

SUPER POWER

TRANSMITTERS / SYSTEMS

Continental Electronics

FACTS - CAPABILITIES



SUPER POWER TRANSMITTERS ENGINEERING RESEARCH & DEVELOPMENT MANUFACTURING SYSTEMS

TABLE OF CONTENTS

VLF	2 & 3
LF	4 & 5
MF	6 & 7
HF	8 & 9
VHF	10 & 11
UHF	12 & 13
COMMUNICATIONS	14 & 15
RADAR	16 & 17
SPECIAL APPLICATIONS	18 & 19
SPECIAL COMPONENTS	20 & 21
ENGINEERING	22 & 23
ENGINEERING FACILITIES	24 & 25
RESEARCH & DEVELOPMENT	26 & 27
MANUFACTURING/PRODUCTION	28 & 29
ADMINISTRATION	30 & 31
SYSTEMS	32, 33 & 34
LING-TEMCO-VOUGHT, INC.	35

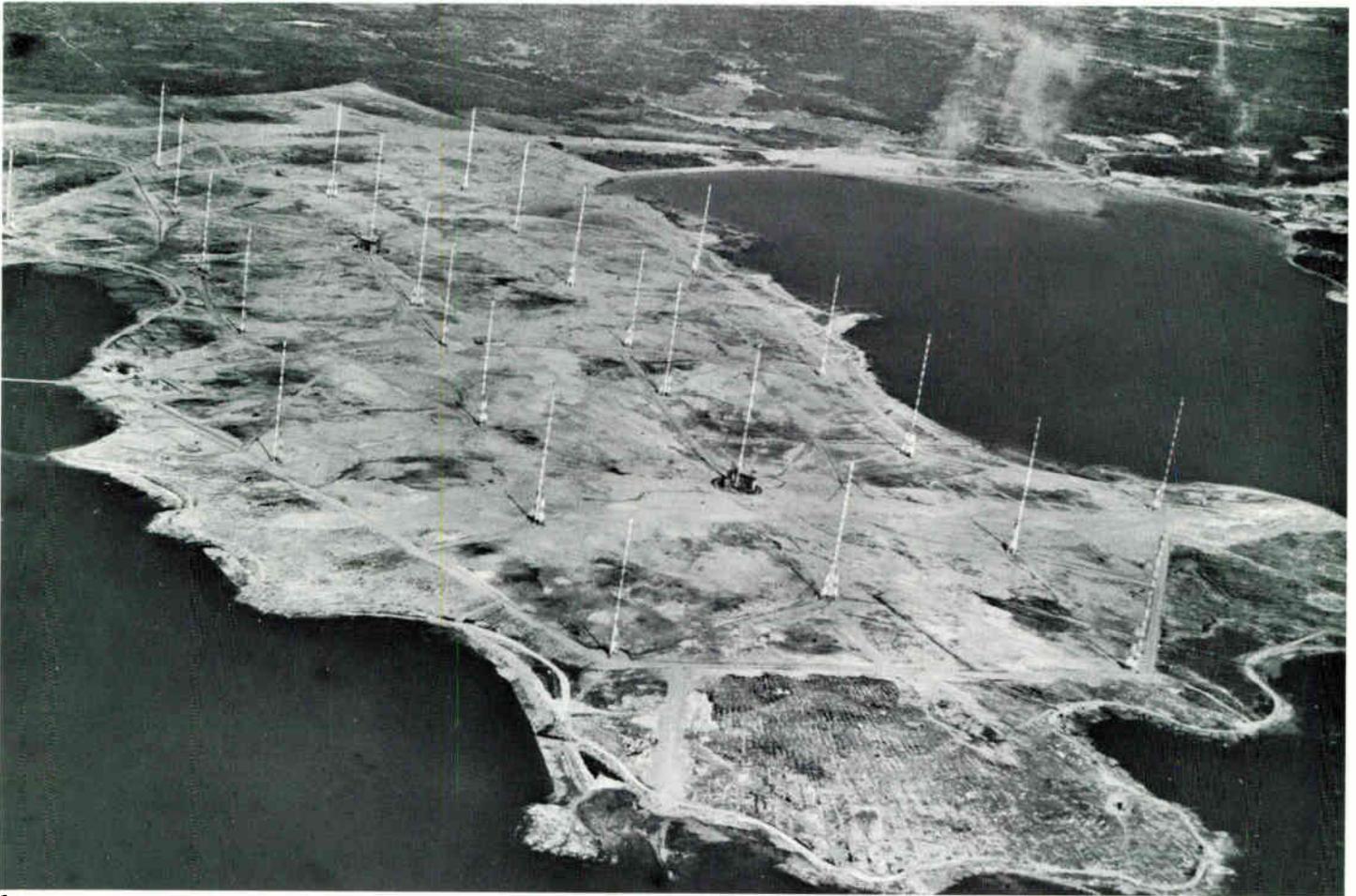
INTRODUCTION Continental Electronics specializes in **super power** transmitters: those with a tremendous force of radio-frequency energy powerful enough to bounce signals off distant planets and the sun . . . mighty enough to override any natural interferences and smash through bar-rages of violent jamming . . . to "see" enemy missiles as they rise from launching pads half a world away . . . to communicate directly with submerged submarines at the distant poles.

These smashing power capabilities have produced radio-frequency driver systems for atomic research . . . marketed a complete line of broadcast transmitters and related equipment which sets the industry standard in design and performance . . . developed and produced totally new specialized electronic components.

Continental Electronics is dedicated to the design, development, manufacture and installation of the world's most powerful transmitters and most reliable broadcast equipment.

Continental Electronics





2

1

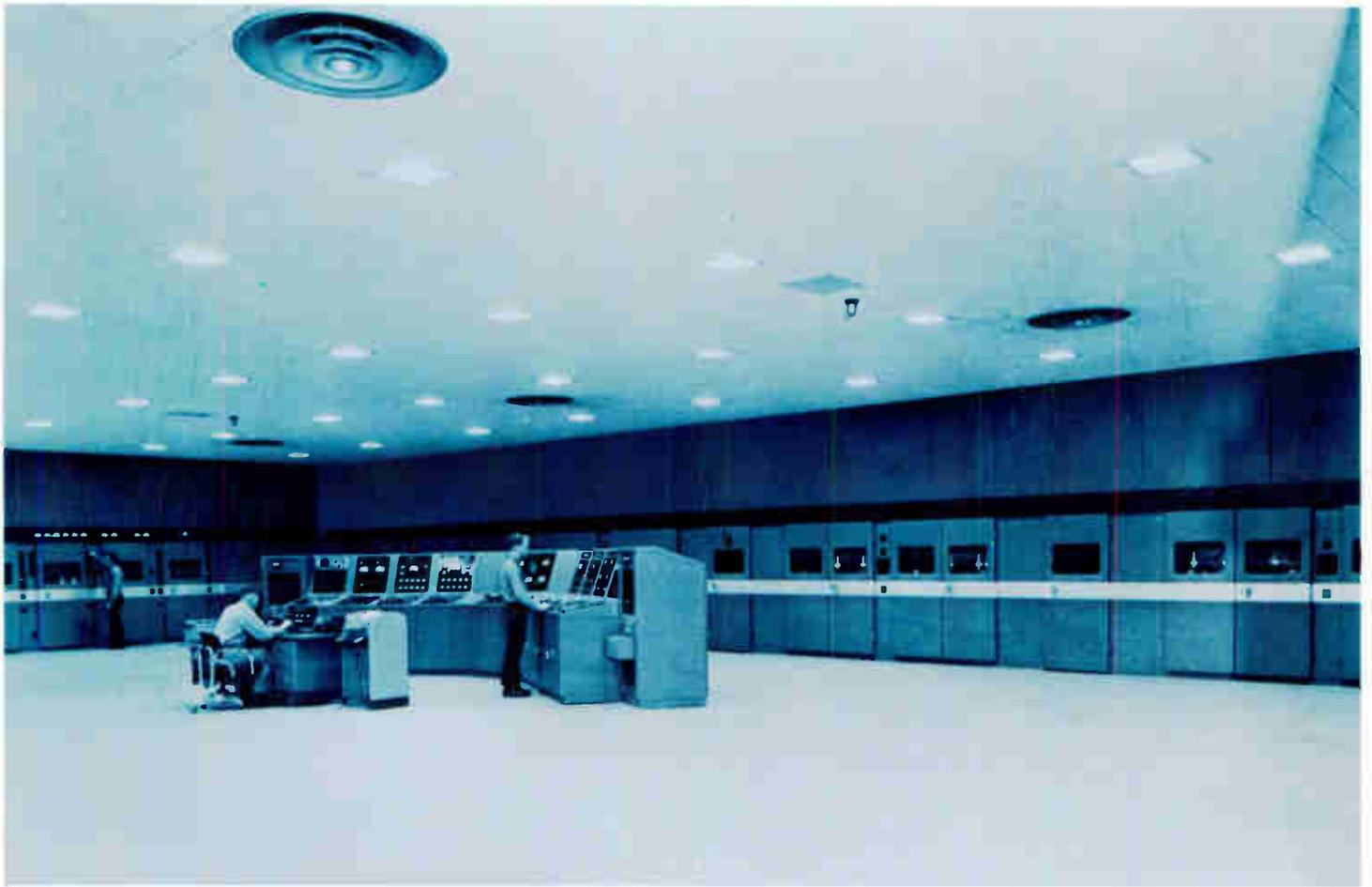
VLF

WORLD'S MOST POWERFUL TRANSMITTER: U. S. NAVY 2,000,000 WATT VLF TRANSMITTER Completely operational one year ahead of schedule, the Navy's gigantic transmitting facility near Cutler, Maine, was designed, built and installed under the supervision of Continental Electronics prime contractor for the entire project.

This — the world's most powerful radio facility — can transmit to the fleet including the Polaris FBM system and other craft, even to submerged submarines. The **super power** of two million watts Very Low Frequency enables these submarines to receive communications without surfacing or revealing their positions.

1/ Covering 2,800 acres (an area greater than 24 Pentagon buildings) the transmitter has two identical antenna arrays with center towers nearly as high as the Empire State building. The system blankets a two-square mile area utilizing 26 steel towers ranging from 800 to 1,000 feet in height.

2/ Control console and portion of the 2,000,000 watt VLF transmitter which propagates along the curvature of the earth instead of bouncing off the ionosphere . . . thereby eliminating dead communication areas and skip distances. Other Continental Electronics projects similar to this powerful and reliable Naval voice of command: engineering and installation of the NATO 600,000 watt VLF transmitter in England and engineering for the new U. S. Navy Pacific VLF facility.



2

3





1

4

LF

WORLD'S MOST POWERFUL LOW FREQUENCY BROADCAST TRANSMITTER SMASHES THE TRUTH THROUGH THE IRON CURTAIN WITH THE POWER OF 1,000,000 WATTS! In the continuing cold war between West and East, one of the most powerful weapons the United States has is the Voice of America program of weekly broadcasts. Translated into 36 languages and beamed throughout the world, it is virtually the only means of getting the truth to millions behind the iron curtain.

Continental Electronics plays a key role in this program by providing all the **super power** Voice of America transmitters that smash through enemy attempts to jam or drown-out these broadcasts.

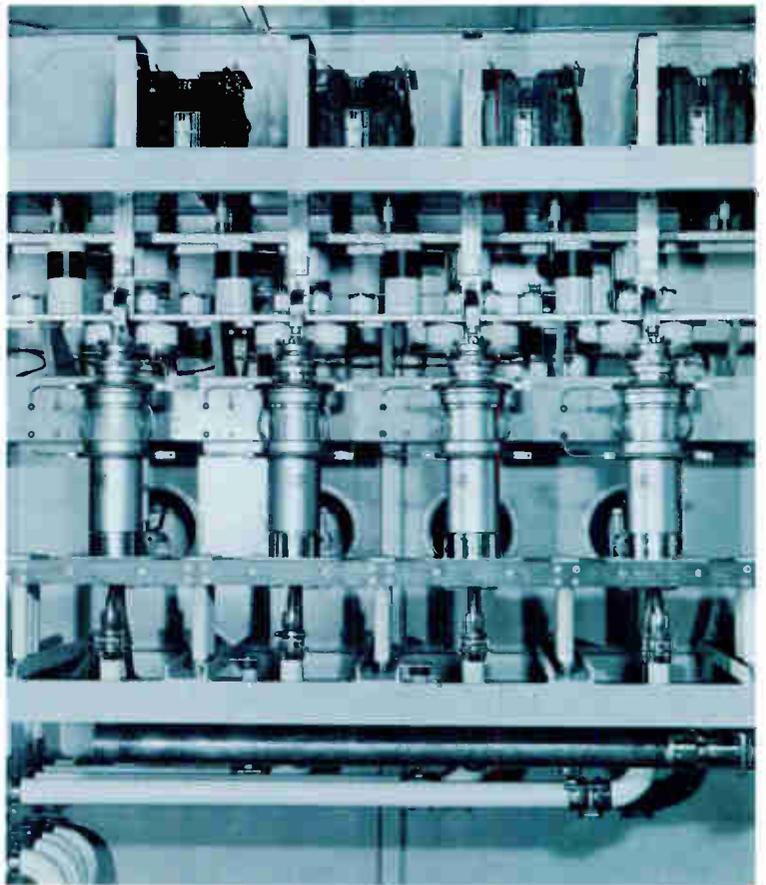
1/ Continental Electronics designed and built the first super power transmitter for the Voice of America. Delivering one million watts of continuous power to the antenna, it overrides natural disturbances and smashes crisply and cleanly through jamming attempts. Operating on a frequency of 173 kilocycles, it is the most powerful Low Frequency broadcast transmitter in the world. It was installed at Munich in 1953.

