THE
WHITE ALICE
NETWORK

Built for

the Defense of Our Nation

under the supervision of

Western Electric Company

Western Electric Company
INCORPORATED
DEFENSE PROJECTS DIVISION
220 CHURCH STREET, NEW YORK 13, N.Y.
WORTH 4-5400

O.W. KAMMERER
MANAGER, PROJECT 717

June 16, 1958

Mr. Gustave O. Ekstedt
614A N. 32nd Street
East St. Louis, Illinois

Dear Mr. Ekstedt:

The White Alice Network, toward which you contributed your work and skill, was formally accepted by the United States Air Force on March 26, 1958, and placed in full operation over all its routes.

While only a few of the more than 800 Bell System people responsible for so much of White Alice could be present at Elmendorf Air Force Base, Alaska, I know that every man and woman associated with the project has taken a deep personal interest in its successful completion. It should be a source of inner satisfaction to all of us that the benefits of the network are already being realized in greater security for the United States, and in better communication for the people of Alaska.

White Alice has been a chapter in our lives that few of us will casually dismiss. For many there have been personal sacrifices and hardship. For all there has been the experience of helping to forge a new frontier in communications.

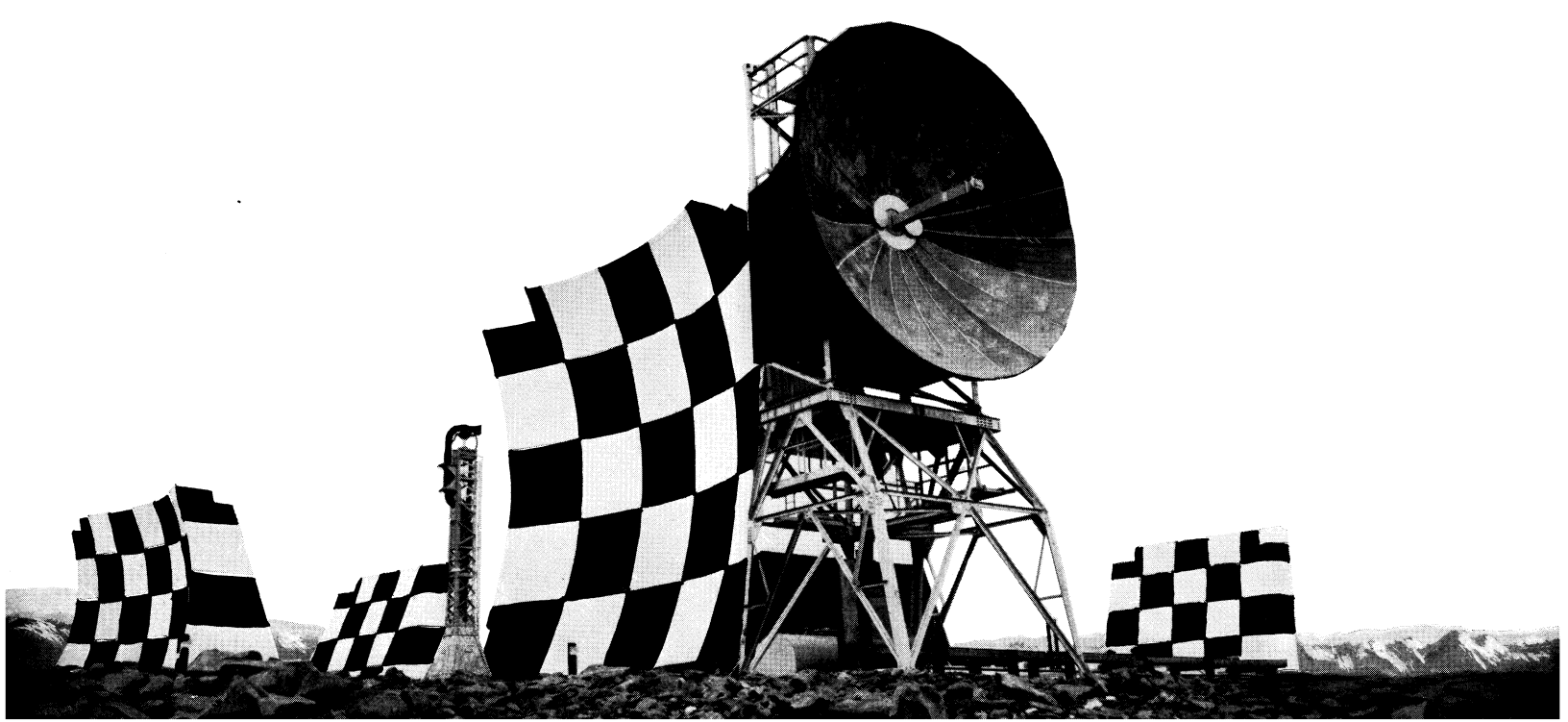
This booklet has been prepared as a memento, to bring together through words and pictures the story which, in a very real sense, you helped write. I hope it will serve also as a small symbol of the Bell System's appreciation for your share in a remarkable achievement.

To this I would like to add my personal thanks for your generous effort and cooperation, during all the time you were associated with the project. I think that spirit, more than anything, was responsible for White Alice.

Sincerely,

O.W. Kammerer

THE WHITE ALICE NETWORK



DEPARTMENT OF THE AIR FORCE
WASHINGTON

OFFICE OF THE SECRETARY

March 26, 1958

The completion of the White Alice Network is a significant event for the defense of the United States and the development of Alaska.

Swift and reliable communication is essential in fulfilling the mission of the United States Air Force to protect our country in the event of attack from any corner of the globe. With the accomplishment of the White Alice project, communication is now assured across the sternest regions ever challenged by the telephone and telegraph.

It is most gratifying that this achievement couples an important step toward our national security with a major stride in Alaska's progress. In serving simultaneously the people of the Territory, White Alice may well make an historic contribution to its settlement and growth.

The United States Government fully recognizes the hardships under which the network was built, and the courage and perseverance of those who built it. I extend hearty congratulations to all who will use its facilities, and to the many companies and the thousands of Americans who have had a part in creating the White Alice Network.

James H. Douglas

JAMES H. DOUGLAS
Secretary of the Air Force

HEADQUARTERS ALASKAN AIR COMMAND
OFFICE OF THE COMMANDER
UNITED STATES AIR FORCE
APO 942, SEATTLE, WASHINGTON

ICSA

6 MAR 1958

Mr. O. W. Kammerer
Project Manager, White Alice
Western Electric Company
220 Church Street
New York 13, New York

Dear Mr. Kammerer:

On 24 February 1958, I was notified that the last station of the White Alice System had been completed and commissioned for service. Since this notification we have not been out of contact with any of our operational stations for the first time in Alaskan Air Command history. This to me, as well as to my commanders, is considered to be so outstanding that I am making this opportunity to write you this letter of appreciation.

To you, as Project Manager, and to all of the Western Electric and Bell System people involved with the design, engineering, installation, test and lineup, I extend my commendation for a magnificent accomplishment. Your company can be well proud of such people as Carl Hudson, Mel Bullen, Chuck Lawson, Rich Tratham, and Butch Stancil, who have directed their specific areas of management and work in the building of this system; as well as others such as Fuzzy Furr, Paul Southwell, Jack Terry, Frank Clement, Lee Olson, Dick Evans, and so many more, impossible to list, who may still be with the project or who may have left for other assignments. Among these many others, I wish to make specific mention of Louis Houck, Jack Dupre, and K. H. Hentschke, who lost their lives in their line of duty. The loss to their families, communities, and your company can not be measured.

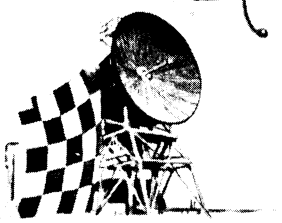
Once again I commend you all for this great development in the art of communications which is so essential to the defense capabilities of the Air Force.

Sincerely,

Kenneth H. Gibson

KENNETH H. GIBSON
Brigadier General, USAF
Commander

Certificate of Completion



White Alice Communications Network

This is to certify that upon this date, construction of the White Alice Communications Network is hereby completed.

And this further certifies that the Network is ready to serve the Department of Defense and the people of Alaska, with all facilities, at all stations and over all routes.

And with this certificate, the Western Electric Company, prime contractor, acknowledges with sincere appreciation the efforts of all who contributed to this undertaking with mind, hand and heart:

The Bell Telephone Laboratories, for much of the fundamental research upon which the network rests.

The United States Air Force, for transportation, supply and able supervision.

The United States Army Corps of Engineers, for supervision of construction at ten stations.

The Contractors and Suppliers, who performed the tasks and produced the materials essential to the project.

The many men and women of the Bell Telephone System and all contracting companies, who gave of themselves and their skills, despite personal risk and hardship, to build the White Alice Network.

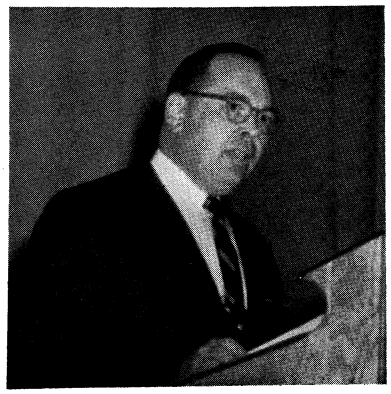
Presented to
The United States Air Force
at Anchorage, Alaska
March 26, 1958.

Western Electric Company
INCORPORATED

Arthur B. Goetze

President

W. E. Burke, Vice President, Defense Projects, makes formal presentation of the Network.



O. W. Kammerer, Manager, White Alice Project, places calls to perimeter stations, demonstrating completion of the Network.

"White Alice . . . speaks with authority and has the workday qualities and ruggedness of a Tugboat Annie"

We all have looked forward to the completion of White Alice with great anticipation and I am sure you will excuse our feeling of pride in this project. We are proud in two major respects, first of the technical performance of the system and secondly of the people who did the job.

White Alice, like so many developments we see in this electronic age, owes its success to the creative genius of our American scientists and engineers. At a time when White Alice was still a gleam in the eyes of the Air Force and the design engineers, a new and radically different method of radio transmission, called "tropospheric scatter," was being developed by the scientists of the Lincoln Laboratories of the M.I.T. and the Bell Telephone Laboratories. Not only did this new method have seven league boots, but it had a high degree of immunity from the auroral interferences which disrupt radio communication so frequently in the North.

White Alice is the first large scale application of this new technique both in terms of the number of stations and its load-carrying capacity. Obviously certain technical risks were taken and there were many unknown problems in the use of this new method on such a large scale. We are exceedingly happy that the performance of this system has fully vindicated the judgment of the Air Force and the design engineers.

I might also say, partly in a humorous vein and partly with all seriousness—

The name—"White Alice"—is obviously feminine. Feminine she may be with all the refinements and sensitivity of our finest culture—But she speaks with authority and has the workday qualities and ruggedness of a Tugboat Annie—and so I would say to you in the Air Force and the Federal Electric Company who will operate and maintain her: Love her, cherish her and watch over her faithfully and she will be a thing of beauty and a joy forever.

And now I would like to say a few words in recognition of the many people who shared in the responsibility for this work. First I would express my appreciation, as Mr. Kammerer has done, to the Alaskan Air Command and the Air Materiel Command. We have had excellent administrative and technical liaison and support.

Secondly, I would like to acknowledge the participation of many suppliers and subcontractors. Out of the total of about 113 millions of dollars expended by the Western Electric Company under its prime contract, 85 millions were paid out directly by us or by our construction subcontractors to 1,017 other firms or companies.

While the Western Electric Company was the prime contractor, this effort was supported by the Bell System as a whole. Our team was made up largely from people drawn from the entire Bell System as well as Western, each man in accordance with his needed skills. Seventeen Bell System companies and the Bell Telephone Laboratories furnished members to this team. Over 800 Bell System people were drawn from 46 states and the District of Columbia.

And so, when I convey to you the White Alice System, not only is it made up of electrons, copper and steel—it contains from each man on our team a part of his ambition, his loyalty and his devotion to our accepted task to assist, where we are uniquely qualified, in strengthening this country's defenses.

Excerpts from remarks made at the Completion Ceremony by W. E. Burke, Vice President, Defense Projects, Western Electric Co.

The White Alice Network
Acceptance Ceremony
PROGRAM

Welcome and Opening Remarks
Col. DAVID S. WOODS, U.S.A.F.
Assistant Chief of Staff, Communication,
Alaskan Command

The Significance of White Alice
Brig. Gen. KENNETH H. GIBSON, U.S.A.F.
Commander, Alaskan Air Command

Report of Completion
O. W. KAMMERER
White Alice Project Manager,
Western Electric Company

Presentation of the Network
WILLIAM E. BURKE
Vice-President, Defense Projects,
Western Electric Company

Acceptance and Turnover
Col. J. P. WALTERS, U.S.A.F.
Chief of Electronics Defense Systems Division,
Air Materiel Command

Activation of The Network
Brig. Gen. KENNETH H. GIBSON, U.S.A.F.
Commander, Alaskan Air Command

Inauguration of White Alice Service
Hon. MIKE STEPOVICH
Governor, Territory of Alaska

Inauguration of Interior Service Official Calls
Hon. ANTON ANDERSON
Mayor of Anchorage, Alaska

Inauguration of Full Military Use Official Calls
Brig. Gen. KENNETH H. GIBSON, U.S.A.F.
Commander, Alaskan Air Command

Acceptance of Network Operation
FRED M. FARWELL
Executive Vice-President,
International Telephone and Telegraph Corp.

Closing Remarks
Brig. Gen. KENNETH H. GIBSON, U.S.A.F.
Commander, Alaskan Air Command

White Alice

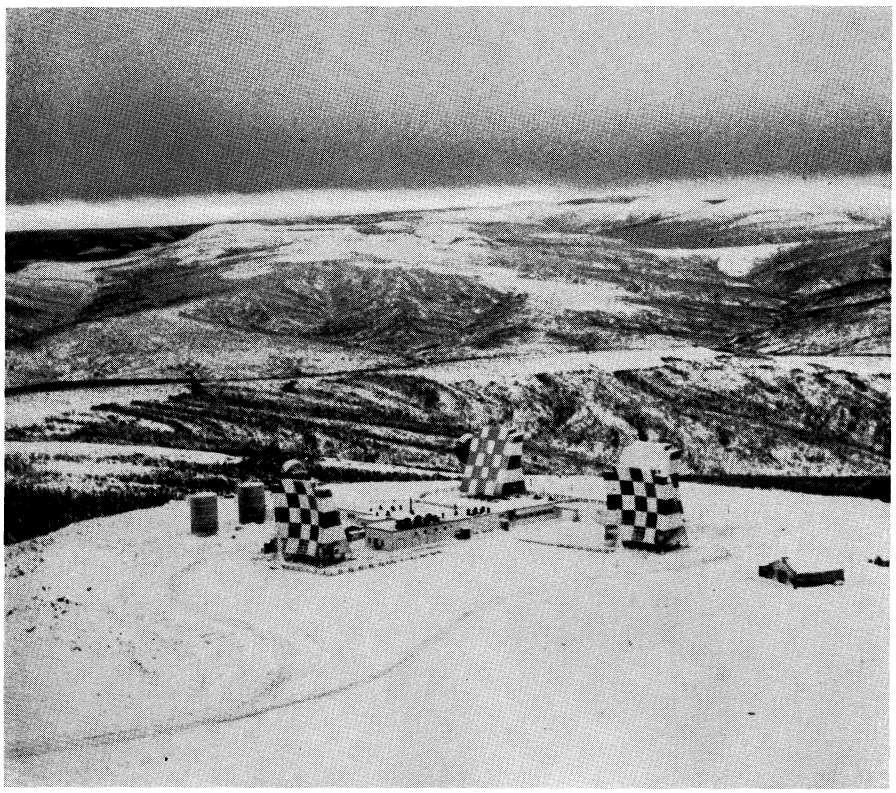
Above Alaska's jagged peaks, in the emptiness that once belonged to the wind, the aimless bird and the rushing airplane, electronic streams of messages are flashing precisely from place to place. The bearer of these messages is White Alice, the new long distance telephone and telegraph network serving the greater part of the interior of the Territory. White Alice is bringing reliable communication to some areas of the north country where it has been at best, precarious—at worst, non-existent.

"White Alice" is a strange name for a communications system. The words alone signify nothing more than a code designation for the project—picked because they were an available combination. In meaning, however, White Alice has come to symbolize a struggle against the harsh north, and a new triumph of science.

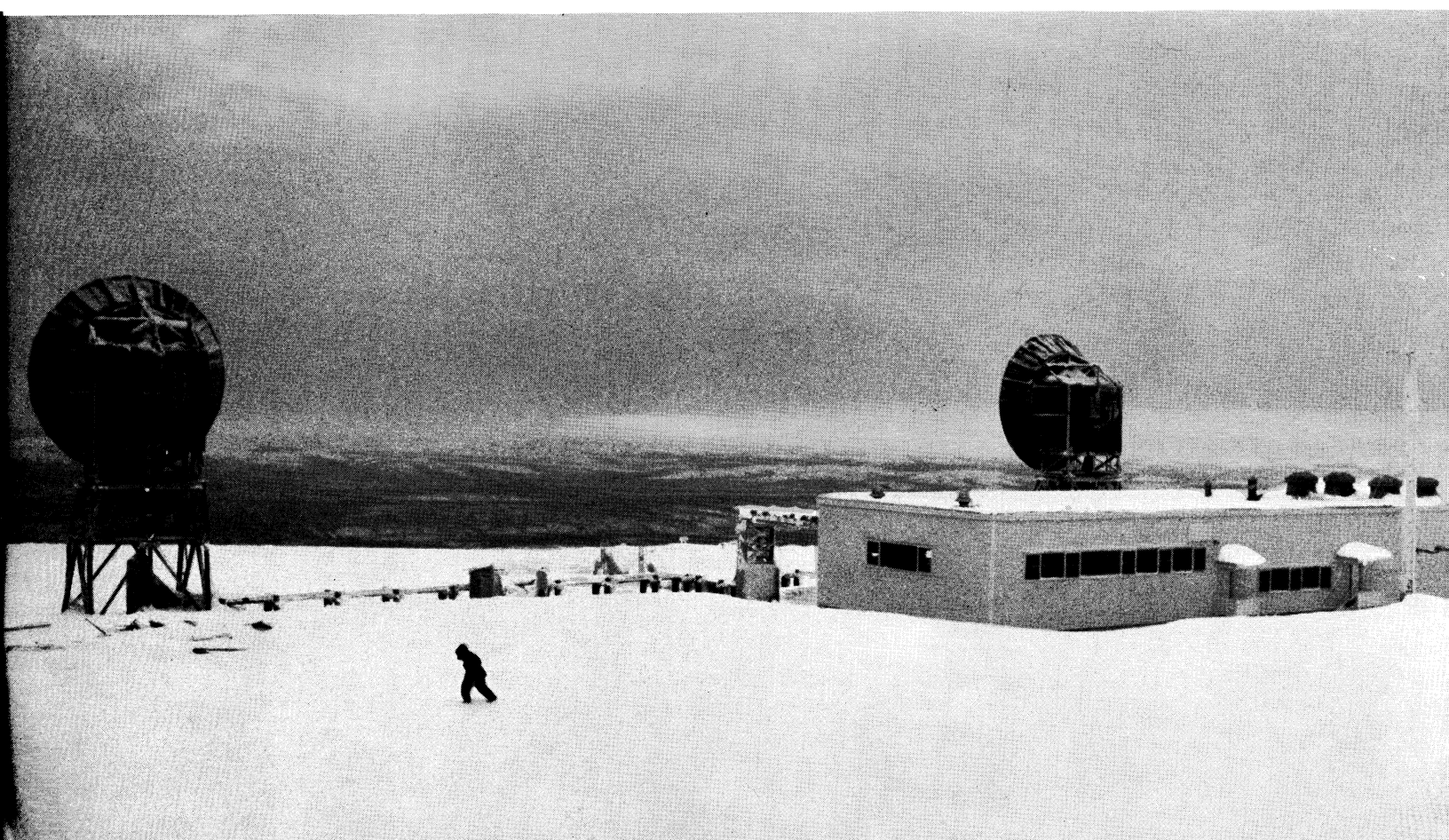
It represents the first large-scale application of a new communications technique. It is the biggest network of its type yet built, and the first to provide commercial service. It has established high grade telephone facilities where they could never before exist.

