATION AS A RESULT OF RADIO DIRECTION FINDING BEARINGS, THEY WOULD FIND THAT ON A FOLLOWING DAY THE TRANSMISSIONS WERE MADE ON A TRANSMITTER MANY MILES FURTHER AWAY.

THE RID STORY

ARGENTINA-HOT BED OF GERMAN ESPIONAGE OPERATIONS

I WAS INFORMED THAT THE RADIO OPERATORS OF THE INTERNED CREW OF THE GERMAN GRAF SPEE HAVE AIDED THE EMBASSY IN THEIR CLANDESTINE RADIO OPERATIONS. IT WAS ONLY BY VERY CAREFUL ANALYSIS OF THE CHARACTERISTICS OF THE "FISTS" OF THE OPERATORS AND TECHNICAL ASPECTS OF THE EMISSIONS THAT WE WERE ENABLED TO DETERMINE EXACTLY HOW MANY TRANSMITTERS WERE BEING USED BY THE GERMAN AGENTS IN THE VICINITY OF BUENOS AIRES.

AT ONE TIME RECENTLY THE GERMAN HIGH COMMAND WAS TRANSMITTING INFORMATION "BLIND", THAT IS TO SAY ONE WAY, TO THE THE GERMAN EMBASSY BY MEANS OF THE "HELLESCRIBER" SYSTEM, WHICH PRINTS ON TAPE THE ENGLISH LETTERS OF THE WORDS OF THE MESSAGE. IT WAS FORTUNATE THAT RID HAD EQUIPMENT WHICH ENABLED IT TO INTERCEPT AND PRINT THESE TRANSMISSION SINCE THE MATERIAL WAS URGENTLY REQUESTED BY THE COAST GUARD CRYPTOGRAPHIC LABORATORY OF THE NAVY DEPARTMENT.

THROUGH INFORMATION OBTAINED FROM THE EMBASSY AND THEIR CONTACTS AS WELL AS BY MONITORING, WE ARRIVED AT THE CONCLUSION THAT NO TRANSMITTER WAS BEING OPERATED AT THE GERMAN EMBASSY ITSELF. HOWEVER, A STORE OF RADIO PARTS WAS KEPT IN THE EMBASSY, INCLUDING PARTS WHICH WERE USED IN THE TRANSMITTERS OPERATED WITH THE CALL LETTERS LIR AND MAX IN BRAZIL. THE GERMAN EMBASSY FORCED THE ARGENTINE POLICE TO RETURN THESE PARTS AFTER THE TRIAL AND EXPULSION OF THE GERMAN NAVAL ATTACHE, CAPTAIN NEIBUHR, WHO WAS DEPORTED TO GERMANY AFTER HIS ESPIONAGE WORK IN ARGENTINA.

FINALLY, WHEN THE ARGENTINE SITUATION TOOK A TURN FOR THE WORST FROM THE ALLIED GOVERNMENTS, STANDPOINT, IT WAS DECIDED BY THE STATE DEPARTMENT TO WITHDRAW OUR MEN FROM THAT COUNTRY AND STORE THE EQUIPMENT UNTIL SUCH TIME AS THE FULL COOPERATION OF THE ARGENTINE GOVERNMENT COULD BE SECURED IN SUPPRESSING THE ACTIVITY OF THE CLANDESTINE RADIO TRANSMITTERS. IN FACT, THE ARGENTINE GOVERNMENT WAS ABOUT TO CHARGE OUR TWO MEN WITH ESPIONAGE. ACCORDINGLY, ON ADVICE OF THE STATE DEPARTMENT, WE HAD TO GET THEM OUT OF THE COUNTRY IN A HURRY.

OPERATION CUBA

A SPY IS EXECUTED

ON MARCH 21, 1942, ACTING SECRETARY OF STATE, SUMNER WELLES, ADDRESSED A COMMUNICATION TO CHAIRMAN FLY OF THE FCC, WHEREIN HE STATED:

"MY ATTENTION HAS BEEN INVITED BY THE AUTHORITIES OF THE CUBAN GOVERNMENT TO THE URGENT AND CRITICAL NECESSITY OF DISCOVERING AND SUPPRESSING A NUMBER OF CLANDESTINE RADIO TRANSMITTERS WHICH ARE NOW CONVEYING INFORMATION TO ENEMY SUBMARINES CONCERNING THE MOVEMENT OF MERCHANT VESSELS ON THE COAST OF CUBA.

"I SHOULD, THEREFORE, APPRECIATE IT IF YOU WOULD BE GOOD ENOUGH TO INFORM ME WHETHER THE FEDERAL COMMUNICATIONS COMMISSION COULD MAKE AVAILABLE IMMEDIATELY A MOBILE DIRECTION FINDER DETECTING APPARATUS SUCH AS ARE NOW USED IN THE UNITED STATES IN DISCOVERING CLANDESTINE RADIO TRANSMITTING STATIONS."

IN ACCORDANCE WITH THIS REQUEST AND FURTHER EXCHANGE OF CORRESPONDENCE, A REPRESENTATIVE OF THE RADIO INTELLIGENCE DIVISION, MR. CHARLES B. HOGG, WAS DETAINED TO CUBA, ARRIVING THERE DURING THE LATTER PART OF APRIL, TO ASSIST IN LOCATING ANY CLANDESTINE TRANSMITTERS WHICH MIGHT BE OPERATED IN THAT REPUBLIC.

THE RIO STORY

OPERATION IN CUBA

DURING HIS DETAIL TO CUBA, MR. HOGG DISCOVERED THAT A GROUP OF NINE STATIONS WERE BEING OPERATED BY AN OFFICIAL OF THE CUBAN GOVERNMENT WITHOUT THE AUTHORITY OF THAT GOVERNMENT AND THAT MESSAGES WERE BEING EXCHANGED RELATING TO THE MOVEMENT OF VESSELS AND SHIPMENTS OF CARGOES IN VERY SIMPLE CODE, WHICH SHOULD BE DECIPHERED BY ANYONE HAVING AN ELEMENTARY KNOWLEDGE OF CRYPTOGRAPHY. THIS OFFICIAL WAS EVENTUALLY OUSTED AND ALL THE STATIONS CLOSED. MR. HOGG SUBSEQUENTLY RETURNED TO THE UNITED STATES.

IN AUGUST OF 1942, AT THE REQUEST OF THE STATE DEPARTMENT, MR. HOGG WAS AGAIN SENT TO CUBA AND CONTINUED HIS ACTIVITIES IN CONNECTION WITH THE DETECTION OF CLANDESTINE RADIO STATIONS. DURING THIS DETAIL MR. HOGG ASSISTED THE GOVERNMENT IN ESTABLISHING DIRECTION FINDERS AND MONITORING STATIONS IN CONNECTION WITH THE PLANS FOR HEMISPHERIC DEFENSE.

AN INTERESTING DEVELOPMENT OCCURRED DURING MR. HOGG'S SECOND ASSIGNMENT TO CUBA. THE CUBAN POLICE ARRESTED HEINZ AUGUST LUNING AND CHARGED HIM WITH BEING A NAZI SPY. MR. HOGG REPORTED THAT THE ARREST WAS MADE PREMATURELY WITHOUT NOTIFYING THE LEGAL ATTACHE OF THE EMBASSY WHO REPRESENTED THE FBI. EVIDENCE OF LUNING'S ACTIVITIES WAS SCATTERED THROUGH BRITISH, AMERICAN, AND CUBAN CENSORSHIP WHO HAD FOUND SECRET WRITING ON LETTERS ADDRESSED TO SWEDEN AND PORTUGAL, AFTER THE ARREST A RADIO TRANSMITTER AND RECEIVER WERE FOUND IN HIS ROOM. DURING INCARCERATION MR. HOGG INTERVIEWED LUNING AND FOUND HIM CAPABLE OF SPEAKING THREE LANGUAGES---GERMAN, SPANISH, AND ENGLISH---WITH EQUAL FACILITY. HE HAD SPENT SOME TIME PREVIOUSLY IN SOUTH AMERICA AND CARRIED A HONDURAS PASSPORT WITH A CUBAN VISA ISSUED IN PORTUGAL.

