

You cannot do a kindness too soon because you never know when it will be too late.

# The Illuminator

October 14, 1956

Your vote is your voice! So let your vote speak at the polls November 6.

Vol. VIII No. 1

KENTUCKY POWER COMPANY

APPALACHIAN ELECTRIC POWER COMPANY

KINGSPORT UTILITIES, INC.

October 1956

## Employees Pay Tribute To President Sporn At Ceremony Appalachian Joins Four Other Utilities In Mutual Aid Plan For Storm Emergencies



President Sporn looks down at the scroll presented him by a committee of seven veteran employees on behalf of 13,000 AGE System employees. Representing our three companies at the surprise ceremony on September 21 were, from left: D. V. Lockwood, Ashland, 41 years; Mose Jackson, Kingsport, 38 years, and "Doss" Ayers, Roanoke, 46 years, who was the oldest veteran in years of service on the committee.

The 13,000 employees of the American Gas and Electric System paid tribute to President Philip Sporn at a surprise ceremony in conjunction with an AGE 50th Anniversary dinner held September 21 in New York.

A thick, leather-bound volume containing a scroll citing Mr. Sporn's leadership of the AGE System and the electric utility industry was presented by a special committee of veteran employees. The volume contained the signature of every employee in every district and every office of the System companies scattered throughout eight states.

The presentation committee was made up of the oldest employee, in

### Appalachian And Kentucky Leading Sales Campaigns

Appalachian and Kentucky are compiling outstanding records as the two AGE Golden Anniversary Campaigns move into the final four months. Here are the standings at the end of eight months:

#### Residential Sales

Generators—Appalachian, 90.4 percent of quota; I&M, 83.4 percent; and Ohio, 74.4 percent.

Exciters—Wheeling, 98.7 percent of quota; Kingsport, 88.6 percent; and Kentucky, 81.5 percent.

#### Water Heater Contest

Generators—Appalachian, 66.1 percent of quota; I&M, 53 percent; and Ohio, 52 percent.

Exciters—Wheeling, 81.3 percent of quota; Kingsport, 71.3 percent and Kentucky, 61.9 percent.

#### Commercial-Industrial Sales

Generators—I&M, 158.6 percent of quota; Appalachian, 114.7 percent; and Ohio, 88.5 percent.

Exciters—Kentucky, 147.4 percent of quota; Kingsport, 101 percent and Wheeling, 94.6 percent.

#### C-I Space Heating

Generators—Appalachian, 112.8 percent of quota; I&M, 94.4 percent; and Ohio, 44 percent.

Exciters—Kentucky, 234.9 percent of quota; Wheeling, 116.3 percent; and Kingsport, 93.6 percent.

point of service, of each of AGE's seven major subsidiaries—a group of seven people totaling more than 306 years of service. They are:

Dorsel "Doss" Ayers, Roanoke district commercial department special clerk, 46 years; D. V. Lockwood, Ashland district superintendent, 41 years; Mose Jackson, Kingsport janitor, 38 years; C. H. Dickerson, I&M cashier, 44 years; C. N. Porter, Wheeling residential sales supervisor, 44 years; E. R. Wells, Southern division superintendent of Ohio Power, 45 years; F. G. Nagele, Jr., AGE Service Corporation vice president, 45 years.

A program which followed the dinner was highlighted by a brief address by Mr. Sporn and the premiere of a special 30-minute color movie on the 50-year history of the AGE System, which will be shown to all company employees this fall.

### "Best Year In Safety"

## Million Manhours Reached For Third Time This Year By Appalachian Employees

Appalachian employees have worked a million manhours without a disabling injury, the third time this year the mark has been achieved.

These three million manhour marks are also the first in the company's history. Working under AGE's 50th Anniversary theme of "Let's Make Our 50th Year Our Safest Year," employees are heading for the best year in safety in the company's history.

The frequency rate by August 31 for the company was 2.40, compared to 3.66 at the same time last year. Frequency rate is the number of disabling injuries per million manhours worked. Last year's mark won the Edison Electric Institute Frequency Reduction Award for being 25 per cent lower than the previous three years, and the present mark is over a 30 per cent reduction from last year.

The new million manhour mark began July 12 and was finally broken September 3 with a disabling injury after 1,115,701 manhours. The million mark was reached August 31. The two other million manhour records this year ran from December 21, 1955 to February 21 and from February 22 to April 19.

Three districts have also hit a million manhours without a disabling injury this year. Lynchburg and Roanoke have received EEI awards for their million mark and Logan, newest addition to the list, is eligible for one. Logan's record began April 11, 1952 and reached a million August 25, 1956. It was the first such record for Lynchburg and Logan, and the third for Roanoke.

Twice before Appalachian came close to the million manhour mark but missed both times. In 1946 employees worked 970,641 manhours and in 1954 worked 808,014 manhours.

The latest record entitles Appalachian to its third EEI Safety Merit Award, made to groups achieving the coveted million manhours without a disabling injury.

Storms are a constant menace in our business. And when a storm hits, it often hits hard.

With this in mind Appalachian and four other Southern utilities have formed a mutual aid plan to go into operation during storms and other emergencies. Storm warnings, alerts and mutual aid procedure plans were agreed upon by the five companies in a recent meeting at Raleigh, N. C.

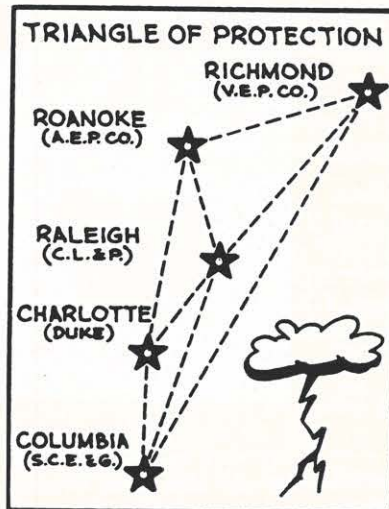
H. E. McCormack, superintendent of system operation, represented Appalachian at the meeting. Other members of the plan are South Carolina Electric and Gas Company, Duke Power Company, Carolina Light and Power Company and Virginia Electric and Power Company.

The Companies stand ready to help each other with men and materials during storms. The companies will also provide storm warning service for each other. Communication facilities between the companies, such as power line carrier, two-way radio and leased facilities are such that the companies can be in constant and immediate contact with each other.

#### Hazel Hit VEPCo

A good example of this type aid took place in 1954 when Hurricane Hazel hit VEPCo's facilities hard and that company asked Appalachian for help. We responded with 52 men, five line trucks and ten service trucks to VEPCo's territory. A total of 330,000 of VEPCo's 620,000 customers had lost electric service.

Alert warnings in Appalachian will be handled through channels of system operation coordination, which would also serve as an alternate channel of communication if that becomes necessary. Each company has two-way



The broken lines run between the headquarters of the five Southern electric utilities which have formed a mutual aid plan for storm emergencies.

radio and a list of the channels used by the other companies.

Each company at the meeting provided the others with a list of line and service crews normally in use on its system. In addition, a list of electrical contractors engaged on line and station work was supplied along with

### Beckley Man Solves First Aid Problem

"The answer to my problem" was the way a Beckley customer recently described Homer W. Greene.

The compliment came when the meter reader used his knowledge of first aid to stop bleeding of a badly cut foot and transport the victim to the hospital. He was in Blue Jay, reading a meter, when a near-hysterical woman ran from a house, crying for help. Homer learned the woman's 16-year-old daughter had cut her foot on a broken bottle and the woman couldn't stop the bleeding.

Homer applied compresses and pressure to stop the bleeding and dressed the wound before he took the girl to the hospital in the customer's car. There the wound took four clamps and 12 stitches to close.

The customer later said she could not drive and had no way of getting the girl to a hospital. That's when she said Homer was "the answer to my problem."

### Crews Work At Williamson Fire



Williamson employees were on the job during the \$200,000 fire which struck that city recently. The arrows show members of Everett Corrico's, Fred Varney's and Ernest Bailey's crews and members of the meter department as they shut off power to the half-block that was seriously damaged. Employees later worked around the clock to restore service after firemen put out the fire. Ernest Bailey, line foreman, is a fireman and helped both the fire fighters and the company's crews. Five buildings were damaged by the fire, which started as fuel was being transferred from a tank trailer to pumps inside the bus terminal, shown at right in the picture.

possible manpower availability from the contractors.

#### Emergency Power

The question of capacity and power replacement or help was explored along with maximum capacities of interconnections during emergencies. Appalachian has three 132 kv interconnections with VEPCo, two with Carolina Light and Power and one with Duke, which are in turn interconnected with South Carolina Electric and Gas. Appalachian is also interconnected with the AGE System, providing further protection.

Helping other companies is not new for us, but the storm aid system is another step in assuring dependable service to our customers—even after serious storm emergencies.

### AGE-OVEC Plants Most Efficient In World Last Year

Six of the eight most efficient steam-electric generating stations in the world in 1955 were plants of the AGE System and the Ohio Valley Electric Corporation.

Figures released in late September by the Federal Power Commission show that the Kyger Creek plant of OVEC was the world leader in efficiency. It had a heat rate of 9,110 Btu per kwh of net generation. In second place, with 9,143 Btu per kwh, was its OVEC sister plant, Clifty Creek.

#### Kanawha Is Third

Appalachian's Kanawha River plant was the third most efficient with 9,151 Btu per kwh.

Other AGE plants among the top eight according to the official FPC figures, representing a revision of standings announced earlier this year on the basis of preliminary figures, are:

Muskingum River plant of the Ohio Power Company, 9,234 Btu per kwh, fifth; Tanners Creek plant of Indiana & Michigan Electric Company, 9,273, sixth; Philip Sporn plant jointly owned by Appalachian and Ohio Power, 9,341, eighth.



# The Illuminator

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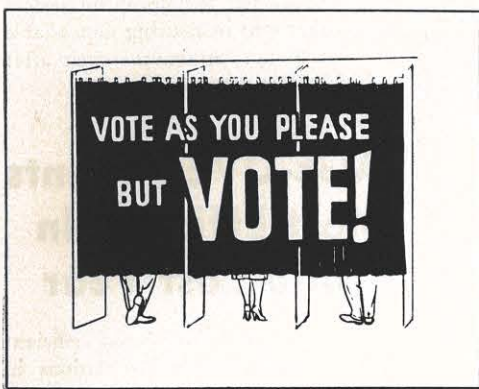
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## Voting Is A Right Only You Can Preserve

Suppose on election day you were handed a ballot on which was printed the name of just one candidate.

This is the situation in many countries today. These people have lost their voice in government. They are enslaved.

We live in a free country and have a freedom of choice of candidates in an election. But this right can be lost when we don't use our vote.

Employees tell why each vote is important in the answers to the question of the month on this page. They cite examples where one vote has meant the difference between being elected and defeated. Another incident shows the powerful voice a single vote can have—in the New Jersey 1954 off-year election less than one vote per voting district determined the margin of victory.

There are other examples, and they all point out the same truth—one vote is important in any election.

Along with the responsibility of voting is the responsibility of keeping informed about the issues at stake. Between now and election day there will be much about the views of the candidates in the newspaper, on the radio and television. By reading, listening and watching we can decide which candidate's platform best represents our personal views.

Your vote is your voice in government; it speaks for what you believe in and it helps preserve your ideals and your heritage. November 6 is election day, and the day to use your right of a free vote.

## The Chest With A Heart

This month in our towns and cities we will be asked to help our neighbors. Fund drives most commonly associated with the Community Chest actually could be called the Community Heart.

Reaching the goal shows our regard for the many character-building organizations as well as the less fortunate who benefit by our donations. Let's give to the Chest with our heart.

# Your Opinion

How would you answer a person asking, "What difference does my one vote make?"

## WILLIAM G. HARTGROVE, Groundman, Kingsport



At each election, I am at the polls casting my vote for the men I feel are best qualified to run this great country of ours. And a number of times I have been asked "What difference does my one vote make?"

Ever since the days of the early settlers, one vote has counted. A number of territories were made states by just one vote in Congress. I read that President Hayes was elected by a majority of only one electoral vote. I recall that in 1953 a mayor in Ohio was elected by just one vote.

Nothing will happen if we sit the election out and not vote. But the people that do not cast their votes are usually the ones that do the most criticizing. The right to cast one vote is the power that separates free men from slaves.

## JOAN P. SMITH, Personnel Clerk, Lynchburg District



If a person should ask me "What difference does my one vote make?" I would tell him that his vote could make a difference as to who our next president, governor or councilman may be.

Voting is the one way in which every person can have a voice in his government. If you were behind the Iron Curtain today your vote would not be of any significance, but in the United States each citizen should take advantage of his voting privilege.

With the presidential election in the near future everyone should study the issues at hand, and then vote intelligently for the candidate of his choice.

If we are to continue to have a government of the people, by the people and for the people, it is our duty to vote in every election.

## ANTHONY ADAMS, Coal Conveyor Operator, Logan Plant



The control or power gained or executed by one vote may be high or low on the local,

state, national and international levels.