2/ Portion of Munich VOA transmitter, console and control panel. All transmitter metering, tuning and power controls are centralized in this console type unit. Similar Continental Electronics MF 1,000,000 watt Type 323B VOA transmitters were installed at Okinawa and Manila in 1953.

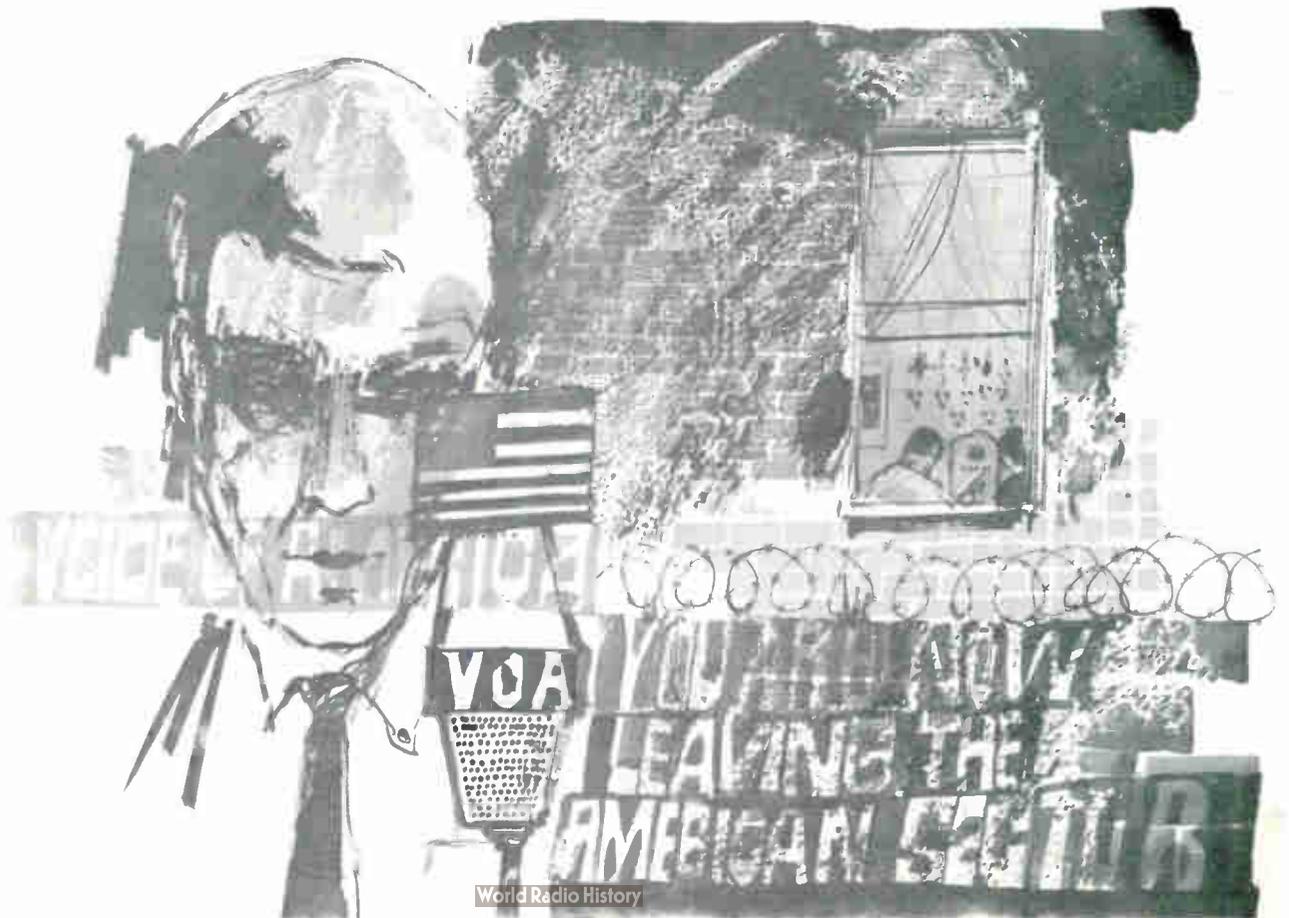
3/ Portion of power amplifier section showing four of the 18 Type ML-5682 tubes used in the Munich transmitter. Each tube is capable of dissipating 100 kw.



2



3





1



2

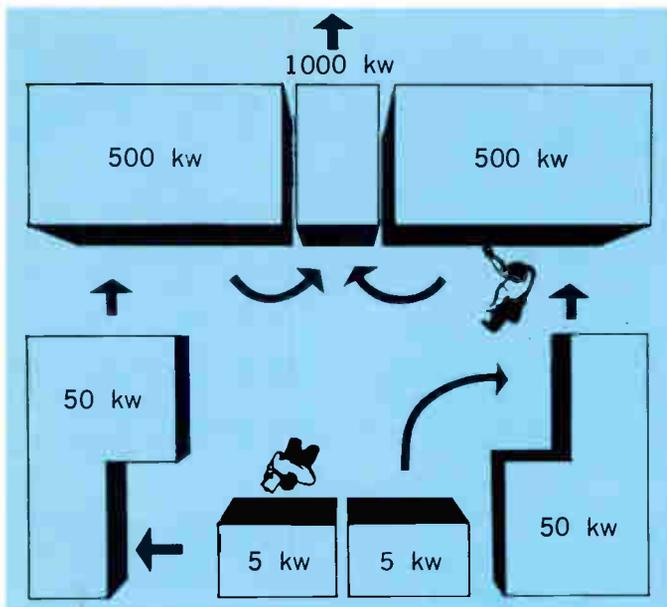


4



5

6



3

MF

Continental's unique experience in **super power** transmitters has been incorporated in the development of a full line of AM broadcast transmitters in powers ranging from 250 watts to 1,000,000 watts. Utilizing techniques and components used in the big **super power** equipment, Continental transmitters offer advanced design, and unmatched performance coupled with superb reliability to broadcasters throughout the world.

1/ WOR, New York installed a Continental 50,000 watt and a 10,000 watt AM transmitter in 1960. Transmitters are controlled by Continental's Transmitter Remote Control System.

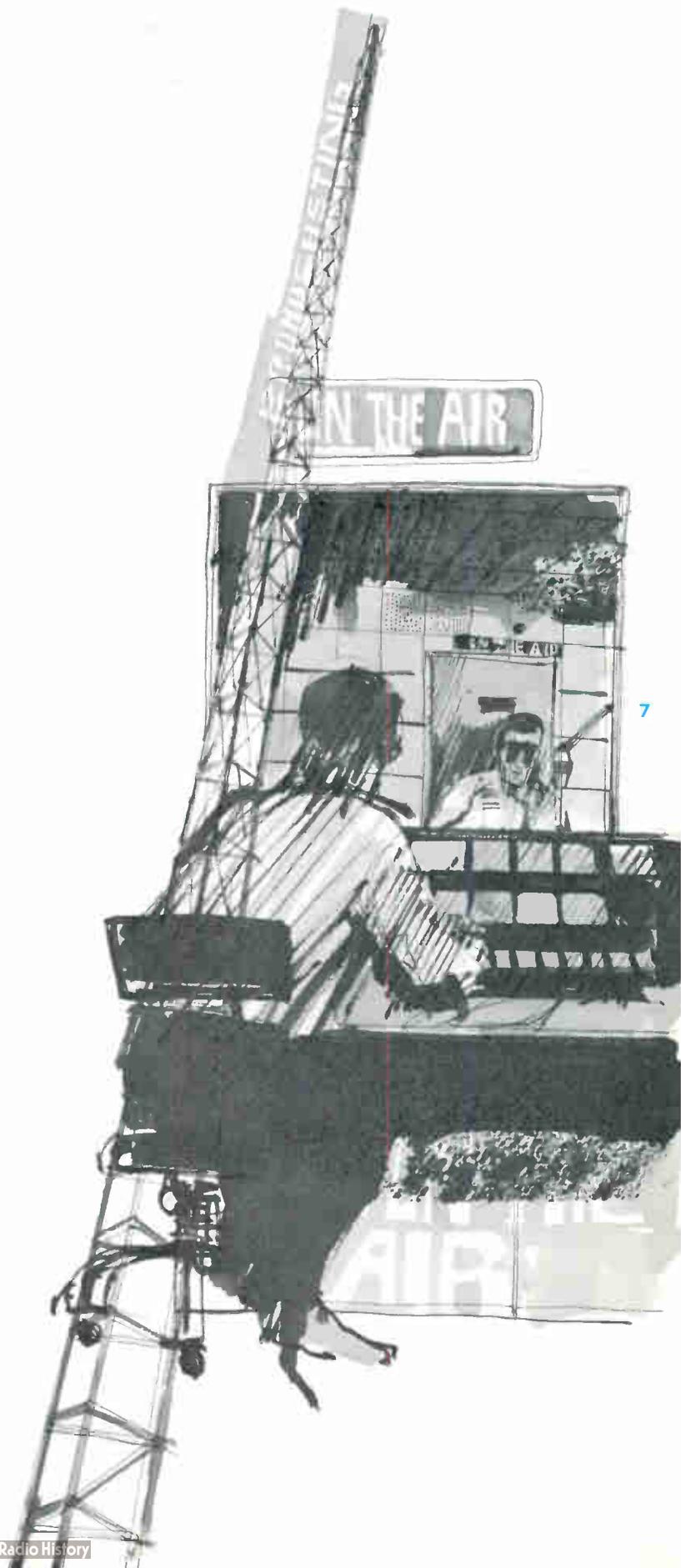
2/ KVOO, Tulsa installed a Continental 50,000 watt and 5,000 watt AM broadcast transmitter, and two Continental Transmitter Remote Control Systems in 1961.

3/ Diagram shows Continental's unique power increase capabilities in AM broadcast transmitters. The 5,000 watt MF transmitter can be increased in power stages all the way up to 1,000,000 watts by simply adding power groups as shown.

4/ KFI, Los Angeles installed Continental's 50,000 watt and 10,000 watt AM transmitters, plus Continental's Transmitter Remote Control System in 1959.

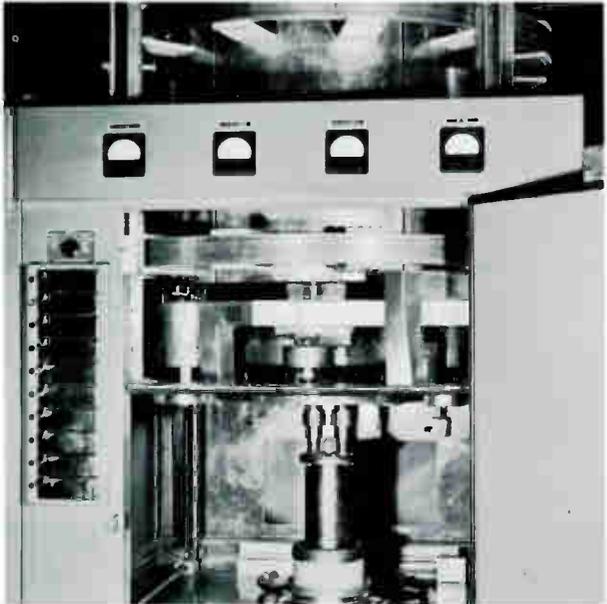
5/ CKWX, Vancouver, B. C., installed a Continental 50,000 watt transmitter in 1957.

In addition to the above installations, Continental has installed 10 50,000 watt transmitters, 81 5,000/10,000 watt transmitters and other lower power transmitters through 1961.