LUNING STATED THAT HE HAD BEEN TRAINED IN THE GERMAN ESPIONAGE SCHOOL AND THE COURSE INCLUDED SECRET WRITING AND CRYPTOGRAPHY. IN ADDITION TO BEING PROVIDED WITH A FORGED PASSPORT, HE WAS FURNISHED \$3,000.00 IN AMERICAN MONEY AND INSTRUCTIONS ON HOW TO CONDUCT HIMSELF WHILE IN CUBA. HE WAS TOLD THAT IF IT BECAME ABSOLUTELY NECESSARY TO HIDE, HE WAS TO GO TO THE SPANISH EMBASSY BUT ONLY AS A LAST RESORT.

DURING THE PERIOD OF HIS ACTIVITY IN HAVANA, FROM APRIL 1942 UNTIL SEPTEMBER 1942, HE SENT VARIOUS COMMUNICATIONS GIVING INFORMATION REGARDING SHIPMENTS AND AIRPLANES IN SECRET WRITING. HE CORRESPONDED WITH CARLOS ROBERTSON IN CHILE, AND THEY BOTH WERE EXPECTED TO SET UP RADIO TRANSMITTERS FOR EXCHANGE OF INFORMATION. EVEN AFTER HE HAD BEEN ARRESTED A CABLE WAS INTERCEPTED FROM CHILE, INSTRUCTING HIM TO START HIS TRANSMITTER ON 1.895 Mc. AND THE ANSWERING STATION IN CHILE WOULD REPLY ON 11240 Kc. A PRECISE EXAMINATION OF HIS RADIO TRANSMITTER REVEALED THAT IT WAS INCAPABLE OF GENERATING RF OSCILLATIONS AND, MOREOVER, BECAUSE OF HIS LACK OF TECHNICAL ABILITY AND PROPER MATERIALS IT APPEARED DOUBTFUL IF HE WOULD HAVE EVER PLACED IT ON THE AIR HIMSELF. HE WAS SUBSEQUENTLY TRIED BY THE HAVANA URGENCY COURT, CONVICTED AND EXECUTED BY A FIRING SQUAD. HE WAS THE ONLY SPY OTHER THAN THE NAZI SABOTEURS WHO LANDED ON LONG ISLAND WHO WAS EXECUTED DURING THE WAR TO MY KNOWLEDGE.

THIS CASE SERVES ONLY TO SHOW FURTHER THE ATTEMPTS OF THE GERMAN HIGH COMMAND, THROUGH ESPIONAGE AND BY CLANDESTINE RADIO CIRCUITS, TO SECURE MILITARY INFORMATION.

AT THE REQUEST OF THE UNITED STATES OFFICE OF CENSORSHIP, THE RADIO INTELLIGENCE DIVISION, AIDED BY ITS REPRESENTATIVE, HOGG, IN CUBA, PROVIDED A SURVEILLANCE OVER THE COMMUNICATIONS ORIGINATING FROM A CUBA WIRELESS CORPORATION, A SUBSIDIARY OF GALBAN Y LOBOS COMPANY OF HAVANA. THE CUBAN GOVERNMENT HAD AUTHORIZED THIS COMPANY TO TRANSMIT COMMUNICATIONS "BLIND" (ONE WAY) TO BOTH PUERTO RICO AND A NEW YORK OFFICE, AND INCIDENTALLY THESE TRANSMISSIONS WERE MADE IN THE AMERICAN MORSE CODE AS CONTRASTED WITH THE WITH THE CONTINENTAL CODE, THE LATTER WHICH IS USED BY INTERNATIONAL AGREEMENT.

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THE RID STORY

OPERATION IN CUBA

THIS OF COURSE NECESSITATED THAT WE ASSIGN INTERCEPT OFFICERS TO THESE CIRCUITS WHO COULD RECEIVE THE AMERICAN MORSE CODE. I WAS INFORMED BY THE OFFICE OF CENSORSHIP THAT OUR INTERCEPTS DISCLOSED INDISCREET TRANSMISSIONS RELATING TO MOVEMENTS OF SHIPS AND CARGOES.

SOUTH OF THE RIO GRANDE

IN MY STORY OF RADIO INTELLIGENCE IN WORLD WAR I, I NARRATED HOW THE HIGH POWERED LONG WAVE MEXICAN STATION LOCATED AT CHAPULTEPEC HAD EXCHANGED CONSIDERABLE CLANDESTINE DIPLOMATIC TRAFFIC WITH NAUEN, GERMANY (PQZ; YARDLEY IN HIS BOOK, "THE BLACK CHAMBER" REVEALED THE MAGNITUDE OF THIS OPERATION.

AS THE WAR CLOUDS MOVED NEARER OUR HEMISPHERE, RID IN THE LATTER PART OF 1940 WAS REQUESTED TO MONITOR THE TRANSMISSIONS OF THE MEXICAN STATIONS SINCE IT WAS INDICATED THAT ESPIONAGE INFORMATION WAS BEING TRANSMITTED TO GERMANY BY THIS COMMERCIAL CHANNEL BY MEANS OF CODED MESSAGES. IN FACT ONE GERMAN SPY, A LICENSEE OF AN AMATEUR STATION WAS SENDING HIS MESSAGES THROUGH THE CHAPULTEPEC STATION MERELY BY INDICATING ON THE MESSAGES THAT THEY WERE IN A PRIVATE CODE. AT THAT TIME THE MEXICAN GOVERNMENT MADE LITTLE OR NO ATTEMPT TO CENSOR INTERNATIONAL RADIOTELEGRAPH COMMUNICATIONS.

IN JANUARY OF 1944, A CLANDESTINE STATION WAS INTERCEPTED BY RID MONITORS AND OUR DIRECTION FINDERS POINTED TO ITS LOCATION IN MEXICO CITY. WHILE MONITORING THIS STATION IT WAS HEARD TO COMMUNICATE AT TIMES WITH THE FBI COUNTER-ESPIONAGE STATION ON LONG ISLAND. ALL INTERCEPTS WERE FURNISHED THE FBI AT THEIR REQUEST. IT WAS NEVER REVEALED WHAT THE NATURE OF THE OPERATION REALLY WAS. IT COULD HEVE BEEN A COUNTER-MEASURE STATION ESTABLISHED BY THE MEXICANS OR THE OPERATOR RECOGNIZED THE NAZI PROCEEDURE EMPLOYED BY THE LONG ISLAND STATION AND ITS ANSWERING STATION AOR.

AT THAT TIME RID HAD NO OFFICERS IN MEXICO BUT LATER WE DID TRAIN TWO ENGINEERS SENT TO US BY THE MEXICAN GOVERNMENT. AFTER FINISHING THEIR TRAINING THEY WENT BACK TO THEIR COUNTRY WITH RID OFFICER EARNHART AND ESTABLISHED SEVERAL MONITORING AND DIRECTION FINDING STATIONS.