There are over 168 million Americans and over 90 million are eligible to vote in a political election. One of these votes might be the factor to decide what one man is to head the government of our country, our state or our county. It, also, may tell which political party may be in the majority or minority as leaders.

Working conditions, wage contracts and other benefits between employers and employees might result from the vote of one person.

Yes, one vote can be powerful on the political front, domestic scene, international picture, labor front or in your own home.

## LOUISE BROWN, Private Secretary, Huntington Division



The precept on which our republic rests is that the government's powers are derived only from the people, and these powers are granted and controlled by each individual citizen to the extent he utilizes his vote to support legislation and candidates he chooses.

The power of that vote is positive—for his choice, if he votes; against it, if he fails. The process of establishing a government by a minority who exercise their vote compared to a large percentage of the populace who grant this power by default, is a sure road to poor government.

Your vote is the difference between government based on the will of a real majority or a small minority—between good and indifferent citizenship—between "God's Country" and the other side of the iron curtain.

## MILDRED L. WEBB, Cashier, Beckley



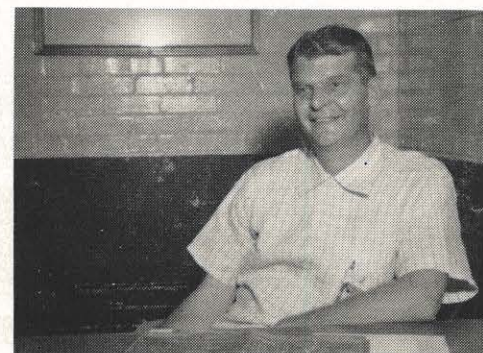
The person who minimizes the value of his vote is only fooling himself as we know there is only a little over 50 percent of the people voting. The policies of our country can be determined by about 25 percent of the population. Therefore, I feel my one vote plays a great part in helping determine the country's destiny.

President Rutherford B. Hayes was elected by one vote. Inform yourself... then decide what kind of country you desire to live in. Choose the candidate best qualified for the office. Cast your one vote—it is our only weapon.

"It's better to light one candle than to curse the darkness."

# IN THE SPOTLIGHT

## RAY P. LUPOLD, Supervisor Of Operation And Maintenance, Radford Arsenal Steam Plant



This question is one which must be answered by all Americans.

True, you have just one vote. But it's a mighty important vote. Those who hold public office are in these offices because a majority of voters elected them. The founders of our country, who drafted and signed the Declaration of Independence, gave to the people of America the power to choose those who would govern our land.

The actions of these men gave us this right, but over the years we have come to take it for granted. Statistics show that 40 percent of the people in any average group throughout America did not vote at the last presidential election.

You can help to preserve these ideals for which our forefathers fought and died by just one vote, your vote each election day.

## H. K. JOHNSTON, Tax And Statistical Supervisor, Ashland



This question was asked some time ago in a little different way. It was "What do I get from taxation without representation?" The answer was one of the causes of the Revolutionary War. The price paid makes your vote a very valuable birthright and is yours to do with as you please—to use, to waste, to cherish.

Citizens that vote generally have certain ideas, likes or dislikes, at times, called "special interest." They vote for the candidate that represents these viewpoints; and regardless of the outcome of the election, they have been represented. Each person must speak for himself and his vote. I intend to vote for my "special interests" which are to maintain our freedom and keep our way of life.

## In Reply To Reddy

That you've worked for me with all your might is not disputed—you're exactly right! That like other workers you need your pay is absolutely true, I must say.

My wife handles the bills at our house; You may have thought that I was the louse.

All I do is furnish the money, But late as she was, she's still a honey!

—FIELDALE CUSTOMER



NEW DEVELOPMENTS  
IN THE  
Electric Industry

(The following items are based on material appearing in recent issues of "Electrical World.")

**Slightly Salty.** The Morro Bay Plant of Pacific Gas & Electric Co. is the first in the U. S. to use purified sea water in its boilers. An installation of evaporators purifies the water to less than one part per million solids. But the cost is high, \$1.96 per 1,000 gal.

**To Cool Color TV.** Lighting for color TV studios generates so much heat that air conditioning must have twice the capacity usually required to lower 95°F outside air to a comfortable working level.

**New Twist.** During a parade in Hamlin, N. Y., a drum major tossed his baton high into the air and was surprised when it didn't come down. It was welded to a 5-kv line overhead.

**Crush And Mix Well.** A coal-carrying pipeline, 108 miles long, now links the Eastlake Plant of Cleveland Electric Illuminating Co. with a coal mine of Pittsburgh Consolidation Coal Co. in southern Ohio. The coal is crushed and mixed in equal proportions with water. The resulting slurry is sent through the pipeline. At the power plant the slurry will be dried before using.

**Turn On Blue Light.** Incandescent lamps are going on a color spree. Colors introduced recently include "candlelight" (gold-yellow), "aqua" (blue-green), "spring green," "sky blue," and "sun gold." Pink made its appearance last year.

**Coal By Wire.** Electric power plants used 136.6 million tons of coal in 1955, 20% more than in 1954. Consumption this year will be even greater.

\$1-Million To Be Spent At Turner

Nearly \$1-million will be spent to expand electric facilities at Turner transmission station at Institute in the Charleston district.

The new facilities are designed to provide more efficient service to customers in the Charleston and Huntington areas. A 50,000 kva, 11-kv synchronous condenser will be installed to allow for more capacity on the transmission lines from the station. In addition, necessary controls to regulate the 132-kv bus voltage will be installed.

A second major addition will be a 132/66/11-kv transformer that will also provide for a future higher voltage sub-transmission system to meet the growing demands of the area.

Turner station is a central switching point for 132-kv circuits from Philip Sporn, Cabin Creek and Kanawha River plants. The two additions at Turner will provide for more efficient operation of these plant generators and lines.

Work is expected to be completed late this year. The foundation contract has been let to the L. T. Halstead Company of St. Albans, in the Charleston district, and electrical contracts will be let in the near future.

Two Kanawha River Men Write 'World' Article

Two Kanawha River plant employees co-authored an article in the September 3 issue of *Electrical World*.

Amos Workman, maintenance foreman, and T. E. Peay, master maintenance man, wrote "Magne-Blast ACB Check Saves Man-Hours."

President Sporn Gives Look At Future At White Sulphur Meeting Of PUAV



AGE President Philip Sporn, left, and Edwin Vennard, vice president and managing director of Edison Electric Institute, at right, confer with President Don B. Potter of the Public Utilities Association of the Virginias. Mr. Potter also is president of Monongahela Power Company. Mr. Sporn and Mr. Vennard were the principal speakers at the opening session of the 38th annual meeting of PUAV.

Members of the Public Utilities Association of the Virginias were given a look into the future by Philip Sporn, AGE president, at the White Sulphur Springs meeting on September 14.

President Sporn spoke on "Looking Ahead in the Utility Industry" and said the dynamic character of the industry is a guidepost. He talked about this from the standpoint of, first, growth both in existing and new markets; second, technology, and, third, trends of encroachment or competition.

Officers elected at the 38th annual meeting include W. J. Stewart, president, assistant general manager of Wheeling Electric Company; Hugh Stillman, second vice president, Huntington division manager; and W. F. Keehne, re-elected treasurer, Appalachian system office manager.

As for growth, President Sporn compared the fact that in 1955 the nation's utilities generated some 550 billion kwh compared to a study indicating generation may reach 2-trillion kwh by 1975.

Speaking of technology, he cited such advances as higher pressures and temperatures, multiple reheat, larger units, higher voltages, greater use by better devices like the heat pump. He added, "And, finally, quite distinctly, but definitely only on the horizon, we have the gas turbine, particularly the gas turbine in combination with a steam turbine; atomic power in any one of a half dozen promising reactor exemplifications, and perhaps even fusion power." Even further in the future he mentioned the possibility of direct conversion to electricity without a heat medium and wireless transmission.

On his third major point, President Sporn said: "From the standpoint of encroachment or threats of encroachment, the electric utility industry can be said to be in a particularly unique condition today. Never perhaps in its entire 75-year history has the threat been greater."

He then indicated some things

that follow as a result of the guidepost. Included were developing area and load, obtaining plant sites, solving future fuel problems, raising the necessary capital, finding and training personnel.

After pointing out other activities that have to be developed to reach "the bright future that is ahead," he said, "We cannot afford merely to wait for this bright future to come; we must help bring it into being."

Walter Price Of Charleston Retires

Walter Price, Charleston service foreman, retired October 1 after almost 39 years' service. Ill health forced him into early retirement.



Mr. Price

He joined Appalachian as a groundman December 31, 1917, and was the first troubleman on a regular basis in Charleston. That was back when the company had two trucks and a bicycle for trouble calls. Mr. Price became line foreman in 1940 and service foreman in 1953.

Mr. Price's father worked for Appalachian from 1917 to 1930 and a son, Leland, is a Charleston line foreman. Mr. Price remembers when the company had just one pair of rubber gloves and "back in those days, if the company bought three or four coils of No. 6 or No. 8 wire, why, that was a lot!"

Mr. Price says he is retiring only because he has to, "not because I want to. Everybody has treated me wonderfully." An expert marksman, Mr. Price used to bring in hams and turkeys from all the shooting matches in the area and placed second in the state tournament in 1955. He says he and his wife "haven't decided yet what we will do."

Box Score Of ALL-Electric Homes

Electric heat is being enjoyed in the following number of homes in our three-company area:

	Employees	Customers	Total
Appalachian	119	229	348
Kentucky	7	42	49
Kingsport	20	1471	1491
Total	146	1742	1888

Familiar Faces  
IN  
NEW PLACES

Appalachian Electric Power Company

Abingdon District

JOSEPH E. ARRINGTON, JR., from meter serviceman to area sales representative; LARRIE L. BUCKLEN, area sales representative, from Abingdon to Gate City; LEWIS C. THOMAS from Abingdon area sales representative to Bluefield commercial sales representative.

Beckley District

R. L. HARDY from lineman C, Rainelle, to lineman B, Beckley; C. H. BUCKLAND from instrument man to stationman helper.

Bluefield District

ARCHIE G. PHLEGAR from area sales representative to heating and builder sales representative; WILLIAM M. GORDON from lineman B to meter serviceman A; JAMES H. KISER, lineman B, from Tazewell to Bluefield; JAMES R. BOULT from print machine operator, Bluefield, to area sales representative, Pearisburg.

Huntington District

J. B. KLINE from meterman B to meterman A.

Logan Plant

WETZEL Z. LEE from laborer to utility man.

Lynchburg District

HARRY P. EWERS, JR., from office messenger to clerk-typist, T&D record section; E. L. BAKER from truck driver-groundman to lineman C; S. L. DRUMHELLER from lineman B to lineman A; J. A. MARTIN from groundman to truck driver-groundman; G. A. VOLK, JR., from lineman C to lineman B.

Point Pleasant District

J. K. SHINN from senior T&D clerk to engineering aide.

Pulaski District

ANDREW L. GRAHAM, JR., from area sales representative to agricultural sales engineer.

Roanoke District

WANDA GIESEN from junior clerk, Roanoke local accounting, to junior clerk, system accounting.

Philip Sporn Plant

KENNETH E. CARTER from coal handler to barge attendant; BERNARD G. HOFFMAN from barge attendant to tripper operator; EDWIN F. HUDSON from tractor operator to harbor boat operator; CARL D. KING from helper to junior maintenance man; HARRY A. PICKENS from harbor boat operator to conveyor operator; MARION W. ROUSH from laborer to coal handler; HAROLD R. RUSSELL from tripper operator to tractor operator; DON F. THOMPSON from conveyor operator to crane operator; RALPH M. ROTTGEN from maintenance man to master maintenance man; DON E. REA from maintenance man to master maintenance man.

Welch District

CLAUDE E. BELL from station man at Switchback to system station man A; JAMES W. NUNNERY from meter serviceman B to meter serviceman A; THOMAS D. HELM from meter serviceman C to meter serviceman B.

Williamson District

JUNIOR STANLEY from lineman C to lineman B; JACK MAYNARD from meter reader to collector; FLORENCE MURPHY from junior power bill clerk to personnel clerk.

Kingsport Utilities, Inc.

CARL J. RIDDLE from lineman B to lineman A; HOWARD G. BROOKS from groundman to lineman C.

Getting Reddy For Winter



Take a driveway on a steep hill. Add some snow. What have you got? A sleigh track. But electric heating cable like this installed in Charleston keeps snow from sticking. Largest in the city, this unusual installation is at the home of Mr. and Mrs. N. G. Clark. Chromolox Therm-Wire has been installed on 480 feet of the 700 feet of driveway. It consists of 28 160-foot cables, installed to melt two 12-inch lanes for wheels of an automobile. Now all the Clarks have to do to rid their driveway of snow is flip a switch—another way to Live Better Electrically.





### Charleston District

Sarah Harshbarger Pettit, home economist, has been appointed one of three judges in the annual Daily Mail cookbook contest.

John C. Frazier was one of the West Virginia Safety Council delegates who attended a meeting on traffic safety at the House of Delegates Chamber in the Capitol building recently.