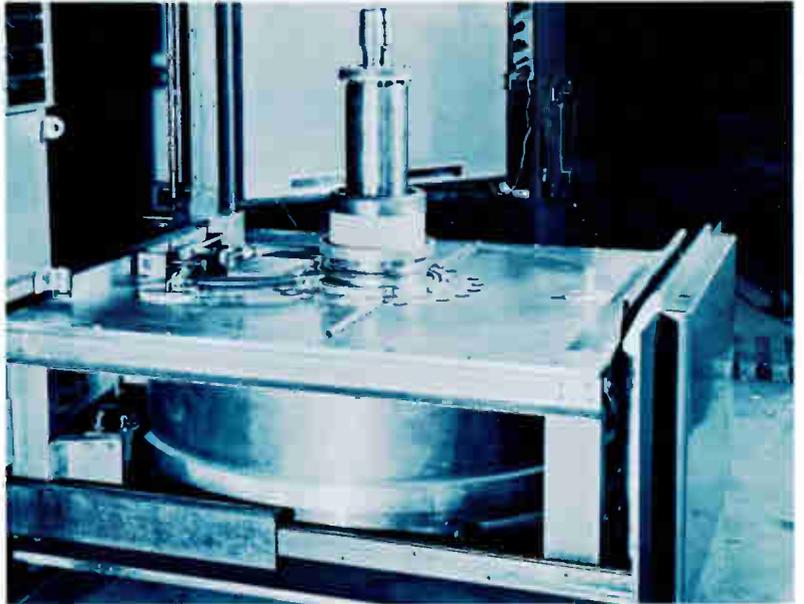




1



2



3

HF

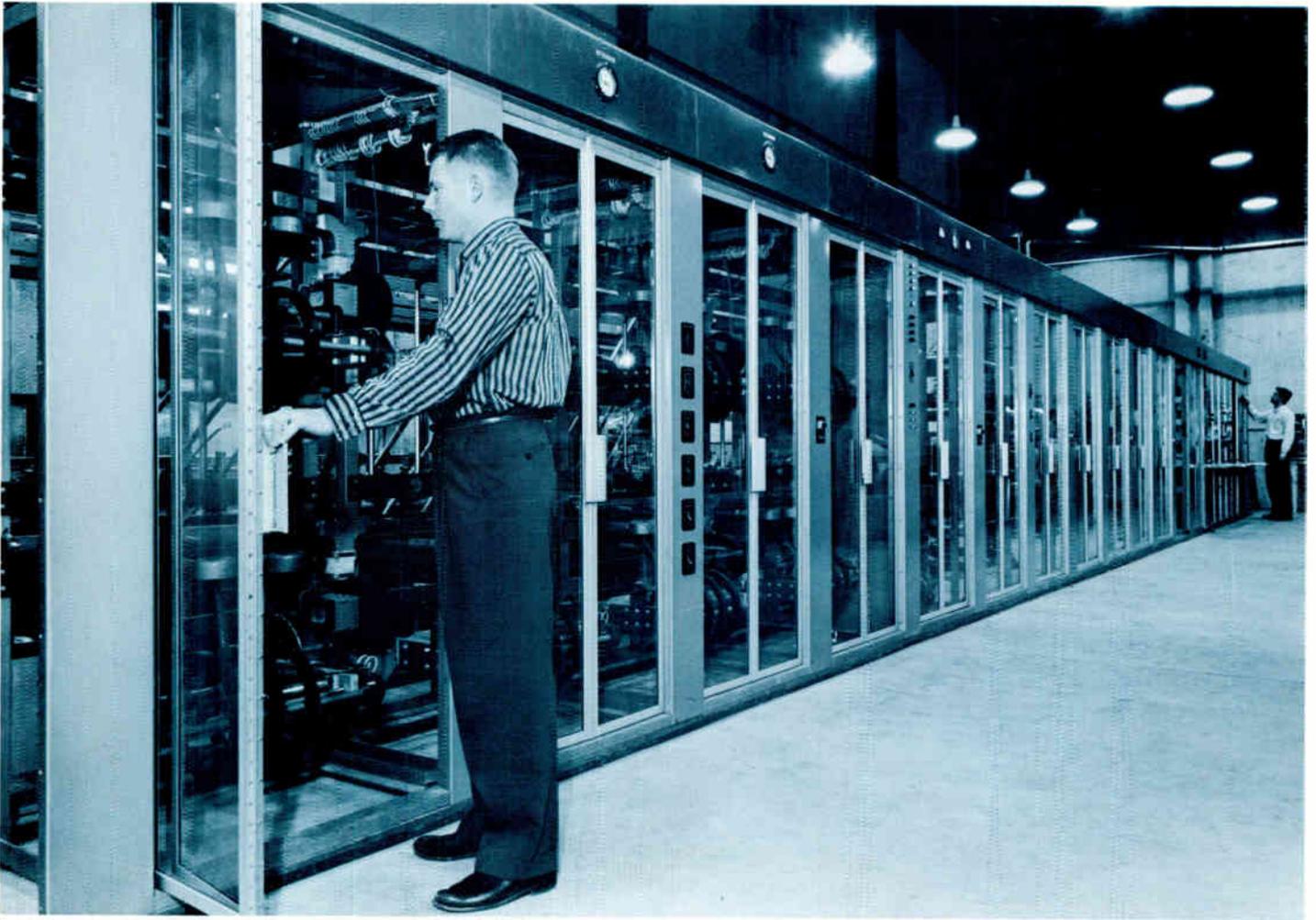
WORLD'S MOST POWERFUL HF TRANSMITTER This super power "World Spanner" can beam messages anywhere on earth. When used in conjunction with a high-gain directional beam antenna system, it can produce a maximum effective radiated power of 12,000,000 watts. Continental designed and manufactured this powerful transmitter under a U. S. Army Signal Corps developmental contract.

1/ Powerful enough to override natural disturbances and enemy jamming attempts, the transmitter generates 600,000 watts peak envelope power or 300,000 watts average power. It uses single sideband (SSB), independent sideband (ISB), frequency modulation (FM), or frequency-shift keyed (FSK) emission. The single sideband signals are a minimum of eight times more effective than signals employing conventional types of modulation.

2/ The AN/FRT-33 super power transmitter features continuous range servo tuning of all circuit elements over the frequency range between 4 and 30 megacycles, and has 10 channel pre-selection capabilities.

3/ Amplifier is opened by motor elevation of the plate section: a sliding drawer grid section facilitates removal of amplifier tube.





1

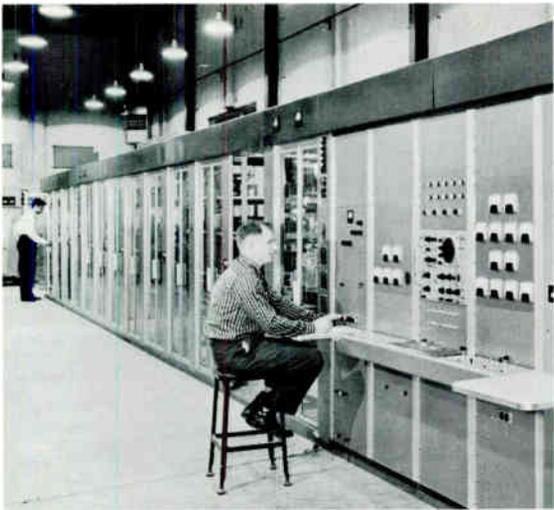
VHF

RADIO FREQUENCY DRIVER SYSTEM SPEEDS ATOMIC PARTICLES ON COLLISION COURSE FOR ATOMIC RESEARCH The Argonne National Laboratory proton synchrotron can accelerate protons to an energy of 12.5 billion electron volts, enabling atomic research scientists to experiment with known phenomena and discover new phenomena that occur when protons of high energy collide with other protons at rest. These collisions usually result in the production of rare, short-lived particles; some with a life span of one ten-thousandth of a millionth of a second.

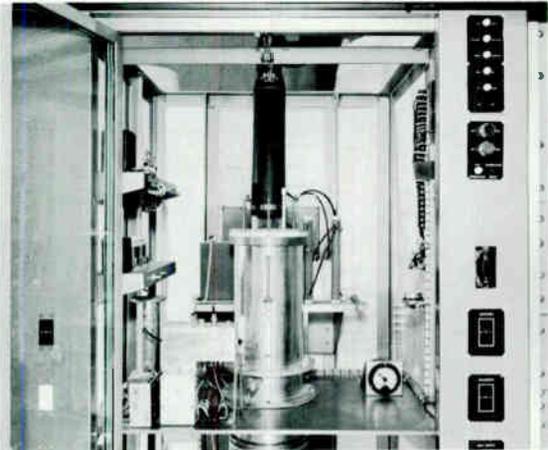
1/ Portion of 50 kv dc power supply and voltage rectifier shown just prior to factory test.

2/ Continental's radio frequency driver system for the linear accelerator injector used in the Argonne proton synchrotron has a peak power of 5,000,000 watts with an average power of 25 kilowatts; at a frequency of 200 megacycles with a 500 micro-second pulse.

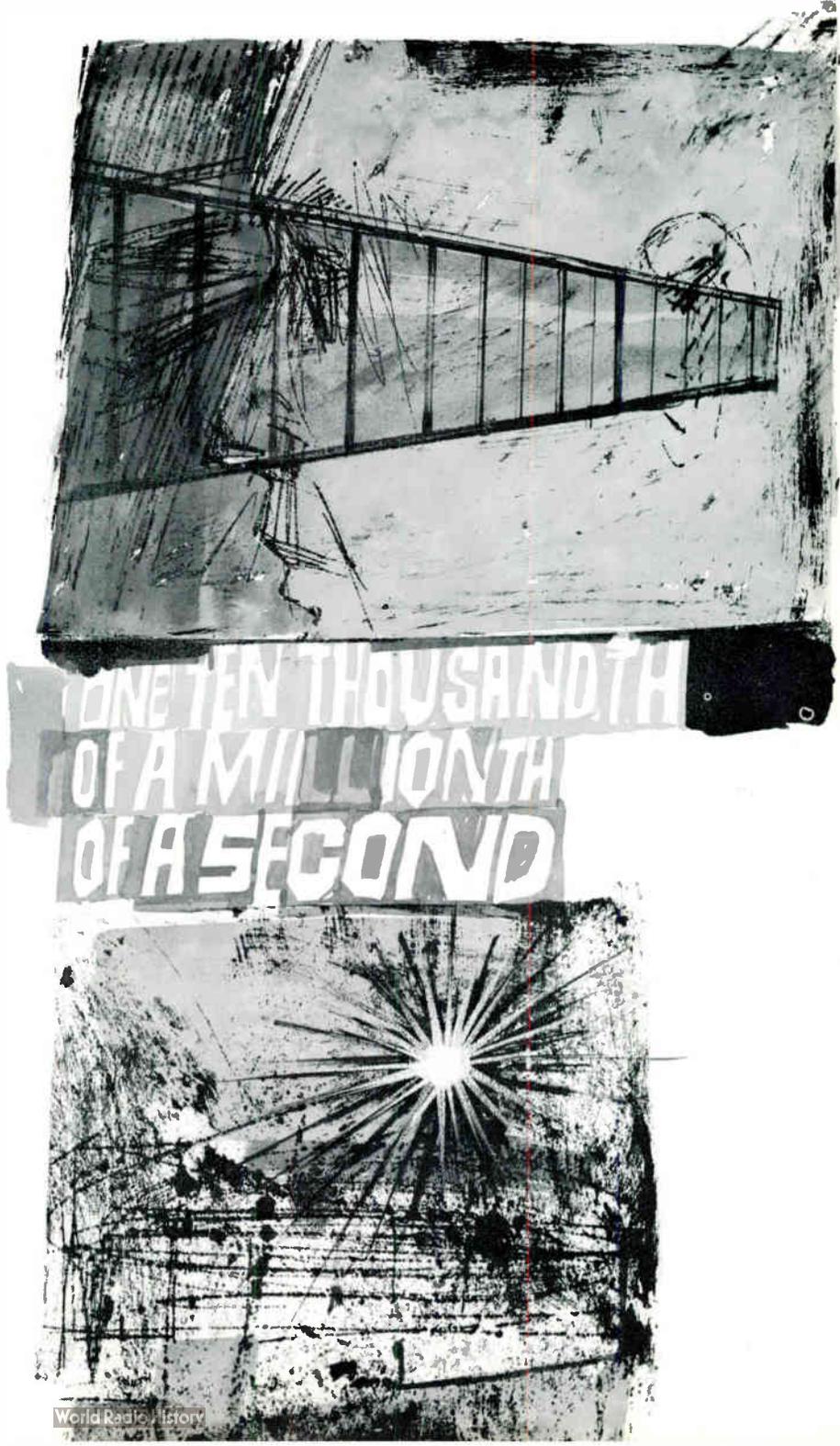
3/ View of partially completed intermediate power amplifier. Amplifier has peak power of 16 kw.



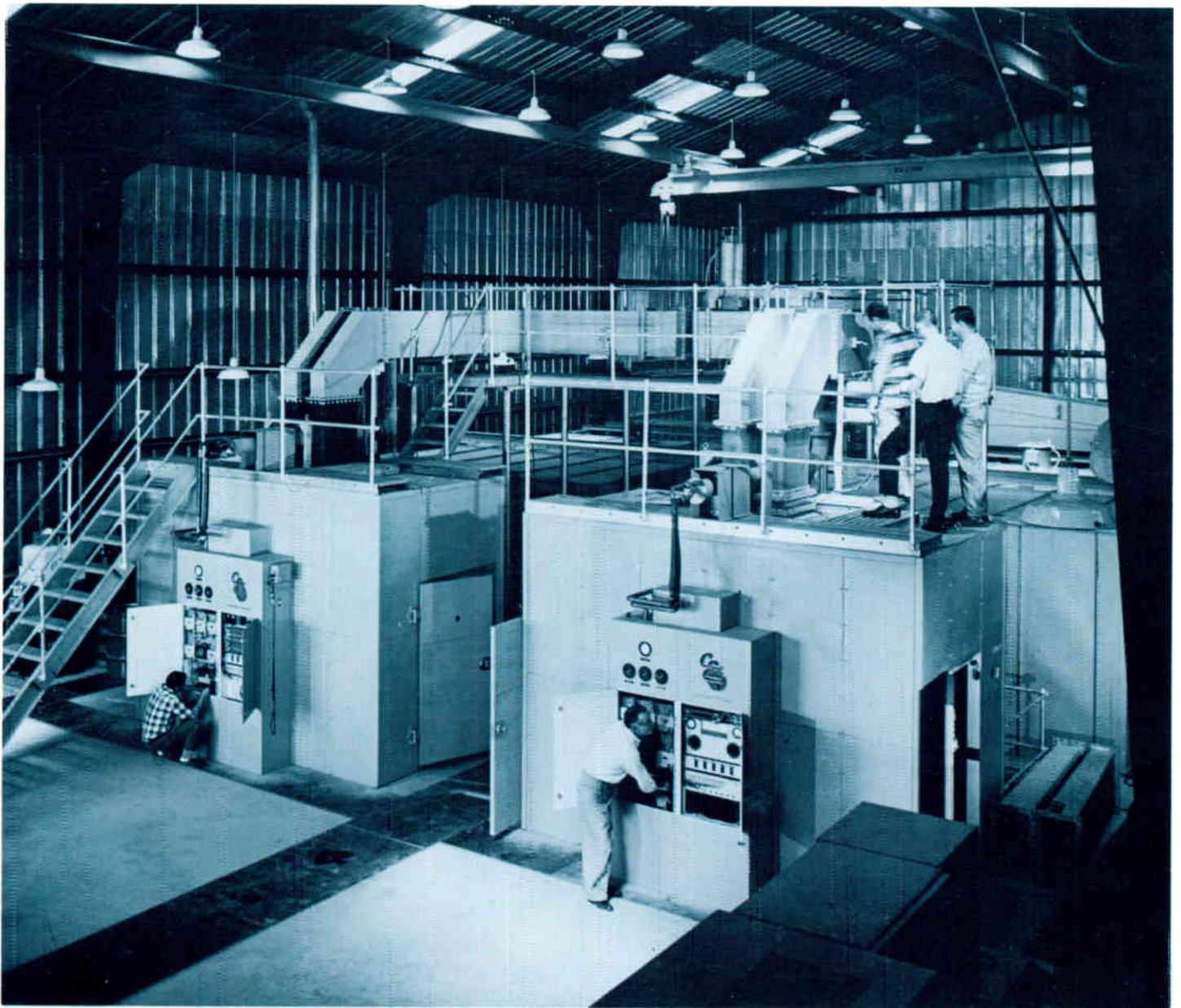
2



3



FIFTEEN THOUSANDTH
OF A MILLIONTH
OF A SECOND



UHF

SUPER POWER RADAR TRANSMITTERS FOR BMEWS

The Ballistic Missile Early Warning System is the free world's first warning of enemy ICBM attack. Super power radars, with an accurate range of thousands of miles, can detect incoming ICBMs moments after launching.