PREVIOUS TO THIS IN JUNE OF 1941 AND MARCH 1942, AT THE REQUEST OF THE MEXICAN GOVERNMENT WE SENT MOBILE MONITORING UNITS ACROSS THE BORDER FOR THE PURPOSE OF LOCATING ANY CLANDESTINE STATIONS WHICH WERE SUSPECTED BY THE MEXICAN GOVERNMENT TO BE OPERATING IN THE NORTHERN PART OF THAT COUNTRY. ON BOTH TRIPS, ALL RADIO STATIONS WHICH HAD BEEN REPORTED AS SUSPICIOUS, WERE IDENTIFIED AS AUTHORIZED STATIONS.

REPORTS OF ALLEGED ILLEGAL OPERATION OF STATIONS WERE THOROUGHLY INVESTIGATED AND FOUND TO HAVE ORIGINATED AS THE RESULT OF SUSPICIOUS ACTIVITIES OF MINERS AND EXPLORING PARTIES OPERATING IN THE MOUNTAINS. SOME OF THE ALLEGED ILLEGAL RADIO OPERATION TURNED OUT TO BE PRIVATE STATIONS OPERATED BETWEEN MINES WITHOUT BENEFIT OF OFFICIAL AUTHORITY OF THE MEXICAN GOVERNMENT. (END OF CHAPTER V)

GEORGE E. STERLING WIAE
PEAKS ISLAND,
PORTLAND, MAINE.

ANOTHER FINE INSTALLMENT OF GEORGE'S. WE THANK YOU GEORGE AND CONGRATULATE ON A FINE PIECE OF WRITING. WE LOOK FORWARD TO THE NEXT WITH EAGER ANTICIPATION. YE OLDE COPPYE B.



BILL HALLIGAN, W9AC, OPERATING HVICN, THE VATICAN. FROM LEFT TO RIGHT: DOMENICO PETTI, HVICN, LORIS CASTALDI, II CL, BILL AND NEAL LA TORRACA, KIJMN.

WILLIAM J. MCKEE JR. W1KC
MEMBERSHIP CHAIRMAN

SINCE ANNOUNCING OUR MEMBERSHIP DRIVE IN THE AUGUST ISSUE OF SPARK GAP TIMES, THE APPLICATIONS HAVE STARTED TO ROLL IN.

NOW THAT THE VACATION MONTHS ARE OVER AND THAT TIME OF THE YEAR HAS STARTED WHEN WE ALL TURN OUR ATTENTIONS BACK TO AMATEUR RADIO, WE SHOULD KEEP THE FACT IN MIND THAT THERE ARE MANY QUALIFIED PERSONS WHO WOULD LIKE TO JOIN OUR CLUB IF THEY WERE PROPERLY APPROACHED AND INFORMED ABOUT US. THE IDEAL PLACE FOR FIRST MENTION IS OVER THE AIR WHILE IN QSO WITH THAT CONTACT WHO HINTS THAT HE IS SOMEWHAT OF AN OLD TIMER. IF SOME INTEREST IS INDICATED, MAKE SURE THAT HE GETS A COPY OF OUR INTRODUCTORY LETTER WITH A PERSONAL NOTE ATTACHED. THESE INTRODUCTORY LETTERS ARE A FINE SALES TOOL AND CAN BE OBTAINED FROM ME OR W2EG. THIS METHOD WORKS, AS TO DATE I HAVE SENT OUT 24 INTRODUCTORY LETTERS AS FOLLOW UPS ON ON INTERESTING QSO'S. SOME OF THESE CONTACTS HAVE RESULTED IN NEW MEMBERSHIPS.

IF EACH MEMBER CAN INTEREST JUST ONE NEW PROSPECT OVER THE AIR OR OTHERWISE- I FEEL

WILLIAM J. MCKEE JR. WJMC
MEMBERSHIP CHAIRMAN

SURE THAT OUR EFFORTS WILL BE GRATIFYING AND OUR CLUB WILL GROW STRONGER.

GOOD LUCK AND A VERY MERRY CHRISTMAS TO YOU ALL.

73,

WILLIAM J. MCKEE JR. WJMC
240 MORELAND STREET
WORCESTER 9, MASS.

THE LATIN AMERICAN PAGE

BY

AUGUSTO E. OSORIO LUZAO

REPRESENTANTE EN SUD AMERICA

REGLAMENTACION DE LA LEY DE FOMENTO DE RADIOAFICIONADOS

RECIENTEMENTE EL PODER EJECUTIVO NACIONAL REGLAMENTO LA LEY 16118 QUE DECLARA DE INTERES NACIONAL LA ACTIVIDAD DE LOS RADIOAFICIONADOS Y EXIME DE RECHOS ADUANEROS O CAMBIARLOS LAS IMPORTACIONES DE MATERIAL RADIOELECTRICO, EFECTUADAS POR RADIOAFICIONADOS CON LICENCIA LU O POR ENTIDADES RESPONSABLES DE LOS MISMOS QUE LOS REPRESENTEN.

EN ESTE SENTIDO ESTA COMPRENDIDA LA FEDERACION ARGENTINA DE RADIOAFICIONADOS (FARA), RADIOCLUBES Y COOPERATIVAS, QUE DEBERAN EFECTUAR LOS TRAMITES POR INTERMEDIO DE LA SECRETARIA DE COMUNICACIONES, CONFORME A LAS REGLAMENTACIONES EN VIGOR.

LAS EXENCIONES ADUANERAS Y DE RECARGO A LA IMPORTACION DE LOS MATERIALES RADIOELECTRICOS REQUERIDOS POR LOS RADIOAFICIONADOS SERAN POSIBLES SIEMPRE Y CUANDO QUE LOS EQUIPOS Y ELEMENTOS DE ESTOS NO SE FABRIQUEN EN EL PAIS, O QUE SU IMPORTACION NO EFECTE A LA INDUSTRIA LOCAL Y TAMBIEN QUE EL RADIOAFICIONADO NO HUBIERA HECHO UNA IMPORTACION SIMILAR EN LOS ULTIMOS 5 AÑOS.

RADIO CLUB ROSARIO

EL RADIO CLUB ROSARIO FUE FUNDADO EL 25 SEPTIEMBRE DE 1927 Y POR LO TANTO CUMPLE ESTE AÑO SU 36 ANIVERSARIO, QUE POR RAZONES DE PROGRAMACION Y PARA FACILITAR LA ASISTENCIA DE LOS ACTOS CON QUE ESTA PRESTIGIOSA ENTIDAD, DECANA DE LOS RADIOCLUBES DEL INTERIOR, SE CELEBRARA EL DIA 29 DE SEPTIEMBRE CON UN BANQUETE EN EL RESTAURANT "LA QUERENCIA" DE LA CIUDAD DE ROSARIO.

DESEMPEÑA ACTUALMENTE LA PRESIDENCIA DEL RADIO CLUB ROSARIO, D. HUMBERTO F. DE GAETANO GINES LUIFW, RADIOVETERANO DE DESTACADO ACTUACION EN MAS DE TRES DECEDAS. ULTIMAMENTE ACTUO COMO PRESIDENTE DEL IX CONSEJO FEDERAL CELEBRADO EN BUENOS AIRES EL 29 DE MARZO DEL CORRIENTE AÑO, DE LA FEDERACION ARGENTINA DE RADIOCLUBES. (FARA).

LAS REUNIONES DEL RADIO CLUB ROSARIO SON PROBERVIALES POR EL ESPERITU DE CORDIALIDAD QUE LAS ANIMA QUE SIEMPRE HAN CONGREGADO A UNA CONCURRENCIA NUMEROSA DE RADIOAFICIONADOS

THE LATIN AMERICAN PAGE

PROVENIENTES DE LOS CUATRO PUNTOS CARDINALES DEL PAIS.