Frank Hann, retired district superintendent, moved back to Florida after spending the summer in his Charleston home.

Edith Wright, who resigned, was given a farewell party by the girls in the accounting department at the Valley Bell.

Other employees who have resigned include Juanita Hively, coal procurement, R. A. Perolio, meter, and Betty Jo Rodeheaver.

Another gallon club member is Mrs. W. R. Witzel, wife of the district personnel manager.

Garage department supervisor Ray Cole's photograph of a woodland scene was selected as the prize picture of the week by the Charleston Camera Club.

W. F. Ficklen and G. M. McCormick, retired employees, are recuperating after illnesses in the hospital. W. M. Slappee is also recuperating after a heart attack.

Jennie Hall, cash poster, and her husband were guests of the Esso Standard Oil Company at Miami Beach for five days after winning a drawing of ticket stubs from gasoline and service purchases.

New employees include Mark Jarrett, groundman, T&D line section, Joan Davis, home economist, George D. Shawver, accounting, and Eldivia Cline Gullian, accounting.

### Kanawha River Plant

C. W. Pannell, maintenance foreman, and J. D. Bowling, auxiliary equipment operator, recently resigned.

Sympathy is extended D. H. Brown on the death of his grandmother.

### Philip Sporn Plant

Gilbert Hart, tripper operator, returned to work after over two months off with a ruptured disc.

Earl H. Keefer, chemist assistant, is taking special training at the AGE laboratory in Huntington.

Sympathy is extended Freeman Roush, assistant yard foreman, on the death of his father, and Edward Ihle, maintenance helper, on the death of his mother.

### Beckley District

Phyllis M. Brewster is a new employee in the accounting department.

Mrs. Helen Troutman, senior petty cash clerk, is recuperating from a neck injury.

Employees who have resigned included Peggy D. Lynch, Joseph F. Cox, Wilma G. Kincaid, Frances W. Jones, accounting; Clifford D. Stalnaker, T&D engineering; and John W. Muir, T&D record.

Potatoes come big for Earl J. Wood, lineman A. Two potatoes he raised recently weighed together a total of 6 pounds.



... Among Employees and Their Families

### Point Pleasant District

W. W. Pancake and W. C. Gilmore have been appointed as members of Governor Marland's Committee for the employment of the physically handicapped.

Mary L. Walker, cashier clerk, has returned to work after an extended illness.

(See Point Pleasant, Page 10)



### Abingdon District

Paul S. Dunn, administrative assistant, has been named general chairman of the Boy Scout Fund Drive.

The St. Paul Hotel was the setting for the joint operating conference of the Abingdon District supervisors and the supervisory staff of the Clinchfield Coal Corporation.

Andrew Buchanan is a new employee in accounting.

### Pulaski District

Mrs. Edna B. Love, wife of Robert H. Love, power sales engineer, received the Lions Club "Driver of the Month Award."

Christine F. McPeak, meter clerk, is recuperating at home following a major operation.

Mrs. Barbara King Blount, Christiansburg local accounting, has resigned.

Sympathy is extended Carl A. Schmidt, local accounting, on the death of his mother.

### Bluefield District

Okey B. Yost, assistant local office manager, has been named co-chairman of the Community Chest Drive.

New employees include John Gobble, local accounting, and Jack D. Spraker and Jackson E. Kinzer, T&D.

"The Right of a Free Vote", a flannel board talk, is being presented to all civic organizations in the Bluefield area by Paul W. Parks, commercial sales representative.

### Welch District

Sank Smith, district personnel supervisor, has returned to work after an absence of six weeks due to surgery on his eye.

C. T. Southern, retired employee who underwent major surgery, is able to be out after five weeks.

Sympathy is extended to C. T. Southern on the death of his brother-in-law.

Imogene Ashley, commercial; Joe L. Mullins, meter; and Elizabeth Marino, accounting, are new employees.

Resignations include Brown Hoover, meter; Patricia O'Brien, commercial; W. O. Slade, record; and Helen Begley, accounting.



### Huntington District

Among those attending the 38th Annual Meeting of the Public Utilities Association of the Virginias at White Sulphur Springs were H. D. Stillman, S. R. Pritchard, J. C. Hansbarger, and T. M. Watkins.

Hugh D. Stillman, division manager, has been elected to serve a two-year term as a member of the board of directors of the West Virginia Chamber of Commerce, representing public utilities operating in the state.

New employees include Donna Jean Cunningham and Charlene E. Evans, system billing; Virginia Price, miscellaneous; Betty J. Hall, Mary F. Myers and Dorothy C. Smith, accounting.

Virginia Smith, system billing; William H. Lockhart, meter section; and Maggie Hutchinson, miscellaneous, have resigned.

Julian Hansbarger, assistant division manager, has been appointed chairman of the "Trailblazers" solicitation division of the United Fund-Red Cross campaign.

Sympathy is extended to Constance Nida on the death of her father, and Laura Gouldman on the death of her father.

Sympathy is also extended to Charles Ferguson on the death of his brother, and C. H. Price on the death of his brother.

### Logan Plant

Avon White is a new employee.

Rocco Galati, utility man, has resigned.

A. O. Grubbs has returned to work after a recent extended illness.

### Williamson District

Pete Woods, line and station section, T&D, has resigned.

C. C. Darrah, district manager, and his wife attended the annual meeting of the Public Utilities of the Virginias at White Sulphur Springs.

Lawson King, line and station summer employee and son of E. E. King, district superintendent, was guest speaker at a luncheon meeting of the Rotary Club. Highlights of his talk were scouting reports on teams scheduled for University of Kentucky gridiron clashes last year and life in a fraternity house.

Corporal Fleck of the West Virginia State Police was guest speaker for a recent commercial department safety meeting which also included the showing of a movie entitled "A Closed Book."

Jack and the beanstalk had nothing on C. L. Miller, district engineer, whose garden yielded beans which reached 1 3/4 feet recently.

Several employees took part in the Junior Chamber of Commerce beauty

pageant to raise money for their annual children's parties. Jay Runyon, district area sales representative and president of the chamber, crowned the "Queen of the Billion Dollar Coal Field." Peggy Francis, local accounting, was entered as Miss Reddy Kilowatt and placed in the first ten, and Robert Runyon, son of C. R. Runyon, R/w agent, entertained with piano playing.

### Logan District

H. J. Collins, personnel supervisor, attended a meeting in the House of Delegates Chamber in Charleston as a member of Governor Marland's Committee on Vocational Rehabilitation. He also has been elected Chairman of the National Foundation for Infantile Paralysis for the fifth consecutive year.

Sheffey N. Massey, Co-op student engineer, has returned to VPI, and his alternate, Basil W. Perry, has returned to work.

Coonie Hager, Jr. is a new groundman.

Another groundman, F. D. Chambers, has returned to work after being on two years' military leave with the Army.

(See Logan, Page 8)



### Hazard District

The Volta Club held a wiener roast recently.

Two new employees in accounting are Dixie Lee Napier and Doris Ann Pratt.

Miss Gay Boyer, who has resigned, was given a farewell party by the Volta Club.

Harold Kenneth Turner, distribution engineer, has been inducted into the Armed Forces.

### Ashland District

Members of the Quarter Century Club and their families enjoyed an evening of fellowship and a picnic dinner in Camden Park at their annual picnic. The club, organized in 1951 by J. W. Ellis, is open to all employees having 25 years' service.

Thomas Miracle, local accounting office messenger, resigned to enter the Navy. He has been replaced by Harry Dixon.

### Pikeville District

An amusement park was the scene for the annual employees' family picnic this year. The families enjoyed riding, swimming and a picnic lunch.

William C. Charles, stationman C, has returned to work after almost a year off due to a back operation.

Cecil DeBoard, groundman, has been moved to a Lexington hospital for further treatment.

Everett Justice has been employed as a groundman.

Sympathy is extended to Denver Layne, line foreman, on the death of his mother-in-law.



### Roanoke District

New members of the Two Gallon Blood Club include R. H. Caldwell, T&D clerk, and R. J. Jarrett, power sales engineer.

A/C1 Charles H. McKeever, son of B. H. McKeever, Roanoke meter supervisor, has been promoted to Staff Sergeant.

Mrs. C. T. Rader, meter clerk, has returned to work after hospitalization.

The annual picnic for colored employees was held at Rosale Country Club. Members of the picnic committee were Willie Smith, chairman, Laura Clair, Elizabeth Sydnor and J. H. Terry.

New employees include Reva Kirk, clerk, Earl Woolridge, meter service helper, and Edith Rusher, secretary-stenographer.

Sympathy is extended to J. D. Prather, appliance serviceman helper, and C. E. Prather, groundman, on the death of their mother, and A. J. Hendricks, janitor, on the death of his mother.

Sympathy is also extended to Frank A. Harris, meterman, on the death of his mother, and Jewell Ramsey, senior payroll clerk, on the death of her father.

### Fieldale District

J. G. Morrison and F. D. Duckworth have returned to work after three months' recuperation from heart attacks.

Employees who have resigned include Gladys M. Walker, PBX operator, James F. Hodnett, Jr., Gerald Wayne Eanes and Bobby R. Childress, groundmen.

### Lynchburg District

Roy A. Tibbs, power sales engineer, won two successive week-end golf tournaments at the Oakwood Country Club. A 7-handicap golfer, he received a silver pitcher and a silver serving platter.

J. L. Gray, Jr., auto repairman helper, George F. Pace and Willie B. Smith, hydro maintenance helpers, have resigned.

### System

Marvin L. Croft, system accounting, and Kathryn R. Weddle, system operating, are new employees.

W. A. Henley, system operating draftsman, has been off from work two months after a serious operation.

Employees who have resigned include James R. Bowman, system accounting, and Antonia W. McCoy, system operating.



New employees include Carl S. Bacon, commercial, and Robert L. Nutter, line section.

Sympathy is extended to Winston Morrison, line foreman, on the death of his stepmother.



# These Veterans Presented Service Pins



Appalachian and Kentucky veterans who have received pins for 20 or more years' service in recent weeks are pictured above. **FIRST ROW**, from left: Dewey Jessee, Bluefield, 30 years; R. M. Thomas, system, 30 years; C. H. Price, Huntington, 30 years; Samuel H. Wise, system, 25 years; and C. R. Mills, Roanoke, 25 years. **SECOND ROW**, from left: C. A. Beatty, Huntington, 25 years; Lois L. Sheppard, Fieldale, 25 years; Earl P. Owens, Pulaski, 20 years; E. H. Conner, Pulaski, 20 years; and

Harold C. Johnson, Philip Sporn plant, 20 years. **THIRD ROW**, from left, all 20 years: W. L. Halstead, Logan plant; D. R. Hunt, Roanoke; R. W. Swain, Roanoke; R. J. Kidd, Bluefield; and Ira W. Henderson, Bluefield. **FOURTH ROW**, from left, all 20 years: William M. Langstaff, Huntington; M. W. Brown, Fieldale; J. G. Harrison, Charleston; D. B. Stone, Charleston; and C. V. Smith, system.

## Line Foreman Of Fieldale Retires



Mr. Dalton

James M. Dalton, Fieldale line foreman, retired September 30 after over 30 years' service.

A native of Hillsville, he began his employment as a lineman February 20, 1926, in the Pulaski district. He worked on construction of the New River Dam at Byllesby and helped construct power lines out of Byllesby to Bluefield and Saltville. In June 1931, he was transferred to Fieldale as substation operator and in May 1942, was promoted to assistant line foreman. He rose to his present position January 1, 1946.

Mr. Dalton was with the Coast Artillery during World War I. He is a member of the Masonic Order. He is married, and he and his wife plan to move to their farm near Hillsville in the near future.

## Ashland Meterman Dies After Illness

C. B. "Buddy" Preston, 38, Ashland district meterman, died September 12 at the Kings Daughters Hospital of Ashland after an extended illness.

Born January 15, 1918 at Kingston, W. Va., he had lived in Ashland most of his life. He graduated from Ashland High School and attended the University of Kentucky. He was employed by the company October 27, 1941 as a meter reader and was later promoted to meterman.

Mr. Preston is survived by his wife, one son, three daughters, his mother and two sisters. Funeral services were conducted September 15 with burial in the Ashland Cemetery.

## Aetna Safety Awards Go To Four Places

Two plants and two districts in Appalachian have received safety awards from the Aetna Casualty & Surety Company.

Glen Lvn and Kanawha River plants and Charleston and Welch districts have been presented the awards for exceeding 500,000 man-hours without a disabling injury. The awards were presented to the various locations by D. C. Duncan, system safety director, and T. C. Jones, safety engineering supervisor of Aetna. Aetna carries AGE's overall insurance program.

## Promotions Go To Two Hazard Men



Mr. Combs

Mr. Haddix

Adrian Combs and W. C. Haddix have received recent Hazard district promotions.

Mr. Combs, station foreman, has been promoted to senior distribution engineer. Mr. Haddix, station man A, succeeds Mr. Combs as station foreman.

An employee since June 1941, Mr. Combs started as a laborer. He later went to the engineering department and was moved up to station foreman in 1952. He spent three years with the Navy during World War II.