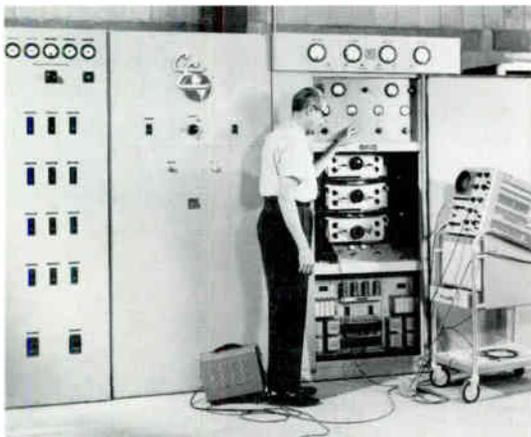
1/ Continental Electronics has delivered all transmitters for both surveillance and tracking radars to the three BMEWS installations: Thule, Greenland; Clear, Alaska; Fylingdales Moor, England.

2/ Serving what is described by the Air Force as, "the world's most powerful operational radar," the Continental AN/FPT-7 transmitters use specially-developed klystron tubes to produce multi-megawatt radar signals.

3/ Portion of Continental's AN/FPT-7 undergoing factory test.



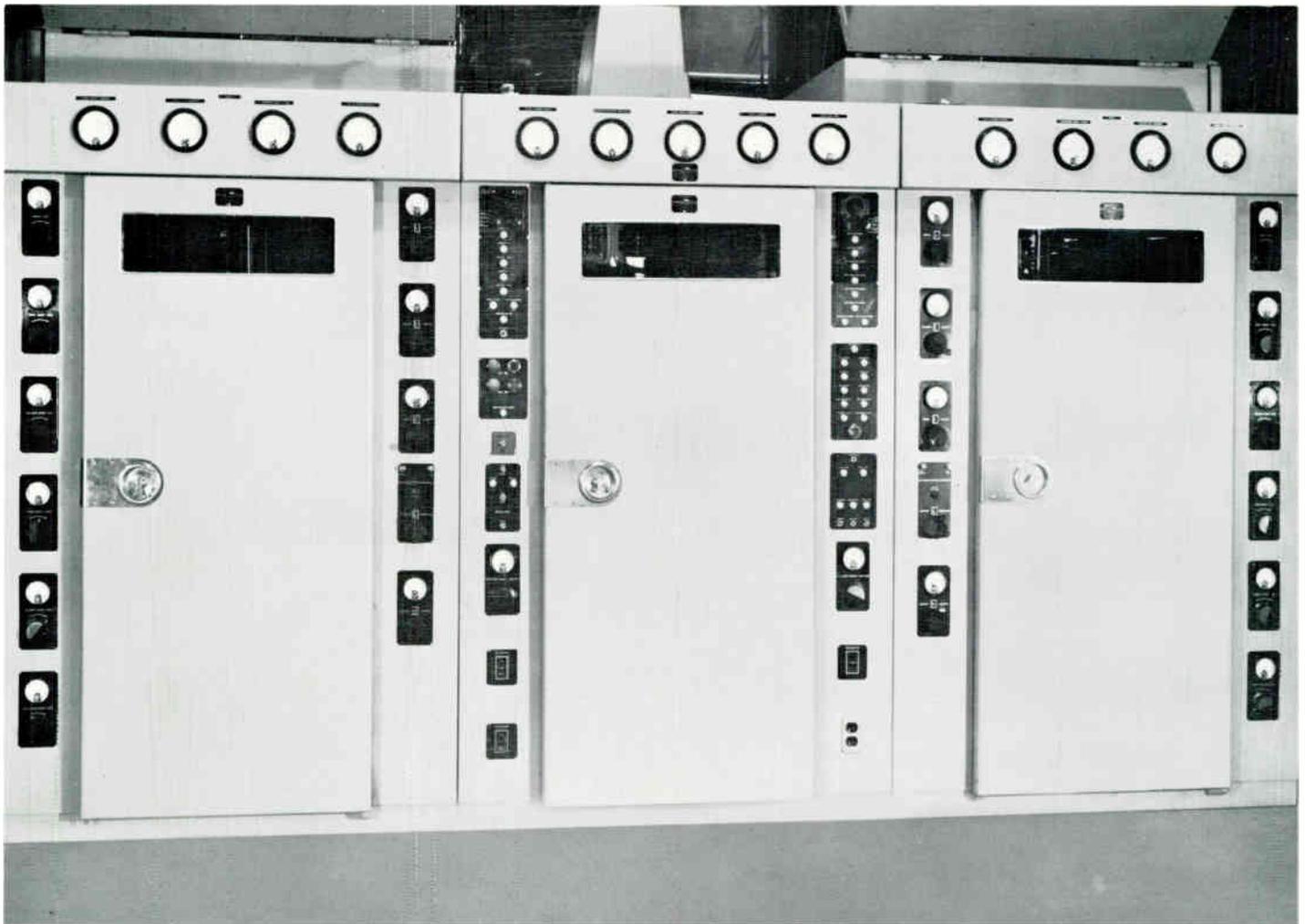
2



3

13





14

1

COMMUNICATIONS

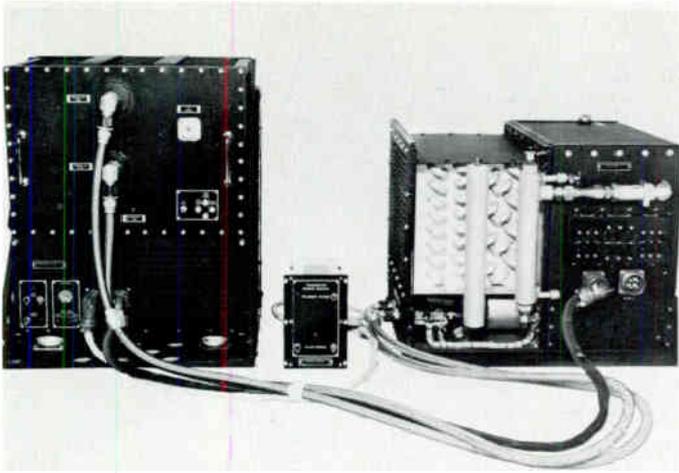
Continental Electronics has developed the most powerful communications transmitters ever used by the United States Army, Navy, Air Force and Information Agency (Voice of America). This capability has also developed **super power** transmitters such as the U. S. Navy AN/FRT-61 100,000 watt LF transmitter . . . one of the first and most powerful single sideband transmitters to be used in the 50 to 150 kc frequency range. In addition, the U. S. Air Force AN/FRT-33 600,000 watt HF transmitter for communications research; the U. S. Navy AN/FRT-33 600,000 watt HF transmitter for naval communications; the 600,000 watt VLF transmitter . . . including installation and entire project responsibility . . . for NATO VLF radio station at Anthonne, Cumberland, England; and a 1,000,000 watt MF broadcast transmitter for a foreign Government.

1/ Front view of main amplifier group of AN/FRT-48 (XN-1)

100,000 watt UHF transmitter developed by Continental for the U. S. Navy's "Communications Moon Relay" 4-channel multiplexed teletypewriter-facsimile circuit between Washington and Pearl Harbor via the moon. Completely operational in 1960, the Navy's super power "moon bounce" transmitter is virtually jamproof and immune to ionospheric storms.

2/ Continental's Type 816 10,000 watt VHF airborne transmitter developed for the U. S. Air Force. Requiring only four cubic feet of space, it is the most powerful airborne transmitter yet developed . . . generating 10,000 watts of power on any single frequency between 35 and 60 megacycles.

3/ Continental's Type 420A 500,000 watt short wave broadcast transmitter. Six of these super power transmitters are used in the USIA Consolidated East Coast Facilities for the Voice of America near Greenville, North Carolina. Continental is systems and installations supervisor for this project. Four of the Type 419A 250,000 watt short wave broadcast transmitters were installed near Barcelona, Spain in 1960 for the AMCOMLIB.



2



3





16

1

RADAR

Continental's earlier work in **super power** radar led to the development of the AN/FPT-5 transmitter installed by MIT Lincoln Laboratory at its Millstone Hill radar site near Boston. This radar system has bounced signals off the planet Venus . . . 28 million miles away . . . and has received the return signal. Another Continental AN/FPT-5 transmitter has been installed at Trinidad, British West Indies, where it is used for Down Range Detection Radar for Cape Canaveral. This transmitter accomplished the longest "bounce" off the Echo I satellite . . . 3000 miles from Trinidad to Rome, New York. A similar Continental **super power** transmitter has been installed in Prince Albert, Canada, where it is being used by the Canadian Government to conduct radar experiments.

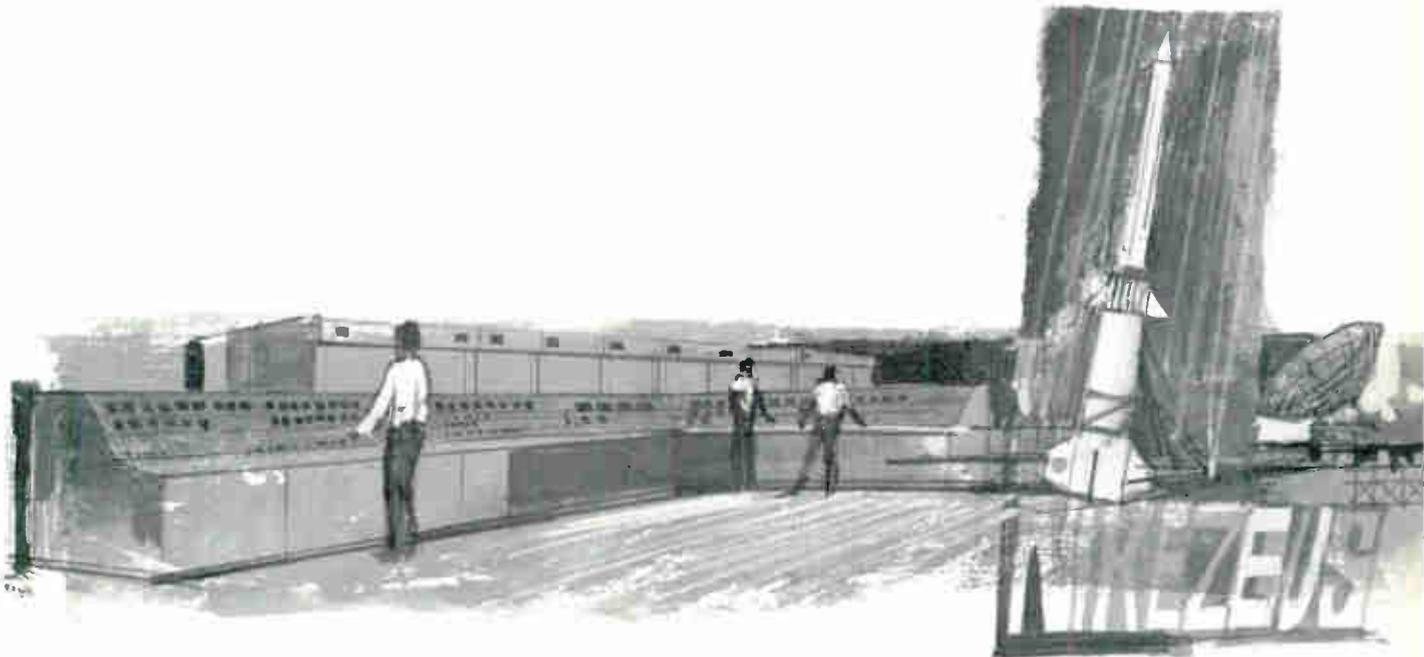
1/ MIT Lincoln Laboratory experimental long-range radar site . . . at Millstone Hill . . . near Boston, Mass.