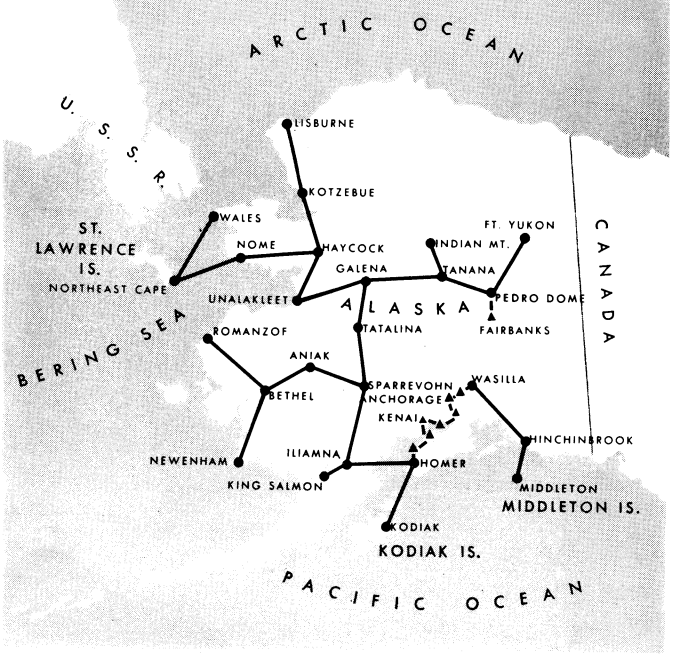
Majestic and beautiful, Alaska's jagged peaks long stood as barriers to the telephone and the telegraph—and to progress.

Today, relay stations of White Alice rise on the mountain tops—beaming messages across the sky.

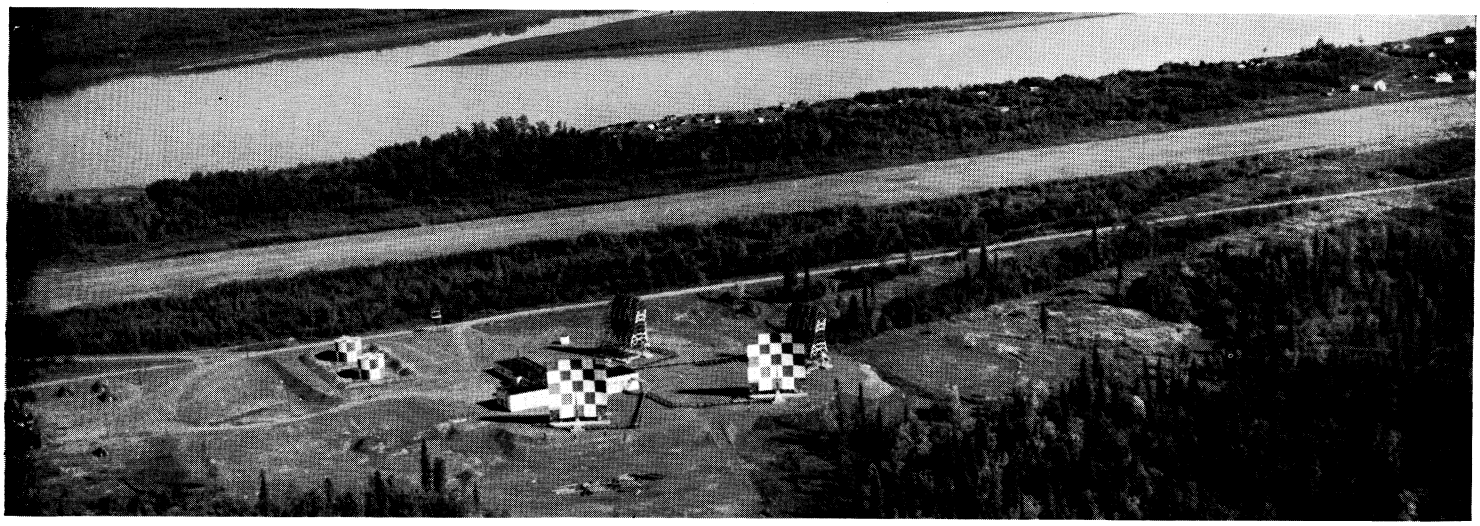


Stations and strange antennas symbolize a victory for progress over the harsh land of the North.





The route of White Alice. The short sections shown in dashes are the only places where conventional type of relay systems could be used.



White Alice stations are of different size and shape, each a distinctive landmark from the air.

The job done, one of the 3,500 men of White Alice silently contemplates a completed station.

Tailored to Alaska, White Alice conquers Arctic storms and static, as well as the lonely miles.

Constructed for the Air Force to give it essential communication with its bases throughout Alaska, and to provide a link with the remote Distant Early Warning Line radar stations beyond the Arctic Circle, White Alice also serves the Army, the Navy, the Civil Aeronautics Authority, other government agencies and the citizens of the Territory—for it was designed and constructed with all these needs in mind. Circuits in the White Alice Network are made available to the public through the Alaska Communication System, which has the responsibility for providing civilian long distance communications in Alaska.

It has taken three years, and some 3,500 people to build White Alice. Work started in 1955. The first link was completed the following year, and the first call transmitted over it on November 29, 1956.

White Alice is a radio relay communications system. There are 33 stations, where the telephone and telegraph signals are amplified and sent on to the next point. Most of the stations are manned. The network and its stations have been tailored to Alaska. For White Alice has to span vast uninhabited distances. It has to work when Arctic storms batter the installations. It has to conquer atmospheric interference, as well as distance and weather.

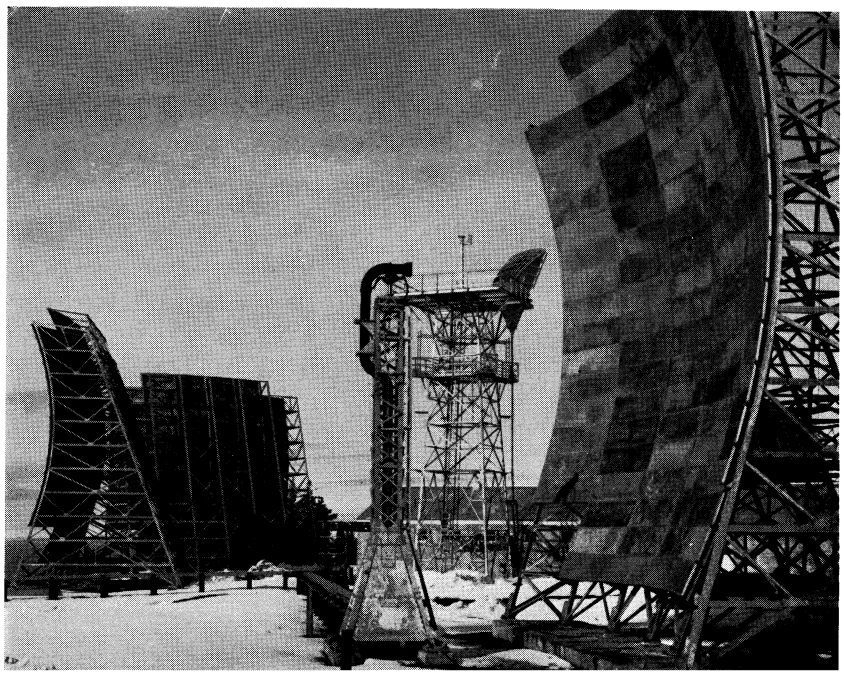
The Story

White Alice was born in May, 1954, when the Air Force asked the American Telephone and Telegraph Company to study the Alaska communications problem. Stated simply, this problem was to provide adequate military and public telephone and telegraph facilities, of the best quality, through regions where they could never before be built.

It looked like a forbidding task. Considering the wild terrain, the fierce weather and the atmospheric difficulties, the problem under study ranked with the most challenging communications projects ever considered.

As the survey progressed, it appeared that a new form of radio, barely out of the laboratory, could do the job. The recommendation was made, and with it the decision.

The Air Force needed far-flung communications for Alaskan operations.

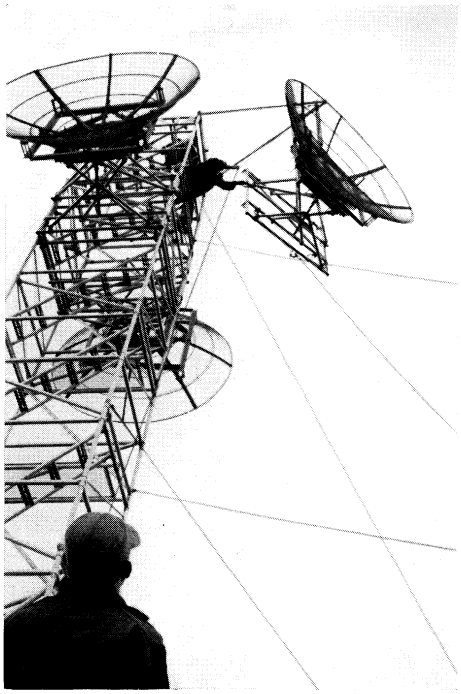


A new form of radio relay was selected as ideal for the job at hand.

Air Force officers and communications experts set up the plans for Project White Alice.

Site selection teams took advantage of summer weather when they could. The season was short.

Helicopters delivered equipment to selected sites for the preliminary transmission path testing operation.



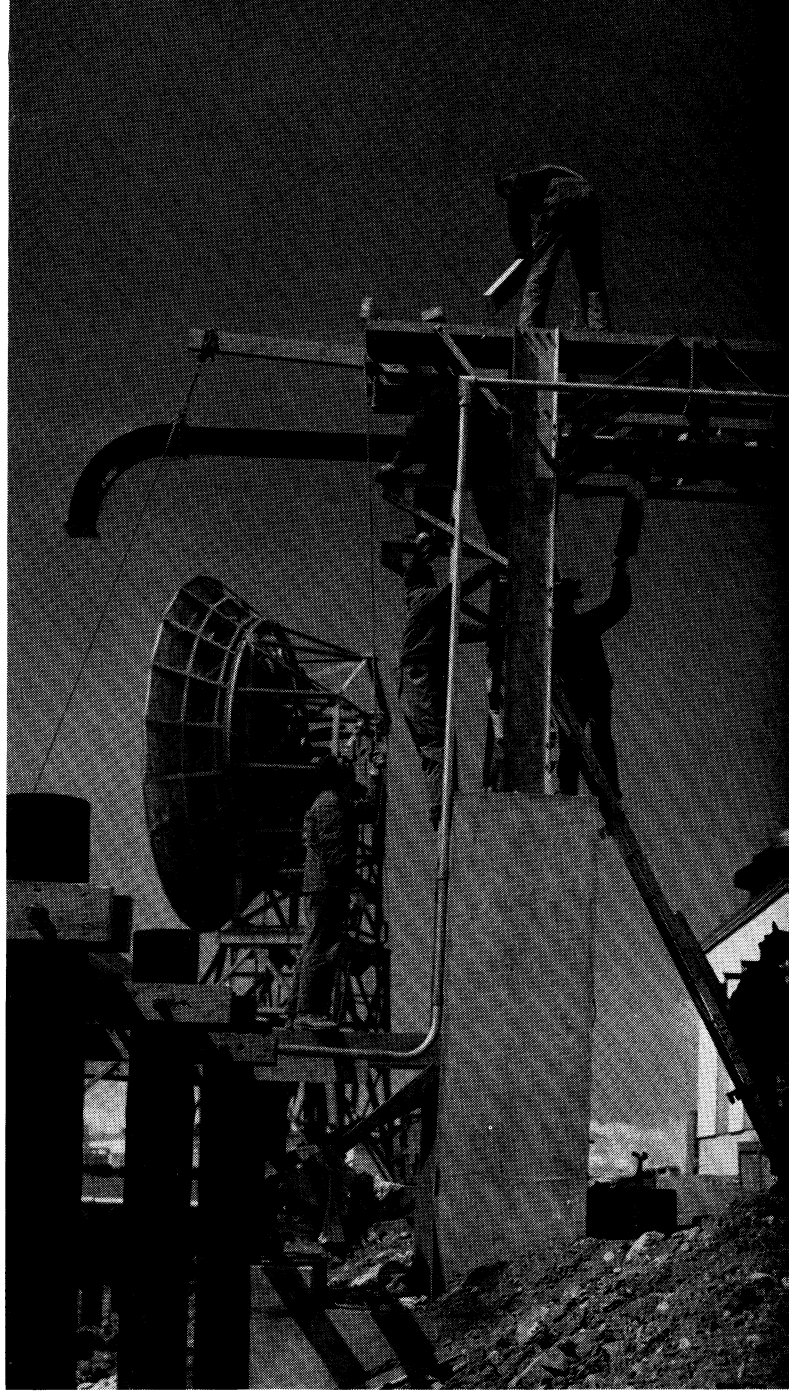
A temporary transmission path testing tower was the first big structure put up at each White Alice site.

Bulldozers panted and strained to gouge foundations, roads, air strips from the unyielding terrain.

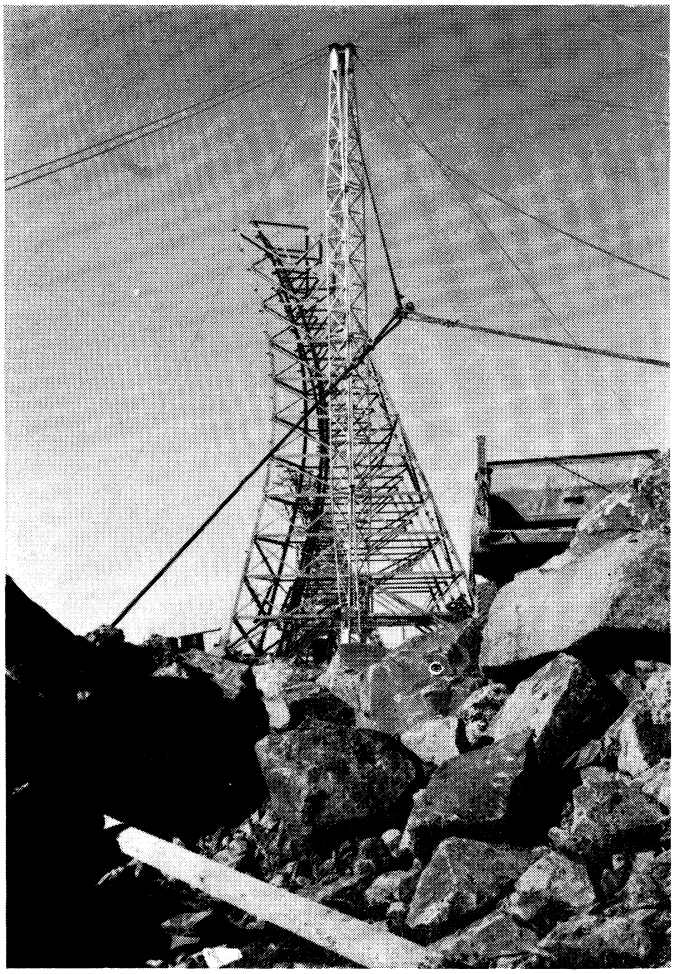
Air Force planes delivered tons of materials to the sites as the permanent construction got under way.

Men and machines drove hard... slowly the land surrendered.

The neighbors were curious. Nobody attempted to find out if they were friendly.



Antennas up, waveguide runs were built to carry signals between antenna and station.

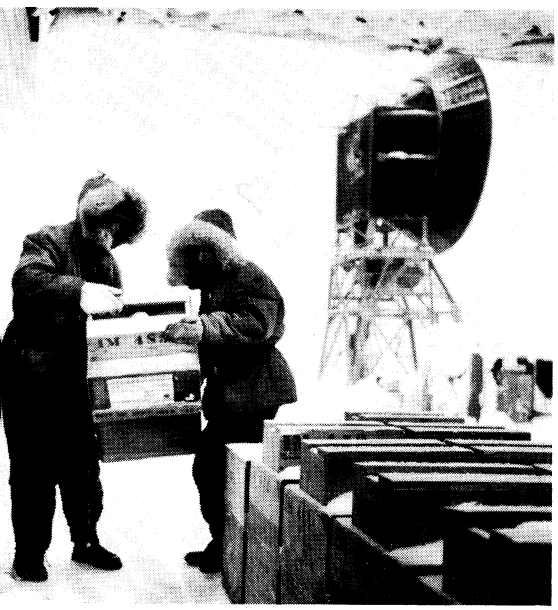


To provide enough room for the lofty sites, tops of mountains sometimes were leveled.

White Alice men used muscle with care in moving heavy, fragile electronic equipment.

Early in 1955, the Air Materiel Command signed a contract with the Western Electric Company to build the White Alice Network. For Western Electric, no stranger to hard assignments in remote places, it meant assembling a team of experts in a score of different specialties. Western drew liberally on its own resources, and those of the other companies of the Bell Telephone System.