A graduate of the University of Kentucky with a B.S. degree in electrical engineering, he is married and has three children.

Mr. Haddix joined the company in 1944 as a laborer and later became station man. A graduate of Dudley High School, he has completed several correspondence courses in substation work. Mr. Haddix is married and has two children.



## Appalachian Electric Power Company

**Abingdon District**—10 YEARS: H. H. RASNICK, meter serviceman.

**Bluefield District**—30 YEARS: DEWEY JESSEE, area serviceman; 20 YEARS: IRA W. HENDERSON, administrative assistant; R. J. KIDD, lineman; 15 YEARS: W. M. GORDON, meter serviceman; J. P. ROSE, lead draftsman; 10 YEARS: A. H. WHITE, appliance serviceman.

**Cabin Creek Plant**—35 YEARS: J. H. WELLS, coal and ash equipment operator.

**Charleston District**—20 YEARS: D. B. STONE, Montgomery area serviceman; J. G. HARRISON, engineering aide; 10 YEARS: STEVE DIDIER, station foreman; ARCHIE MCGRAW, Montgomery material clerk; CLIFFORD PICKLESIMER, line inspector; R. E. MYERS, engineering aide; 5 YEARS: D. B. DUNLAP, appliance serviceman.

**Fieldale District**—25 YEARS: LOIS L. SHEPPARD, cashier clerk; 20 YEARS: MELVIN W. BROWN, local office manager; 10 YEARS: B. C. HARLOWE, lineman.

**Huntington District**—35 YEARS: T. M. WATKINS, assistant to the division manager; 30 YEARS: C. H. PRICE, division personnel supervisor; 25 YEARS: CHARLES A. BEATTY, district commercial manager; 20 YEARS: WILLIAM M. LANGSTAFF, power sales engineer; 15 YEARS: PAUL R. BAKER, commercial sales representative; 5 YEARS: THELMA E. PATTERSON, payroll clerk.

**Logan District**—15 YEARS: WAYNE WARREN, head material clerk; 10 YEARS: RALPH H. BRAGG, meter serviceman.

**Logan Plant**—20 YEARS: W. L. HALSTEAD, mechanical maintenance mechanic; 15 YEARS: G. G. BIAS, instrument maintenance man; 10 YEARS: J. A. PATTERSON, plant manager; 5 YEARS: A. O. GRUBBS, plant janitor; A. V. PACK, utility operator; D. F. WOOLCOCK, chemist assistant.

**Lynchburg District**—20 YEARS: L. L. CROCKER, general serviceman; 15 YEARS: E. D. LAYNE, meterman; W. T. SUBLETT, collector.

**Point Pleasant District**—15 YEARS: L. D. BALDING, utility clerk.

**Pulaski District**—20 YEARS: EARL P. OWENS, assistant local office manager; E. H. CONNER, material clerk; 15 YEARS: ROBERT D. CARSON, electrical engineer; M. T. AKERS, JR., lineman; 10 YEARS: JOHN G. LEONARD, meter serviceman; W. M. HAULSEE, truck driver-groundman.

**Roanoke District**—25 YEARS: C. R. MILLS, head cashier; 20 YEARS: D. R. HUNT, line foreman; R. W. SWAIN, station man; 15 YEARS: F. O. HANCOCK, station man helper; 5 YEARS: ELIZABETH H. SYDNOR, elevator operator.

**Philip Sporn Plant**—20 YEARS: HAROLD C. JOHNSON, second assistant shift operating engineer.

**System**—30 YEARS: R. M. THOMAS, system R/w records supervisor; 25 YEARS: SAMUEL H. WISE, system supervising breaker engineer; 20 YEARS: C. V. SMITH, head material accounting section; 15 YEARS: THOMAS W. OLD, system senior station engineer; 10 YEARS: MARVIN C. SHORT, system instrument man; J. L. WARD, system station operator, Holston station; 5 YEARS: MELFRED R. CREEDLE, engineering aide, Radford Arsenal Steam plant; 5 YEARS: A. J. KEATLEY, auxiliary equipment operator; H. D. KIMBLETON, utility man; N. E. MINNICK, boiler operator; T. A. RATCLIFFE, boiler operator.

**Welch District**—10 YEARS: BERTHA VECELLIO, stores clerk.

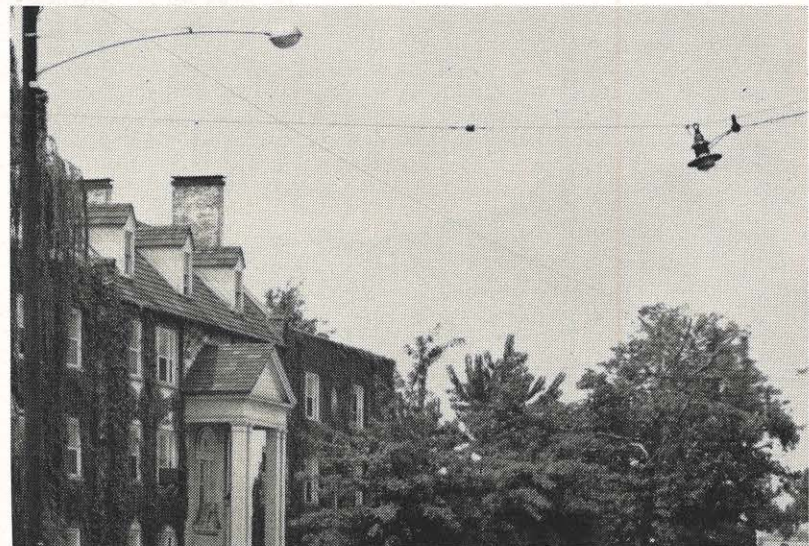
**Williamson District**—15 YEARS: E. E. KING, district superintendent; 10 YEARS: J. E. HATFIELD, lineman; WAYNE HERALD, meter reader; THURMAN BALL, working foreman.

## Kentucky Power Company

**Ashland District**—15 YEARS: R. W. SCHWEITZER.

**Hazard District**—10 YEARS: ADRIAN R. BRASHEAR.

## The Old And The New In Lighting



The old and the new in Kanawha City's street lighting is illustrated in this picture. The old street lights, like the one at right, have been replaced with new ones like the one at left. Citizens recently celebrated completion of the work by Charleston district employees. Charleston's Mayor Copenhaver pressed a button turning on the new lights and the celebration began. The light replacement was along seven blocks of MacCorkle Avenue, main dual highway through Kanawha City. New 40-foot poles to serve as standards for 27 mercury vapor lamps rated at 20,000 lumens each were installed, a new 2,400-volt constant transformer and controls equipment were added and street lighting circuits totaling 6,900 feet were put up. Nine other lights were replaced. Leland Price's crew did the work, which resulted in the lighting system more than meeting specifications of the American Illuminating Engineer's Society. Photo courtesy "Charleston Gazette."



# Appalachian Pioneers Working 330,000 Volts 'Hot'

"Took about an hour for that job," he said as he turned to fellow workmen. The four men on a tower 15 stories above the ground had just finished working a "hot" 330,000 volt line. The Sporn-Kanawha line had stayed in operation while several burned insulators and a corona shield were replaced.

## Presented Challenge

Working 330,000 volt lines "hot" is now part of the routine for members of the Appalachian system transmission line crews headed by W. Price Carter, superintendent. But the highest voltage lines operating in the nation today presented a real challenge to our company before "working 'em hot" could become a standard operation.

After several years of AGE research and study, 330,000 volts was determined as the most economical transmission level. A network of this voltage was planned to take care of the growth on the AGE System for many years to come. Of course equipment and methods had to be developed to work higher voltages than the 132,000 volt lines that spanned the AGE System.

## Keeping Lines "Hot"

It's a fact that insulators must be replaced from time to time on all lines, regardless of voltage, along with other types of hardware which have become damaged or worn. And this job must be done without the loss of service to the customer.

The super high voltage lines meant maintenance without service interruption was an even greater necessity. Why? The 330 kv lines carry five times the amount of power carried by our previous highest voltage lines.

## First 330 Kv Line

The first 330,000 volt line was built in 1951 on the AGE System between Sporn plant and Kanawha River plant in Appalachian territory. After some tests and working with the hot line tool manufacturer, the Appalachian system transmission line department in Bluefield began placing orders in 1953 for special hot sticks. (Hot sticks are those insulated wood sticks to which tools are attached that enable linemen to repair hot lines safely.)

Men from Appalachian and other AGE companies worked closely with

manufacturers in the design and construction of special hot-stick fittings which were tested under actual load conditions. Although all were made special for the bigger 330 kv line work, the new tools owed much of their design to the 132 kv hot-line tools.

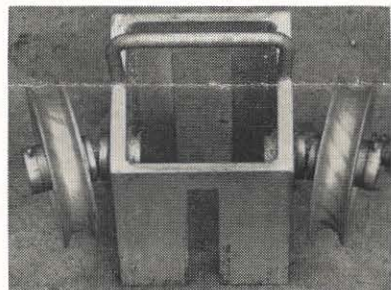
## Longer—Stronger Hot Sticks

The new sticks were made longer and stronger because of the higher voltage and the tremendous weight of conductors and insulator assemblies. A device called a "sheave block" was designed in Bluefield by the system transmission line group to fit on the end of a crossarm without bolting. It had two "wheels" over which the ropes pass for attachment to the lift sticks that hold the weight of the line. Lifting clamps and other tools were designed for the job.

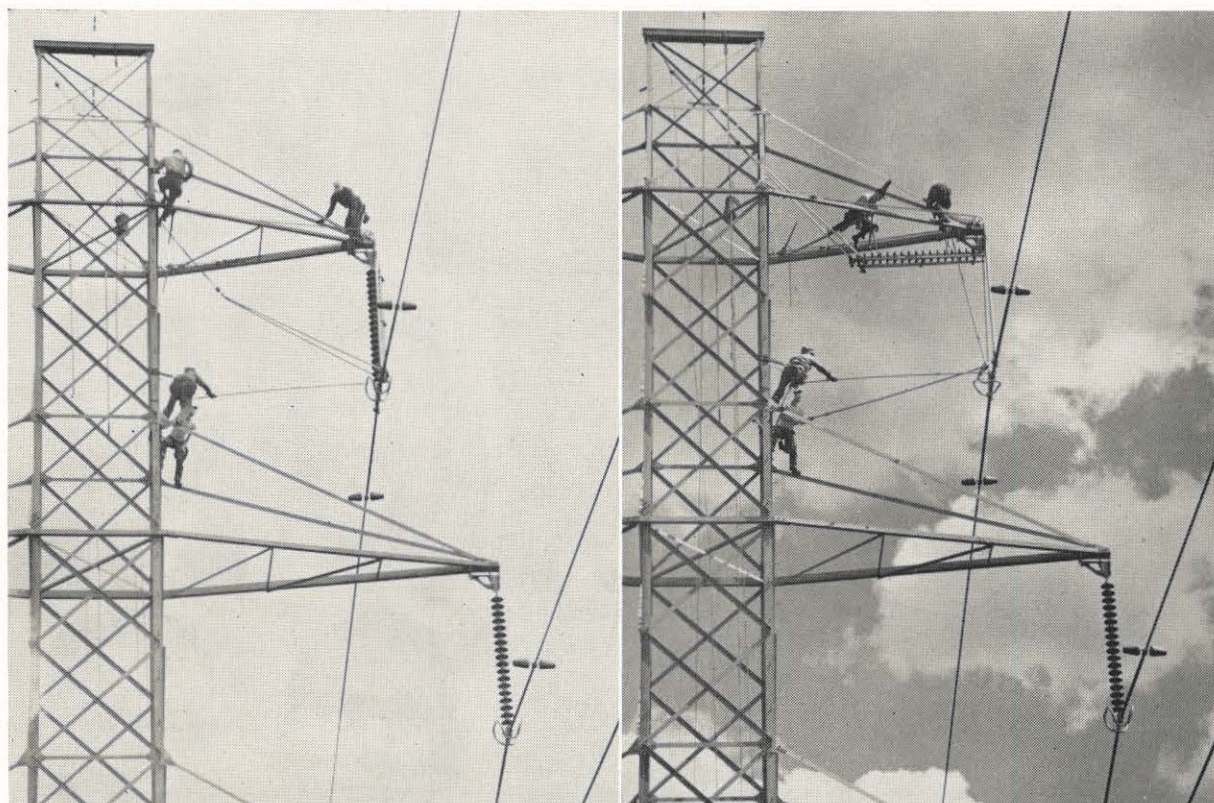
These pieces of equipment were put under test at Bluefield in March 1955. Actual field conditions were simulated so that the equipment had to stand the strain that would normally be put on it. Instruments kept a record of performance. The tools passed the test.

## Worked Hot First

The next step came on April 14, 1955, when a demonstration was held. This was the first time 330,000 volt lines had been worked hot under actual field conditions.



This device called a "sheave block" was designed in Bluefield by system transmission line men. It fits over the end of a 330 kv tower crossarm without bolting. Ropes pass over the "wheels" to connect to the lifting sticks, as shown in the photo below.