RADIO CLUB URUGUAYO

EL 24 DE AGOSTO ULTIMO CELEBRO EL RADIO CLUB URUGUAYO UN NIEVO ANIVERSARIO DE SU FUNDACION, CON UN BANQUETE REALIZADO EN LOS SALONES DEL AUTOMOVIL CLUB URUGUAYO. AL MISMO ASISTIERON AUTORIDADES, DELEGACIONES DEL INTERIOR E DEL EXTERIOR, ENTRE LAS QUE CABE DESTACAR LA DE LA FEDERACION ARGENTINA DE RADIOAFICIONADOS Y DEL CENTRO DE RADIOVETERANOS. ASUMIO ESTA REPRESENTACION EL CNL. RICARDO MARAMBIO, LU9BG, EN SU CARACTER DE PRESIDENTE DE LA FARA Y DECANO HONDRIO DEL C.R.V.



HORACIO MARTINEZ SEEBER, LU1AA

FIRST LU AMATEUR TELETYPE OPERATOR

NOTE: THANK YOU VERY MUCH FOR YOUR FINE WORK IN SOUTH AMERICA AUGUSTO. WE LOOK FORWARD TO AN ACCELERATED INCREASE IN MEMBERSHIPS IN SOUTH AMERICA AS MORE SOUTH AMERICAN AMATEURS BECOME ELIGIBLE FOR MEMBERSHIP. WE HOPE THAT THE TIME WILL ARRIVE WHEN THE NUMBER OF MEMBERS IN SOUTH AMERICA WILL JUSTIFY AN INDEPENDANT CHAPTER OF THE OLD OLD TIMERS CLUB.

BEST WISHES FOR THE NEW YEAR AND A HAPPY CHRISTMAS TO YOU ALL FROM THE OFFICERS AND MEMBERS OF OOTC.

EARL E. CLINE SR. W4PPZ--PRESIDENT.

Spark-Gap Times

NUMBER 18 PAGE 31

1 DECEMBER, 1963

WIG WAG CODE

Q. WHAT IS THE WIG WAG CODE?

A. THE WIG WAG CODE IS A CODE IN USE IN BOTH ARMY AND NAVY BY WHICH EACH LETTER AND SINGLE FIGURE IS REPRESENTED BY A NUMBER OF 1's AND 8's. IT MAY BE SENT BY USE OF A HAND FLAG OR ANYTHING VISABLE BY DAY, OR BY A TORCH, LANTERN OR ELECTRIC PORTABLE LIGHT AT NIGHT. A MOTION WITH ANY OF THESE OF 90 DEGREES TO THE RIGHT MEANS THE NO. 1. 90 DEGREES TO THE LEFT MEANS THE NUMBER 2. A THIRD MOTION CALLED 3 IS MADE BY WAVING THE FLAG OR LIGHT DOWN DIRECTLY IN FRON OF SENDER.

Q. WHAT IS THE NUMBER CORRESPONDING TO EACH LETTER OF THE ALPHABET?

A. BELOW:

NUMERALS

A...22	K...2121	U...112	1...111
B...2121	L...221	V...1222	2...2222
C...121	M...1221	W...1121	3...1112
D...222	N...11	X...2122	4...2221
E...12	O...21	Y...111	5...1122
F...2221	P...1212	Z...2222	6...2211
G...2211	Q...1211		7...1222
H...122	R...211		8...2111
I...1	S...212		9...1221
J...1122	T...2		0...2121

Q. HOW WOULD YOU USE FIGURES IN A WIG WAG MESSAGE?

A. THEY WOULD BE USED ONLY WHEN REFERRING TO GENERAL SIGNAL BOOK, USING CODE CALLS SIMILAR TO FLAG SIGNALS. FOR EXAMPLE, IF DESIRING TO SEND SIGNAL TO NEW ORLEANS. "PROCEED WITH ALL DISPATCH TO YOKAHOMA, JAPAN," AND IT IS DESIRABLE TO SPELL IT OUT. CALL USS NEW ORLEANS AND SIGNAL "G.S.U. 3" (SIGNIFYING GENERAL SIGNAL'S USE.) THEN X.X. 3 (SIGNIFYING USE END). THEN G.L.U. 3. (SIGNIFYING GEOGRAPHICAL SIGNAL USE; THEN SUPP-OSING 4567 MEANS YOKAHOMA 2221, 1122, 2211 X.X. 333. NUMERALS IN THE BODY OF AN ORD-INARY MESSAGE MUST BE SPELLED OUT IN FULL.

Q. WHAT ABBREVIATIONS ARE USED.

A. A. MEANS AFTER, B. BEFORE, WI WJTB, CAN, H-HAVE, N-NOT, R-ARE, U-YOU, UR-YOUR, W-WORD, WI-WITH, Y-WHY, XX3-NUMERALS FOLLOW OR NUMERALS END. SIG-SIGNATURE.

Q. WHEN SHOULD ABBREVIATIONS BE USED?

A. THE ABBREVIATIONS FOR WORDS SHOULD BE USED WHENEVER THE WORD OCCURS IN A MESSAGE.

Q. WHAT ARE CODE CALLS USED FOR IN WIG WAG MESSAGE SIGNALS?

A. FOR REFERRING TO THE VARIOUS SIGNAL CODES, SUCH AS TELEGRAPHIC, GEOGRAPHICAL, BOAT AND GENERAL SIGNALS.

WHAT ARE THE CODE CALLS?

A. I.C.U. INTERNATIONAL CODE USE. TDU. NAVY TELEGRAPHIC DICTIONARY USE, GSU, NAVY, GENERAL SIGNALS USE. CSU COMPASS SIGNAL USE, CAU CIPHER "A" USE, CBU, CIPHER "B" USE. BCU CIPHER "C" USE NLU, NAVY LIST USE.

Q. HOW SEND A WIG WAG MESSAGE? WITH FLAG OR LANTERN OR BEAM OF LIGHT.

A. (TACTICAL SIGNAL BOOK OF THE U.S. NAVY PAGE 23). THERE ARE BUT ONE POSITION AND THREE MOTIONS. FIRST POSITION IS WITH THE FLAG OR OTHER APPLIANCE HELD VERTICALLY; THE FIRST POSITION IS WITH THE FLAG OR OTHER APPLIANCE HELD VERTICAL-LY; THE SIGNAL MAN FACING SQUARELY TOWARDS THE STATION WHICH IT IS DESIRED TO COMM-UNICATE.

WIG WAG CODE

THE FIRST MOTION OF "ONE" OR "1" THE SIGNAL IS WAVED TO THE RIGHT OF THE SENDER, AND WILL EMBRACE THE ARC OF 90 DEGREES, STARTING WITH THE VERTICAL AND RETURNING TO AND WILL BE MADE IN A PLANE EXACTLY AT RIGHT ANGLES TO THE LINE CONNECTING THE TWO STATIONS. THE SECOND MOTION OF "TWO" OR "2" IS A SIMILAR MOTION TO THE LEFT OF THE SENDER. TO MAKE THE THIRD MOTION "FRINT" OR THREE, THE SIGNAL IS WAVED TO THE GROUND DIRECTLY IN FRONT OF THE SENDER, AND INSTANTLY RETURNED TO THE FIRST POSITION.