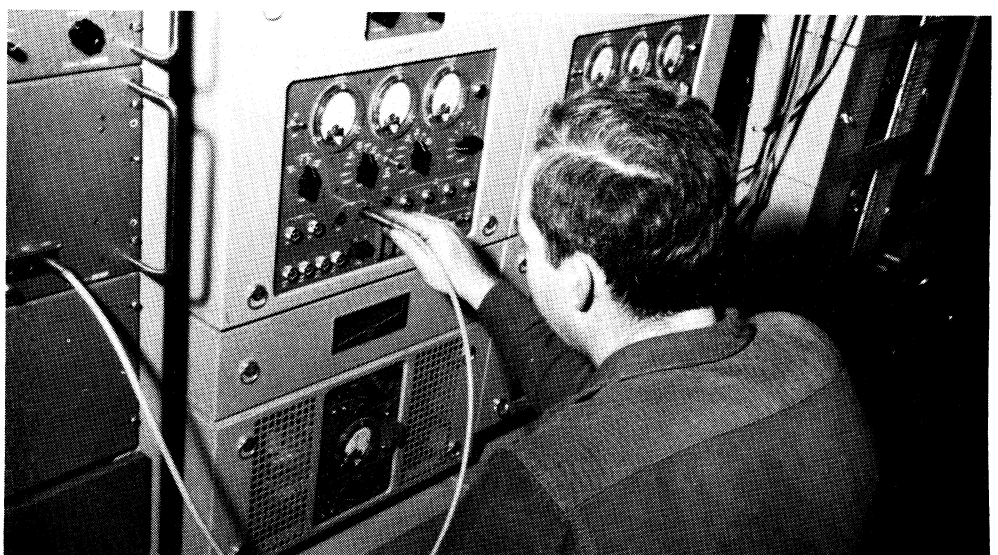
Locating the terminals and laying out the routes was the first step —and a rugged one it was for the men who did the job. Field survey teams explored the areas selected, working with the best maps available. Even then they found some mountains ten miles from their mapped location, and as much as 1,000 feet too low. In one instance, a team considered 48 sites before finding a suitable one. Finding the sites was only the first part of the job. Path testing came next—the testing of a proposed route for transmission characteristics. If the route proved to be a poor one for transmission, the site of a relay station had to be moved until a good path was found, and transmission met the objectives.



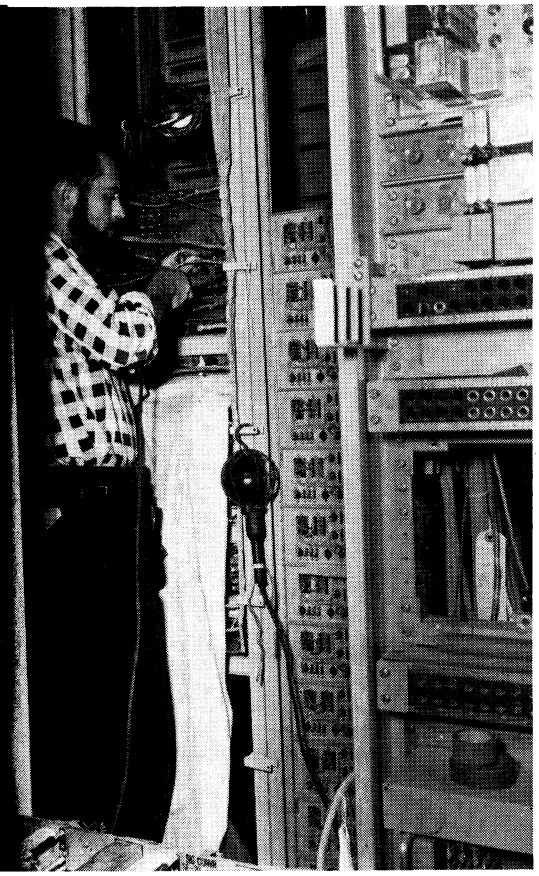
A carboy of acid on the way toward the power room, for charging new batteries.

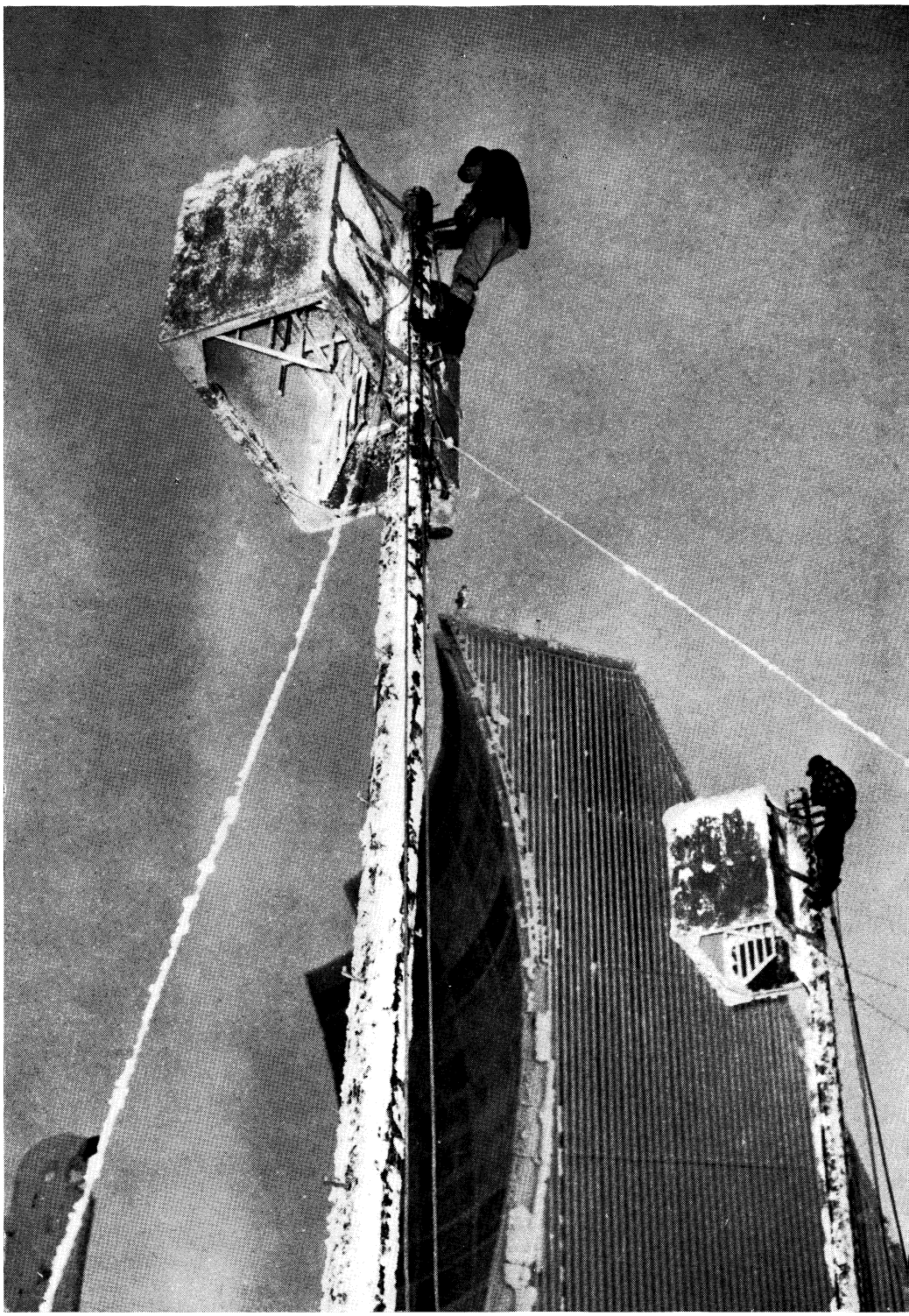
Men and machines from all over the continent arrived in Alaska for the next chapter—construction. The airplane, which has been called the covered wagon of the Arctic, became the work horse of White Alice. Air Force planes manned by seasoned crews, chartered "bush" planes, helicopters and airliners delivered materials to remote wilderness spots. Often, the air route was the only way to get there. Many air strips had to be built. To provide enough room for some of the lofty sites, the tops of mountains were leveled. Finally the antennas rose in the air, and the delicate electronic equipment was installed in the stations by telephone men who came to Alaska from the Bell companies.

Hundreds of American firms—Western Electric, the prime contractor; Morrison Knudsen, the chief construction firm; the smallest supplier—did their jobs on tight schedules. The Army's Corps of Engineers built ten of the stations. The Air Force, with planes and 'copters, performed remarkable feats. And in building White Alice, remarkable feats were common events.



Testing followed all phases of the intricate installation work, for peak performance.





Installation men adjusted plastic housings protecting small antennas from ice and snow. Big antenna, in background, is heated.

To the skilled installers, White Alice was millions of colored wires, each with a beginning, an end and a purpose.

Beyond The Horizon

Alaska is not a land which is kind to telephone lines. Maintenance of poles, wire and cable becomes a constant struggle with weather and terrain. In some areas, wire routes cannot even be built. So it was that a recent development in radio relay came to be selected as the invisible wires of the White Alice Network.

A few years ago, it was believed that radio signals of the type used for beaming telephone calls and telegraph messages from point to point were effective only for "line-of-sight" use. They were thought to fade out rapidly beyond the horizon.

Evidence that this was not true in practice became apparent through a number of curious incidents, which began attracting attention during World War II. Cases were noted where radar sets picked up targets at distances theoretically well beyond maximum range. Other examples showed up in telephone microwave radio relay systems. Signals from a transmitter were received at distant stations as well as the intended one, causing considerable interference.

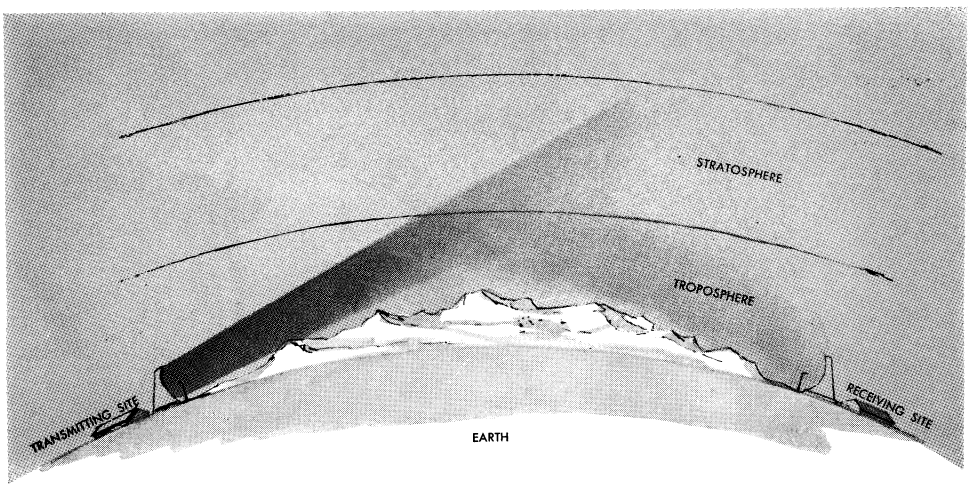
After studying this phenomenon in detail, and summarizing all the available information, Kenneth Bullington, a Bell Telephone Laboratories scientist, was able in 1950 to show that transmission beyond the horizon was possible from a practical standpoint. Far from being a problem, it could open the door to high-quality communications service in areas where conditions prevented frequent relay points.

Without this discovery, there might never have been a White Alice Network in Alaska. Of the 33 relay stations, 23 use the new technique, now appropriately known as "beyond horizon" radio.

Its most important virtues are that it can span vast, rugged distances, and it is static-free. Thus it overcomes both meteorological conditions and forbidding terrain. These are the factors that have always plagued communications in the far North.

The signposts of this unique radio system are its huge antennas, which have become landmarks at most White Alice Stations across Alaska. There are two types of antennas—a 30-foot, dish-shaped structure, and a 100-ton, scoop-shaped antenna, which looks not unlike a drive-in movie screen.

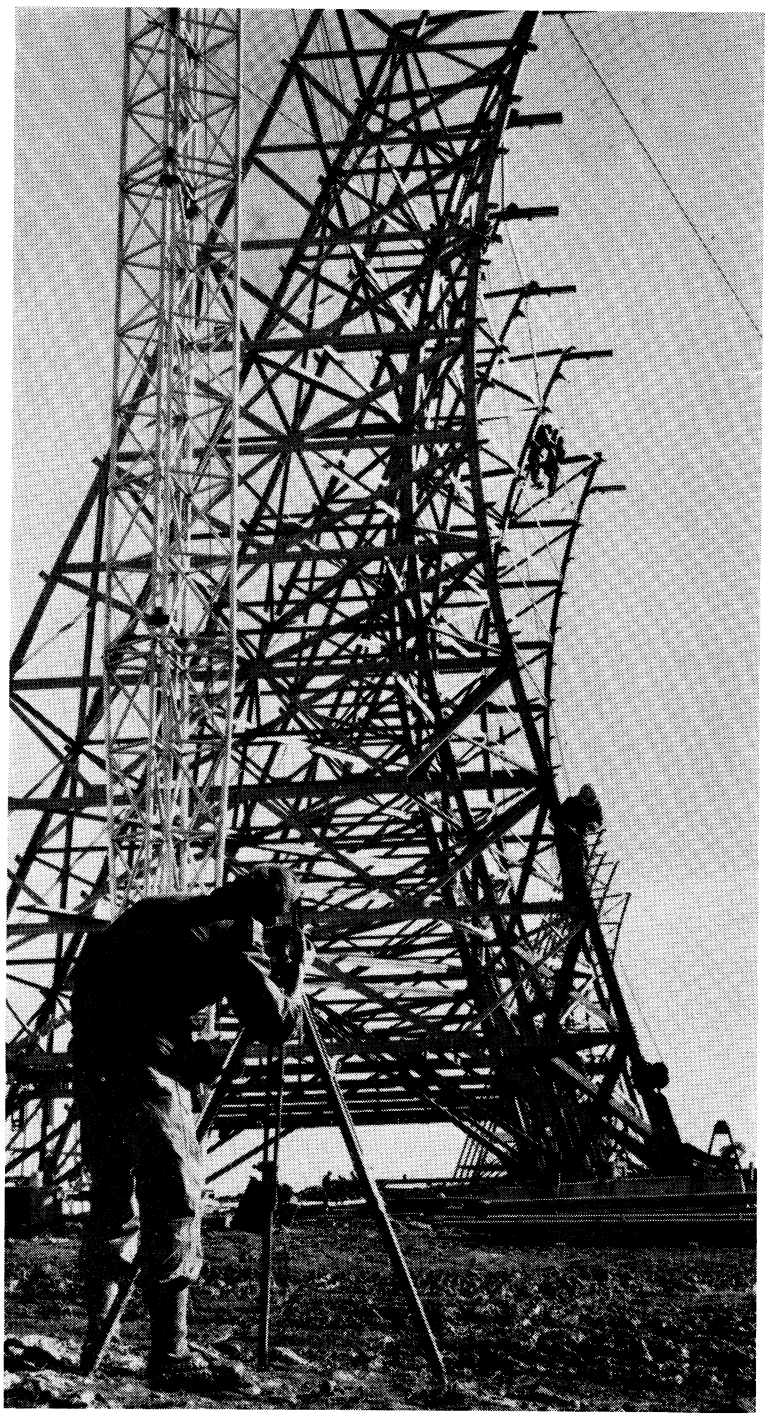
A "dish" antenna, one of the two types used in the White Alice beyond horizon system. Its face measures 30 feet across.



The antennas direct a radio beam toward the next station, hidden by topography and curve of earth. Scattered in troposphere, a tiny fraction of the signal arrives at the distant station.

The ponderous transmitting and receiving scoops are aimed toward the antennas at the next station, which may be as much as 170 miles away. The aim must be precise. The antennas cannot be off as much as a twentieth of a degree. They were carefully positioned and carefully built. Once up, the massive structures could not be re-aligned.

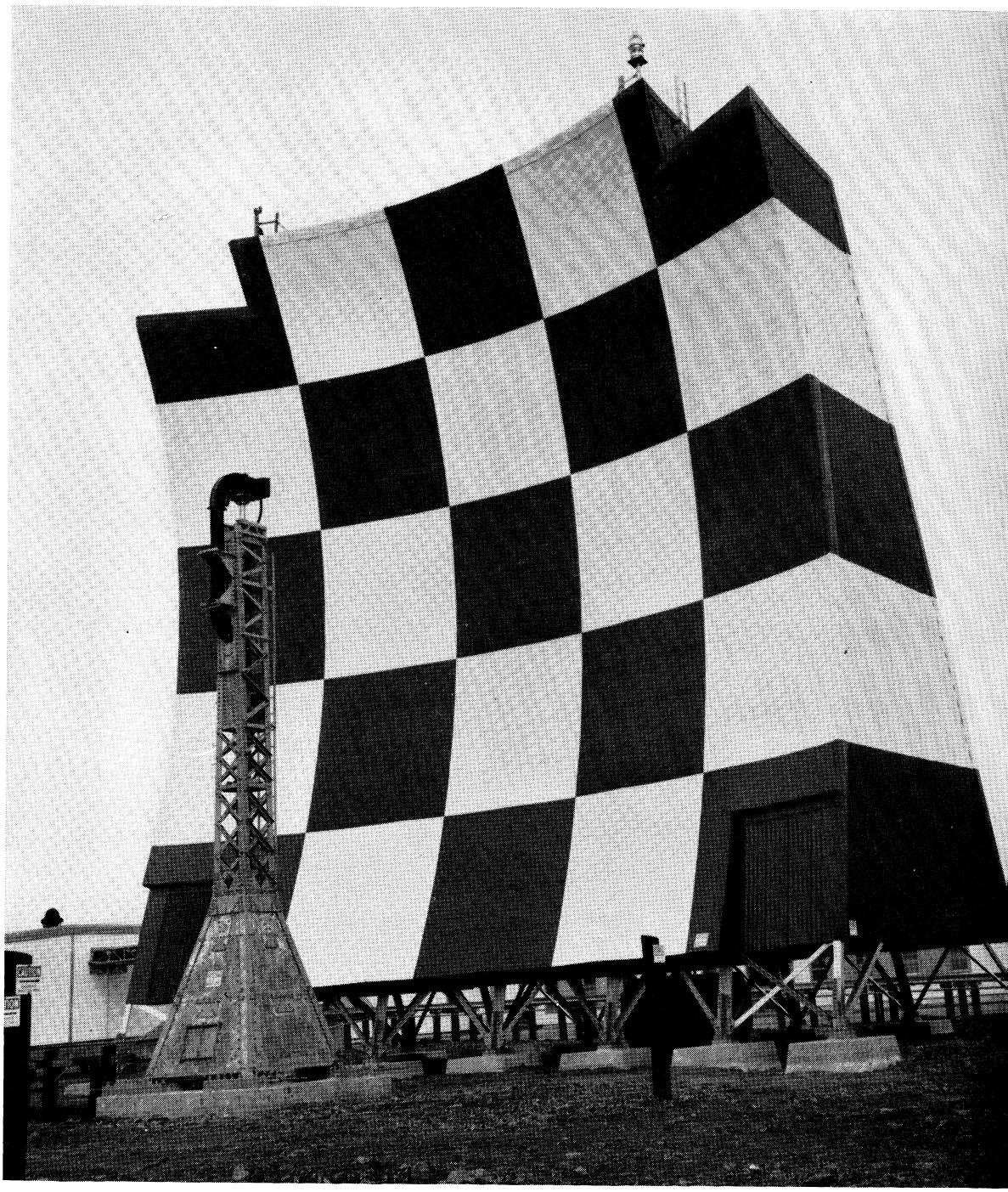
When the powerful radio signal leaves the transmitting antenna, it shoots out toward the horizon in a straight line. Traveling through the air, a minute portion of the radio waves is scattered downward in the troposphere—the air envelope about five miles thick, surrounding the earth. The faint signal that arrives at the receiving



Constant check of antenna positions was required during construction. Their alignments had to be precise.

antenna is only about one ten-trillionth the strength of the one transmitted. This tiny part of the signal is picked up by the distant receiving antenna, amplified and sent along the route by repeating the process of transmission, scatter, and pick up. From this process the technique has acquired an impressive professional name, "forward propagation tropospheric scatter."