Four men of the St. Albans crew of the Appalachian system transmission line department work some 15 stories above the ground to replace some damaged insulators and a corona shield on the Sporn-Kanawha 330,000 volt line. LEFT: Lifting the conductor to uncouple insulators, the men have safety belts attached and use the special

hot line sticks for protection. RIGHT: The new corona shield is being installed with the aid of one helper stick from above. Notice that the string of insulators has been lifted into a horizontal position and rests in the insulator cradle where the workman replaces faulty units. The insulator string is then lowered and re-attached.

This demonstration given by Appalachian men at Tower 13 on the Sporn-Kanawha 330 kv line was attended by representatives of Ohio Power, Indiana & Michigan Electric, AGE Service Corporation, Ohio Valley Electric Corporation and the hot-line tool manufacturer.

Members of the various Appalachian system transmission line crews conducted the demonstration under the supervision of Frank W. Harman, transmission foreman. The demonstration of tools and the technique of the workmen in replacing defective insulators was performed on the top, middle and bottom crossarms.

The technique for bottom and top crossarm is the same. However, the middle arm with its extreme length meant that a 20-foot aluminum ladder was used by the workmen.

## Steps In Procedure

Briefly, the steps in replacing a faulty insulator include:

First, place lifting sheave in position at end of crossarm. Second, install lifting sticks, one on each side of the insulator assembly, to the conductor. Third, lift the weight of the conductor by use of coffin hoist. Fourth, after slack has been created in the string by lifting the conductor, the insulators are uncoupled by removing the cotter key and pulling pin from suspension clamp. Fifth, the insulator string is then lifted to a horizontal position by use of two hot sticks and a 2-sheave block and tackle and insulator cradle. The combination heavy-duty cradle for 330 kv line work handles a maximum of 21 insulators, compared to the maximum of 12 insulators handled by the 132 kv cradle. Sixth, with the string of insulators in a horizontal position, the workman removes and replaces the defective unit or units.

The above procedure is reversed to put the insulators and conductor back in normal position.

## Second Job Done

After the first demonstration April 14, 1955, a St. Albans transmission crew in June 1955 changed out a burned corona shield and some insulators damaged by a lightning flash-over. The work was completed in 48 minutes.

In August 1955 engineers and transmission supervisors from the AGE companies met in Fort Wayne, Indiana, for a three-day meeting to "compare notes" on findings. They witnessed another maintenance demonstration on 330,000 volt lines under actual load conditions.

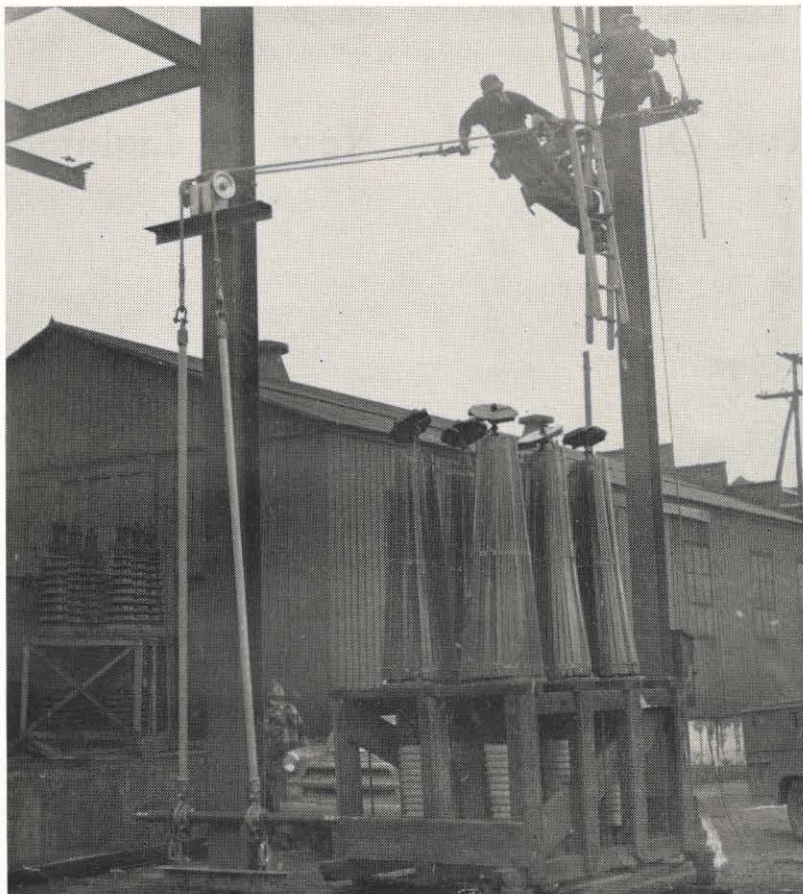
## Now Routine Work

In the year that has followed the demonstrations of 330 kv line tools and techniques, working 330/345 kv hot is routine work for the skilled transmission crews. Today, 884 tower miles and 1,317 circuit miles of super high voltage lines are in operation or under construction on AGE System.

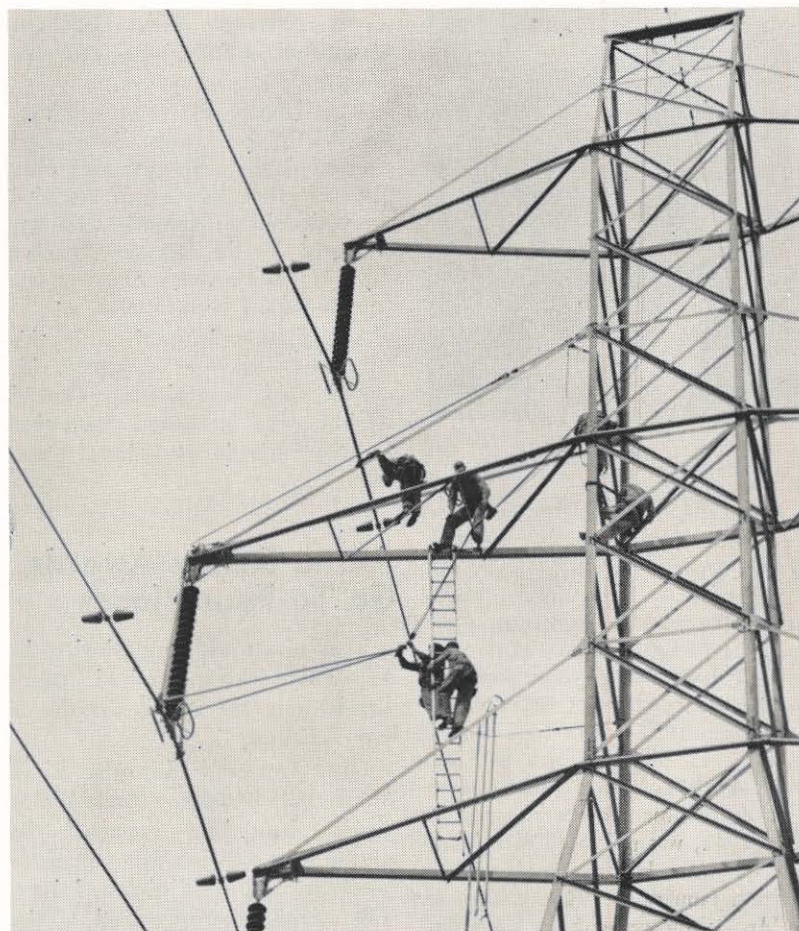
The transmission crews of Appalachian Electric Power Company have been working 154, 132 and lower

voltages hot for many years. All of these crews are now qualified not only on these lower voltages, but on 330/345 kv as well. They work smoothly with the longer and heavier hot sticks. The height of the tower makes no great difference to crew members accustomed to working high above the ground. As a matter of fact, some 132 kv towers (like at river crossings) are higher than the average 150-foot 330 kv tower.

These facts are mentioned to point out that the challenge of some five years ago has been met successfully. Working 'em hot at 330,000 volts is another milestone in bringing ever-ready electric service to our customers. And it's just another of the AGE "firsts" that give added meaning this year to AGE's 50th anniversary theme of "Fifty Years of Progress in Electric Power."



Mechanical tests were made on the sheave block and the lifting sticks in March 1955 by members of Appalachian transmission line crews. Using a coffin hoist and a dynamometer to measure strain, the men worked on this tower designed to simulate actual working experience. The equipment passed the tests and was used April 14, 1955, by Appalachian men who gave the first demonstration of working 330,000 volt lines hot.



These Appalachian men were the first to work 330,000 volt lines hot. The April 14, 1955, demonstration was attended by representatives of AGE companies, OVEC and the manufacturing company that made the hot line sticks. Insulators were replaced on the top, middle and bottom crossarms to demonstrate both the use of tools and the technique. The aluminum ladder shown is used only for the middle arm because of its extreme length.



As Schools Open . . .

# Appliance Loan Program Expands

Reading, 'Riting and 'Rithmetic have always been essentials in our schools. But in our three-company territory a fourth "R" plays an important part in education—Reddy.

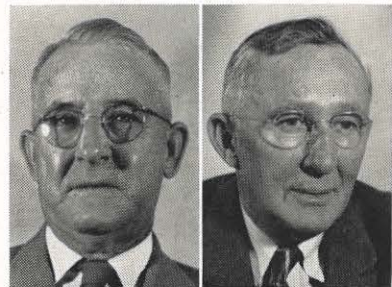
Just as students learn to read, write and do arithmetic, they learn how Reddy Kilowatt can best be put to use. This is a result of an appliance loan program put on by our three companies. As students returned to school last month, the program continued to play its part in their education.

Here's how the program works: the companies buy appliances from distributors and, with the schools' permission, install these appliances in home economics classrooms for use by students. With the addition this year



R. B. Muncy of the Hazard commercial department talks with Mrs. Spurlock, M. C. Napier High School home ec teacher, about the washer and dryer installed in that school by Kentucky Power.

## 35-Year Emblems Go To Veterans



Mr. Wells      Mr. Watkins

Two veteran Appalachian employees have received service pins for completing 35 years with the company.

### J. H. Wells

J. H. Wells, Cabin Creek plant coal and ash equipment operator, was employed in September 1921 as a coal handler. He has served in the coal handling department throughout his time with the company, helping unload millions of tons of coal and witnessing great improvement in coal handling methods. Wooden barges, Model-T trucks and skip hoists have been replaced with modern equipment, making for more efficient work methods.

Mr. Wells, a native of Marmet, is married and has two children.

### T. M. Watkins

T. M. Watkins, assistant to the Huntington division manager, has received a pin for 35 years' service.

Mr. Watkins came with the company as district superintendent in Hazard and later went to Pikeville. He was Williamson district manager before rising to his present position.

He attended George Washington High School in Arlington, Va., and is a member of Trinity Episcopal Church and is an honorary Kentucky Colonel. He is married and has two sons.

## Number Of Appliances Our Three Companies Have Installed In Schools—September 1956

	Appalachian	Kentucky	Kingsport	Total
Ranges	679	158	35	872
Freezers	244	0	2	246
Washers	137	9	0	146
Dryers	149	47	6	202
Water Heaters	18	0	0	18
Total	1227	214	43	1484

of the electric washer, dryer and water heater as part of the loan program, the three companies now install five major appliances in schools at no cost to the schools. The other two are the range, which initiated the program in the early 1930's, and the freezer, which was added to the list three years ago.

### Reasons Why

Why has the company entered in such a program? One of the reasons is the company is interested in seeing that our youth has available knowledge of the latest methods of doing things. It follows that electric living, the best and most modern way to live, should be taught these youngsters.

Then too, these students are tomorrow's homemakers and our future customers. The companies feel that if these girls are given an opportunity to use electric appliances, when they set up their own homes they will be inclined to electric living. Spot checks over the past several years bear out the logic in this reasoning . . . the great majority of these students do make wide use of electric appliances in their homes when they get married.

A third reason is company public relations, where we perform a vital service for schools in our area. Also, since these schools do not have to buy these appliances, the money they save can be applied elsewhere.

### When School Begins

As soon after school opens in the fall as possible home economists make appointments to appear before these



Mary Lee Watts, Huntington home economist, right, demonstrates the use of an electric range before home ec students at Ceredo-Kenova High School.

home ec classes. The home economists give instructions to the teachers and pupils in the use of electric appliances and hold demonstrations. In many instances a home economist will make several trips to the school, each time explaining and demonstrating a different appliance.

Generally these appliances are replaced each year with a new model. The old models are offered for sale to employees, dealers and the general public.

The fourth "R" in our schools—Reddy—has become an important part of both our companies' promotional activities and the schools' educational system.

## Over And Under



Four 44,000 volt feeder circuits are being relocated underground in the Charleston district to make way for a new U. S. Route 60 near the Dupont plant at Belle. Here workers of the Hayne Engineering Company, contractors for the job, are shown installing one of the last duct runs for the cables of the circuits. In addition to the relocation of these feeders, the Cabin Creek-Belle No. 1 circuit will be moved from steel towers to wood poles which will be spotted high on a mountain above the new highway, on rock outcrop. The circuit had to be relocated because earth moving for the new highway would have caused them to slip. The new facilities, which were planned after 18 months of study by Appalachian and State Road Commission engineers, will be cut into service before the present facilities are disturbed. Mid-November is completion date for the \$383,000 company project.