NUMBERS WHICH OCCUR IN THE BODY OF THE MESSAGE MUST BE SPELLED OUT IN FULL. NUMERALS MAY BE USED IN SIGNALLING BETWEEN STATIONS HAVING SIGNAL BOOKS, USING THE CODE CALLS. TO USE THE TORCH OR HAND LANTERN AND FOOT LIGHT MUST BE USED AS A POINT OF REFERENCE TO THE MOTION, THE LANTERN IS MORE CONVENIENTLY SWUNG OUT UPWARD BY HAND FROM FOOT LIGHT FOR "1" OR "2" AND RAISED VERTICALLY FOR "3".

FOREGOING COPIED FROM THE BLUEJACKETS MANUAL OF 1902. BY HARRY S. MORRIS.

THIS MATERIAL WAS REQUESTED BY ONE OF OUR MEMBERS AND DESPITE BEING IN AND OUT OF THE HOSPITAL FOR THE LAST SIX MONTHS, OUR FRIEND AND DISTINGUISHED MEMBER, W6KAA, TOM STEVENS ACQUIRED THE INFORMATION. TOM, WE THANK YOU. YE OLDE COPPYE BOYE.

SENSE AND NONSENSE

A STYLISHLY DRESSED ENGLISHMAN WITH A DANGLING MONOCLE, A 50-CENT STOGIE IN HIS MOUTH, A COMB IN ONE HAND AND A BRUSH IN THE OTHER, FELL THROUGH THE AIR FROM A LOWFLYING PLANE, AND LANDED IN A MEADOW CLOSE TO A WORKING FARMER.

"YE GAOS SIR!" EXCLAIMED THE ENGLISHMAN. "SO THAT WASN'T THE WASH ROOM AFTER ALL!"

PROFESSOR: "TELL US ALL YOU KNOW ABOUT NITRATES."

STUDENT: "I DON'T KNOW MUCH EXCEPT THAT THEY ARE CHEAPER THAN DAY RATES."

MABLE: "MY FATHER IS A MODEL MAN. HE DOESN'T DRINK. HE DOES NOT SMOKE. HE NEVER RUNS AROUND WITH OTHER WOMEN. HE DOESN'T EVEN GO TO SHOWS. IN FACT HE HAS NO VICES, AND HE IS GOING TO CELEBRATE HIS 80TH BIRTHDAY TOMORROW."

BILL: "How?"

DISCOVERING AT THE LAST MINUTE THAT HE HAD FORGOTTEN TO INVITE THE ELDERLY PARISHIONER TO THE GARDEN PARTY, THE MINISTER HASTILY TELEPHONED HER.

"IT'S TOO LATE," SHE CURTLY ANSWERED. "I'VE ALREADY PRAYED FOR RAIN."

A TEACHER ASKED HER CLASS TO NAME SOME OF THE BENEFITS OF THE AUTOMOTIVE AGE. THERE WAS SILENCE AND THEN ONE BOY SPOKE UP: "WELL, IT STOPPED HORSE STEALING."

LOS ANGELES IS REPRESENTED BY TWO TEAMS---THE DODGERS AND THE ANGELS. AND WITH TRAFFIC OUT THERE, YOU'RE EITHER ONE OR THE OTHER. (AINT IT A FACT?)

WHICH CAME FIRST THE CHICKEN OR THE EGG?K2ET 27 YORK AVENUE
EYE, N.Y.

SPARK GAP TIMES.

SENATOR BARRY GOLDWATER RECENTLY CLAIMED TO BE ONE OF THE FIRST BROADCASTERS. THIS HONOR HAS BEEN CLAIMED BY MANY BEFORE KOLA WENT ON THE AIR AND HISTORICALLY BECAME KNOWN AS THE FIRST BROADCASTER.

IN JUNE 1919 ABOARD THE USS FINLAND, BOUND FOR FRANCE TO BRING BACK TROOPS, I HEARD MUSIC. THE ST. LOUIS BLUES CAME OVER THE AIR AND I SOON FOUND IT WAS FROM THE CRUISER PUEBLO, RUNNING ALONG WITH US.

WHILE LYING AT ANCHOR OUTSIDE THE BREAKWATER IN THE HARBOR AT BREST, FRANCE, WE USED THE SMALL 25 WATT WESTERN ELECTRIC PHONE SET FOR VOICE COMMUNICATION BETWEEN SHIP AND SHIP, AND BASE.

WITH THE HELP OF A FEW SAILORS WE LUGGED THE BIG DIAMOND DISC PHONOGRAPH FROM THE CHAPLAIN'S OFFICE TO THE RADIO SHACK. THAT NIGHT AFTER ALL NAVY BUSINESS OVER THE PHONE SETS HAD CEASED, I WENT ON THE AIR AND SAID, "THIS IS THE FINLAND, DO YOU WANT SOME MUSIC?" ONE BY ONE THE REPLY CAME BACK, "SURE, LETS HAVE IT." I HELD THE PRESS-TO-TALK SWITCH DOWN ON THE HAND MICROPHONE AND PLACED IT IN FRONT OF THE PHONOGRAPH HORN. WHEN THE SELECTION WAS FINISHED THE CALLS CAME IN -- "GIVE US MORE, FINLAND." THE NEXT NIGHT I HAD A FEW MEMBERS OF THE BAND TO THE SHACK STUDIO AND ENTERTAIN. THIS ALSO WENT OVER BIG. WE ENTERTAINED EVERY NIGHT UNTIL SAILING TIME.

AFTER A TEN DAY STAY IN PORT WE SAILED FOR THE STATES WITH A LOAD OF TROOPS AND WE GOT A CALL FROM THE USS MOBILE, ALSO ON HER WAY TO THE STATES. THE CHIEF TOLD US HE HAD HEARD US IN PORT AND HAD SWIPED THE LOUDSPEAKER FROM THE CAPTAIN'S CABIN, WHICH LOOKED LIKE A HORN FROM AN ANCIENT AUTOMOBILE, AND MOUNTED IT OUTSIDE THE RADIO SHACK.

HE ASKED US TO GIVE HIM SOME DANCE MUSIC FROM THE DIAMOND DISC PHONOGRAPH WHICH WE LUGGED UP FROM THE CHAPLAIN'S OFFICE AGAIN.

A GROUP OF NURSES, WOMEN, Y.M.C.A. WORKERS AND OFFICERS WERE DANCING ON THE BOATDECK OF THE MOBILE FROM MUSIC BROADCAST FROM THE IMPROVISED STUDIO OF THE USS FINLAND.

MANY YEARS LATER WHEN I JOINED THE VWOA AND OTHER RADIO ORGANIZATIONS, I MET W2FO, HENRY HAYDEN. HE WAS ABOARD THE USS LUCKENBACH BOUND FOR THE STATES, AND HE REMEMBERED MY BROADCASTS AND ALWAYS TOLD ME HOW MUCH HE ENJOYED THEM.

I DON'T KNOW WHERE I STAND AS BEING FIRST. HOWEVER, YOU MAY BE SURE WE HAD A GOOD TIME, AND IF ANY OLD BRASS POUNDERS OF THE TRANSPORT DAYS SEE THIS THEY WILL REMEMBER WELL, THESE BROADCASTS.

SINCERELY,

CLARENCE A. MCKEE K2ET

A YOUNG FRIEND THE OTHER DAY SAID, "DO YOU KNOW THERE IS AN ELEVENTH COMMANDMENT?" I OF COURSE REPLIED IN THE NEGATIVE AND ASKED WHAT IT IS. HE SAID THAT THE ----- COURT HAD WRITTEN THE ELEVENTH AND QUOTED, "THOU SHALT NO TEACH THE OTHER TEN IN THE PUBLIC SCHOOLS."