From a start as a freak and even a nuisance, beyond horizon radio has become a useful and respected servant. Its practicality and versatility have been demonstrated by White Alice, and communications people expect its use to spread to many parts of the world.



"Scoop" antenna, 60 feet tall, resembles outdoor movie screen. Checker pattern marks it as obstacle to fliers.

The People

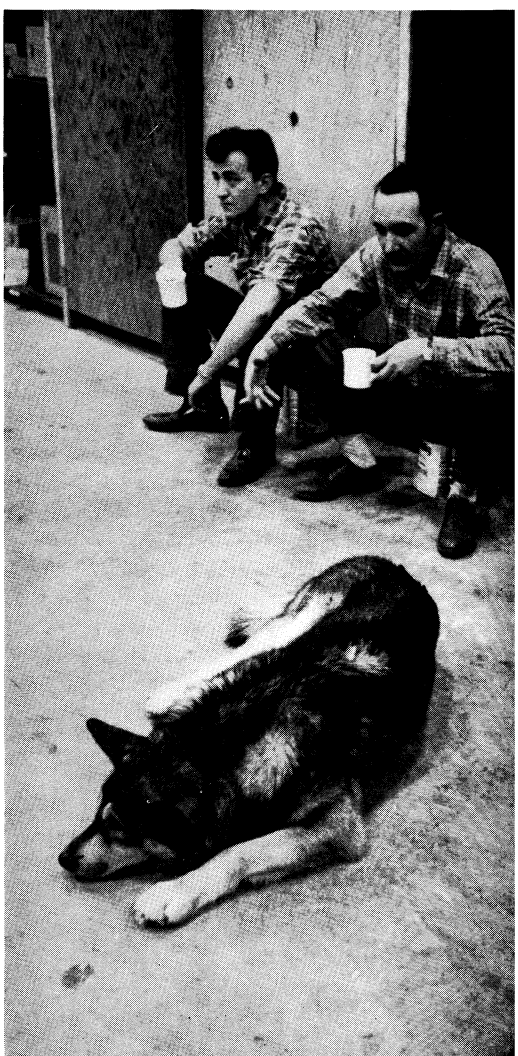
Skill, ingenuity and courage built White Alice. These qualities were outstanding among the 3,500 men and women who performed the countless tasks and put together the billion pieces to make the network.

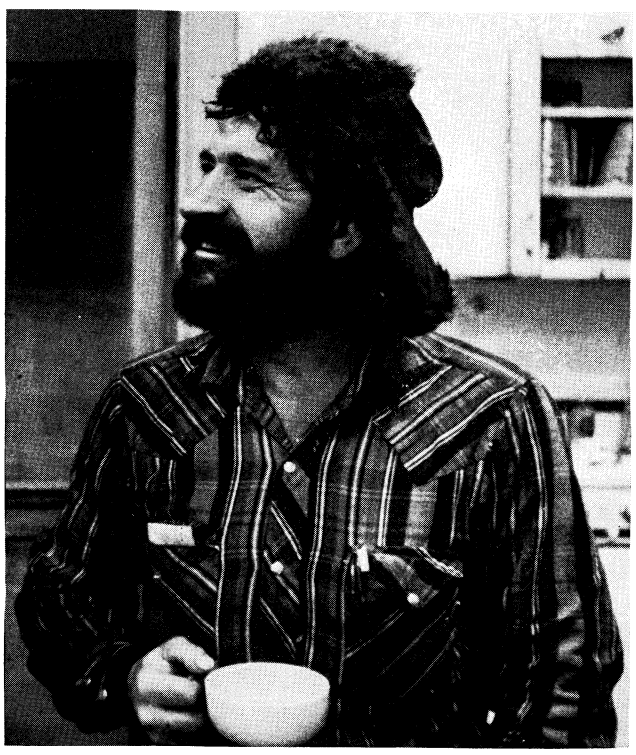
At the sites themselves, men from Alaska and many states built living quarters and operating installations under conditions they had never encountered before. Some of them hacked through woods and swamps to determine whether a preselected site would do. Others packed loads up mountains when helicopters couldn't fly and schedules couldn't wait. Construction men put up steel and put down concrete, and then frequently fought the elements to keep them there.

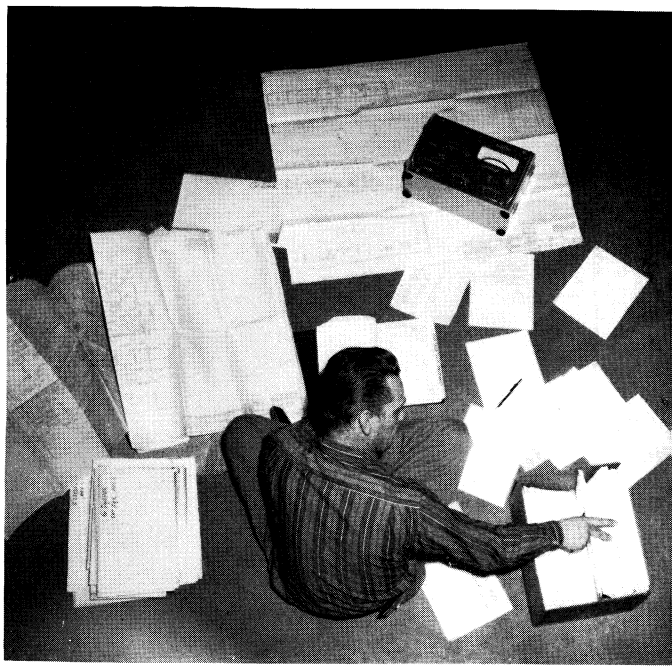
Supporting the efforts of those at the stations were the building experts, engineers and businessmen in the background. There were specialists in buying and shipping. There were secretaries and typists. There were factory workers and transportation people. There were the employees of more than 800 suppliers, who produced materials and equipment for the project.

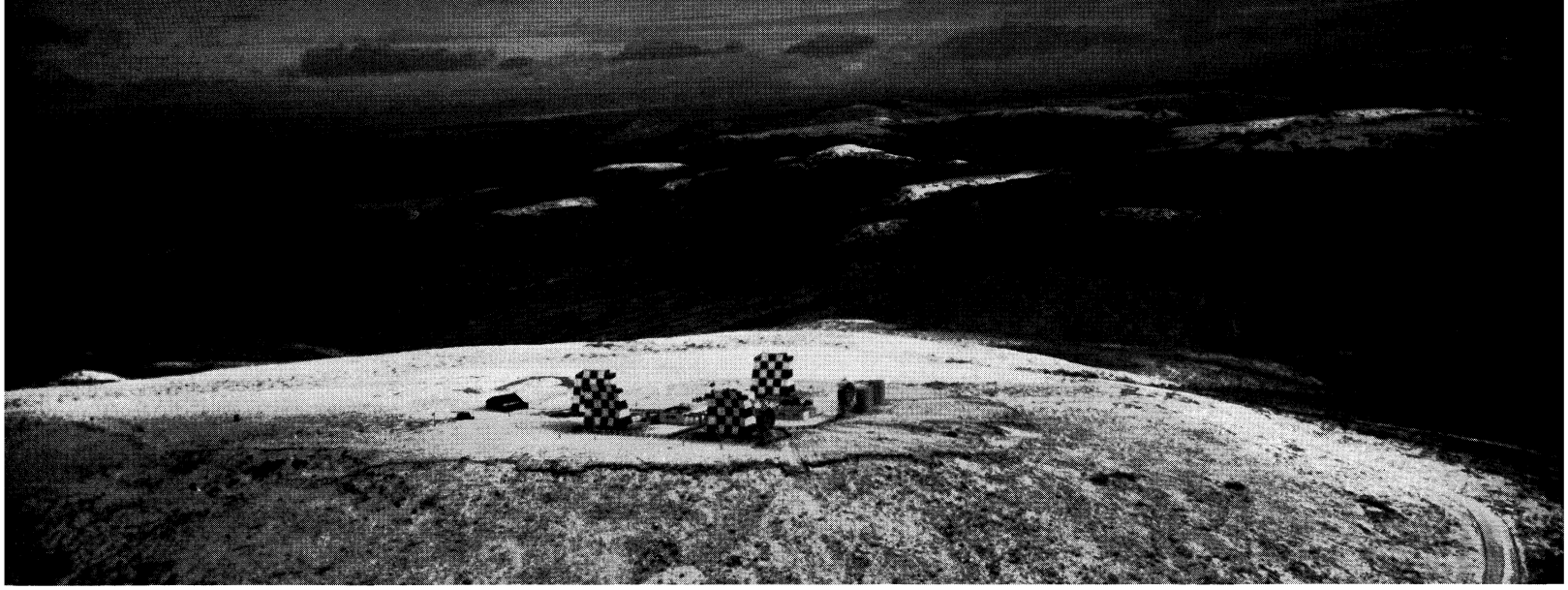
There were many people.

For those who built it, White Alice was a challenge and triumph.







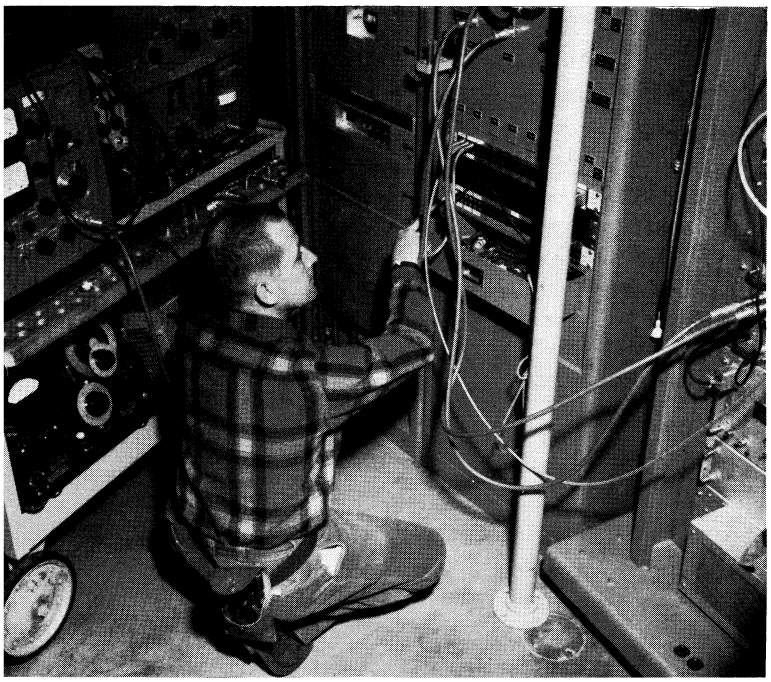


The Stations

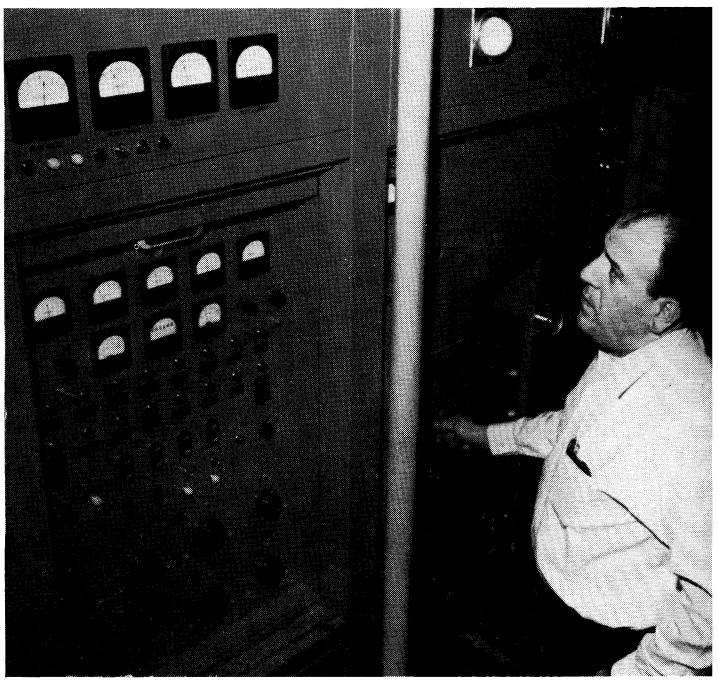
One or two low buildings, dwarfed by several huge antennas; this is a White Alice Station. Almost as often as not it is perched on a mountain top.

Movies two or three times a week, hi-fi record outfits, ping-pong tables, cards, and, where possible, outdoor recreational facilities, enliven the routine at isolated stations. Not too hard to take is life on a mountain top in Alaska today.

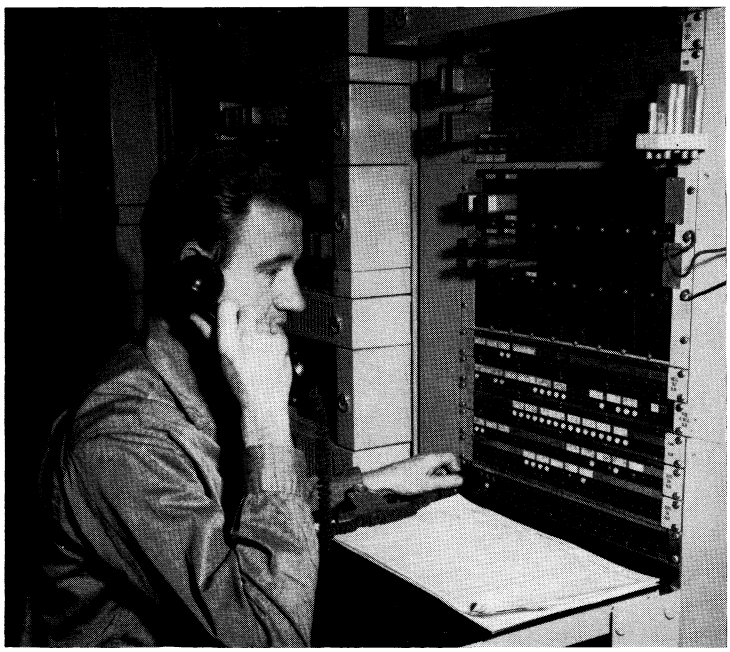
The fastest trail down is for he who can ski.



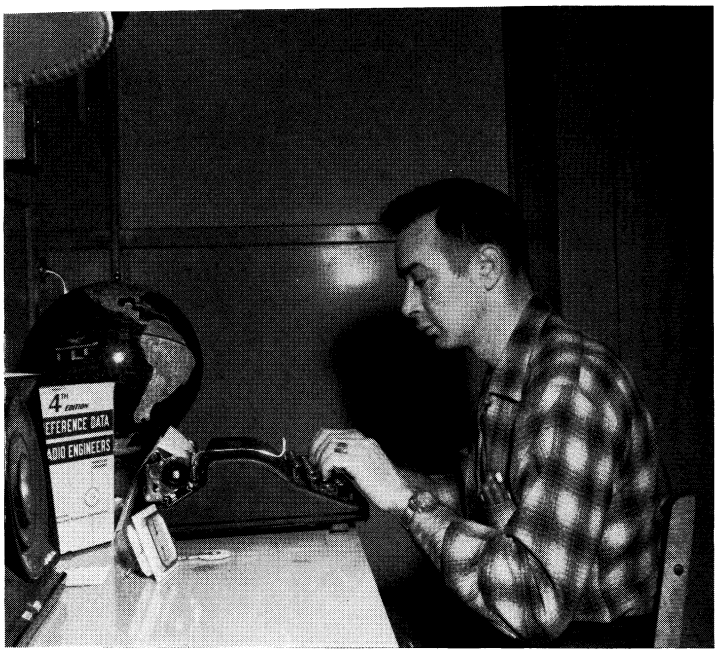
Testing a transmitter with many instruments.



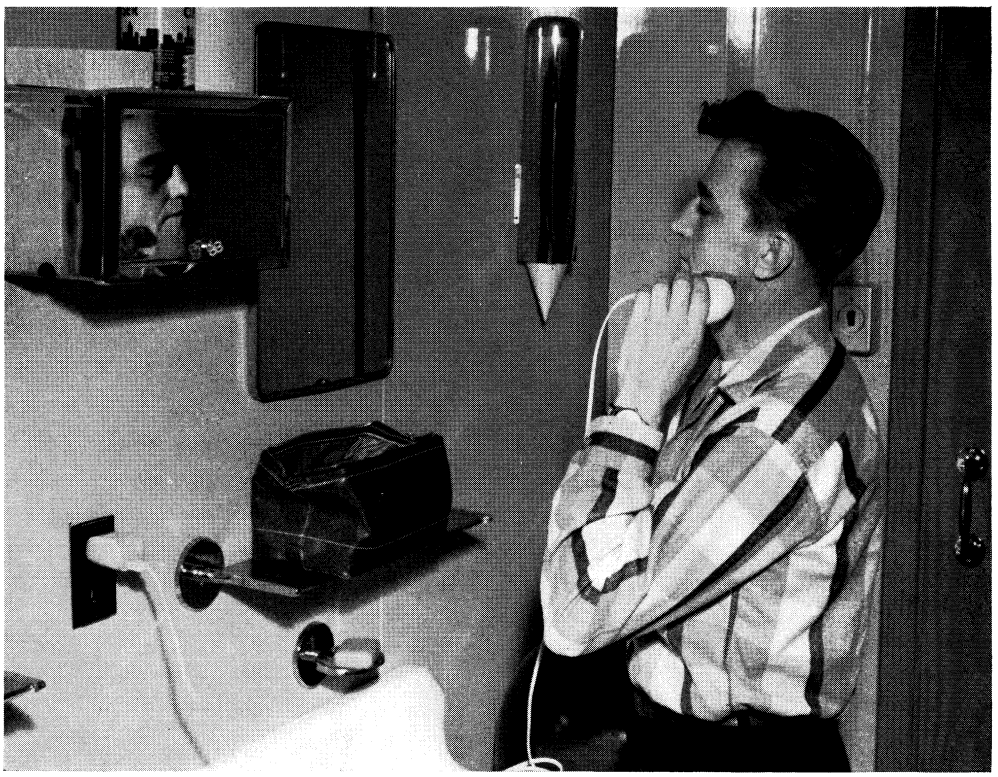
Station supervisor regulates his equipment.