## Small World

Here's more proof that it's a small world.

When Harry E. Guilliams, Roanoke meter serviceman, attended Army training camp at Fort Lee recently, he instructed some first aid classes. Right before he left for camp he and B. T. Bryant, also a meter serviceman, were on a trouble call when they saw a woman fall getting off a bus. They gave first aid to the woman, who had suffered a bad sprain. Mr. Guilliams brought out this incident in his camp classes as an example of the need for first aid.

After one of the classes another reservist came up to him and thanked him for the first aid he had performed on the woman. It turned out she was his mother, and her family had been trying to find out who the "Good Samaritan" was.

Recently the company received a letter from the woman's husband which said in part: "I wish to . . . thank Mr. Guilliams for his assistance, and also Appalachian for having such courteous and efficient employees."



Ravens-Metal Products, Inc. has acquired plant facilities in Ravenswood, Point Pleasant district. This is the first satellite plant to use aluminum from the nearby Kaiser plant. It will manufacture small boats and bus bars and specialize in general shop work on aluminum and steel.

The W. M. Ritter Lumber Co. of Columbus, Ohio, plans to move into its new general office building in Roanoke soon after completion about November 1. The \$250,000 two-story structure will be the new headquarters of the company that has mills in Georgia, West Virginia, the Carolinas, Kentucky and Tennessee and employs 1,800 persons.

Big Run Coal & Clay Company in the Ashland district has installed 50 kw in electric heat in a pilot kiln.

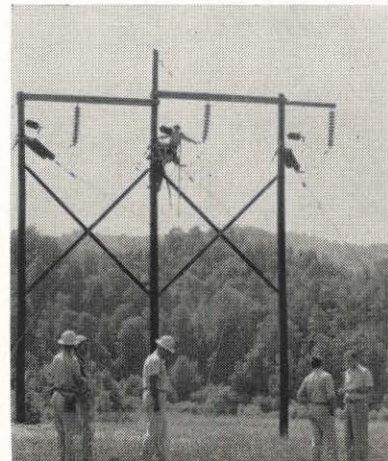
The Pocahontas Fuel Company is installing additional mechanized equipment at the Jenkinjones mine, Welch district. The new load will have a demand of about 675 kw.

Clinchfield Coal Corporation's new Moss No. 2 store and adjoining filling station will have three heat pump units and resistance heat.

Of the 16 building permits issued by the City of Kingsport during August, 12 were for electric heat, 3 were for oil and one for gas.

The Chesapeake & Ohio Railway Company has announced the addition of the second shift for their car shops at Raceland, Ashland district, beginning September 17 for a period of about six months.

## West Kingsport To Hill Line Is Now In Service



The Scott County line crew of the Abingdon district makes final connections on the 33 kv structure at Hill station before energizing one circuit of the West Kingsport-Hill line at 33 kv.

One circuit of the West Kingsport-Hill 132 kv line has been completed and placed in service at 33 kv.

Fourteen miles of 132 kv steel tower line have been constructed from the West Kingsport station to the recently built Hill station of the Abingdon district. This line will be continued on to the Clinch River plant and will be one of three main transmission lines from the new plant.

At present, the 33 kv circuit completes a loop from the Kingsport-Lovedale station through Gate City, Sunbright, Hill station, West Kingsport and back to Lovedale. Automatic circuit breakers are located at Sunbright and switches at other stations, so that each station can be fed from either direction.

All work was performed under the direction of the system transmission department by Abingdon district and Kingsport employees.

## Don't Fall For A Candidate!



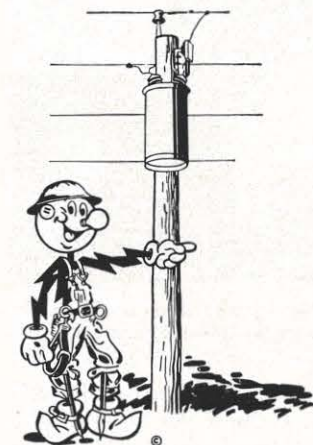
Dear Candidate:

I'm in favor of signs announcing elections, dances, bazaars, sales and all kinds of get-togethers.

But posting these signs on electric utility poles is a dangerous practice. You see, the poles are the way I get to the places I'm needed. Often my helpers, the linemen for Appalachian, have to climb the poles. If they're full of signs that makes the climbing more dangerous. A lineman's spurs can slip off and down he'll come, perhaps to be seriously injured.

Won't you help us by not posting any of your campaign signs on the electric poles?

Gratefully yours,  
REDDY KILOWATT



The top two photos show what often happens as elections near. That sign tacked to the pole is a hazard because the tacks remain long after the sign is gone. The lineman on the pole can't see where he sticks his climbing hooks. If the point of a climbing hook hits the head of a tack instead of the wood, he can fall. So the candidate who is careless with signs and tacks could lose a vote forever . . . the point of the Reddy card at bottom that the company sent out. By the way, the candidate pictured on that sign bears a striking resemblance to Ira Henderson, Bluefield administrative assistant, who originated this story with the help of lineman W. H. Conner, Jr.



## John Nash Dies; Was 36-Year Vet



Mr. Nash

John Forbes Nash, Sr., 64, system supervisor distribution engineer, died September 12 in a Roanoke hospital of a heart condition.

Mr. Nash had been an employee for more than 36 years. He joined the company June 1, 1920 as an engineer in the Bluefield division and came to Roanoke April 1, 1952, as system supervisor distribution engineer.

Born at Bonham, Texas on February 18, 1892, he was a graduate of Texas A&M College where he received his BS degree in electrical engineering. Mr. Nash spent a year with the Texas Power and Light Company before going to Schenectady, N. Y., to take General Electric student engineer training. After serving as a supply officer with the infantry in Europe during World War I, he returned to GE and then became an assistant professor of electrical engineering at Texas A&M. He then joined Appalachian.

He was a member of St. John's Episcopal Church in Roanoke, Bluefield Lodge 85, AF&AM, the University Club, Rotary Club and American Legion at Bluefield. He also was a member of the American Institute of Electrical Engineers.

Mr. Nash is survived by his wife, a daughter, a son, a sister and a brother. The funeral was conducted September 14 at Christ Episcopal Church of Bluefield.

## Dog Bites Bad—But Shots Worse

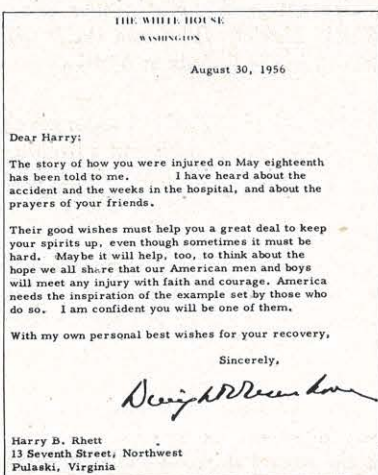
Ira Conn looked a little down in the dumps the other day. When asked why, he replied, "Dogs just plain don't like me."

The Williamson meter serviceman had good reason for this comment—he had just been bitten by "man's best friend" for the third time. The latest bite happened when Ira walked into a customer's yard and a dog started barking.

The owner assured Ira the dog wouldn't bite, but as he went about his work the dog attacked him about the ankles. He threw out his arm to knock the dog away, but the animal switched his attack and bit Ira on the arm.

Ira's only other comment about the incident was, "I sure hate to take those shots!"

## Ike Sends Letter



Harry Rhett was surprised and delighted when this personal note from President Eisenhower arrived recently. Harry, son of C. H. Rhett, Pulaski engineering aide, was seriously injured at the Boy Scout Camporee in Roanoke May 18. Harry spent many weeks in a Roanoke hospital, and now has returned home to recuperate. The President's letter has been framed and hung above the head of Harry's bed.

## AGE Annual Report Wins Bronze 'Oscar'

For the second consecutive year AGE's annual report has won the bronze "Oscar of Industry" award presented by *Financial World* magazine.

AGE's 1955 report was judged the best in the utility holding companies' classification. The bronze "Oscar" and a citation will be presented to the company at the annual awards banquet of the magazine in New York late this month.

Approximately 5,000 annual reports were entered in this year's international competition and the AGE report was one of 100 finalists. Earlier, the AGE report had received first place in the Reddy Kilowatt annual report competition.

## H. F. Rozier Goes To System Post



Mr. Rozier

Harold F. Rozier has been promoted to system distribution engineer, succeeding John F. Nash, who died September 12.

Mr. Rozier has been assistant system distribution engineer since 1953, when he came to Roanoke from Huntington. He joined Appalachian in 1927 in Huntington as electrical engineer. Ten years later he became distribution engineer and in 1940 he was named assistant distribution superintendent. In 1946 he moved up to district distribution superintendent. A year later he was promoted to district superintendent.

A graduate of the Georgia School of Technology in 1924 with a degree in electrical engineering, he was a major in the Signal Corps during World War II. He also was chief of the service branch, radar and radio section, Air Technical Service Command at Wright Field, Dayton, O.

Mr. Rozier is a member of the American Institute of Electrical Engineers. Married, he and Mrs. Rozier are members of the Second Presbyterian Church.

## Logan . . .

(Continued from Page 4)

Attending the 12th Annual Session of the Foreman-Manager Personnel Conference at Marshall College were J. A. Kovich and H. L. Foglesong, electrical engineers; W. H. Honaker, line and station supervisor; and H. J. Collins, personnel supervisor.

Employees who recently resigned are William B. Canterbury, groundman; Paul F. Sammons, meter serviceman; and James C. Brady, junior clerk.

G. A. Blankenbeckler, station man A, has returned to work after being off since January with a heart condition.

Sympathy is extended Virgil C. Mauck, lead draftsman, on the death of his father.

## Make Your Own Furniture And Save, Kanawha River Plant Employee Says



Charlie and Marjorie Pannell show the walnut bedroom furniture he built. He says she often helps with the finishing process.

"Why buy furniture when you can build it cheaper and have a little fun to boot?" asks C. W. Pannell. The Kanawha River plant maintenance foreman says he has enjoyed making furniture for his house with the help of an assortment of power tools.

He has made a walnut bedroom suite, a knotty pine bedroom suite, kitchen cabinets and end tables. Charlie is now working on a cherry dining room table which is a reproduction of his grandmother's table that has been in the family for over 75 years.

As for finish on his projects, he

likes a natural hand-rubbed finish. He uses a mixture of turpentine and shellac on the wood and then a coat of wax which is rubbed to the desired lustre.

He makes his own patterns. When he sees something he likes, he draws a rough sketch of it. He keeps a stockpile of lumber acquired over the past two years.

Here's a tip for would-be hobbyists: look for a good buy in fine lumber and get it while it's available rather than when you need it. "That's how to get the most for your money," he says.

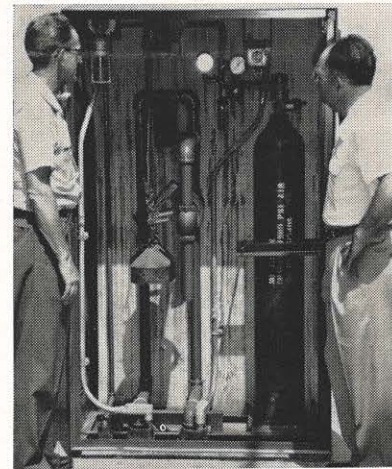
## Turbine Oil Tanks At Kanawha River Get Fire Protection With Installation Of Foam System

A foam system for the turbine oil tanks is the latest addition to Kanawha River plant's fire protection.

The internal foam system is for the 6,000 gallons of turbine oil, and there is a separate system for Units 1 and 2. The system is operated manually from the transformer deck outside the plant. A foam proportioning tank, located in the turbine room basement, contains a compartment for 94 gallons of water and a compartment for six gallons of foam. A cylinder of compressed nitrogen is used to force the water and liquid foam from their storage tanks into the piping to the oil tanks and also to trip the weight-operated valves and actuate an annunciator alarm.

This system supplements the automatic fire protection system in the turbine room basement, designed to automatically provide a blanket of foam in case of a sudden rise in temperature caused by fire.

Other units of the plant's fire protection include a fire truck, outside



J. C. Burnette, Kanawha River plant safety supervisor at left, and T. W. Abolin, assistant plant manager, inspect the control enclosure for the plant's new fire protection equipment.

fire hydrants, two electrically-driven fire pumps and a 1,000-gallon-per-minute gasoline engine drive pump installed outside the plant, using the river as a source.

## Aerial Cable Is Giving Bluefield's Business Section New Overhead Look



Aerial cable is being installed in Bluefield's downtown section. Here the cable has been carried to the pole in back of the truck. Most of the crossarms on that pole and others will be removed later.

A new, overhead look is coming to Bluefield's business section as part of the city's conversion from 4 kv to 12 kv.