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THE BIG BERTHA OF WINQ

BY

HUBERT E. INGALLS WINQ

HONORABLE FOUNDER

THOUGHT "BIG BERTHA" MIGHT BE SOME INTEREST FOR THE BOYS TO ROLL THEIR OWN. IT IS NOT TOO DIFFICULT TO CONSTRUCT A FULL GALLON. IT TOOK ME TWO YEARS TO BUILD MINE, IN EASY STAGES, WITHOUT ANY STRAIN.

OF COURSE ONE SHOULD NOT LEAN ALTOGETHER ON HAN BOOKS, BUT SHOULD ACQUIRE A COMPLETE SET OF RCA AND CE TECHNICAL BULLETINS. HOWEVER I BELIEVE THE WEST COAST HANDBOOK OFFERS BETTER INFORMATION TO THE BUILDER. I INCORPORATED SEVERAL FEATURES IN BIG BERTHA FOUND ONLY IN BC EQUIPMENT.

THE BIAS SUPPLY IS A HEAVY DUTY AFFAIR HAVING ISOLATING TUBES FOR THE DIFFERENT STAGES. I BUILT A MINIATURE OPEN WIRE LOW LOSS LINK LINE FROM 1PA TO SWINGING LINK IN FINAL GRIDS, WHICH SALVAGES MANY GRID MILLS. THIS SWINGING LINK ON FINAL GRIDS IS ACTUATED BY A WORM AND GEAR WHICH ALLOWS VERNIER CONTROL FROM FRONT OF PANEL.

THE VOLTAGE USED FOR AURAL MONITORING IS OBTAINED BY INSERTING A 50 OHM VARIABLE RESISTOR IN THE CENTER LEAD OF FILAMENT TRANSFORMER WHICH LIGHTS THE FINAL TUBES. THIS VOLTAGE IS IN THE ORDER OF 25 OR 30 VOLTS AND IS THEN FED TO A SMALL AUDIO TRANSFORMER AND THEN TO A PAIR OF HEAD PHONES. THE AUDIO TRANSFORMER OF COURSE SHOULD MATCH 25 OHMS TO 2,000 OHMS. IF THERE IS ANY HUM IN ANY TRANSMITTER, IT IS USUALLY MORE PRONOUNCED IN THE FILAMENT CIRCUITS.

I USED FOUR 2A3s IN PUSH PULL PARALLEL TO GIVE ME A SPEECH DRIVER OF 30 WATTS WHICH ALLOWS 100% MODULATION WITHOUT DISTORTION ON THE GRIDS OF THE 810s.

THE GAMMATRONS ARE OPERATED ON VERY HIGH BIAS, SLIGHTLY OVER 600 VOLTS, WHICH USES ONLY THE STRAIGHT PORTION OF THE CHARACTERISTIC CURVE; RESULT, NO SPLATTER OR INTERFERENCE TO ADJACENT STATIONS, WHICH IS EXTREMELY IMPORTANT WHEN RUNNING HIGH POWER.

NOW FOR SOME DON'TS.

DON'T USE ONE TRANS FORMER, NO MATTER HOW BIG, TO OPERATE THE FINAL AND THE CLASS "B" MODULATOR. ALWAYS USE A SEPARATE POWER SUPPLY TO RUN THE 1PA, OTHERWISE YOU WILL GET INTERACTION BETWEEN STAGES.

NEVER USE A SINGLE PAIR OF 6L6, 6B4, OR 2A3 TUBES IN YOUR SPEECH AMPLIFIER. THE BEST YOU CAN GET FROM THEM IS 15 WATTS OF UNDISTORTED POWER WHICH IS NOT ENOUGH TO DRIVE A 500 WATT MODULATOR 100% WITHOUT OPENING THE GAIN WIDE AND YELLING INTO THE MIKE, AND YOU KNOW WHAT HAPPENS THEN. IT IS MUCH BETTER TO HAVE 30 WATTS OF DRIVING POWER AND RUN THE GAIN AT HALF MAST AND THEN SPEAK IN A SOFT SOOTHING VOICE. HI!

IN SELECTING TUBES FINAL BE SURE TO SELECT ONES WITH AT LEAST A PLATE DISSIPATION RATING OF 150 WATTES, AND ALSO TUBES THAT WILL STAND THE HIGHEST POSSIBLE PLATE VOLTAGE. THE WITH HIGH PLATE VOLTAGE AND HIGH BIAS YOU CAN EXPECT TO GET HIGH EFFICIENCY IN THE ORDER OF 80% OR BETTER. WITH A FULL 1000 WATTS INPUT AND ALLOWING 200 WATTS HEAT LOSS ON THE PLATES OF YOUR TUBE, THEY ARE REALLY COASTING AT FULL GALLON INPUT.

JUST ONE MORE DON'T AND THEN I AM FINISHED. DON'T ATTEMPT TO VOLTAGE FEED ANY TYPE OF ANTENNA TUNING CONDENSERS WITH ONE INCH SPACING. DON'T GET AMBITIOUS AND BUILD A 75 METER RHOMBIC UNLESS YOU WANT TO WORK CHINA. I CONSTRUCTED ONE BACK IN 1947 THAT HAD TEN FULL WAVES AND FOUR TWO SECTION MASTS THAT WERE 90 FEET HIGH, BUT THAT IS ANOTHER STORY.

73 TO THE GANG,

BERT INGALLS WINQ

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THE BIG BERTHA OF WINQ



STUDIO "A"

THIS SHOT OF STUDIO "A" TAKEN IN THE FALL OF 1948 WHEN THE OLD OLD TIMERS CLUB WAS JUST A LITTLE BABY LEARNING TO CREEP. SURPRISING TO REALIZE THAT THE LETTLE FELLER HAS BECOME A BIG MAN IN SIXTEEN SHORT YEARS.

TRANSMITTER MEISSNER 150 B. INPUT 250 WATTS.

H.E.I. WINQ

THE FOLLOWING PAGES WILL BE DEVOTED TO PICTURES SENT IN BY WINQ AND PERTAINING TO BIG BERTH AND TO A $1\frac{1}{2}$ K.W. SPARK TRANSMITTER THAT WAS DONATED TO THE OLD OLD TIMERS CLUB BY THE NEWPORT, RHODE ISLAND HISTORICAL SOCIETY, MR. HERBERT O. BRIGHAM, RECORDING SECRETARY AND LIBRARIAN.

THE BIG BERTHA OF WINQ



REPRESENTING 50 YEARS OF PROGRESS IN HAM RADIO

"BIG BERTHA" (CAPABLE OF 1500 WATTS INPUT TO A DUMMY ANTENNA). PAIR OF GAMMATRONS IN THE FINAL WITH 3000 VOLTS ON THE PLATES. PAIR OF 810s IN CLASS "B" MODULATOR WITH 2500 VOLTS ON PLATES. HAS EIGHT INDEPENDENT POWER SUPPLIES INCLUDING ALL VOLTAGES NECESSARY FOR BOTH VISUAL AND AURAL MONITORING. RELAYS: OVERLOAD, UNDERLOAD, KEYING AND ANTENNA. BLOWER ON THE HK 354 C TUBES AND BLOWER ON 810s. NINETEEN G.E. METERS (INCLUDING THREE ON VFO AND SPEECH DRIVER IN CONSOLE, NOT SHOWN). A 1 K.W. VARIAC DROPS THE CLASS "B" VOLTAGE DOWN TO 1500 VOLTS IN ORDER TO MATCH ANY REDUCED INPUT TO THE FINAL, DOWN TO 300 WATTS. TURRET BAND SWITCHING THE FIRST AND SECOND BUFFER DOUBLERS. METER SWITCHING ON ALL HIGH VOLTAGES, MAIN FILAMENTS AND ON ALL BIAS VOLTAGES WHILE THE TRANSMITTER IS RUNNING. TWO GRID METERS ON THE FINAL TO REGULATE THE DRIVE FROM THE IPA. AUTO TRANSFORMER TO REGULATE ALL FILAMENT VOLTAGES.