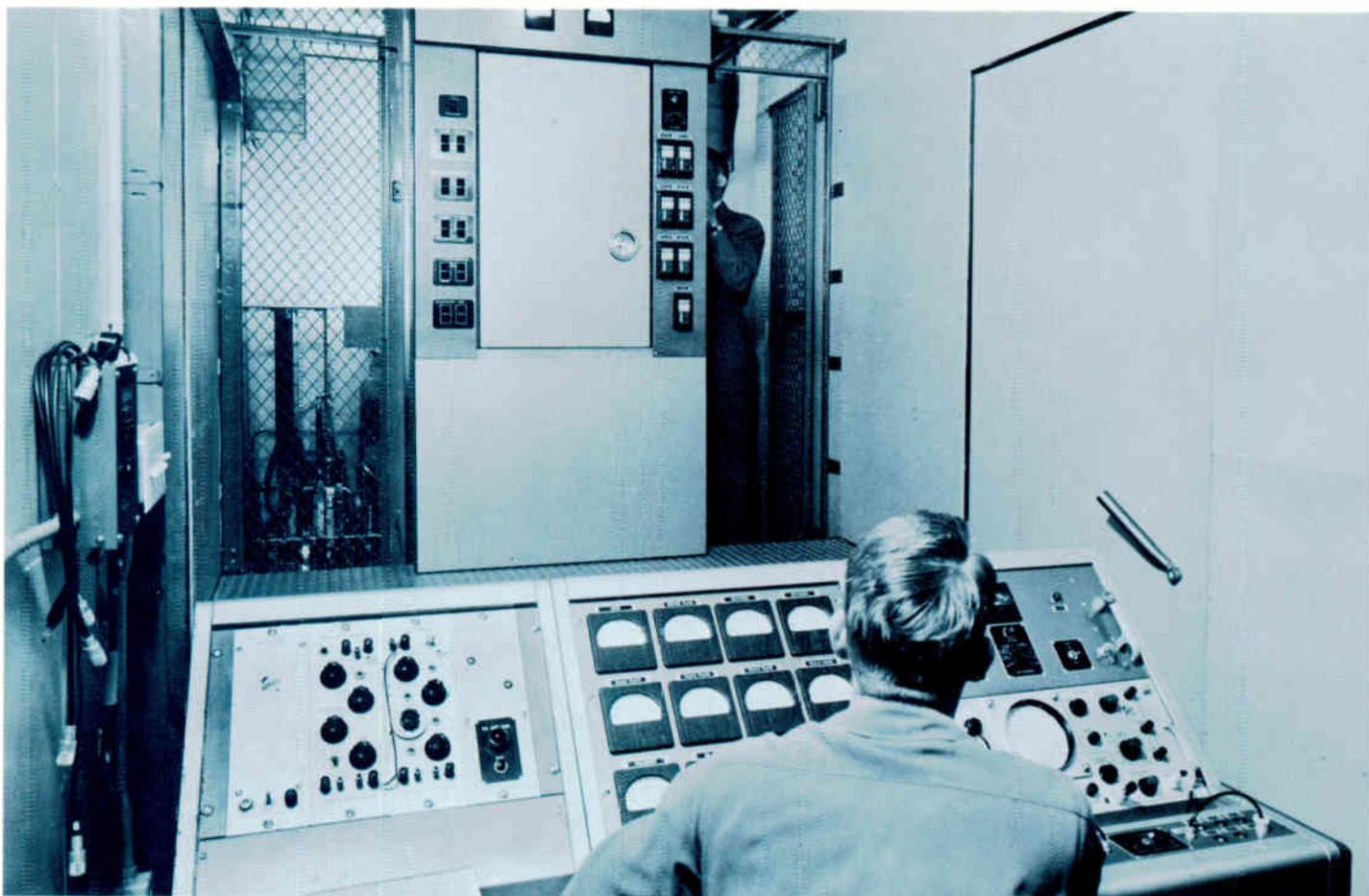
2/ NIKE ZEUS ACQUISITION RADAR (ZAR) Continental Electronics is designing, manufacturing and installing the powerful acquisition radar transmitters used in the Research and Development model of the NIKE-ZEUS Defense Complex scheduled for full scale testing on Kwajalein. Continental's highly reliable transmitter has an accurate range of thousands of miles. A radio frequency shielding fence 65 feet high completely surrounds the super power radar transmitter site at Kwajalein. The fence is covered with screens to protect personnel from potentially dangerous electromagnetic radiation.



U. S. Army Photograph

17





18

1

SPECIAL APPLICATIONS

Continental Electronics **super power** transmitters have been used in numerous experimental/research studies of communications, radar and broadcast characteristics. In several instances, existing Continental designs have been modified after completion of a project for inclusion in other unrelated projects. Continental has also developed kindred **super power** equipment such as the 21.5 kv electron regulated power supply for the Argonne National Laboratory Zero Gradient Synchrotron. In one mode of operation the power supply rests at 14 kv, pulsing to 17 kv once every 4.2 seconds. The supply uses large pass tubes which allow an adjusted range from 1 to 17 kv at 1 to 40 amps. Ripple voltage does not exceed .5% at any power level.

1/ Portion of transmitter and console control of Continental's VHF pulsed transmitter built for the Bureau of Standards Research Laboratory. This transmitter generates 5,000,000 watts peak power at 40 megacycles and was developed for radio propagation and meteor cloud studies. The entire system is trailer-mounted for complete mobility.

2/ MIT Lincoln Laboratory Solar Radar Site near El Campo, Texas uses the world's most powerful VHF radar system to gather new data on the sun's corona. Heart of the system is Continental's 500,000 watt super power VHF transmitter...

originally developed in 1954 for radio propagation studies being carried on by MIT. The transmitter was later modified for use in the El Campo solar research project.

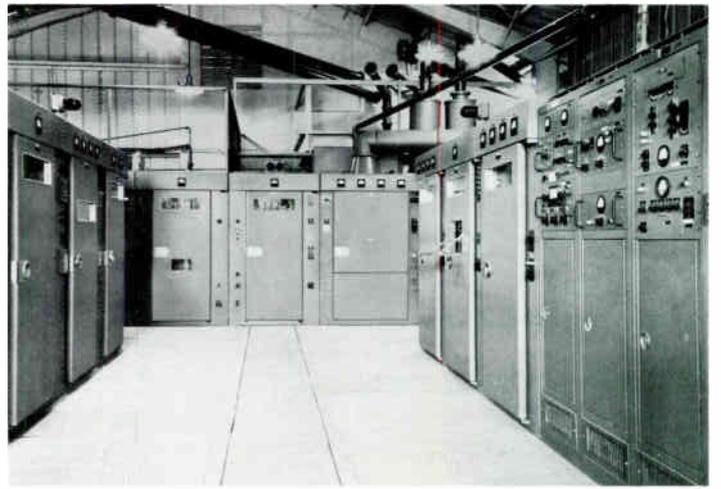
3/ The Stanford University and Stanford Research Institute joint radar telescope project sponsored by the U. S. Air Force utilizes the AN/FRT-32 300,000 watt/600,000 watt VHF transmitter and the AN/FRT-34 50,000 watt/100,000 watt VHF transmitter. Either transmitter is driven by a 16,000 watt/32,000 watt amplifier group that is continuously tuneable over the frequency range from 20 to 65 megacycles. Continental developed all of this equipment under a U. S. Army Signal Corps contract.

4/ Radio frequency transmission line switching matrix developed and installed at Delano, California and Dixon, California by Continental for the Voice of America. The system handles 200,000 watts at 100% modulation between 4 and 26 megacycles. The control system is automatic, with interlocking features and provisions for manual override. It is capable of switching any one of seven transmitter inputs to any one of twenty antenna outputs over a dual coaxial weatherproof matrix.

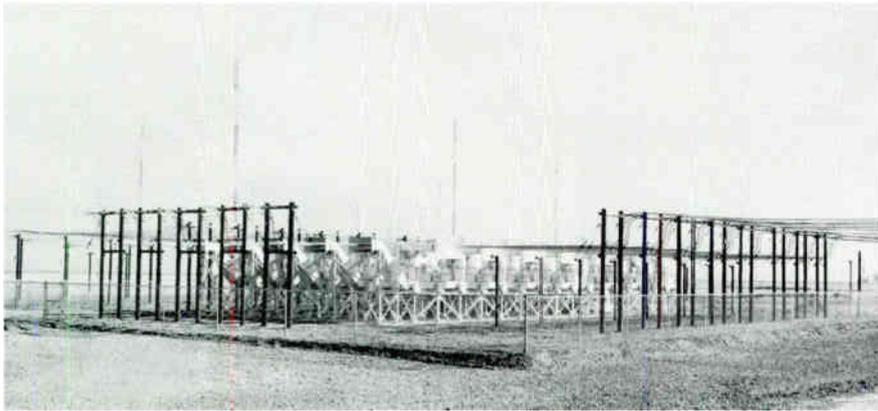
5/ Continental's 140 kv 8 ampere dc power supply was developed for the U. S. Air Force Research Laboratory at Rome, New York. The supply provides a range of power from 20 to 140 kv and is one of the first applications using a high speed step regulator. Remotely operated, the supply is an outside installation with the exception of its capacitor racks.