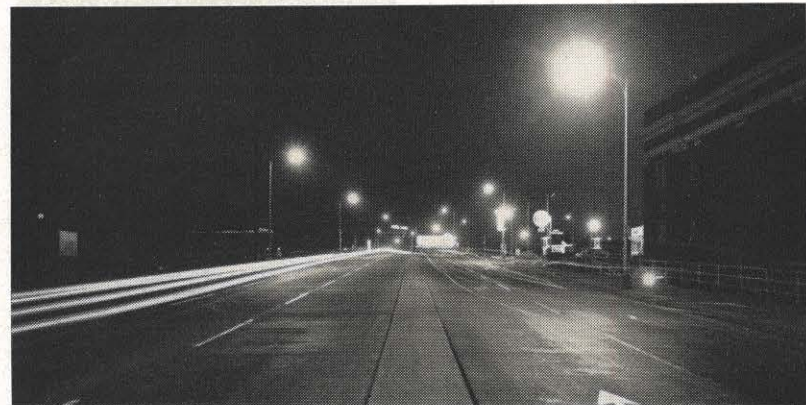
Aerial cable is replacing the present open-wire, 4-kv circuits feeding the business district. The cable is insulated for and will operate at 12,000 volts.

There are several advantages to aerial cable. Most of the crossarms

used with Bluefield's old wiring will be removed since the aerial cable is supported by copper weld between poles. This will give the city a cleaner look. Then too, aerial cable needs less clearance. And it is completely insulated.

Actually, the aerial cable is four wires, three of them lashed together and supported by the copper weld, which serves as a ground.

## Roanoke Viaduct Is Best Lighted



The best lighted bridge or viaduct in Appalachian territory is the new Y-shaped viaduct over the Norfolk and Western Railway tracks in Roanoke. Shown above is a portion of this viaduct, called the "largest municipal project ever undertaken in the State of Virginia." The \$2,700,000 viaduct was financed by the N. & W., the City of Roanoke and the State of Virginia. The viaduct has 34 21,000 lumen mercury vapor, whiteway, underground street lights installed over its Y shape. Several main traffic arteries run into the viaduct and traffic moves into the city by two main legs of the viaduct. The lower lights on the road were caused by car headlights and taillights which streaked this time-exposure picture.



## 1956 SPOTLIGHT ON PROGRESS

To children the woodpecker may be a funny bird, but to the electric utility he's a real headache.

This bird with the pointed bill ranks second only to natural decay and rot in the list of reasons why utility poles have to be replaced. These poles are an essential part of the "lifeline" of our business, and their constant replacement is necessary in keeping lines and transformers working.

Today there are about 740,000 wooden poles in use in our three companies. Appalachian makes use of over 600,000, Kentucky uses over 123,000 and Kingsport has over 16,000 poles. A close watch is kept on the condition of all these poles.

### Woodpecker at Work

Why does Mr. Woodpecker take such a liking to poles? They're made of wood, and wood is the home of his favorite diet, insects and worms. Then too, the woodpecker often drills out a hole large enough for his own home. This tends to weaken the pole. If the hole is large enough, or if there are enough holes, the pole is replaced by a new one. These holes sometimes allow water to seep in, increasing the rot rate.

Drilling on one of these poles is no picnic for the woodpecker since they're heavily treated with creosote. But when a pole is treated the annual growth rings tend to separate slowly, and when a woodpecker pecks on the pole, it gives off a hollow sound. This, to him, means food inside, and he goes to work.

Ranking third in the reason why poles have to be replaced is the motor vehicle. Poles have always been a prime target for reckless drivers and each year damage to poles runs into the thousands of dollars.

Lightning is the fourth biggest destroyer of wood poles.

### Poles Are Big Job

Treatment, maintenance, replacement and storage of poles is a full-time job. The way this is handled in the Lynchburg district is a good illustration of our companies.

The district has a storage yard where the poles are kept until needed. Actually Lynchburg has two yards, where the poles are received on flat cars and unloaded by a contractor, who places them on racks according to height and class of pole.

The district engineering department keeps a running record of all

## Holes Pecked In Poles Are Costly To Our Companies



LEFT: This pole is being prepared to receive three 37½ Kva transformers to serve a new commercial customer in the Lynchburg district. Work on poles is carried on constantly in our three companies. Shown are from top to bottom: Sandidge L. Drumheller, lineman; James E. Howard, lineman; and James A. Martin, groundman. RIGHT: Willie E. Metts, general serviceman, points to woodpecker holes 15 feet up on a wood pole. Woodpeckers are second only to natural rot and decay in destroying utility poles. Most of the damage by woodpeckers is done higher up on a pole than these holes, usually in the vicinity of the crossarms.

poles on hand in the district and advises the stores department of their requirements. Periodic inventories are also made by engineering.

### Poles Have Tripled

The record section of the T&D department keeps up-to-date records of all poles installed and replaced, including a map showing locations. Right now there about 38,000 poles installed in the Lynchburg district, of which 36,000 are distribution poles. The number of poles has tripled in the last 18 years, a good indication of the fast growth of the area.

This record section also handles records of joint-use poles (poles used by Appalachian and another company, usually a telephone company). There are about 12,000 of these poles in the district, of which 8,000 are our poles.

The quality of poles has steadily increased. For instance, 30 years ago poles in Lynchburg were made of native chestnut, brush treated at the ground line with creosote. Other kinds were tried, but now southern long leaf yellow pine poles, fully treated with creosote, are used for distribution. About 95 percent of these poles are handset with the use

of truck-mounted winches.

Progress is being made in the treatment, replacement and installation of poles. The four big menaces—rot and decay, woodpeckers, motor vehicles and lightning—are becoming less of a threat to the lifeline of our company.

### Employee Is Named Mayor Of Hillsville

Sebert L. Sisson has been named mayor of Hillsville. He is area sales representative in Hillsville of the Pulaski district.



Mr. Sisson

Mr. Sisson joined the company in 1948 after teaching vocational agriculture in Floyd County. He attended schools in Floyd County, Mars Hill, N. C., College and VPI, where he earned a degree in vocational agriculture. Mr. Sisson is married and has a daughter.

### Injured Sporn Men Leave Hospital To Recuperate At Home

The two employees injured in the July 18 explosion at Philip Sporn plant have returned home from the hospital to continue their recuperation.

Kenneth E. Carter was released from the hospital September 2 and has been able to get outside some since coming home. Paul E. Huber was released September 23 and will continue recovery at his home.

Mr. Huber will have a new bride looking after him. He and DeEtt Dunbar planned some time ago to be married August 11 and the fact he was confined to the hospital that day did not stop them. They were married in his hospital room.

## Kammer Plant To Get Third Unit

Construction of a third identical 225,000 kw generating unit at the new Kammer plant at Captina, W. Va., has begun.

The new unit announced August 30 will increase the plant's generating capability to 675,000 kw and its estimated cost to \$90 million. Meanwhile, work is progressing rapidly on the plant's first two generating units and all three units will be in operation by July 1958.

Ohio Power will operate all three units upon their completion. Our sister company will own one unit and Olin Revere Metals Corporation, a new company formed to take over the major new aluminum development underway at Clarington, O., will own two units. Olin Revere is jointly owned by Olin Mathieson Chemical Corporation, original developer of the Clarington aluminum project, and Revere Copper and Brass, Inc.

Need for the third unit arose after a decision by Olin Revere to triple the projected aluminum production at Clarington, raising it to 180,000 tons per year.

### AGE Acquires Stock Of Small Ohio Company

American Gas and Electric Company has acquired all of the capital stock of the Seneca Light and Power Company with headquarters in Attica, Ohio.

Seneca serves about 700 customers. Philip Sporn, AGE president, is the new president of Seneca.

## Buck Operator Retires To Farm



Mr. Sharp

A 73-acre farm will occupy Robert Lee Sharp's time since retiring August 31. He was Buck hydro operator in the Pulaski district.

His retirement came after over 30 years' service. He started at Buck in April 1926 as floorman and later moved up to operator.

His farm, located in Carroll County near Woodlawn, was purchased several years ago for his retirement home. Getting his farm in shape took his spare time and he and his wife have just recently moved into a new, modern brick home where they plan to just "take it easy." The major portion of his farming activities will be confined to grazing cattle and growing hay and grain for feed.

One of Mr. Sharp's sons, Marlar D., cashier-clerk at Hillsville, lives on adjoining property and will help with the care of the stock. The Sharps have three other sons who are Appalachian employees. Buford is hydro maintenance mechanic at Buck, Kent is Pulaski station man and Clyde is a Galax lineman.

## Bluefield Philatelist Adds Stamps To His Collection From All Over World



J. E. Taylor leafs through one of many books containing stamps in his collection. Surrounding him are just part of over 500,000 stamps in his collection.

The world is the hunting ground for J. E. Taylor in his search for stamps.

The Bluefield local office manager is a philatelist (stamp collector) and he has collected over a half a million stamps in the past 48 years from every country in the world. His most complete collections come from the United States, Mexico, Canada, France and Belgium. Many thousand of his stamps have already been cataloged, but Mr. Taylor estimates that it would take a person a solid year, working eight hours a day, to mount his entire collection.

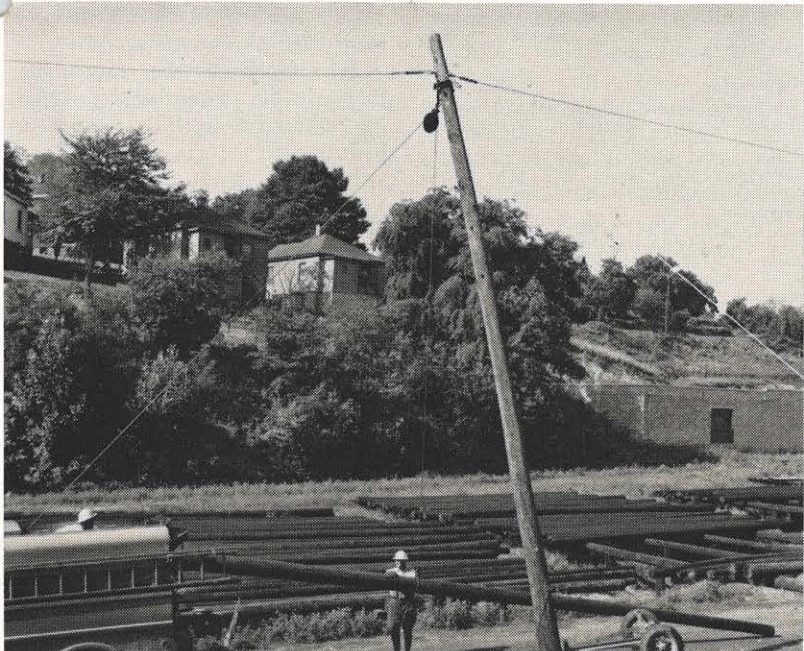
At one time he was corresponding with and trading stamps with at least one person from every country. Through this correspondence he met some interesting people and had some unusual experiences.

He remembers he was corresponding with the Minister of Finance of Czechoslovakia when that country was

overrun by the Germans. His last letter from the minister said that the Germans were closing up his office and that this would probably be the last letter Mr. Taylor would receive.

At the beginning of World War II he was corresponding with a German in Mexico. When the German's questions became too numerous and pointed, Mr. Taylor became suspicious that maybe he was a spy. He stopped writing him and turned his name and address over to the FBI.

In his collection Mr. Taylor has 25,000 mounted blocks. He estimates it took about 500 square feet of cellophane and cardboard and a mile of cellophane tape to mount these stamps. In his collection he has tax stamps, hunting stamps and duck stamps. He has a complete set of Red Cross Christmas Seals, Crippled Children Seals and many foreign seals. He also has 15,000 foreign stamps.



A pole is loaded on a pole trailer at the Lynchburg pole storage yard. A permanent gin pole and snatch block, with the line attached to the winch drum on the line truck, is used to remove the pole. The poles are stacked according to height and class.



## Seventeen Couples Are Married



Employees and members of their families married in recent weeks are pictured above. TOP ROW, from left: Mrs. Frank B. Strader, Pulaski; Mrs. Russell Wakeland, Pikeville; Mrs. Jerry Lowell Hayden, Roanoke; and Mrs. William Harrison Giles, Williamson. MIDDLE ROW, from left: Mrs. Paul E. Huber, Philip Sporn plant; Mrs. John

Linkenauger, Welch; Mrs. Carl Herd, Hazard; and Mrs. Vero Raymond Blackwood, Jr., Huntington. BOTTOM ROW, from left: Mrs. Jack Hartzell, Logan plant; Lt. and Mrs. Charles Giles, Williamson; and Mrs. Edward Canterbury, Charleston.

### Bachadi-Blankenship

Anne Bachadi and Cpl. Ray E. Blankenship were united in marriage August 25 at the Gretna Green Chapel in Yuma, Ariz. The son of J. H. Blankenship, Kanawha River plant employee, Cpl. Blankenship is stationed at Camp Pendleton, Calif.

### Hainor-Hartzell

Peggy Hainor and Jack Hartzell were married August 10 at the home of the bride in Manila, W. Va. She is the daughter of S. M. Hainor, Logan plant mechanical maintenance helper.