A call on the order circuit to a distant station.



Time for study before the next duty tour begins.



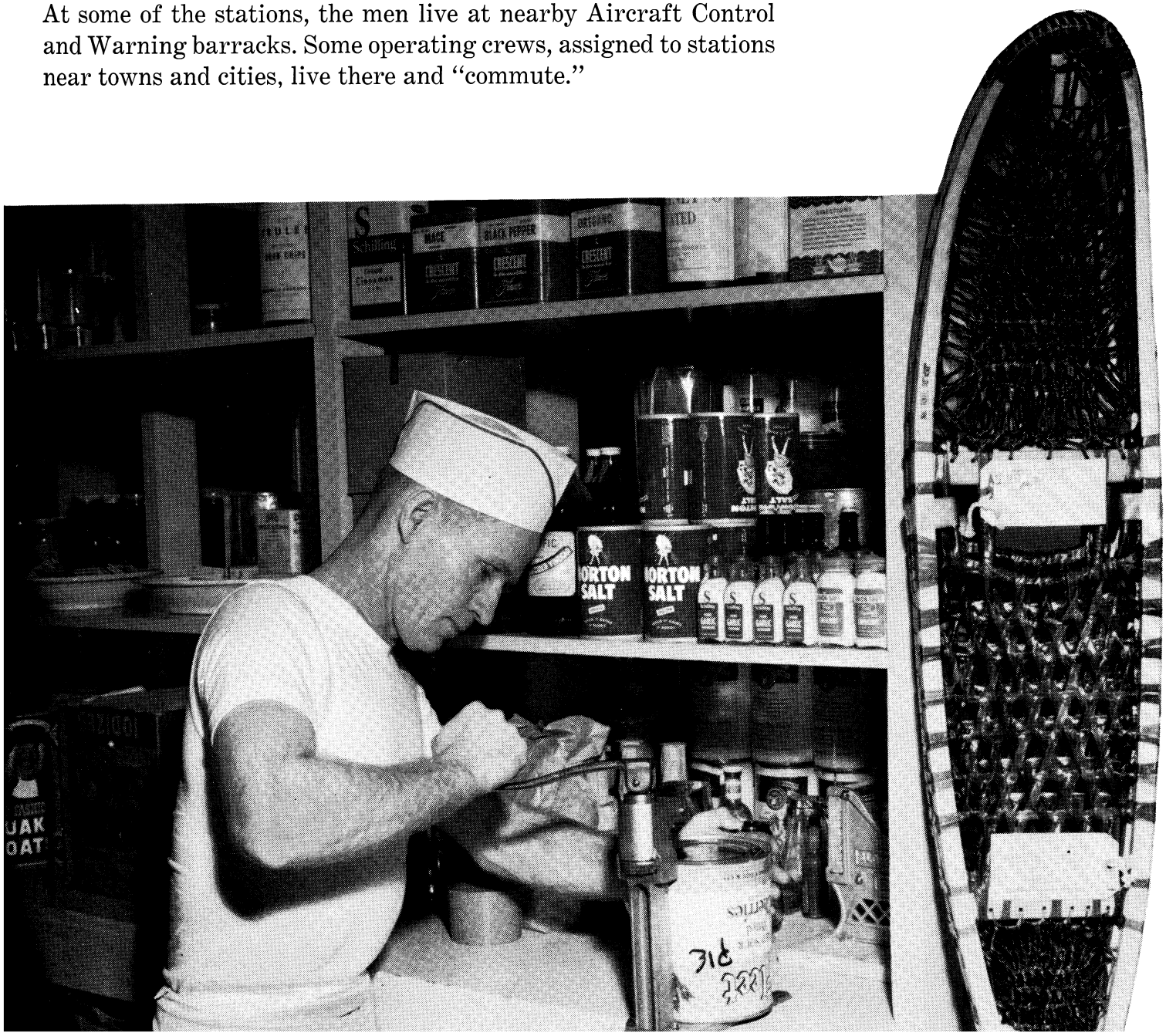
Modern facilities ease life on isolated peaks.

The recreations and comforts make living conditions as agreeable as possible for the men who live at White Alice stations. The Federal Electric Corporation maintains and operates the network under direction of the Air Force. Good food, prepared in stainless steel kitchens, and served family style is an important part of station life. There are food storage facilities holding a year's supply at remote locations.

Tastefully furnished in maple and decorated in pastel blues, yellows and pinks, the station dormitory provides bedrooms for 12 to 16 men, two in each room. The bedrooms are furnished with maple chests and chairs finished in "smoky pine." At one end of the building is the combination dining and recreation room with desks, lamps and settees.

At some of the stations, the men live at nearby Aircraft Control and Warning barracks. Some operating crews, assigned to stations near towns and cities, live there and "commute."

Good food is important. Some stations stock a year's supply. The snowshoes are not on the menu.



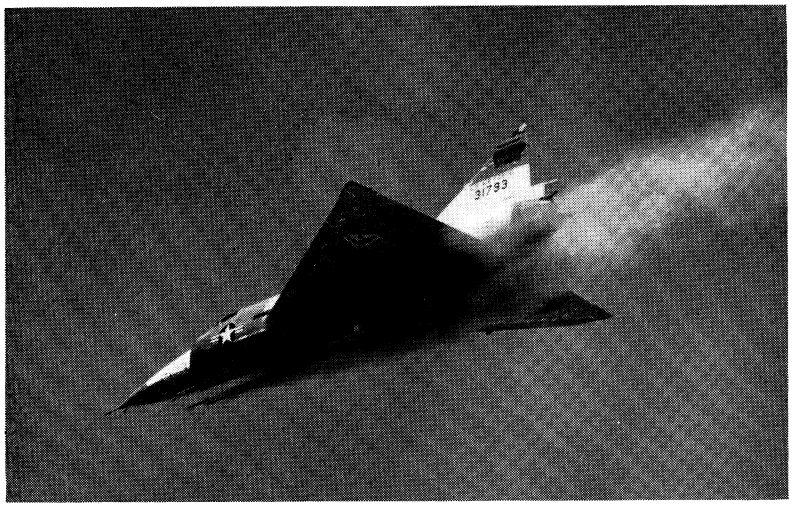
Alaska's Air Defense

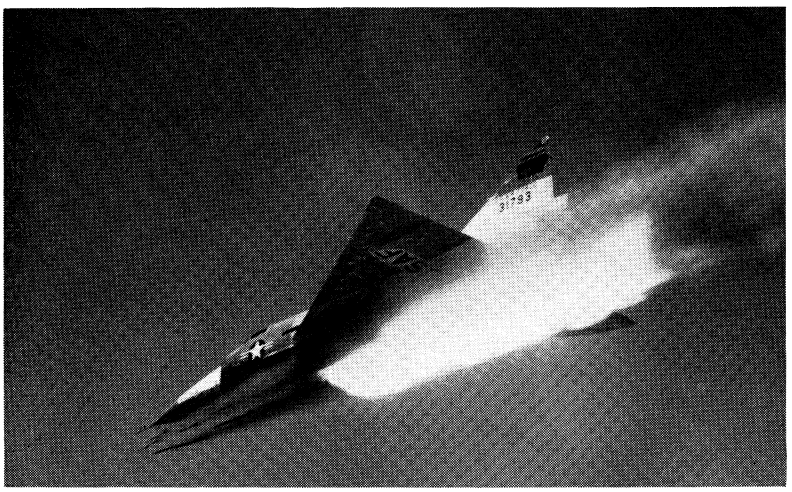
In the age of the jet bomber and the guided missile, the northern outposts of our continent have become the most direct aerial avenue for an attack against the United States. And simultaneously, Alaska—the nation's polar frontier—has become a front line base for both our air defense and retaliation.

Above snow-capped ramparts, the Alaskan Air Command guards the roof of North America. The Alaskan Air Command is in charge of the White Alice Network as part of its three-fold mission: to furnish expeditious warning to the United States of an aggressor attack; to defend Alaska and all its holdings in the air, and to provide a launching platform for retaliatory Strategic Air Command aircraft.

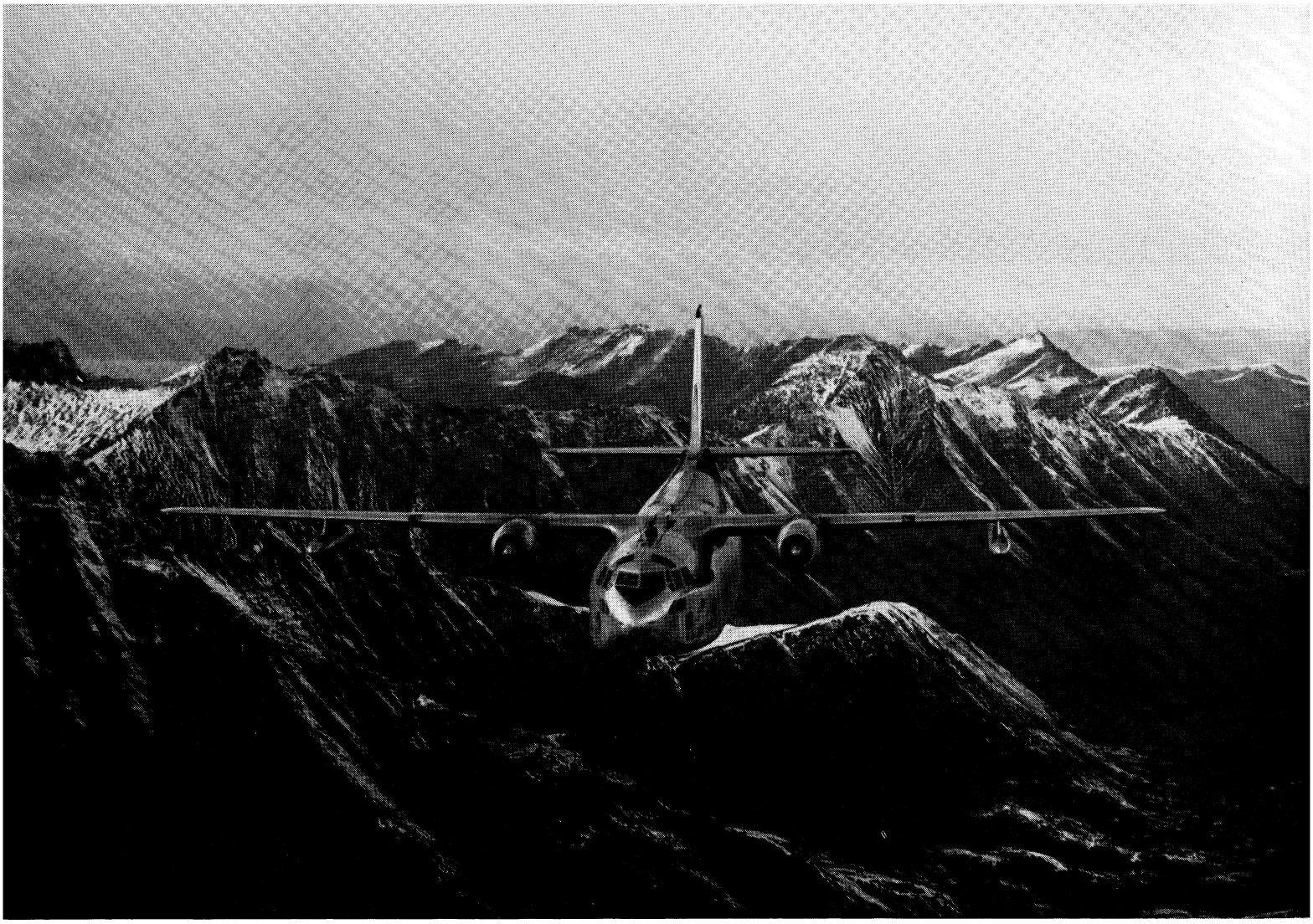
Compounding the difficulties of this mission are the forces of nature, at work over a land area of 586,400 square miles. But distance and the elements have succumbed to the imagination of man in Alaska. The White Alice Network is the most recent example.

White Alice provides communication to the Distant Early Warning Line above the Arctic Circle. In addition, it ties together 30 Aircraft Control and Warning Stations under control of the Alaskan Air Command. These isolated sites are scattered strategically along the Bering Sea Coast, the Arctic Slope and throughout Alaska's interior. They are operated and supported by this Command.



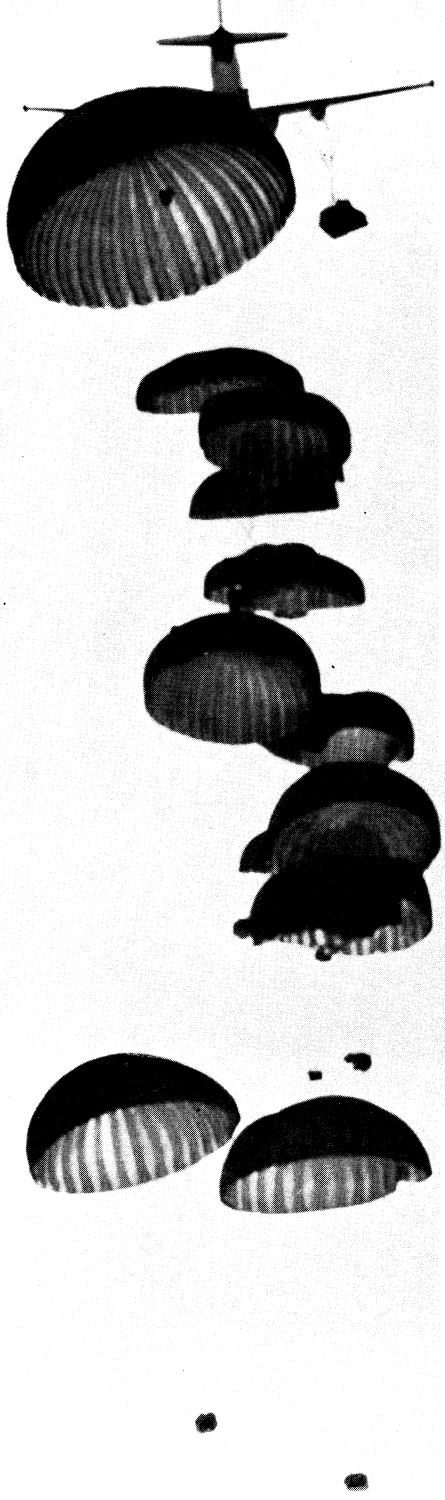


An F102A "Delta Dagger," the type flown by the Alaskan Air Command, fires its 24 rockets in photos taken a split-second apart.



Above snow-capped ramparts, the Alaskan Air Command patrols the blue roof of North America.

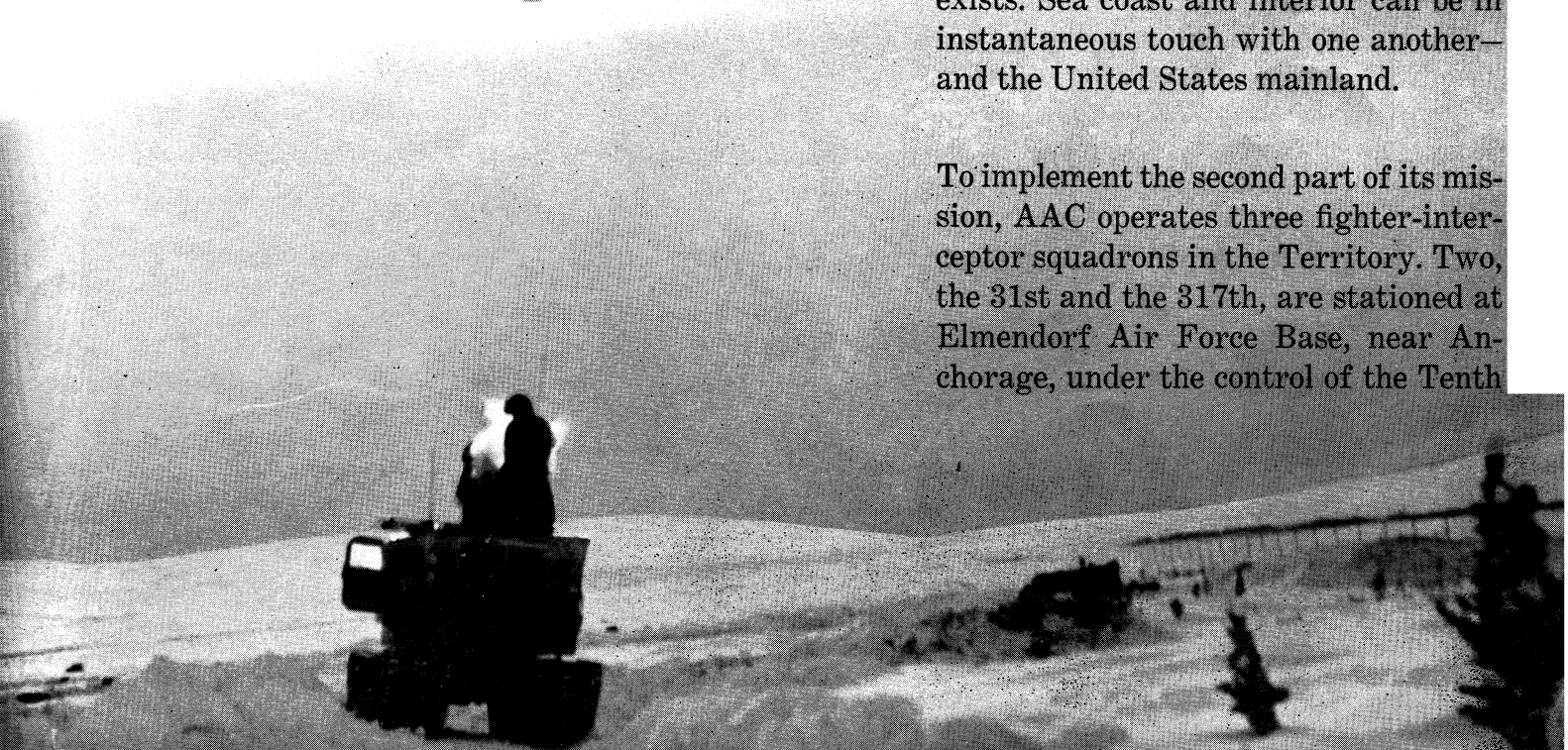
Air Force pilots master plane strips like this uphill one, where landings are made in climbing attitude.