2



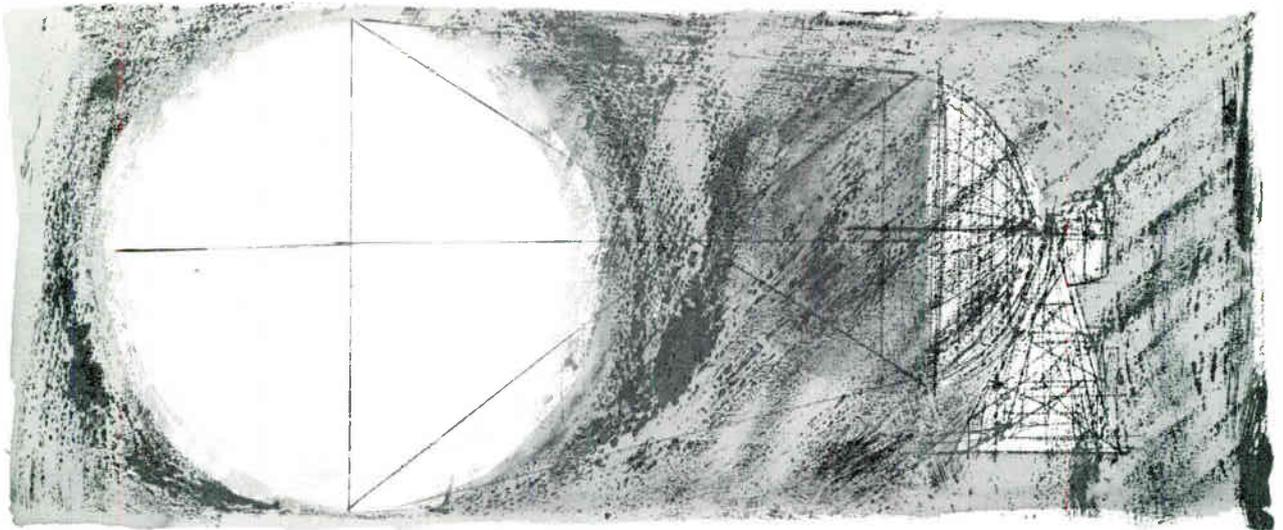
3

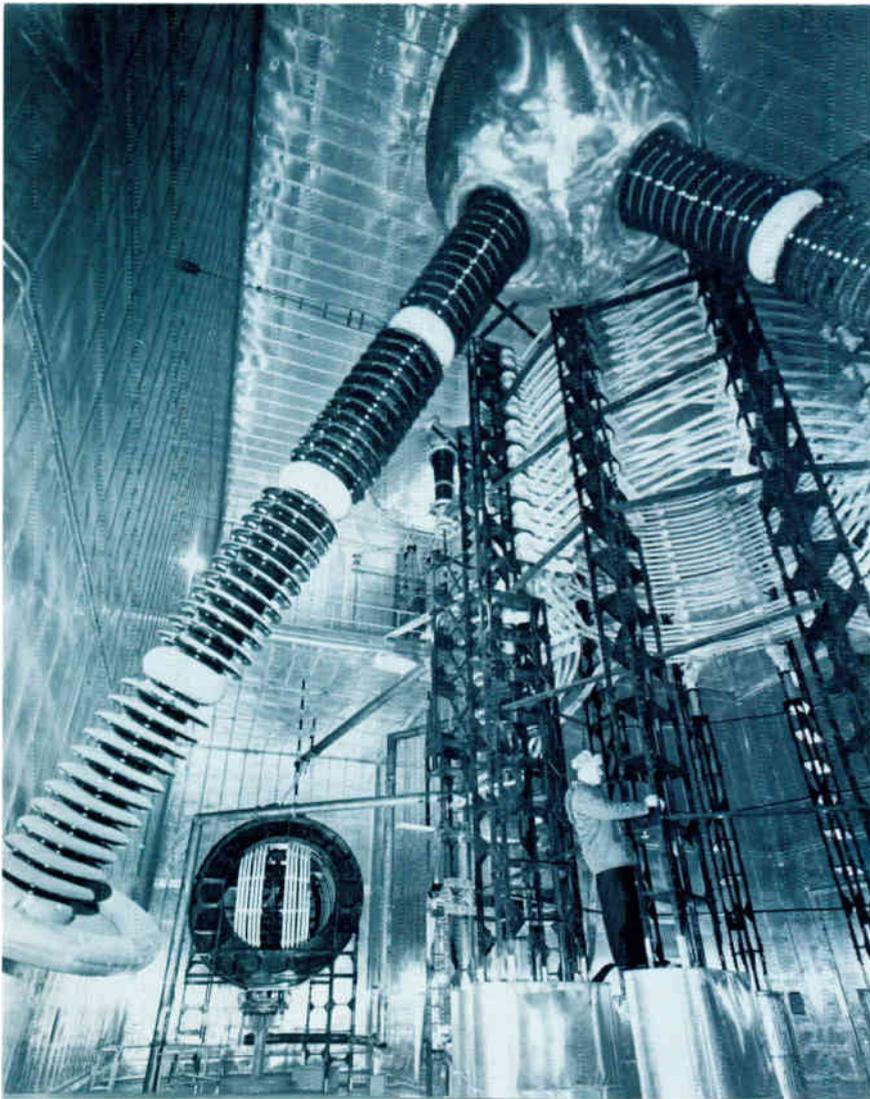


4

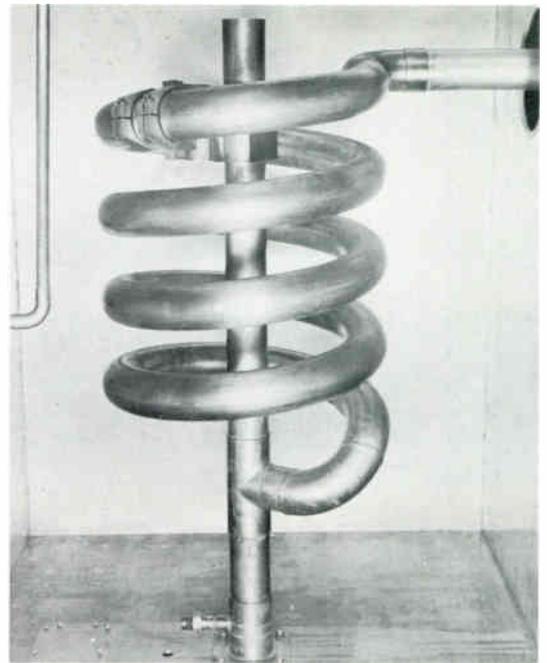


5





1



2



5

SPECIAL COMPONENTS

Developing and building **super power** transmitters and similar equipment, requires gigantic electronic components with staggering capacities and uncommon specifications. Continental Electronics has, of necessity, acquired the unique capability of designing and building all of the unusual electronic components used in **super power** transmitters . . . components that were hitherto unknown and unavailable.

1/ Interior view of Helix House. Helix coil is 20 feet in diameter, 40 feet high and wound with 3½ inch Litz wire. Enormous variometer coil in background provides inductance to tune 2,000,000 watt VLF transmitter antenna system through range of 14 to 30 kc.

2/ 500,000 watt power amplifier tank inductor formed from copper tubing three inches in diameter. Inductor is 3½ feet high.

3/ Giant toroid eight feet in diameter and eleven feet high.

4/ Antenna tuning equipment for 1,000,000 watt transmitter.

5/ Giant oil-filled variable capacitor for the world's largest, most powerful VLF transmitter.

6/ 600,000 watt Balun designed to match 50 ohm unbalanced transmission line to 220 ohm balanced transmission line. This Continental-designed component is capable of handling 600,000 watts peak power at frequency range of 4 to 30 megacycles.

7/ "Irrathene" dielectric plate blocking capacitor designed and built by Continental for 35,000 volt dc power supply; measures 17¼ inches high x 14½ inches in diameter. U. S. Process Patent No. 2,871,545.

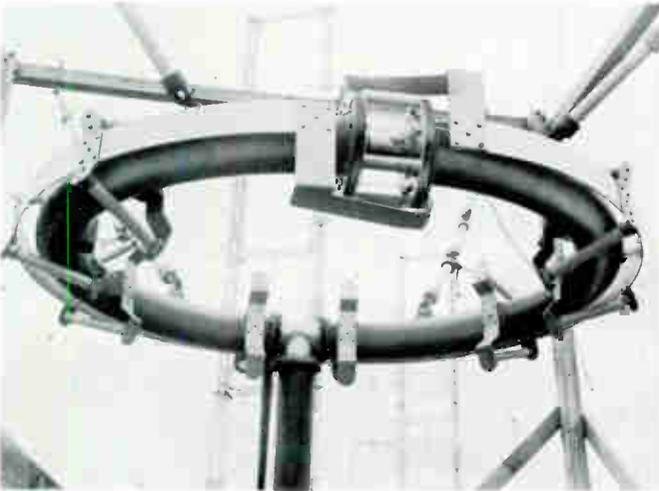
8/ Unique waveguide dummy load utilizes flowing stream of water in sloping section of waveguide to dissipate multi-mega-watts of RF energy at 450 megacycles and higher.



3



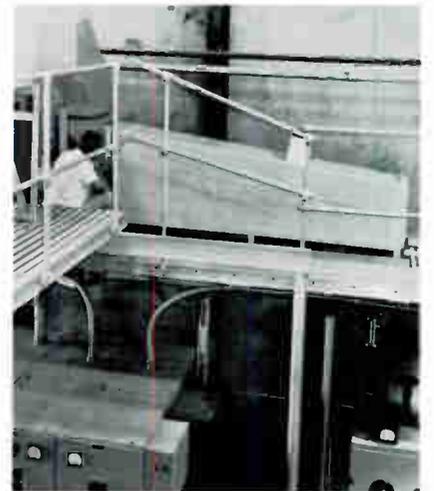
4



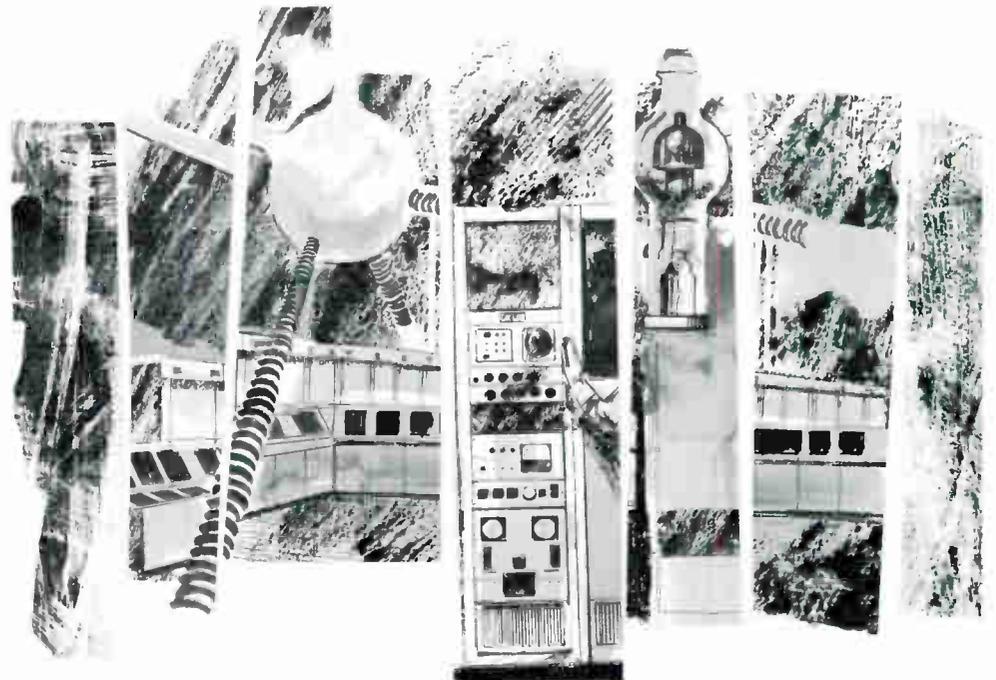
6



7



8

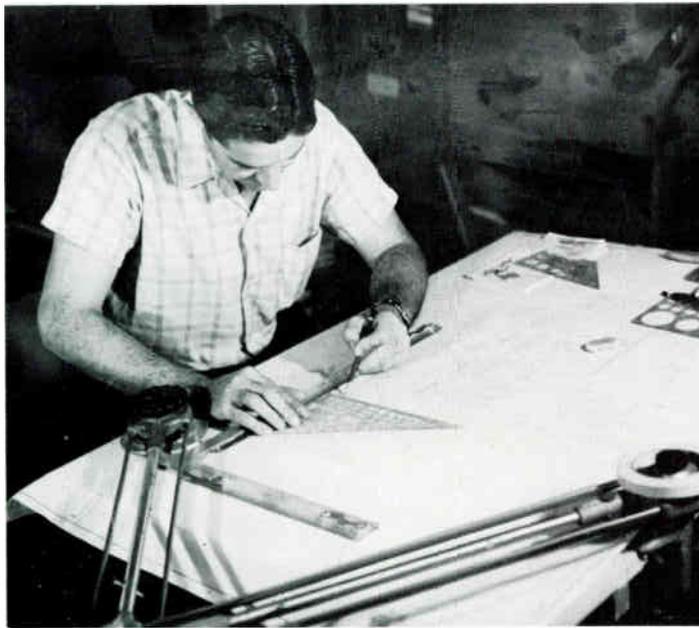




1



2



3



4

ENGINEERING

Founded and built by engineers, Continental Electronics has from its beginning sought to attract capable engineers with a comprehension of **super power** coupled with the urge to excell in the development of enormous transmitters and distinctive related equipment. The Continental engineering staff represents an immense background of experience in military communications, commercial broadcast, telephony and telegraphy, and companion apparatus. These are engineers who have pioneered in the development of **super power** transmitters throughout the frequency spectrum. Their creative opportunity is limitless at Continental... where the challenge of tomorrow is a daily work assignment.

- 1/ Continental engineers discuss a problem affecting an overseas installation.
- 2/ Broadcast engineer discusses unit requirements with the representative of a component manufacturer.
- 3/ Super power engineer applies theory, logic and creative imagination to a problem in super power transmitter design.
- 4/ Project head checks separate phases on project status while other engineers verify project specifications.



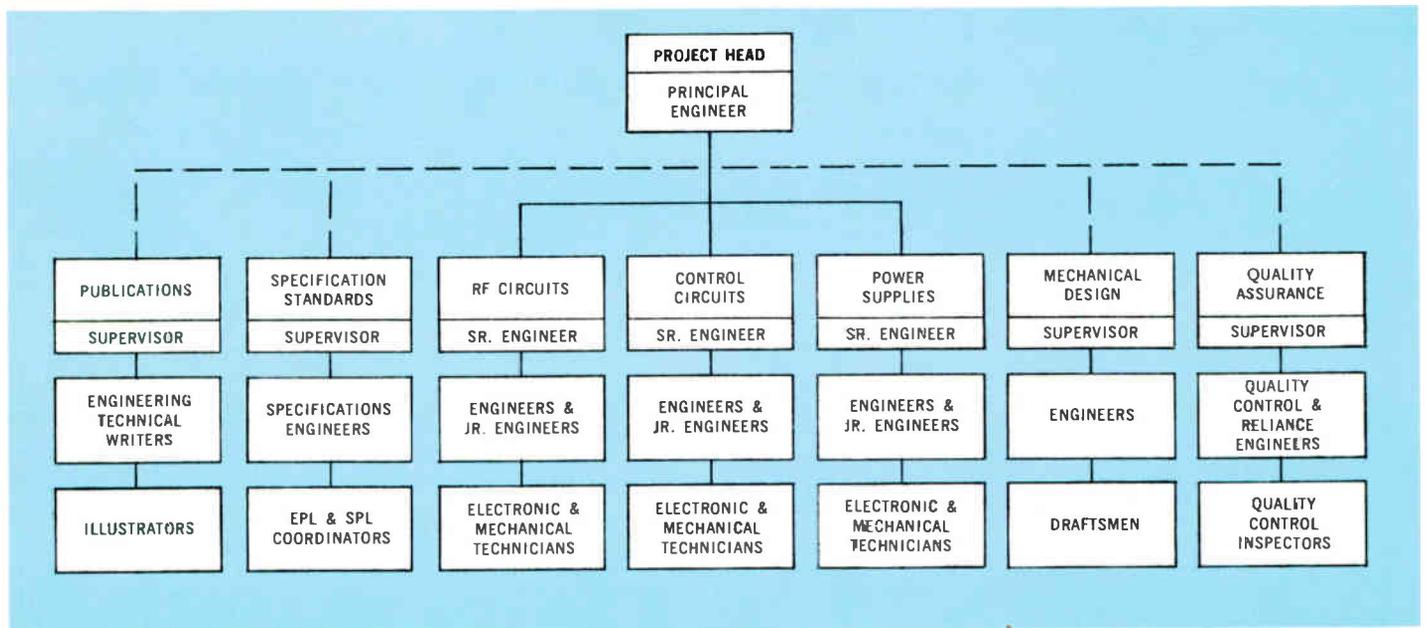


1



2

24



ENGINEERING FACILITIES

Project responsibility is assigned to a project head whether the contract calls for equipment installation only or a complete system including site preparation, building construction and systems operation.

1/ The project head coordinates development, production and installation assistance from various specialized engineering support groups.

2/ Publication section — Technical writers write the instruction manuals that explain each detail of equipment operation to those

who will operate and maintain equipment.

3/ One small section of draftsmen at work on a super power project. Men in foreground are checking specification and component lists. Men in the two drafting bays above are at work on driver section of a complex project.

4/ Specifications and Standards section — responsible for writing all component specifications required by each contract.

5/ Reproduction section — for quantity copying of blue prints, drawings, plans, photos, work reports and status reports.