WINQ

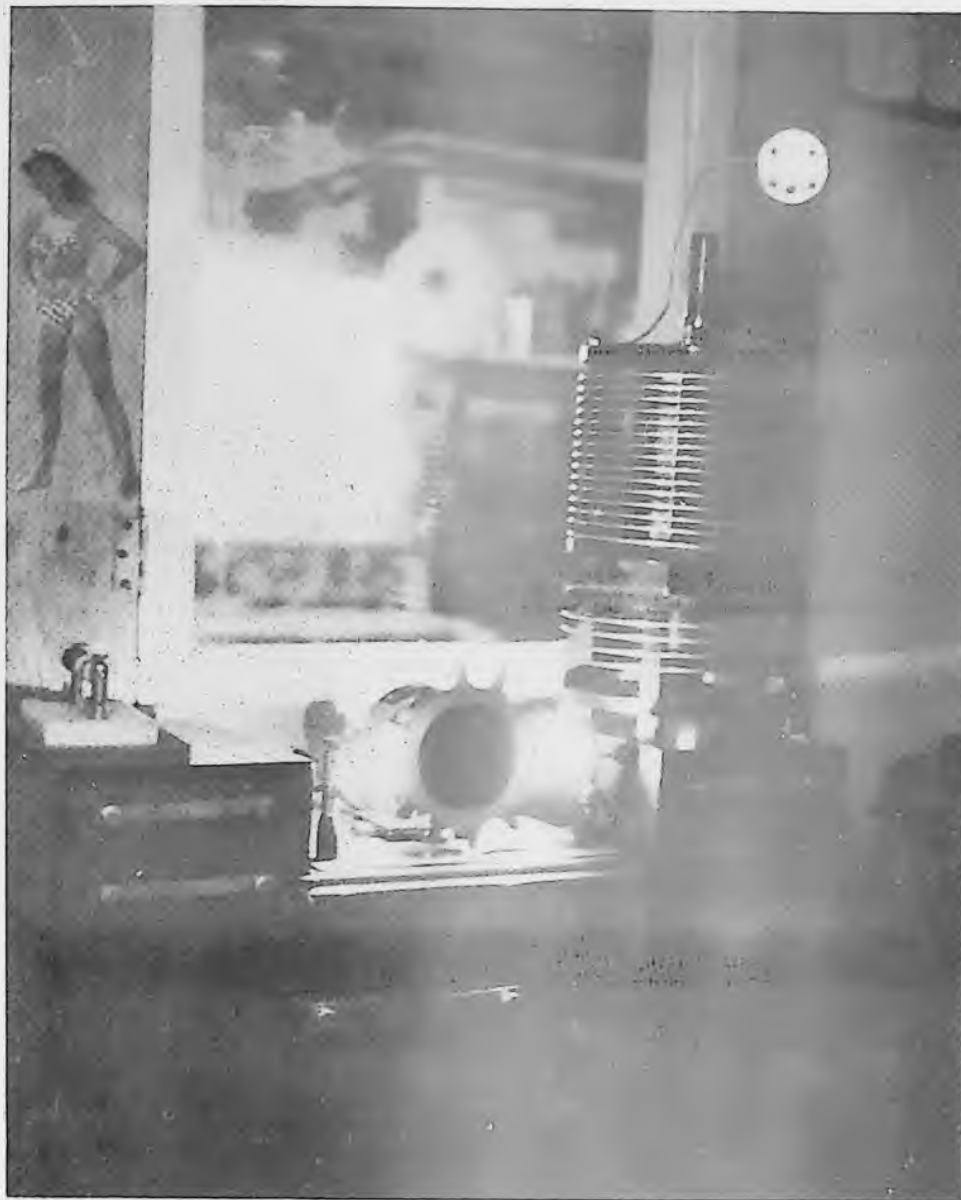
THE BIG BERTHA OF WINQ

1½ K.W. SPARK TRANSMITTER VINTAGE OF 1912

DONATED TO THE OLD OLD TIMERS CLUB ON OCTOBER 4, 1951 BY THE NEWPORT RHODE ISLAND HISTORICAL SOCIETY, MR. HERBERT O. BRIGHAM, RECORDING SECRETARY AND LIBRARIAN.

THIS SHOT SHOWS THE COFFIN WHICH ENCLOSED THE OPEN CORE TRANSFORMER WITH TRIPLE ADJUSTABLE VIBRATOR ON RIGHT END, USED WHEN EMPLOYING DIRECT CURRENT. OF COURSE A.C. IS APPLIED DIRECT TO PRIMARY WINDINGS, AS SHOWN BY TWO WHITE LEADS IN CENTER. TWO MAHOGANY CASES ON EITHER SIDE OF ROTARY SPARK GAP CONTAIN GLASS PLATE CONDENSERS IMMERSSED IN PARAFFIN. ONE FOR THE CLOSED AND THE OTHER FOR THE OPEN OSCILLATORY CIRCUITS. FIXED SPARK GAP WITH COOLING FINS IS ON TOP OF LEFT HAND CONDENSER. NOTICE SAFETY GAP ACROSS HIGH VOLTAGE SECONDARY TERMINALS. HELIX WAS THE LATEST INDUCTIVE TYPE.

1½ K.W. SPARK TRANSMITTER VINTAGE OF 1912



ON THIS SHOT OF THE OLD OLD TIMER, THE LIGHT WAS PURPOSELY REDUCED IN ORDER TO ACCENTUATE THE 1500 WATTS OF POWER FLASHING ACROSS THE ROTARY GAP. THIS PHOTO ALSO SHOWS THE ANCHOR GAP MORE PROMINENTLY.