Responsibility for directing White Alice so as to serve these stations and also provide other military, government and civilian communications is assigned to a special branch of the Alaskan Air Command – ICSAL, meaning Integrated Communication System, Alaska.

Now, with static-free communications assured between its remote warning stations, AAC's ability to perform the vital first part of its mission is visibly enhanced. From Cape Lisburne, on the Territory's northwest shoulder, to Middleton Island, in the Gulf of Alaska, an unbroken line of communication now exists. Sea coast and interior can be in instantaneous touch with one another—and the United States mainland.

To implement the second part of its mission, AAC operates three fighter-interceptor squadrons in the Territory. Two, the 31st and the 317th, are stationed at Elmendorf Air Force Base, near Anchorage, under the control of the Tenth



Air Division. Equipped with the F-102A "Delta Dagger," they are the mainstay of the Tenth Air Division, responsible for aerial defense south of the Alaskan Mountain Range.

North of the range, the Eleventh Air Division is on guard. With headquarters at Ladd Air Force Base, near Fairbanks, the Eleventh operates the 449th Fighter Interceptor Squadron, equipped with the most improved model of the F-89 "Scorpion" jet.

Twenty-six miles south of Fairbanks, along the Alaska Highway, lies Eielson Air Force Base, the "launching platform for Strategic Air Command retaliatory aircraft." The base is operated by the Alaskan Air Command. SAC bomber units share this vital northland duty on a rotational basis. Their giant jet bombers have become a familiar sight to Alaskans as they criss-cross the Arctic on seemingly endless training flights. And they serve as a constant reminder of the Air Force's retaliatory strength against potential aggressors.

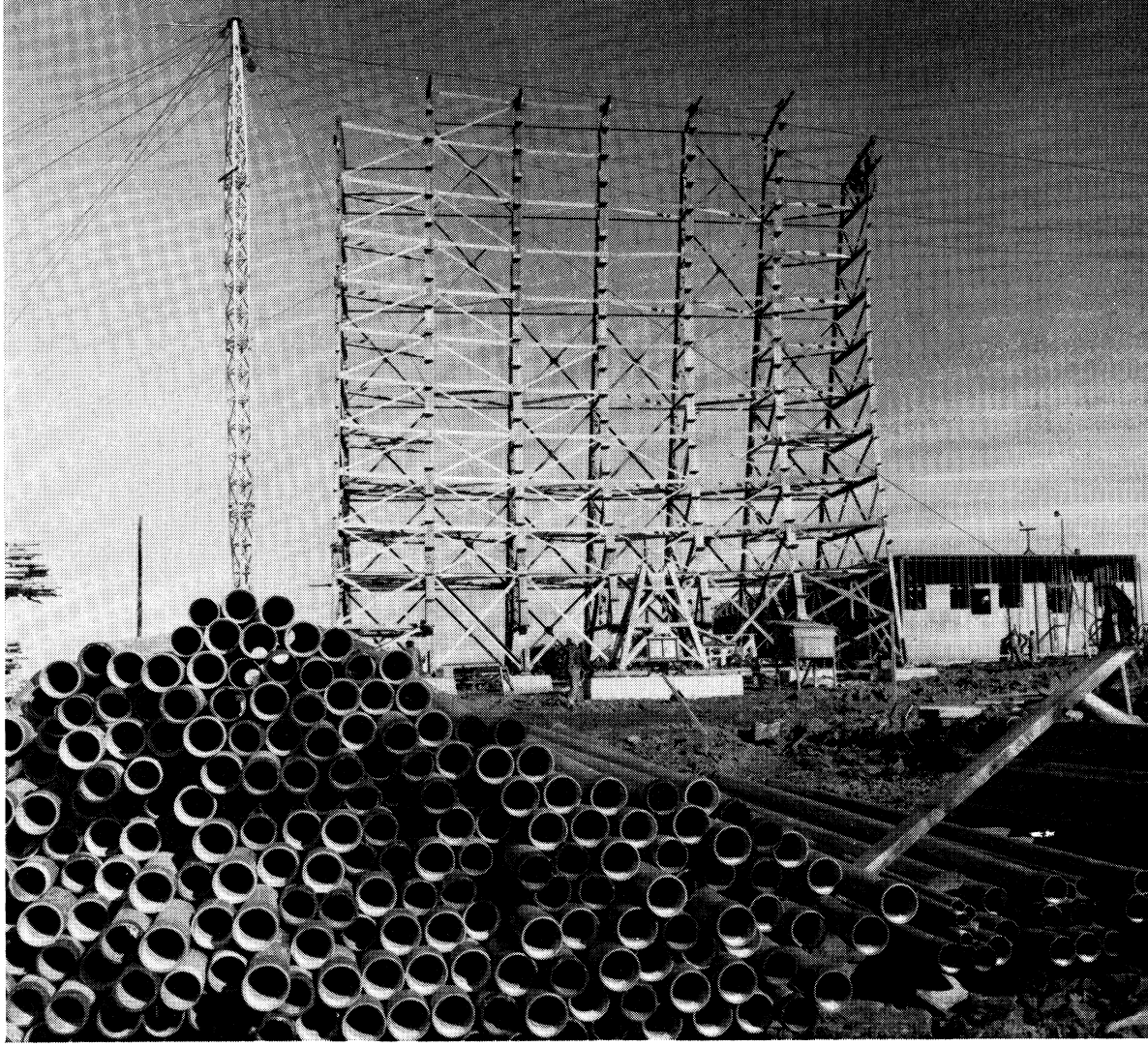
While discharging its peacetime obligations, the Alaskan Air Command performs a number of varied functions, including participation in Arctic maneuvers, and cold weather experimentation and testing. It actively assists in all northland rescue efforts. In addition, the Command supports a number of special projects, both civilian and military. These include certain geological expeditions, programs of polar research and a continuous Arctic mapping survey.

Under the command of Brigadier General Kenneth H. Gibson, AAC's ability to discharge its assigned mission has steadily increased. Today, it is an indispensable adjunct of the North American Air Defense Command. And as the Alaskan Air Command moves into the age of guided missiles, the need for instantaneous and reliable communications becomes paramount. White Alice is making its contribution to North American defense at a timely hour.

For The Record...

- The White Alice Network covers 3,000 route miles.
- There are 33 stations in the network.
- They provide 170,000 telephone circuit miles and 50,000 telegraph circuit miles.
- White Alice was built by more than 3,500 people.
- Its cost was about $140,000,000.
- Construction began in 1955.
- Special teams traveled more than 300,000 miles to select the site.
- Building the stations required over 26,600 plane flights.
- The planes carried about 24,000 tons of supplies and 42,600 passengers.

Brought by plane—24,000 tons.



Building materials—64,000 tons.

Petroleum products—2,200,000 gallons.

- The builders used some 64,000 tons of equipment and materials; 2,200,000 gallons of petroleum products; 670,000 cubic yards of gravel.
- They built 60 miles of roads to reach the stations.
- They ate 5,000,000 pounds of food, delivered to the sites.
- They installed and connected 300,000 feet of communications cable.
- The network's power plants can generate enough electricity for approximately 25,000 homes.
- To generate it requires 21,600 gallons of fuel a day.
- The first call was placed over the first completed link on November 29, 1956.
- The White Alice Network was completed and placed in full operation on March 26, 1958.

MEN AND WOMEN OF WHITE ALICE

A total of 821 Bell System people came to the Project from 17 companies. Their names, company affiliations, occupations and home addresses are listed below.

American Telephone and Telegraph Company

*E. L. Albin	(C.O.) Supervisor	Vandalia, Ill.
D. G. Allison	Supervisor Foreman	Kansas City, Mo.
W. Arcand	District Plant Supervisor	Newark, N. J.
*A. D. Arico	Acctg. Results Assistant	New York, N. Y.
*D. J. Armstrong	Trans. Maintenance Man	Tulsa, Okla.
*N. T. Barnett	Toll Testman	Montgomery, Ala.
*B. G. Bean	Trans. Maintenance Engineer	Cincinnati, Ohio
J. T. Belford	Equipment Maintenance Man	St. Louis, Mo.
R. Bruce	Plant Engineer	Cincinnati, Ohio
D. H. Bruette	Transmission Man	Elizabethtown, N. Y.
E. J. Bucher	Transmission Supervisor	New York, N. Y.
J. L. Buck	Transmission Man	Dayton, Ohio
W. H. Canada	Equipment Maintenance Man	Washington, D.C.
*W. W. Carney	Transmission Man	Augusta, Ga.
R. R. Carver	Senior Lineman	Cincinnati, Ohio
C. D. Chapman	Groundman	Cincinnati, Ohio
J. T. Charlson	Equipment Maintenance Man	Amarillo, Tex.
W. L. Christensen	Equipment Maintenance Man	North Platte, Nebr.
*J. F. Cipra	Staff Supervisor	Kansas City, Mo.
*W. E. Clark	Transmission Man	Indianapolis, Ind.
L. W. Claussen	Division Plant Superintendent	Washington, D.C.
H. R. Cochran	Material Man	White Plains, N. Y.
*G. T. Coker	Engineer	Denver, Colo.
R. L. Collinson	Craftsman	St. Louis, Mo.
R. L. Copley	Line Foreman	Cincinnati, Ohio
E. J. Courtain	Transmission Tester	Minneapolis, Minn.
*A. C. Cowan	Craftsman	Pittsburgh, Pa.
*P. H. Currier	Engineer	Chicago, Ill.
M. De Petris	Telegraph Serviceman	Pittsburgh, Pa.
E. H. Dodge	Division Plant Superintendent	Springfield, Mass.
W. K. Dozier	Lineman	Cincinnati, Ohio
**J. J. DuPre	Technical Operator	Oakland, Calif.
*P. J. Eastman	Staff Asst.	New York, N. Y.
*W. F. Ellsworth	C. O. Supervisor	Iowa City, Iowa
*W. A. Enick	Equip. Maintenance Sup.	New York, N. Y.
*O. Eriksen	Transmission Supervisor	New York, N. Y.
W. J. Fletcher	Equipment Maintenance Man	Glens Falls, N. Y.
N. B. Fowler	Circuit Layout Engineeer	New York, N. Y.
*W. D. Freezee	Engineer	New York, N. Y.
*H. M. Furr	Engineer	Atlanta, Ga.
H. F. Gnecco	Transmission Supervisor	New York, N. Y.
*F. C. Guthrie	Supervising Foreman	Kansas City, Mo.
*R. A. Haley	Transmission Man	Boston, Mass.
*J. E. Hamberg	Staff Assistant	White Plains, N. Y.
H. R. Hammond	Equipment Maintenance Man	Danielson, Conn.
*L. J. Hargis	C. O. Chief	Knoxville, Tenn.
B. P. Harris	Lineman	Cincinnati, Ohio
*H. C. Harris	Outside Plant Engineer	Cincinnati, Ohio
M. L. Helton	Transmission Man	Wheeling, W. Va.
*E. J. Henley	Toll Transmission Man	Chicago, Ill.
M. F. Henson	Staff Supervisor	Cleveland, Ohio
M. R. Hessin	Division Plant Superintendent	Denver, Colo.
*H. B. Hostetter	Equipment Maintenance Man	Harrisburg, Pa.
**L. J. Houck	District Plant Superintendent	St. Louis, Mo.
F. T. Hover	Equipment Maintenance Man	New York, N. Y.
*R. G. Jaeger	C. O. Supv.	New York, N. Y.
*W. T. Jefferey	Equipment Maintenance Man	Peoria, Ill.
W. L. Jones	Lineman	Cincinnati, Ohio

* *Still assigned to Defense Projects*
** *Deceased*

American Telephone and Telegraph Company

*O. W. Kammerer	Assistant General Manager	New York, N. Y.
*W. J. Keas	Equipment Man	Tulsa, Okla.
R. J. Keiffer	Chief Test Boardman	Cleveland, Ohio
*F. J. Kellett	Transmission Man	Newark, N. J.
J. J. Leahy	Equipment Maintenance Man	New York, N. Y.
L. T. LeCerff	Acctg. Results Assistant	New York, N. Y.
*P. F. Maher	Transmission Supervisor	Omaha, Nebr.
D. May	Lineman	Cincinnati, Ohio
*D. Metcalfe	Engineer	White Plains, N. Y.
*G. L. Miguet	Equipment Maintenance Man	Davenport, Iowa
*R. W. Miller	Transmission Man	New York, N. Y.
*H. A. Milne	Division Outside Plant Engr.	Denver, Colo.
*C. R. Moore	Transmission Man	Laramie, Wyo.
*C. R. Morris	Transmission Man	Omaha, Nebr.
*A. O. Myers	Engineer	Kansas City, Mo.
*F. S. Norris	Chief Equipment Man	Kansas City, Mo.
H. O'Neill	Acctg. Results Assistant	New York, N. Y.
W. F. Owen	Div. Tel. Plant Service Sup.	Atlanta, Ga.
A. Oxehufwud	Engineer	Kansas City, Mo.
J. D. Ozier	Line Foreman	Kansas City, Mo.
K. M. Parkinson	Methods Acctg.	New York, N. Y.
*B. W. Pierce	Engineer	White Plains, N. Y.
C. N. Pierce	Transmission Supervisor	New York, N. Y.
J. P. Plummer	Equipment Maintenance Man	Oklahoma City, Okla.
*D. A. Potter	Equipment Maintenance Man	Kansas City, Mo.
*J. W. Purcifull	Engineer	Kansas City, Mo.
J. L. Rhymes	Technical Assistant	Kansas City, Mo.
*G. J. Russell	Transmission Man	New Orleans, La.
*L. M. Schindel	Area Outside Pl. Design Engr.	Kansas City, Mo.
E. R. Schmidt	Equipment Maintenance Man	Denver, Colo.
H. I. Schmidt	District Plant Supervisor	Chicago, Ill.
*C. J. Shelton	Transmission Man	New York, N. Y.
*S. H. Sledd	Lineman	Cincinnati, Ohio
L. J. Smith	Transmission Man	Greensboro, N. C.
C. F. Stallings	Plant Engineering	Dallas, Tex.
O. E. Stancil	Construction Supervisor	Kansas City, Mo.
*R. B. Stecker	Statistician Gen. Acctg.	New York, N. Y.
C. V. Steele	Project Supervisor	Atlanta, Ga.
*W. A. Stetson	Staff Supervisor	Kansas City, Mo.
W. G. Strickland	Line Foreman	Kansas City, Mo.
*M. J. Szklarz	Transmission Man	Chicago, Ill.
*W. A. Teller	Engineer	New York, N. Y.
P. W. Thrush	Staff Supervisor	New York, N. Y.
R. J. Tyborsky	Equipment Maintenance Man	Clarksburg, W. Va.
*L. G. VanLiere	Equipment Maintenance Man	Holbrook, Ariz.
*L. F. Verges	Equipment Maintenance Man	New Orleans, La.
*W. M. Watson	District Plant Engineer	Cleveland, Ohio
*L. B. Widman	Special Assignment Clerk	Kansas City, Mo.
H. H. Wilken	Div. Emp. Welfare Supv.	St. Louis, Mo.
*D. A. Yaap	Equipment Maintenance Man	Dallas, Tex.

Bell Telephone Company of Nevada

W. E. Combs	Transmission Man	Las Vegas
*F. W. Hall	Toll Transmission Man	Elco
*A. J. Tarr	P.B.X. Installer	Reno

* *Still assigned to Defense Projects*

The Bell Telephone Company of Pennsylvania

G. C. Ainsworth	Splicer's Helper	Pittsburgh
J. T. Bickham	Installer	Irwin
W. F. Bowser	P.B.X. Repairman	New Kensington
I. A. Bressler	Field Engineer	Harrisburg
G. O. Brown	P.B.X. Repairman	Pittsburgh
G. H. Chambers	Station Repairman	Pittsburgh
E. W. Drum	Field Engineer	Hazleton
R. W. Forney	P.B.X. Repairman	Stroudsburg
W. J. Frey	Cable Foreman	Jenkintown
R. T. H. Gardener	Accounting Supervisor	Philadelphia
*C. A. Geiger	Switchman	Easton
H. M. Hamilton	Switchman	Pittsburgh
T. M. Harkness	Sr. Staff Asst.	Philadelphia
J. L. Hart III	Engineer	Philadelphia
B. M. Hewett	Switchman	Upper Darby
W. G. Johnson	Station Repairman	West Chester
G. J. Kappel	Repairman	Philadelphia
B. Lare	Line Foreman	Lansdale
C. H. Lewis	Station Installer	Coatesville
J. Lloyd	R/W Repairman	Lansdale
J. S. Lynch	Cable Foreman	Upper Darby
W. W. McCauley	Station Installer	Reading
J. B. McDonald	Switchman	Pittsburgh
C. W. McFarland	C.O. Repairman	Pittsburgh
E. W. F. Mawhinney	Station Installer	Pittsburgh
*J. S. May	P.B.X. Repairman	Pittsburgh
C. D. Mengel	Cable Foreman	Harrisburg
F. E. Moffat	Frameman	Pittsburgh
R. J. Mueller	P.B.X. Repairman	Pittsburgh
*R. F. Rizzi	Station Installer	Philadelphia
L. F. Rotz	Supv. Construction Foreman	Pottstown
J. B. Sessoms	P.B.X. Repairman	Pottstown
D. R. Shafer	Radician Repairman	Pittsburgh
R. E. Smith	Station Installer	Pittsburgh
J. Stephens	Line Foreman	Reading

Bell Telephone Laboratories

*W. G. Domidion	Technical Staff Associate	Murray Hill, N. J.

The Diamond State Telephone Company

L. F. Eckrich	Switchman	Wilmington, Del.
E. C. Reese	P.B.X. Installer	Wilmington, Del.

The Chesapeake and Potomac Telephone Companies

D. F. Arnold	C. O. Repairman	Washington, D.C.
*A. T. Boemmel	P.B.X. Repairman	Baltimore, Md.
R. P. Fleet	T.T.Y. Installer Repairman	Washington, D.C.
W. J. Goodman	Installer Repairman	Washington, D.C.
*E. Hahn	P.B.X. Installer	Baltimore, Md.
*H. W. Neal	C. O. Repairman	Washington, D.C.
M. H. Nelson	P.B.X. Installer	Baltimore, Md.
P. C. Nicholson	T.T.Y. Repairman	Washington, D.C.
C. J. Sebold	Installer Repairman	Washington, D.C.
*A. P. Shinsky	P.B.X. Installer	Baltimore, Md.
*R. B. Spear	C. O. Repairman	Washington, D.C.
*T. B. Yarborough	P.B.X. Repairman	Baltimore, Md.