3



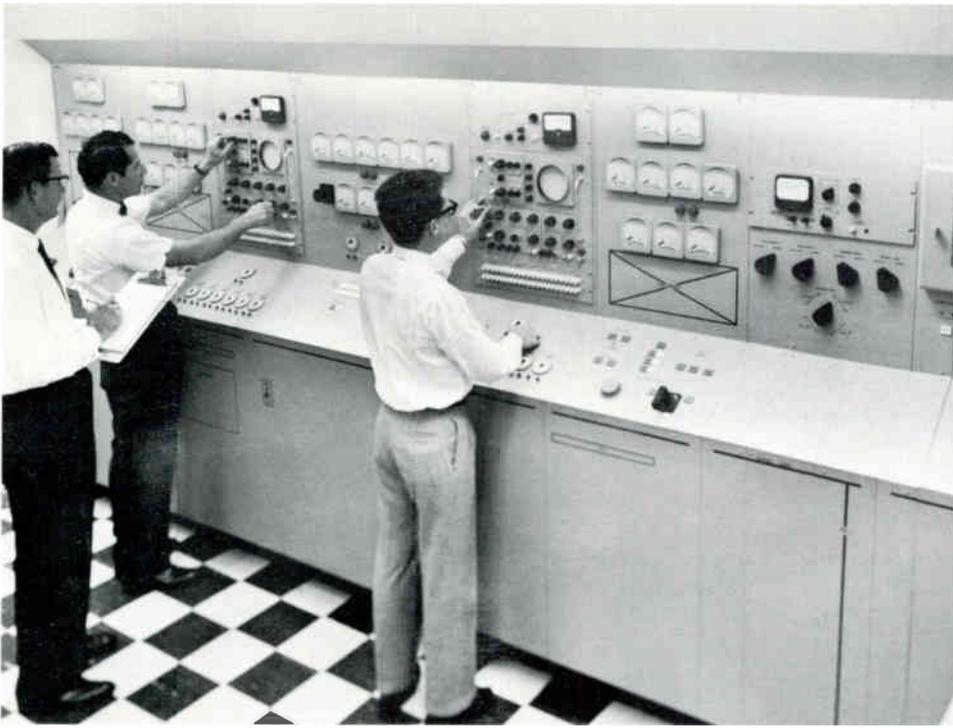
4



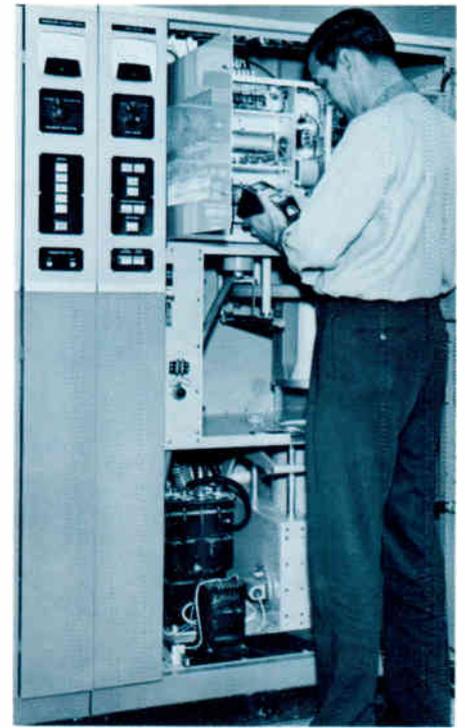
5



2!



1



2

RESEARCH AND DEVELOPMENT

Ultimately, the performance of complex equipment depends upon the talent and training of the people who create, design, develop and build it. Continental Electronics provides its R & D engineers an environment with every opportunity to test theories and techniques of **super power** transmission. From this experience has come an entire line of reliable commercial broadcast equipment; a profound history of genuine achievement in the development and manufacture of **super power** transmitters and related equipment; an enviable reputation for accepting and doing the unprecedented . . . the "impossible."

1/ Human engineering. A control panel mock-up is built to contain all critical controls and dials within the visual range and reach of an average-size person. Continental experiments with different size meter panels, panel shapes, methods of illumination, size and shape of control handles so the eventual operators will have the finest, most functional controls possible.

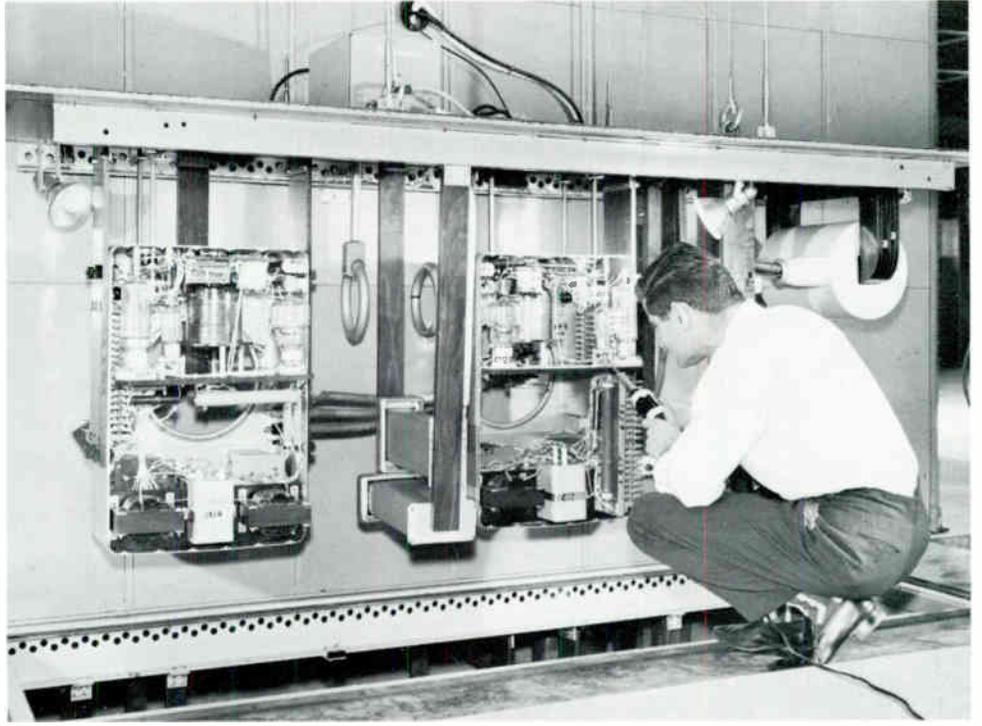
2/ Broadcast engineer on practical development work involving a 50,000 watt short wave transmitter.

3/ Engineer checks progress on R&D project nearing completion: a 10,000 watt short wave transmitter prior to factory test.

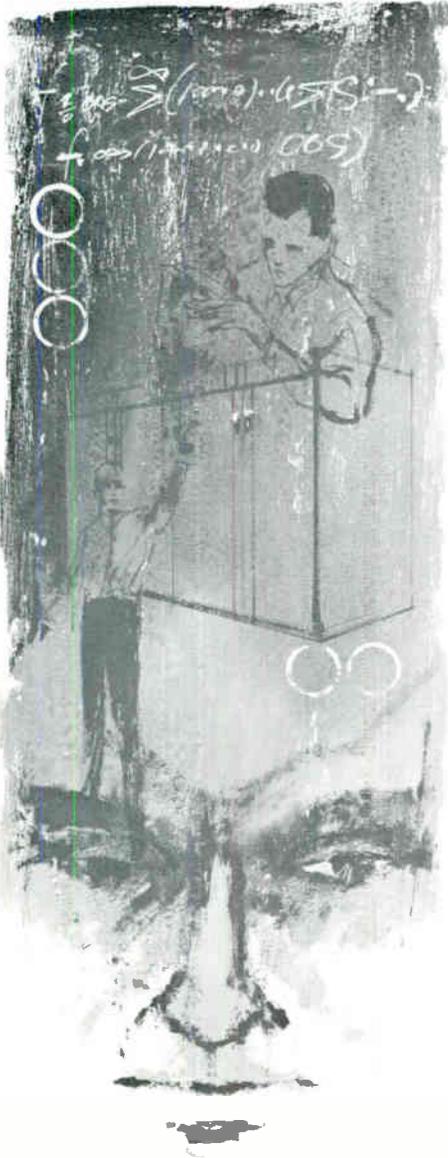
4/ Development work at an operational level — as engineer carefully checks out the combined work of more than a hundred specialists.

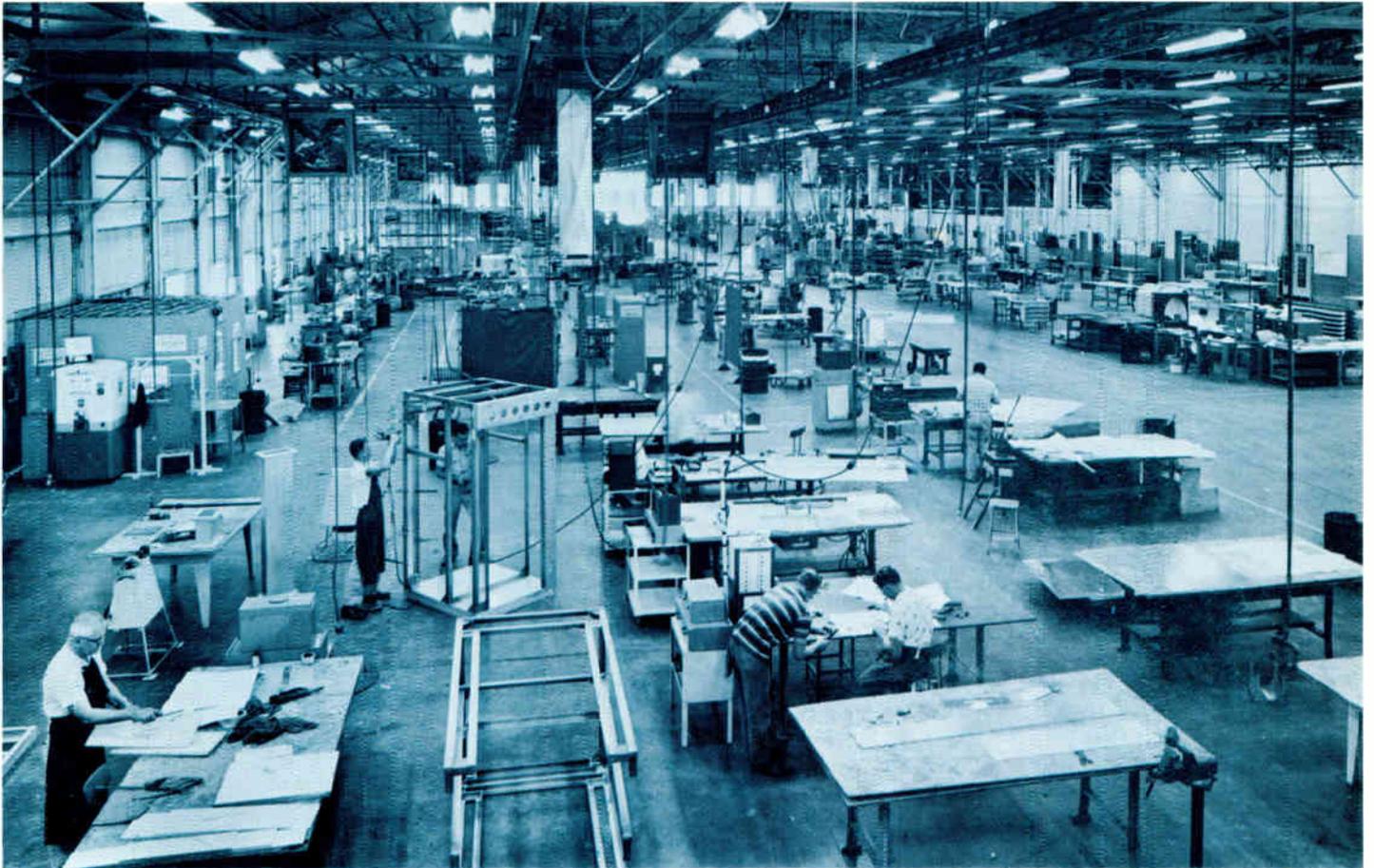


3



4





1

28

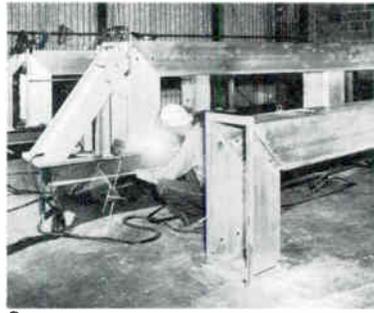
MANUFACTURING AND PRODUCTION

Experienced assembly technicians and engineers have perfected their skills by constant work on the world's most powerful transmitters of virtually every type. Continental Electronics internal production experts dedicate their personal skills and precision toward the assembly of superbly crafted components into a durable, practical, reliable and serviceable unit that will do what it was designed to do. The results are astonishingly high quality products that perform to specifications and continue to operate under critical conditions. Main Plant area at Dallas totals 105,300 square feet, with an additional 70,000 square feet for assembly and production at the nearby Garland Plant.

- 1/ Portion of main assembly area, Garland, Texas Plant.
- 2/ Portion of main assembly area, Dallas, Texas Plant.
- 3/ Massive transmitters and big components require special talents of Continental's own internal facilities.
- 4/ Continental's reputation for quality control results from careful checking at every point and sub-stage.
- 5/ Continental is one of the few companies that continue to hand wire and bundle cable for ease of maintenance and servicing.
- 6/ In the test room, every inch of every component part is carefully checked for perfection long before the equipment is tested.
- 7/ Aerial view of Dallas Plant.
- 8/ Partial view of Garland Plant.