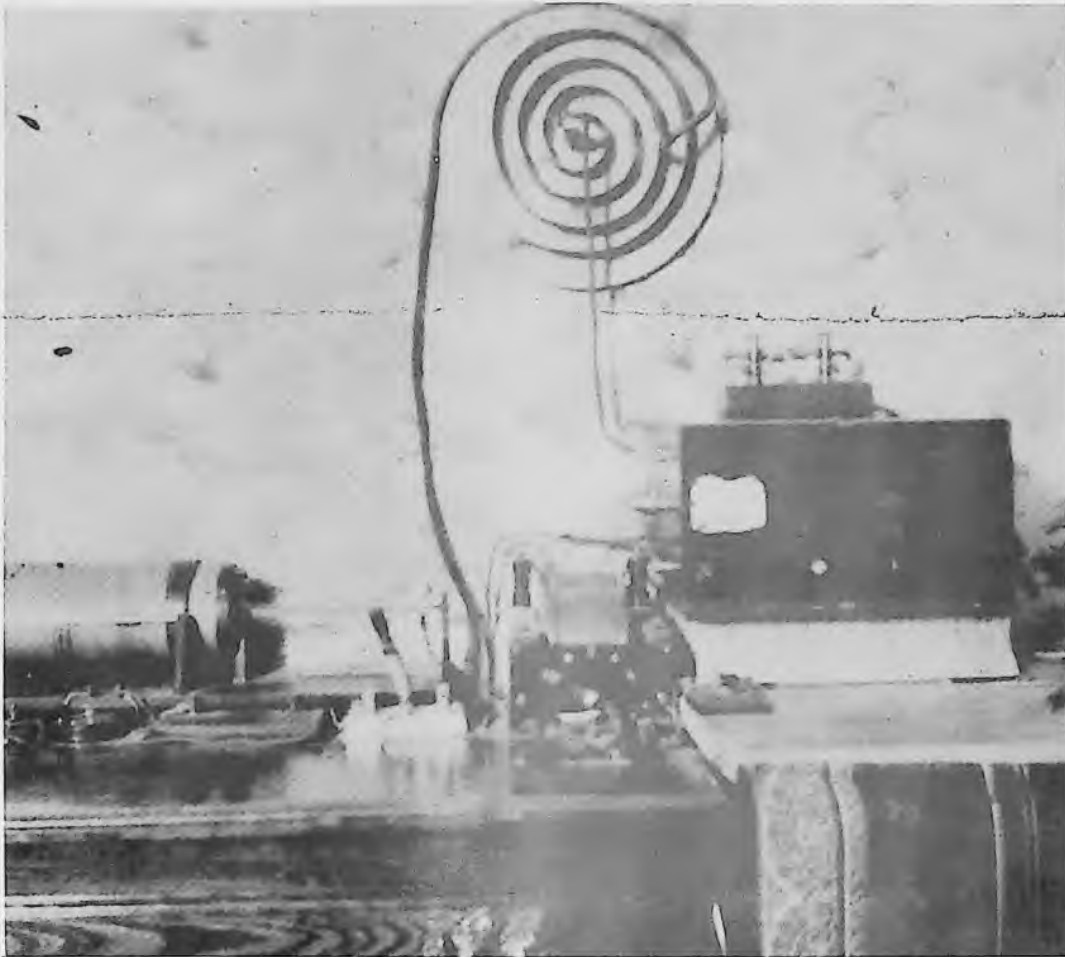
NO ANTENNA WIRE WAS CONNECTED TO TOP OF HELIX WHEN THIS PICTURE WAS BEING TAKEN. H! ALTHOUGH THE PUNGENT ODOR OF OZONE WAS QUITE APPARENT IN "STUDIO B."

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"MS" 1909 (WIGV)



THE ABOVE PICTURE WAS SENT IN BY WIGV MY OLS FRIEND MALCOLM SMITH. MALCOLM SEEMS TO HAVE AN INTENSE AVERSION TO WRITING AND FOR THAT REASON NO WRITTEN DESCRIPTION IS AVAILABLE. TO MOST OF OUR MEMBERS A DESCRIPTION WILL NOT BE NECESSARY. THANKS SMITTY.

YE OLDE COPPYE BOYE

NEAR THE END OF THE QUESTION AND ANSWER PERIOD OF AN OIL COMPANY'S ANNUAL STOCKHOLDERS' MEETING, ONE OF THE LADIES PRESENT RAISED HER HAND, "MR. CHAIRMAN," SHE VENTURED TIMIDLY, "ONE THING HAS ALWAYS BOTHERED ME EVER SINCE I BOUGHT STOCK IN THIS COMPANY. WHEN YOU BUILD A NEW GAS STATION ON A STREET CORNER, HOW DO YOU KNOW YOU'LL FIND OIL THERE?"

TWO NURSES WERE WEARILY FOLDING DIAPERS IN THE MATERNITY WARD. "YOU KNOW," ONE OBSERVED, LOOKING OVER THE ROOM OF SQALLING INFANTS, I JUST CAN'T BELIEVE THEY'RE ONLY 80% WATER."

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1608 HIXON PIKE
CHATTANOOGA, TENN.
NOVEMBER 18, 1963

DEAR OLD OLD TIMERS:

I DEEPLY APPRECIATE THE HONOR YOU HAVE BESTOWED UPON ME BY ELECTING ME YOUR PRESIDENT FOR THE NEXT TWO YEARS. I SHALL DO MY BEST TO FILL THE JOB BUT IT WILL BE A VERY DIFFICULT MATTER TO FILL CLINE'S SHOES, EVEN THOUGH I HAVE A SIZE 13 FOOT.

IT IS MY SINCERE HOPE THAT I MAY HAVE THE SAME FINE COOPERATION FROM THE OTHER OFFICERS AND MEMBERS THAT YOU HAVE SHOWN IN THE PAST. I EXTEND MY FELICITATIONS AND BEST WISHES TO THE OTHER OFFICERS WHO HAVE BEEN ELECTED WITH ME, EARL C. WILLIAMS, W2EG; AND PERLEY B. DUNN, W6WPF. AS SECRETARY-TREASURER, EARL IS PRICELESS AND IT IS MY HOPE THAT HE WILL GO ON FOREVER. AS VICE-PRESIDENT AND AWARDS CHAIRMAN, PERLEY SHOULD BE THE BEST EVER.

I ALSO HOPE THAT THE MEMBERS WHO HAVE APPOINTMENTS WILL CONTINUE IN THEM AND DO THE SAME FINE WORK THAT HAS BEEN DONE IN THE PAST: CLINE, W4PPZ, EDITOR OF S.G.T; ED RASER, W2ZI, HISTORIAN; ROY ARMSTRONG, W5RIH, NET MANAGER; WILLIAM MCKEE, WIKC, MEMBERSHIP AND PUBLICITY.

WE ARE TRYING TO GET SOME RELIEF FOR EARL WILLIAMS FOR HIS ARDUOUS DUTIES OF MAILING, MEMBERSHIP APPLICATIONS, BLUE BOOKS, SPARK GAP TIMES, ETC., ETC. WALLACE LELAND, W2WL, HAS TAKEN ON THE JOB OF GETTING OUT A 1964 ROSTER. ANYONE WISHING TO BE MAILING CHAIRMAN OR ASSISTANT SECRETARY WILL PLEASE COMMUNICATE WITH EARL CLINE OR ME.

WISHING ALL MEMBERS OF OOTC A MERRY CHRISTMAS AND A HAPPY AND HEALTHY NEW YEAR.

WITH 73's,

BERT OSBORNE, W4MF
PRESIDENT ELECT.

IN HIS FIRST LETTER TO OOTC MEMBERS AS PRESIDENT ELECT, BERT HAS CONFIDENTLY REQUESTED THE FULL COOPERATION OF ALL HANDS. LET ME ADD MY APPEAL ALSO TO BERT'S FOR THE SUPPORT THAT HE NEEDS TO CARRY OUT THE THE PROGRAMS FOR WHICH HE WILL BE RESPONSIBLE.

IN THE OCTOBER ISSUE OF SPARK GAP TIMES, THE WRITER REQUESTED THAT MEMBERS LIST THEIR CAPABILITIES FOR VOLUNTEER WORK IN MAKING THE OLD OLD TIMERS CLUB INTO THE ORGANIZATION CONCEIVED BY THE FOUNDERS. THERE WERE VERY FEW RESPONSES. COME ON FELLOWS! GET THE LEAD OUT AND GIVE BERT A ROUSING START. THANKS GENTLEMEN.

EARL E. CLINE SR. W4PPZ
PRESIDENT.

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Earl E. Cline, W4PPZ.
President Emeritus - WOTC
Founder And Editor Of
Spark-Gap Times.
"Ye Olde Coppinge Boye!"

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No. 1 IRVING VERMILYA WIZE

FIRST PRESIDENT OF OOTC

----- FIRST 2-WAY WIRELESS CONTACT 1901 -----