* *Still assigned to Defense Projects*

Illinois Bell Telephone Company

R. G. Bowron	Communication Serviceman	Gary, Ind.
J. R. Corbett	Plant Engineer	Springfield, Ill.
L. E. Cunningham	Plant Engineer	Chicago, Ill.
C. R. Forsberg	Cable Splicer	Chicago, Ill.
R. E. Gillespie	Communication Maintenance Man	Decatur, Ill.
G. R. Gottman	Lineman	Chicago, Ill.
J. Haas	Communication Maintenance Man	Aurora, Ill.
R. D. Halvorsen	Teletype Repairman	Chicago, Ill.
P. W. Hassel	Line Foreman	Harvey, Ill.
*J. B. Kiss	Communication Serviceman	Mount Vernon, Ill.
*W. J. Lehmann	C.O. Comm. Maintenance Man	Oak Park, Ill.
J. Marco	Line Foreman	Chicago, Ill.
W. J. Menard	Communication Serviceman	Chicago, Ill.
K. J. Mendenhall	Cable Splicer	Chicago, Ill.
A. R. Mitcheltree	Line Foreman	Aurora, Ill.
E. Nalli	Communication Serviceman	Chicago, Ill.
*R. H. Oyen	Installer Repairman	Elgin, Ill.
L. R. Payne	Line Foreman	Hammond, Ind.
D. E. Punches	Plant Engineer	Springfield, Ill.
*K. L. Ross	Assistant Sup. Engineer	Chicago, Ill.
R. A. Schlak	Installer Repairman	Wheaton, Ill.
*L. A. Voigt	Communication Serviceman	Wheaton, Ill.
*G. Watt	Stockman	Chicago, Ill.
W. R. Watt	P.B.X. Installer	Gary, Ind.
H. F. Wehlitz	Plant Engineer	Chicago, Ill.
W. R. White	Lineman	Rockford, Ill.
T. J. Wisniewski	Installer Repairman	Chicago, Ill.

Indiana Bell Telephone Company

J. L. Essex	Switchman	South Bend
R. L. King	Lineman	Indianapolis
J. J. Pridmore	Lineman	South Bend
E. E. Pukrop	Switchman	South Bend

Michigan Bell Telephone Company

W. S. Anderson	Senior Engineer	Detroit
*A. V. Clark	Testman	Howell
J. R. Clawson	Testman	Cadillac
*W. E. Curtis	Switchman	Ypsilanti
*M. Cutler, Jr.	Switchman	Reed City
W. A. Eaton	Testman	Plymouth
*M. N. Fancher	Testman	Niles
*V. Godoshian	P.B.X. Installer	Detroit
A. Gorashko	Assistant Engineer	Detroit
*B. F. Hineline	P.B.X. Repairman	Lansing
*U. A. Honka	Testman	Benton Harbor
H. H. Huff	Testman	Detroit
G. W. Kost	Testman	Lansing
*L. M. La Mothe	Testman	Lansing
B. A. Melton	Station Installer	Pontiac
*M. J. Nault	Switchman	Detroit
D. R. Olson	General Plant Toll Supr.	Detroit
R. L. Pearce	Switchman	Birmingham
G. B. Pritchard	Plant Field Engineer	Pontiac
F. A. Sanislow	Switchman	Highland Park
*C. M. Scanlon	Testman	Grand Rapids
R. E. Shattuck	Testman	Grand Rapids
S. Shaver	Testman	Grand Haven
*J. A. Tomczak	P.B.X. Installer	Detroit
R. C. White	Switchman	Birmingham
*J. F. Yoakum	Station Installer	Monroe

** Still assigned to Defense Projects*

Mountain States Telephone and Telegraph Company

H. K. Christensen	Engineer	Denver, Colo.
D. W. Filipi	Cable Splicer	Phoenix, Ariz.
*H. F. Flanders	Building Planning Engineer	Denver, Colo.
H. C. Goff	C. O. Repairman	Denver, Colo.
C. E. Gross	Installer Repairman	Boise, Idaho
E. S. Keenan	Construction Foreman	Denver, Colo.
F. W. Knowles, Jr.	Installer	Boise, Idaho
L. D. Kornegay	Cable Splicer	Phoenix, Ariz.
*H. L. Laskey	Installer Repairman	Albuquerque, N. Mex.
D. R. McKinley	Plant Assignment Foreman	Cold Springs, Colo.
*C. E. Miller	P.B.X. Installer	Boise, Idaho
T. H. Oliver	Installer Repairman	Tucson, Ariz.
R. R. Ostrander	Special Service Supervisor	Denver, Colo.
E. H. Ovens	Combinationman	Mountain Home, Idaho
*J. R. Parham	Key Installer	Albuquerque, N. Mex.
P. C. Pinkerton	P.B.X. Repairman	Denver, Colo.
*J. W. Reed	Apprentice Toll Testman	Billings, Mont.
E. W. Schlosser	Engineer	Denver, Colo.
R. E. Schulz	Radio Installer Repairman	Albuquerque, N. Mex.
K. J. Smith	Lineman	Worland, Wyo.
R. T. Stuart	Lineman	Boise, Idaho
*W. C. Tesch	Combinationman	Helena, Mont.
R. S. Tonks	Cable Splicer	Phoenix, Ariz.
R. W. Troeltzsch	Switchman	Missoula, Mont.
E. H. Tucker	Combinationman	Mountain Home, Idaho
E. P. Wakefield	Equipment Engineer	Cheyenne, Wyo.
J. F. Weg, Jr.	Plant Engineer	Denver, Colo.

New England Telephone and Telegraph Company

F. G. Alger	Installer Repairman	Burlington, Vt.
*R. E. Bennett	Installer Repairman	White River Junction, Vt.
R. J. Bonfanti	Equipment Installer	Boston, Mass.
L. F. Burke	Transmission Tester	Boston, Mass.
G. F. Campbell	Equipment Installer	Cambridge, Mass.
F. E. Conley	Cable Splicer's Helper	Quincy, Mass.
J. F. Connolly	Equipment Installer	Braintree, Mass.
M. G. Decatur	Cable Splicer	Boston, Mass.
T. J. Dempsey	C. O. Switchman	Boston, Mass.
P. G. Dorais	Junior Engineer's Asst.	Keene, N. H.
F. J. Eckert	Transmission Tester	Boston, Mass.
*A. S. Edgett	P.B.X. Repairman	Boston, Mass.
W. J. Flynn	Equipment Testman	Boston, Mass.
H. E. Ford	P.B.X. Installer	Pittsfield, Mass.
W. D. Gaffney	P.B.X. Repairman	Boston, Mass.
D. A. Hollis	Cable Splicer	Quincy, Mass.
C. A. Jermyn	Repairman	Boston, Mass.
*G. M. Johnson	Installer	Portland, Maine
*N. F. Kennie	Engineer Assistant	Portland, Maine
A. R. Kilgour	P.B.X. Repairman	Rockland, Mass.
J. C. Landrey	P.B.X. Installer	Boston, Mass.
R. E. McAvoy	Line Foreman	Montpelier, Vt.
W. J. McGrath	Installer Repairman	Marlboro, Mass.
J. J. Madden	Equipment Installer	Boston, Mass.
D. C. Merritt	Installer Repairman	Brockton, Mass.
C. E. Miller	C. O. Switchman	Augusta, Maine
C. C. Nelson	C. O. Switchman	Malden, Mass.
E. J. O'Brien	Installer	Cambridge, Mass.
G. V. Parow	Installer	Boston, Mass.
J. F. Slason	C. O. Repairman	Boston, Mass.
H. J. Sterling	Installer (Sub Station)	Springfield, Mass.
V. J. Supko	P.B.X. Repairman	Boston, Mass.
M. F. Tuley	Equipment Installer	Boston, Mass.

* *Still assigned to Defense Projects*

New Jersey Bell Telephone Company

*P. A. Benson	Staff Assistant C.P.S.	Newark
*T. H. Bruner	Installer	Vineland
W. F. Buesing	Installer	North Bergen
G. J. Buscham	Repairman	Vineland
*S. C. Fritsch	Engineer	Newark
P. A. Gorman	Vice-President, Operating Dept.	Newark
*R. W. Hendrickson	Installer	Old Bridge
C. N. Kreiger	Transmission Testman	Ridgewood
J. F. Kurz	Repairman	Clifton
C. J. Linson	Splicer	Englewood
*T. S. Little	Switchman	New Brunswick
R. W. McAllister	Repairman	Bridgeton
C. F. Martin	Repairman	Englewood
J. A. Melosh	Assistant Engineer	Newark
W. T. Oelkers	Splicer	Hackensack
*H. A. Rowan	Repairman	Riverdale
*G. A. Scharg	Switchman	Passaic
P. A. Tanner	Switchman	Red Bank
A. J. Weisbecker	Cable Splicer	Hackensack
*R. M. White	Switchman	Red Bank

New York Telephone Company

J. B. Boland	Lineman	Watertown
*G. P. Brennesholtz	Repairman	Levittown
N. J. Brunacki	Installer	Manhattan
W. C. Burg	Switchman	Hicksville
C. H. Burk	Installer	Brooklyn
*M. J. Cargill	Radioman	Manhattan
D. L. Cassidy	Installer Repairman	Albany
J. J. Castiglione	Telephone Switchman	Brooklyn
P. J. Clemen	Cable Splicer	Manhattan
*E. R. Crawford	Engineer	Manhattan
M. De Sisto	Installer	Brooklyn
R. S. Durland	Staff Assistant	Troy
R. T. Edwards	Teletype Repairman	Manhattan
G. P. Foley	Frameman	Brooklyn
A. F. Freeze	Repairman	Jamaica, L. I.
G. V. Gates	Lineman	Watertown
H. C. Gill	Installer	Jamaica, L. I.
W. J. Grubbs	Cable Splicer	Manhattan
V. C. Hite	Installer	Pleasantville
C. Isaac	Installer	Bronx
*D. E. Jones	Installer	Mount Vernon
*F. J. Kern	Test Deskman	Bronx
S. Kieser	Engineer	Manhattan
L. R. Krzeminski	Repairman	Brooklyn
E. R. Lind	Repairman	Brooklyn
R. W. Lowery	Installer	Port Chester
R. Lucena	Installer	Manhattan
J. E. Lundy	Installer	Glens Falls
W. A. McAvoy	Installer Repairman	Endicott
V. M. McEvoy	Installer	Brooklyn
J. F. McGirr	Switchman	Brooklyn
M. T. Nappi	Installer	Bellmore
J. R. Null	Installer	Manhattan
*R. J. O'Shell	Repairman	White Plains
*N.H. Outzen	Radioman	Brooklyn
N. F. Phelps	Lineman	Watertown
T. F. Randazzo	Switchman	Brooklyn
J. P. Recker	Installer	Manhattan
J. Rodriguez	Installer	Brooklyn

** Still assigned to Defense Projects*

New York Telephone Company

M. J. Ronan	Installer	Brooklyn
*K. A. Schmitt	Repairman	Manhattan
A. F. Schneider	Switchman	Manhattan
F. A. Soltow	Repairman	East Nassau
*P. J. Southwell	Construction Foreman	Buffalo
B. R. Stanton	Line Foreman	Glens Falls
M. F. Van Aken	Installer Repairman	Herkimer
J. C. Van Cura	Installer	Manhattan
C. Volcheck	Installer	Old Quoque
L. J. Wentworth	Lineman	Cooperstown
E. J. Wynne	Switchman	Manhattan
C. F. Yonkers	Installer	Mount Vernon

Northwestern Bell Telephone Company

R. A. Allison	Teletype Maintenance Man	Minneapolis, Minn.
D. A. Appleby	Service Engr.	St. Paul, Minn.
*H. R. Bartell	Lineman	Wahpeton, N. Dak.
*W. R. Bingaman	Switchman	Des Moines, Iowa
B. B. Bohmert	Frameman	St. Paul, Minn.
C. N. Boyer	Lineman	Minot, N. Dak.
J. E. Brett	Switchman	Minneapolis, Minn.
L. E. Carpenter	Construction Supervisor	St. Cloud, Minn.
*D. W. Cox	P.B.X. Repairman	Des Moines, Iowa
E. G. Davis, Jr.	Lineman	Minneapolis, Minn.
E. C. Drinkwitz	Equipment Man	Hibbing, Minn.
*G. Glumac	Local Tester	Des Moines, Iowa
L. D. Hardenbergh	Cable Splicer	Omaha, Neb.
*V. M. Hilgerson	Lineman	Council Bluffs, Iowa
*R. L. Hoenigschmidt	Installer Repairman	Robinsdale, Minn.
*R. S. Horton	Switchboard Man	Des Moines, Iowa
G. H. Lauritsen	Engineer	Omaha, Neb.
S. E. Lehnhardt	Frameman	Omaha, Neb.
*J. T. Lilly	Equipment Man	McCook, Neb.
J. M. Mead	Combination Man	Wishek, N. Dak.
*G. R. Nyquist	P.B.X. Installer	Minneapolis, Minn.
C. E. Pesheck	Equipment Man	Red Wing, Minn.
*C. M. Suchy	Lineman	Minneapolis, Minn.
R. G. Taft	Lineman	St. Paul, Minn.
M. R. Tupy	Splicer	St. Paul, Minn.
R. R. Wilson	Equipment Man	Grand Rapids, Minn.
A. C. Zahnow	Engineer	North Platte, Neb.

The Ohio Bell Telephone Company

*G. H. Allen	C. O. Repairman	Cleveland
*H. L. Dailey	Foreman (Repair)	Columbus
A. J. Diorio	Installer-Repairman	Bridgeport
N. I. DuVall	Plant Asst. Engineer	Youngstown
G. L. Funkhouser	Deskman	Alliance
D. E. Haas	Apparatusman	Cleveland
R. D. Hall	Repairman	Toledo
J. W. O'Donnell	P.B.X. Repairman	Cleveland
*F. E. Raber	Apparatusman	Steubenville
*F. L. Raber	Apparatusman	Uhrichsville
C. C. Sallaz	Engineer Asst.	Akron
L. A. Steed	Apparatusman	Lancaster
J. F. Sweeney	Apparatusman	Cleveland
R. H. Zonker	Lineman	Steubenville

* *Still assigned to Defense Projects*

The Pacific Telephone and Telegraph Company

R. L. Beach	Admin. Staff Supervisor	San Francisco, Calif.
*D. L. Bernardino	Transmissionman	Oakland, Calif.
*D. W. Bowey	Transmissionman	Portland, Oreg.
*H. M. Budlong	Station Installer	Portland, Oreg.
H. Buoy	Transmissionman	Portland, Oreg.
N. D. Campbell	Assistant Engineer	Walla Walla, Wash.
*F. M. Clement	Senior Engineer	Spokane, Wash.
J. I. Cummings	Lineman	Santa Monica, Calif.
J. Dawson	Cable Foreman	Los Angeles, Calif.
T. L. Dombrowski	Construction Foreman	San Diego, Calif.
F. W. Durboraw	Cable Splicer	Van Nuys, Calif.
*D. S. Eaton	Operating Assistant	Fresno, Calif.
C. W. Eddens	Cable Splicer	Los Angeles, Calif.
R. R. Edwards	P.B.X. Repairman	Canaga Park, Calif.
R. D. Evans	Teletypewriter Repairman	Seattle, Wash.
*W. Evans	Transmissionman	San Francisco, Calif.
*B. W. Falk	Transmissionman	Portland, Oreg.
E. E. Ford	P.B.X. Installer	San Francisco, Calif.
R. R. Frazee	Cable Splicer	San Diego, Calif.
*K. Gannaway	Transmissionman	Coalinga, Calif.
M. Garcia	Transmissionman	Los Angeles, Calif.
*R. B. Gelinas	Transmissionman	Blythe, Calif.
*J. B. Gerst	Transmissionman	Oakland, Calif.
M. R. Githens	P.B.X. Installer	Portland, Oreg.
H. J. Green	Cable Splicer	Alhambra, Calif.
*R. M. Harper	Transmissionman	Roseburg, Oreg.
E. L. Hill	Outside Plant Engineer	Hayward, Calif.
*F. R. Holloway	P.B.X. Installer	Hollywood, Calif.
*J. L. Ketels	Transmissionman	Los Angeles, Calif.
L. L. Leyrer	Plant Staff Supervisor	San Francisco, Calif.
A. E. MacMahon	Engineer	San Francisco, Calif.
C. Mc Intyre	Outside Plant Engineer	Bakersfield, Calif.
W. M. McKenna	Engineer	San Francisco, Calif.
*H. D. McLean	P.B.X. Installer	Roseburg, Oreg.
*G. S. McNeill	P.B.X. Repairman	Hollywood, Calif.
*R. G. Marsh	Switchman	San Diego, Calif.
E. C. Neumann	Cable Splicer	Escondido, Calif.
D. J. O'Connell	Outside Plant Engineer	Los Angeles, Calif.
*L. F. Oliver	Transmissionman	The Dalles, Oreg.
*F. J. Olson	Technical Man	San Diego, Calif.
*L. A. Olson	Outside Plant Engineer	Longview, Wash.
D. L. Osborne	Transmissionman	Portland, Oreg.
J. L. Panosh	Installer Repairman	Brawley, Calif.
*L. F. Parker	Transmissionman	Los Angeles, Calif.
*J. M. Perotte	P.B.X. Installer	San Francisco, Calif.
*J. R. Price	Transmissionman	Portland, Oreg.
J. E. Ray	P.B.X. Repairman	Santa Ana, Calif.
L. G. Read	Installer Foreman	Los Angeles, Calif.
*W. D. Reese	Transmissionman	Crockett, Calif.
A. J. Schweigan	Subway Inspector	San Diego, Calif.
N. E. Snow	Cable Splicer	Temple City, Calif.
*N. C. Steenson	Transmissionman	Portland, Oreg.
R. R. Stevenson	Lineman	San José, Calif.
*R. B. Swindell	P.B.X. Repairman	Santa Cruz, Calif.
H. A. L. Thacker	Construction Foreman	Chula Vista, Calif.
E. C. Tinsman	Cable Splicer	North Hollywood, Calif.
J. P. Tynes	Senior Engineer	San Francisco, Calif.
*D. J. Washburn	Switchman	El Centro, Calif.

The Southern New England Telephone Company

*W. F. Clemens	Station Installer	Hartford, Conn.
*R. W. Edwards	Frameman	Hartford, Conn.
D. J. Fahy	Lineman	New Haven, Conn.
J. J. Morrisroe	Technician	New Haven, Conn.
*H. H. Vogel	Electronic Repairman	New Haven, Conn.