2



3



4



5



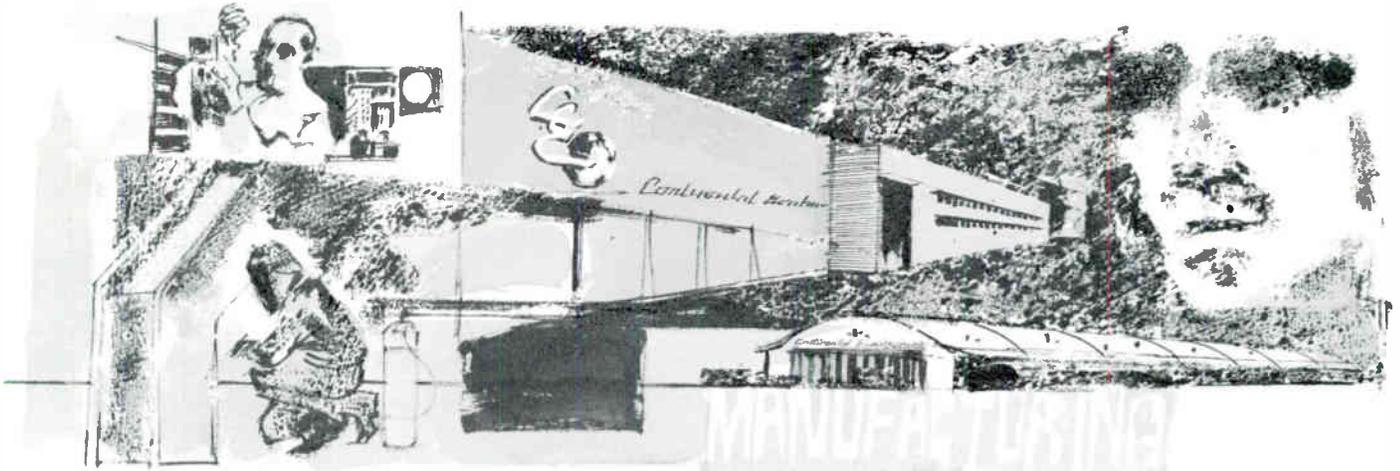
6



7

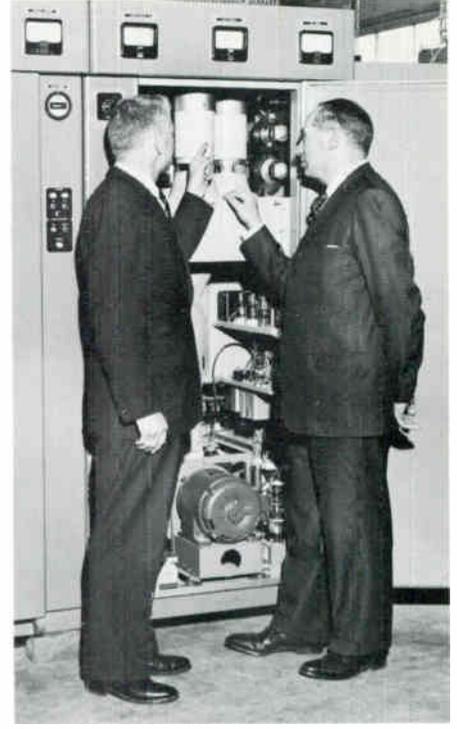


8





1



2



3



4

ADMINISTRATION

Continental Electronics was founded and built by engineers and engineers hold all major management posts. At Continental this emphasis on engineering means that every administrative function is in support of the company's primary objective: design, development and building of the world's most powerful and most reliable transmitters. Continental facilities have a Top Secret clearance, and key personnel hold Top Secret clearances for highly classified projects.

1/ Responsibility and authority are delegated at the President's management staff meeting.

2/ In-plant tour for a foreign customer... Continental's sales efforts extend throughout the free world.

3/ Company buying offices for discussing component availability and delivery schedules with suppliers.

4/ Continental's long-range recruitment program builds for the future by insuring the availability of trained, acclimated engineers.

5/ Bidding and proposal group supports Continental's general sales efforts in depth with technical proposals.

6/ Contract administrators discuss project status report with project engineer.

7/ Controller's offices assure accountability of every contract; to the customer as well as to Continental.



5

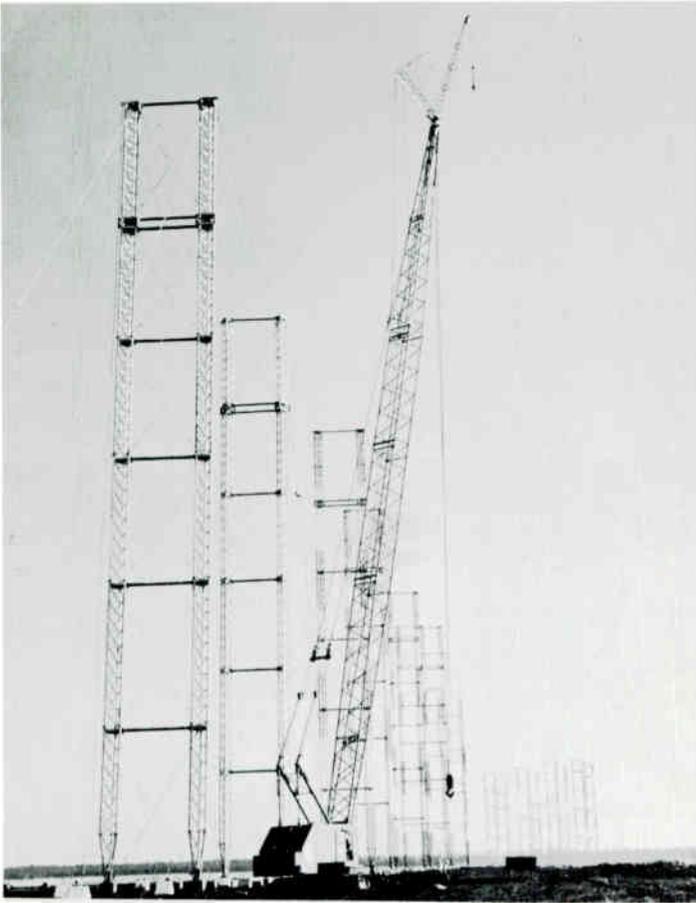


6



7





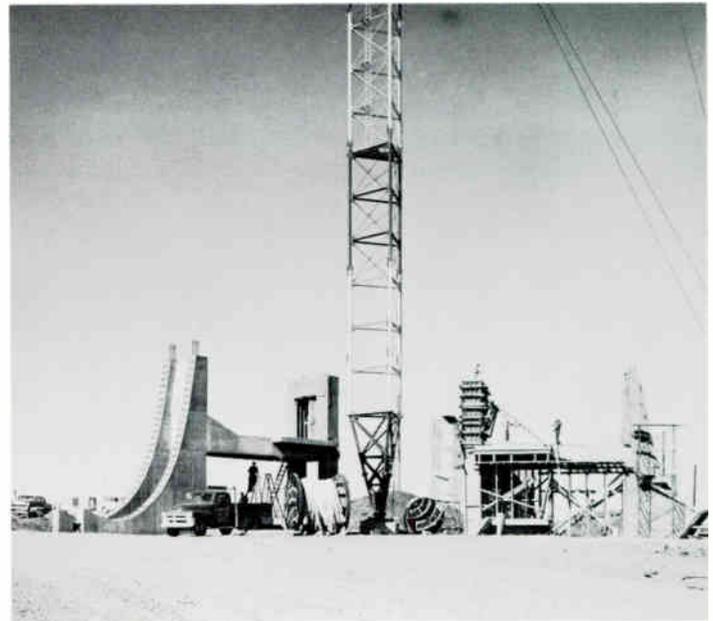
1



2



3



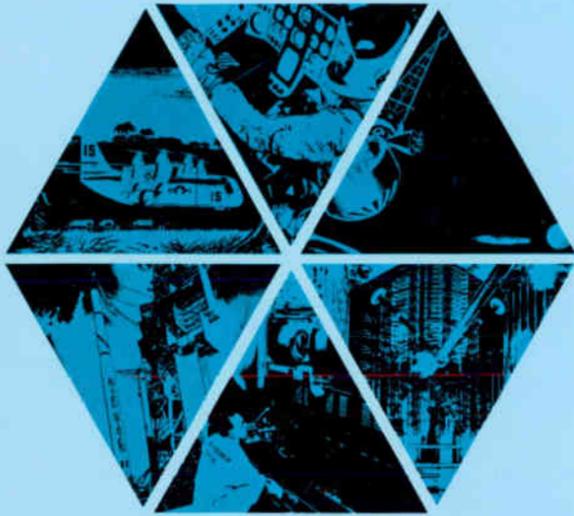
4

SYSTEMS

Continental Electronics Systems, Inc. is a companion corporation to Continental Electronics Manufacturing Company. Both companies share identical officers and directors. The Systems arm was established to assume full responsibility for contracts requiring site evaluation, preparation, construction of buildings and total systems operation, in addition to the design and installation of actual equipment. Continental Electronics Manufacturing Company is responsible for development and installation of this equipment, but under the systems-type contract reports directly to Continental Electronics Systems, Inc., who is responsible to the customer.

1 & 2/ USIA Consolidated East Coast Broadcasting Facilities for the Voice of America. Continental Electronics Systems, Inc. is responsible for system design and installation.

3 & 4/ Continental Electronics was prime contractor for the U. S. Navy 2,000,000 watt VLF radio station near Cutler, Maine. In addition to the design and installation of equipment, site preparation involved 100,000 yards of rock excavation, 2,500,000 yards of earth excavation, clearing and grubbing of almost 3,000 acres of land for the antenna system. The antenna system required 12,000 tons of steel for towers, 50,000 cubic yards of concrete for tower and anchor foundations, and 3,000 tons of steel bridge strand cable for guys and halyards. The capability acquired on this project, along with prime contract responsibility for similar projects, led to the establishment of a systems-type organization to more efficiently discharge Continental's customer responsibility.



Continental Electronics Manufacturing Company and Continental Electronics Systems, Inc. are wholly-owned subsidiaries of Ling-Temco-Vought, Inc. . . . a diversified corporation with unlimited potential and proven capabilities in the areas of aerospace/communications/sound systems/military electronics/commercial and other products.

DIVISIONS AND SUBSIDIARIES □ ALTEC LANSING CORPORATION, 1515 South Manchester Avenue, Anaheim, California □ PEERLESS ELECTRICAL PRODUCTS DIVISION, 1515 South Manchester Avenue, Anaheim, California □ ALTEC SERVICE COMPANY, 222 Fourth Avenue, New York, New York □ CHANCE VOUGHT CORP. DIVISION, P. O. Box 5907, Dallas 22, Texas □ Aeronautics and Missiles Division, P. O. Box 5907, Dallas 22, Texas □ Astronautics Division, P. O. Box 6267, Dallas 22, Texas □ Range Systems Division, 1507 Pacific Avenue, Dallas, Texas □ CONTINENTAL ELECTRONICS MANUFACTURING COMPANY, 4212 South Buckner Boulevard, Dallas, Texas □ CONTINENTAL ELECTRONICS SYSTEMS, INC., 4212 South Buckner Boulevard, Dallas, Texas □ CRUSADER FINANCE COMPANY, 7900 Carpenter Freeway, Dallas, Texas □ ELECTRON CORPORATION, P. O. Box 5570, Dallas 22, Texas □ ED FRIEDRICH INCORPORATED, 1117 East Commerce Street, San Antonio, Texas □ FRIEDRICH REFRIGERATORS INCORPORATED, 1117 East Commerce Street, San Antonio, Texas □ HARBOR BOAT BUILDING CO., 258 Cannery Street, Terminal Island, California □ KENTRON HAWAII, LTD., 1140 Waimanu Street, Honolulu 14, Hawaii □ LING ELECTRONICS DIVISION, 1515 South Manchester Avenue, Anaheim, California □ Calidyne Plant of Ling Electronics Division, 120 Cross Street, Winchester, Massachusetts □ LING-ALTEC EXPORT CORPORATION, 222 Fourth Avenue, New York, New York □ LING-ALTEC WESTERN HEMISPHERE CORPORATION, 161 Sixth Avenue, New York, New York □ LTV RESEARCH CENTER, P. O. Box 5907, Dallas 22, Texas □ Western Division of LTV Research Center, 1859 South Manchester Avenue, Anaheim, California □ TEMCO ELECTRONICS & MISSILES COMPANY DIVISION, P. O. Box 6191, Dallas 22, Texas □ Temco Aerosystems Division, P. O. Box 1056, Greenville, Texas □ Temco Electronics Division, P. O. Box 6118, Dallas 22, Texas □ Display Systems Plant of Temco Electronics, 12820 Panama Street, Los Angeles, California □ LTV Industrial Division, P. O. Box 6327, Dallas 22, Texas □ UNIVERSITY LOUDSPEAKERS DIVISION, 80 South Kensico Avenue, White Plains, New York.

Continental Electronics Co.
MANUFACTURING COMPANY • MAILING ADDRESS: BOX 17040 • DALLAS 17, TEXAS
4212 S. BUCKNER BLVD. • EV 1-7161 • LTV SUBSIDIARY OF LING-TEMCO-VOUGHT, INC.
Designers and Builders of the World's Most Powerful Radio Transmitters



CONTINENTAL ELECTRONICS INSTALLATIONS EXTEND THROUGHOUT THE WORLD