* *Still assigned to Defense Projects*

Southern Bell Telephone and Telegraph Company

R. C. Austin	Installer Repairman	Asheville, N. C.
E. F. Basel	TTY PBX Installer Repairman	Hollywood, Fla.
*A. L. Bennett	Switchman	Nashville, Tenn.
W. A. Boudreaux	Installer Repairman	New Orleans, La.
R. H. Brady	Installer Repairman	Birmingham, Ala.
N. K. Briggs	Testman	Murfreesboro, Tenn.
G. W. Brummett	Installer Repairman	Knoxville, Tenn.
W. C. Burnett	Div. Trans. & Prot. Engineer	Charlotte, N. C.
S. K. Carpenter	PBX Installer Repairman	Nashville, Tenn.
W. D. Carpenter	PBX Installer Repairman	Nashville, Tenn.
W. A. Cline, Jr.	PBX Installer	Ensley, Ala.
T. R. Cobb	PBX Installer Repairman	Ensley, Ala.
D. J. Coble	Switchman	Greensboro, N. C.
*E. P. Cole	Cable Splicer's Helper	Memphis, Tenn.
L. J. Daspit	Installer Repairman	New Orleans, La.
H. M. Drake	Testman	Tullahoma, Tenn.
*J. E. Draper	Assignment Man	Gallatin, Tenn.
*G. A. Draughon	Installer	Nashville, Tenn.
C. D. Feeney	Test Deskman	Gulfport, Miss.
R. R. Garrett	Switchman	Memphis, Tenn.
H. C. Gibbons	PBX Installer Repairman	Miami, Fla.
E. A. Green	Assignment Man	Lebanon, Tenn.
J. H. Green	Switchman	La Grange, Ga.
J. S. Hibbard	Installer Repairman	W. Monroe, La.
R. B. Hickman	Assignment Man	Charlotte, N. C.
R. T. Hope	Installer	Brighton, Ala.
J. Hourguettes	Lineman	Hattiesburg, Miss.
*R. C. Hudson	Construction Supervisor	Louisville Ky.
*J. C. Jinks	Rural Repairman	Maryville, Tenn.
H. A. Jones	C. O. Equip. Inst. Repairman	Nashville, Tenn.
C. E. Joyner	Switchman	Murfreesboro, Tenn.
B. B. Kelly	Toll Testboard Man	Raleigh, N. C.
W. F. Kirwin	Lineman	Metairie, La.
J. H. Knight	C. O. Equip. Inst. Repairman	Hattiesburg, Miss.
*R. E. Lane	Assignment Man	Gallatin, Tenn.
H. B. Litchfield	Div. Planning & Bldg. Engineer	Columbia, S. C.
W. A. Martin	Installer Repairman	Anniston, Ala.
J. R. Matherne	Engineer	New Orleans, La.
J. L. McBride	Lineman	Birmingham, Ala.
J. R. McCook	PBX Installer Repairman	Miami, Florida
R. H. Miskelly	C. O. Equip. Inst. Repairman	Jackson, Miss.
*B. J. Moore	Switchman	Memphis, Tenn.
C. C. Moore	Installer Repairman	New Orleans, La.
G. Page	PBX Installer Repairman	Miami, Fla.
*J. J. Parrish	Installer Repairman	Savannah, Ga.
C. P. Raski	PBX Installer Repairman	Miami, Fla.
W. L. Rowlette	Switchman	Murfreesboro, Tenn.
*E. G. Sockwell	C.O. Equip. Installer	Atlanta, Ga.
J. R. Spletstoser	Frameman	W. Palm Beach, Fla.
R. N. Strickland	Frameman	Miami, Fla.
*C. M. Thompson	Lineman	Knoxville, Tenn.
*R. Thompson	Installer	Nashville, Tenn.
C. L. Townsend	Installer Repairman	Anniston, Ala.
R. D. Tuchek	Line Foreman	Winston-Salem, N.C.
*J. R. Wales	Switchman	Memphis, Tenn.
W. H. Weatherman	Installer Repairman	Raleigh, N. C.
R. P. Whelahan	PBX Installer Repairman	Miami, Fla.
G. J. White	PBX Installer Repairman	Miami, Fla.
*C. S. Whitlock	C. O. Repairman	Morristown, Tenn.
*J. R. Wilder	Engineer	Jackson, Miss.
W. E. Williams	PBX Installer Repairman	Nashville, Tenn.

** Still assigned to Defense Projects*

Southwestern Bell Telephone Company

*J. A. Achilles	Estimate Assigner	San Antonio, Tex.
K. D. Adams	Switchman	Alice, Tex.
J. E. Bittick	C. O. Repairman	St. Charles, Mo.
H. P. Bodine	Lineman	Sedalia, Mo.
M. H. Brehmer	Installer	San Antonio, Tex.
J. M. Brown	Telephone Repeaterman	Little Rock, Ark.
D. R. Brownfield	Lineman	Kansas City, Mo.
J. C. Bryan	Station Installer	San Antonio, Tex.
G. G. Bryant	Cable Splicer's Helper	Kansas City, Mo.
*M. J. Bullen	Estimate Supervisor	Dallas, Tex.
J. P. Burks	C. O. Repairman	Dallas, Tex.
G. K. Burns	Frameman	Houston, Tex.
G. L. Caver	Telephone Repeaterman	Oklahoma City, Okla.
S. V. Cooper	C. O. Repairman	Dallas, Tex.
D. A. Cowles	Telegraph Repeaterman	San Antonio, Tex.
*C. W. Daulley	Station Installer	Houston, Tex.
R. F. Denton	Teletype Maintenance Man	Little Rock, Ark.
B. J. Dotson	Station Installer	Dallas, Tex.
G. O. Ekstedt	Plant Assigner	St. Louis, Mo.
J. D. English	Telephone Installer	San Antonio, Tex.
*R. J. Evans	Construction Foreman	East St. Louis, Mo.
*H. A. Franko	Lineman	Brownsville, Tex.
C. R. Gifford	C. O. Repairman	McAllen, Tex.
H. L. Griffith	Installer	San Antonio, Tex.
M. W. Grunwald	Cable Splicer	San Antonio, Tex.
L. J. Gunz	Lineman	Brownsville, Tex.
W. E. Hartman	Installer	St. Louis, Mo.
**K. A. Hentschke	C. O. Repairman	St. Louis, Mo.
H. W. Hix	Deskman	McAllen, Tex.
P. J. Jackson	Cable Splicer	Corpus Christi, Tex.
*A. G. Jewell	Senior Engineer, Trans.	Little Rock, Ark.
*E. J. Kincannon	Station Installer	Ft. Smith, Ark.
I. L. Lawson	Cable Splicer	Corpus Christi, Tex.
E. E. Lockaby	Deskman	McAllen, Tex.
S. M. McClellan	Station Installer	San Antonio, Tex.
A. B. Miller	Construction Foreman	St. Louis, Mo.
H. F. Moore	Switchman	San Antonio, Tex.
D. M. Moseley	Exchange Repairman	San Antonio, Tex.
T. O. Owen	P.B.X. Repairman	McAllen, Tex.
*D. W. Palmer	Switchman	Little Rock, Ark.
D. E. Perido	Cable Splicer	San Antonio, Tex.
W. C. Plumb	Transmission Supervisor	St. Louis, Mo.
*M. N. Ricks	Exchange Repairman	Victoria, Tex.
A. T. Rife	Plant Assigner	Harlingen, Tex.
W. G. St. Pierre	Teletype Maintenance Man	Oklahoma City, Okla.
P. F. Schultz	Repair Foreman	Dallas, Tex.
D. E. Smith	Repairman	Odessa, Tex.
C. B. Smyth	Telephone Repeaterman	Dallas, Tex.
*J. E. Terry	Toll Engineer	Dallas, Tex.
J. D. Tisdel	Lineman	San Antonio, Tex.
C. E. Wetmore	Telegraph Repairman	Oklahoma City, Okla.
H. L. Williams	Frameman	Dallas, Tex.

Wisconsin Telephone Company

C. A. DeVelice	Lineman	Fond du Lac
H. F. Kaul	Cable Splicer	Milwaukee
*R. A. Kendzierski	C. O. Repairman	Milwaukee
W. F. Ribbens	Wire Chief	Lake Geneva
*R. C. Wolfgram	C. O. Repairman	Milwaukee

* *Still assigned to Defense Projects*
** *Deceased*

Western Electric Company

HAWTHORNE WORKS

J. M. Coyne	Tester	Chicago, Ill.
M. Gottlieb	Tester	Chicago, Ill.
W. H. Orr	Electrical Tester	Chicago, Ill.
C. W. Young	Tester	Chicago, Ill.
W. J. Zimmerman	Tester	Chicago, Ill.
C. N. Zook	Section Chief	Chicago, Ill.

HEADQUARTERS

C. N. Bergmeister	Section Chief	Secretary's
E. M. Brierton	Stenographic Clerk	Radio
M. P. Buovolo	Stenographer	Secretary's
F. Casey	Secretarial-Stenographer	Radio
*R. R. Cocchi	Technical Clerk	Manufacturing
*M. P. Cronin	Secretarial-Stenographer	Radio
T. R. Delahunt	Engineer. Asst.	Secretary's
K. G. Erickson	Stenographer	Secretary's
B. A. Farrell	Emp. Ser. Clerk	Radio
N. Finelli	Secretary	Public Relations
*M. T. Giblin	Emp. Ser. Clerk	Radio
*G. Goldfuss	Secretary	Manufacturing
E. J. Hoffman	Results Investigator	Purchasing
*J. J. Jamieson	Secretary	Personnel
*S. E. Jefferson	Section Chief	Manufacturing
E. R. Konopka	Financial Clerk	Treasury
V. Koziol	Typist Special	Manufacturing
J. M. Linn	Record Clerk	Secretary's
*J. L. Loudon	Staff Specialist	Personnel
W. J. McCann	Payroll Clerk	Treasury
T. J. McSherry	Multilith Operator	Secretary's
*M. E. Minns	Secretarial-Stenographer	Secretary's
D. A. Moore	Utility Man	Manufacturing
G. T. Moore	Utility Man	Manufacturing
A. S. Morasco	Record Clerk	Purchasing
M. A. Natale	Record Clerk	Secretary's
S. K. Nodland	Secretary	Radio
M. G. O'Malley	Messenger	Secretary's
*H. W. Paro	Assistant Superintendent	Telephone
L. C. Quinn	Business Mtds. Investigator	Manufacturing
*M. Schirripa	Secretary	Manufacturing
A. G. Spencer	Service Coordinator	Telephone
B. A. Steinhaurer	Stenographer	Secretary's
*S. G. Sullivan	Secretary	Radio
*A. D. Tomao	Secretary	Telephone
V. E. Toscan	Department Chief	Financial
*T. R. Triplett	Department Chief	Radio
*M. VanCasteren	Secretary	Manufacturing
J. F. Vecchione	Stenographer	Secretary's
*A. V. Zanky	Section Chief	Radio

INSTALLATION ORGANIZATION

W. A. Allen	Inst. Supervisor	Dallas, Tex.
L. S. Annese	Inst. Supervisor	Albany, N. Y.
*H. T. Bailey	Inst. Supervisor	Cleveland, Ohio
*E. P. Barbante	Inst. Supervisor	New York, N. Y.
D. E. Barkelew	Inst. Supervisor	Cleveland, Ohio
*W. Benshoof	Inst. Supervisor	Omaha, Neb.
E. A. Berichon	Inst. Supervisor	Cleveland, Ohio
M. Bernandino	Secretarial-Stenographer	New York, N. Y.
D. W. Boettcher	Project Supervisor	Portland, Oreg.
*W. L. Bourn	Inst. Supervisor	Dallas, Tex.
*R. L. Brenenstall	Inst. Supervisor	Chicago, Ill.
C. C. Brewer	Inst. Supervisor	St. Louis, Mo.
J. H. Brueggemann	Office Service Clerk	New York, N. Y.
G. B. Burns	Inst. Supervisor	Little Rock, Ark.
*D. D. Callows	Inst. Supervisor	Chicago, Ill.
R. M. Cancro	Draftsman	New York, N. Y.

** Still assigned to Defense Projects*

Western Electric Company

INSTALLATION ORGANIZATION

*G. J. Chandler	Inst. Supervisor	Fargo, N. Dak.
E. A. Chase	Inst. Supervisor	St. Louis, Mo.
W. D. Coffman	Inst. Supervisor	Little Rock, Ark.
*J. W. Cosgrove	Stock Service Clerk	New York, N. Y.
G. J. Cowley	Inst. Supervisor	San Antonio, Tex.
*H. N. Crouse	Inst. Supervisor	Cleveland, Ohio
C. Dabbs	Inst. Supervisor	Gooding, Idaho
W. C. Daniel	Project Supervisor	Denver, Colo.
N. S. Davis	Inst. Supervisor	Dallas, Tex.
T. E. Denny	Inst. Supervisor	St. Louis, Mo.
*J. K. DeWees	Inst. Supervisor	St. Louis, Mo.
H. L. Elkins	Inst. Supervisor	Houston, Tex.
*W. G. Entrekin	Inst. Supervisor	Detroit, Mich.
E. B. Felts	Inst. Supervisor	Cincinnati, Ohio
F. W. Glimm	Draftsman	New York, N. Y.
*C. T. Gray	Inst. Supervisor	Louisville, Ky.
*L. W. Hagen	Inst. Supervisor	Bismarck, N. Dak.
*J. M. Hall	Inst. Supervisor	New York, N. Y.
K. Hermanson	Inst. Supervisor	Omaha, Neb.
R. E. Hill	Inst. Supervisor	St. Louis, Mo.
J. L. Hinch	Inst. Supervisor	San Antonio, Tex.
*W. H. Hogan	Inst. Supervisor	Dallas, Tex.
*E. L. Hood	Inst. Supervisor	Detroit, Mich.
G. N. Howk	Inst. Supervisor	Newark, N. J.
A. Y. Hutto	Inst. Supervisor	Austin, Tex.
*O. E. Jackson	Inst. Supervisor	Chicago, Ill.
G. H. Jobe	Inst. Supervisor	St. Louis, Mo.
L. J. Jozwiak	Inst. Supervisor	New York, N. Y.
D. P. Kannard	Inst. Supervisor	St. Louis, Mo.
R. W. Kannard	Inst. Supervisor	St. Louis, Mo.
*M. B. Kelly	Jr. Clerk	New York, N. Y.
D. Kuczinski	Secretary	New York, N. Y.
J. L. Lamberson	Sales Specialist	New York, N. Y.
*R. P. Lovett	Inst. Supervisor	San Francisco, Calif.
H. W. Manley	Inst. Supervisor	Houston, Tex.
A. M. Massa	Secretary	New York, N. Y.
L. E. McIntosh	Inst. Supervisor	Dallas, Tex.
G. D. Mitchell	Inst. Supervisor	Dallas, Tex.
*H. L. Mootz	Cost & Price Analyzer	New York, N. Y.
*M. E. Mouchard	Inst. Supervisor	New York, N. Y.
J. G. Pasch	Area Supervisor	Memphis, Tenn.
E. B. Pedersen	Stock Service Clerk	New York, N. Y.
*L. J. Pedersen	Inst. Supervisor	Detroit, Mich.
W. E. Polley	Inst. Supervisor	New York, N. Y.
L. D. Raines	Inst. Supervisor	St. Louis, Mo.
E. W. Reiss	Inst. Supervisor	St. Louis, Mo.
*P. C. Roberts	Inst. Supervisor	Dallas, Tex.
*J. E. Roper	Inst. Supervisor	Chicago, Ill.
J. W. Rude	Inst. Supervisor	St. Louis, Mo.
L. C. Schau	Inst. Supervisor	St. Louis, Mo.
R. S. Scully	Inst. Supervisor	Baltimore, Md.
G. Sileo	Secretary	New York, N. Y.
*G. R. Snover	Inst. Supervisor	Detroit, Mich.
R. Sternad	Inst. Supervisor	Cleveland, Ohio
R. G. Tighe	Inst. Supervisor	Omaha, Neb.
*R. Trantham	Area Supervisor	Atlanta, Ga.
F. W. Trotter	C.O. Appraiser	New York, N. Y.
C. T. Tsoutsos	Secretarial-Stenographer	New York, N. Y.
G. A. Walser	Inst. Supervisor	Dallas, Tex.
*A. J. Wanta	Inst. Supervisor	Chicago, Ill.
*J. S. Warren	Inst. Supervisor	Delhi, La.
E. A. Weber	Secretary	New York, N. Y.
*W. E. Yocum	Inst. Supervisor	Baltimore, Md.
C. H. Zeigler	Inst. Supervisor	Baltimore, Md.

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*M. Berkley	Engineer	New York, N. Y.
*R. J. Campbell	Section Chief	Kearny, N. J.
D. N. Clough	Engineer	New York, N. Y.
*R. F. Cote	Department Chief	New York, N. Y.
*P. W. Dilger	Section Chief	New York, N. Y.
J. E. Fanning	Department Chief	Kearny, N. J.
J. E. Frawley	Engineer	New York, N. Y.
H. O. Gales	Draftsman	Kearny, N. J.
G. Hansen	Section Chief	New York, N. Y.
W. G. Harvey	Personnel Investigator	New York, N. Y.
*R. E. Hirsch	Department Chief	New York, N. Y.
*H. Holshoe	Personnel Investigator	Middle Village, N. Y.
*E. G. Ihnken	Section Chief	New York, N. Y.
*G. S. Jarahian	Engineer	New York, N. Y.
J. L. Kelly	Engineer	New York, N. Y.
*J. L. Koch	Section Chief	New York, N. Y.
L. Lara	Engineer	New York, N. Y.
L. B. Laurion	Engineer-Analyzer	Kearny, N. J.
*F. T. Lehr	Engineer	New York, N. Y.
*J. H. Lovell	Department Chief	Kearny, N. J.
J. I. McDermott	Asst. Engineer	New York, N. Y.
E. M. Murphy	Engineer	New York, N. Y.
*F. P. Musnuff	Staff Specialist	Kearny, N. J.
*G. K. Oertel	Engineer	New York, N. Y.
W. Ruch	Engineer	New York, N. Y.
*T. R. Sayre	Engineer	Kearny, N. J.
*D. Schwartz	Asst. Engineer	New York, N. Y.
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*J. A. Johnson	Department Chief	Winston-Salem, N. C.
*D. W. Kinsinger	Assistant Superintendent	Burlington, N. C.
R. A. Rossler	Field Engineer	Winston-Salem, N. C.
J. B. Sullivan	Test Engineer	New York, N. Y.
E. S. White, Jr.	Employment Interviewer	Burlington, N. C.

POINT BREEZE WORKS

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AND IN ADDITION

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