### Ramsey-Blackwood

Doris Ann Ramsey was united in marriage with Vero Raymond Blackwood, Jr. August 25 at the First Methodist Church in Huntington. She is the daughter of Jesse Ramsey, Huntington system billing.

### Dunbar-Huber

Holzer Hospital was the scene August 11 of the marriage of DeEtt Dunbar and Paul E. Huber. The double ring ceremony, planned some time ago, was not delayed by the fact Mr. Huber was confined to the hospital by injuries received in the Philip Sporn plant explosion. Mrs. Huber is a clerk in the accounting department of Central Coal Company and Mr. Huber is conveyor operator at Philip Sporn plant.

### Cassell-Giles

Virginia Gay Cassell and William Harrison Giles were married August 25 in a double ring ceremony at St. Paul's Episcopal Church, Williamson. Mr. Giles is the son of W. F. Giles, Williamson district commercial manager.

### Negri-Giles

Deloris Negri and Lt. Charles Giles were married recently at the chapel on the Air Force base at Corapolis, Pa. Lt. Giles is the son of W. F. Giles, Williamson district commercial manager.

### Hulme-Linkenauger

The Methodist Church of Russell, Ky. was the scene September 8 of the marriage of Judith Rae Hulme and John Linkenauger. She is the daughter of William Hulme, Welch district head T&D clerk.

### Hamby-Sluss

Opal Marie Hamby and Marvin Carroll Sluss were united in marriage August 30 at the home of the bride's parents in Bluefield, Va. Mr. Sluss is a T&D clerk in the Welch district.

### Hamblin-Herd

Nannie Faye Hamblin was married August 24 to Carl Herd. She is a clerk in Hazard accounting.

### Absher-Hayden

Lois Ann Absher and Jerry Lowell Hayden were married September 14 in a double ring ceremony at Thrasher Memorial Church. She is the daughter of Lemuel M. Absher, Roanoke district general serviceman.

### Jones-Strader

Elizabeth Anne Jones was married August 24 to Frank Bryan Strader in Christiansburg. Mrs. Strader is a clerk in the Christiansburg office of the Pulaski district and the daughter of A. Parker Jones, Christiansburg area supervisor.

### Goff-Wakeland

Juanita Goff and Russell Wakeland were united in marriage September 15 in the Baptist Church of Shelby. She is an accounting clerk in Pikeville.

### Durham-Cruickshank

Mrs. Ruby T. Durham and John P. Cruickshank were united in marriage August 31 in a ceremony at Houston, Texas. Mr. Cruickshank is general superintendent of the system T&D department.

### Williams-Durant

St. Mark's Evangelical United Brethren Church of Arlington was the setting for the August 30 marriage of Karen Williams and Richard Durant. Mrs. Durant is the daughter of O. L. Williams, Nitro area sales representative of the Charleston district.

### Wilson-Canterbury

Beverly Wilson and Edward Canterbury were united in marriage August 24 in a double ring ceremony at St. Anthony's rectory. He is Charleston district meter service helper.

### Jordan-Barnhart

Radie Jordan became the bride of William Barnhart September 1 at the Mountain Mission in Dunbar. He is a Charleston groundman.

### McClung-McClung

Leora Rae McClung and Woodrow McClung were married September 1 at the Bridge Church in Green Valley. He is a maintenance employee of Kanawha River plant.

## Kingsport, Roanoke Hosts To Teachers

Substations were high on the list of company facilities visited by teachers during annual Business-Industry-Education Day at Roanoke and Kingsport.

Kingsport was host to 13 teachers and Holston transmission station was a point of interest. Lou Herr, chief operator, explained the station's function to the teachers. J. E. Wright, vice president and general manager, spoke to the group. Others helping with proceedings were F. W. Isley, S. H. Chandler and W. Z. Trumbo.

At Roanoke 32 teachers visited facilities including the Roanoke substation, where John Horne, system operating engineer, and John Armstrong, system operating supervisor, explained operations. W. P. Booker, district manager, welcomed the group, while J. W. Vaughan, district commercial manager, and Prince Thornton, public relations assistant, spoke to the teachers.

Included in the Roanoke group of teachers were Mrs. J. W. French, wife of the power sales engineer; Molly Ann Harvey, daughter of J. G. Harvey, Roanoke division personnel supervisor; Mrs. S. S. Snidow, wife of the auto repairman; and Gladys Whitaker, sister of Mrs. Pauline Hiner, merchandise order and billing clerk.

## They're Engaged

RUTH HALL to E. L. Thigpen. Mr. Thigpen is an assistant shift operating engineer at Kanawha River plant.

SUE CAREY to Glenn Cody. Miss Carey is Hazard home economist.

JOYCE CROSSWHITE to E. C. Baldwin, Jr. Mr. Baldwin is a Roanoke local accounting employee.

CAROL EWING to David Roush. Miss Ewing is a Point Pleasant accounting clerk.

ALICE ROSE BRINEGAR to Seaman James W. Jackson. She is the daughter of Spencer D. Brinegar, Logan plant coal handling foreman.

## Pikeville Youth Awarded Scholarship To Kentucky

Draxie Alice, daughter of Lawrence Newsom, Pikeville records supervisor, has been awarded a \$300 scholarship to the University of Kentucky.

Her outstanding work during four years of high school and her 4-H work earned the scholarship for the youth. She received state-wide acclaim when she became state champion in bread-making demonstrations. She will major in home economics in college.

Draxie Alice was in the top group of her high school class in both scholastic standing and leadership.

## Fast And Fancy

"Fast and Fancy for Dessert" is the name of a new recipe booklet, and it's also a good description of the book's contents.

This free booklet contains recipes for the best in tasty desserts, fancy yet easy to prepare. Included are recipes for royal date-nut squares, lemon cheese pie, dark 'n' sweet fudge, chocolate coffee parfait, royal pumpkin pie, frozen pineapple coconut supreme, chocolate almond ice cream cake and Nesselrode pie.

If you would like a free copy of these recipes, just drop a post card to THE ILLUMINATOR, P. O. Box 2091, Roanoke, Virginia.



## New Arrivals



### Beckley

MR. AND MRS. JENNINGS W. BEGLEY, a son, Richard Douglas, August 28. Mr. Begley is employed in the T&D line section.

MR. AND MRS. JOHN M. KIRK, a daughter, Rhonda Jo, August 28. Mr. Kirk is employed in the transportation department.

MR. AND MRS. ETHEL W. VEST, a son, Walter Wayne, August 22. Mr. Vest is employed in the accounting department.

MR. AND MRS. A. E. ZUTAUT, a son, Darrell Dean, September 14. Mr. Zutaut is employed in the T&D line section.

### Bluefield

MR. AND MRS. W. H. CONNER, JR., a son, Stephen Douglas, August 12. Mr. Conner is a lineman.

MR. AND MRS. OREN C. HAWLEY, a daughter, Jonae Elaine, September 10. Mr. Hawley is an appliance serviceman.

MR. AND MRS. DOUGLAS V. ROACH, a daughter, Phyllis Ann, September 5. Mr. Roach is a meterman.

### Huntington

MR. AND MRS. PAUL BEALS, a son, Ronald Wesley, September 6. Mr. Beals is employed in the AGE lab.

MR. AND MRS. RILEY BECKETT, a son, Riley Brent, August 26. Mrs. Beckett is a former employee in the system billing department.

MR. AND MRS. MICHAEL A. FOTOS, JR., a son, Michael A. III, August 11. Mr. Fotos is employed in the engineering section.

### Kanawha River Plant

MR. AND MRS. KENNETH FRIDLEY, a daughter, Kathryn Lee, August 27. Mr. Fridley is employed in the storeroom.

### Lynchburg

MR. AND MRS. PAUL C. DEANER, a son, Gregory Shane, September 1. Mrs. Deaner is a former stenographer in the commercial department.

### Pulaski

MR. AND MRS. WILLIAM W. BALLINGER, a daughter, Ellen Sue, August 11. Mr. Ballinger is a meter serviceman.

MR. AND MRS. EUGENE E. FANNING, a son, Robert Lawrence, August 22. Mr. Fanning is a meterman.

### System

MR. AND MRS. NEWTON J. BURNSIDE, a son, Richard Lee, August 24. Mr. Burnside is employed in the system operating department.

MR. AND MRS. HERBERT H. LEWIS, a son, Glenn Elbert, August 3. Mr. Lewis is employed in the system operating department.

MR. AND MRS. JAMES R. WILLARD, a son, Mark Teel, August 14. Mr. Willard is a turbine operator at Radford Arsenal steam plant.

MR. AND MRS. GLENN S. COLE, a daughter, Shelby Lynn, September 22. Mrs. Cole is a former system commercial employee.

### Williamson

MR. AND MRS. IRA CONN, a daughter, Myra Leah, August 18. Mr. Conn is a meter serviceman.

## Point Pleasant . . .

(Continued from Page 4)

Lois Archer, temporary employee in the accounting department, has resigned.

Jean O. Somerville, former employee in the accounting department, has returned to work on a temporary basis.

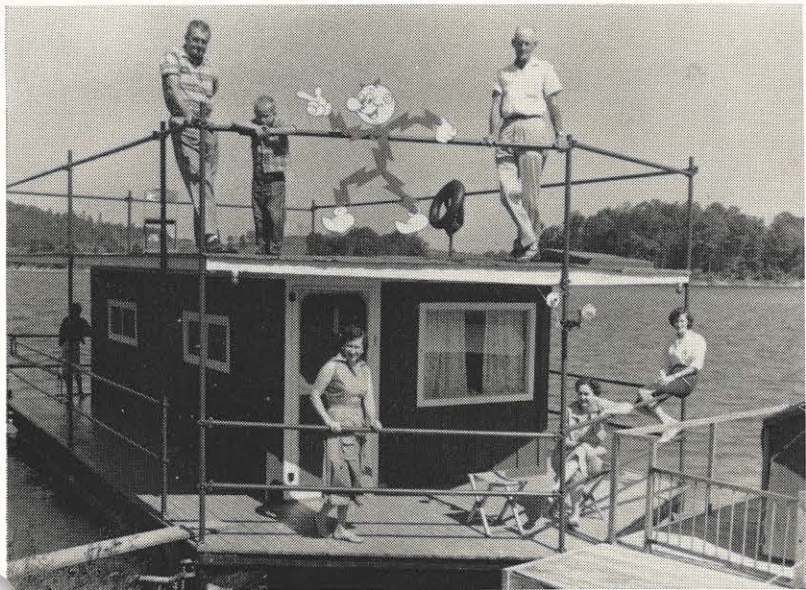
Sympathy is extended to J. V. Mann, district manager, on the death of his mother, and R. R. Roush, appliance serviceman, on the death of his wife.

Children of three employees won awards at the Mason County Farm Youth Show. Shirley, daughter of W. C. Gilmour, personnel supervisor, won for her project "Lunch with a Punch"; Tina, daughter of L. C. Bias, local office manager, won for her sewing entry; and Becky, daughter of Rose S. Martin, accounting clerk-stenographer, won for her exhibit of a child's dress and spool board.

J. L. Darby, agricultural engineer, was in charge of the physical arrangements for the Mason County Farm Youth Show.



## It's "Houseboat Ahoy!" At Kingsport As Third Employee Vessel Is Launched



The Piersons and Dunns gather on the houseboat they recently built. On the top deck are from left: Paul Dunn, his nephew Hagen Gamble and Samuel Pierson. On the bottom deck are from left: Mrs. Dunn, Mrs. Pierson and Charlene Dunn, a daughter.

The third houseboat to be built by Kingsport employees was recently launched by two families.

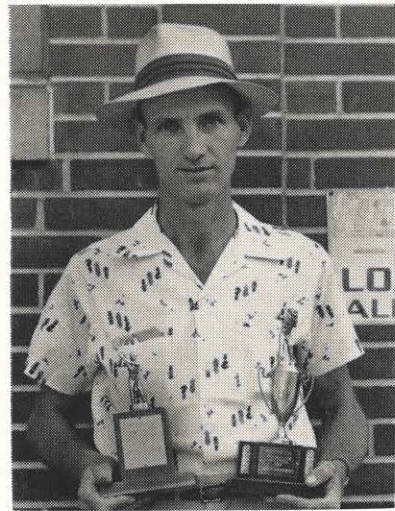
Paul Dunn, meterman, and Samuel Pierson, meter serviceman, and their families completed their houseboat this summer. Other boats had previously been built by Edward Barrett and James Ford, general servicemen.

The latest boat was started in June

1955. It has a 1000-watt gasoline-driven power generator for lights and a 10- by 20-foot cabin which sleeps eight. A 30-hp outboard motor drives the boat.

The longest trip the families have made was a 36-mile round trip to Bluff City. A Reddy Kilowatt cutout figure, made and painted by Sam Pierson, is fixed to the front of the boat.

## Sweeps Honors



The two highest honors of the annual Sand Green Golf Tourney were won by Leon Huffman recently. The Pikeville district R/w agent won both the medalist and championship honors of the three-day tournament. In addition to the permanent trophies he holds above, he won several other prizes. Outstanding golfers from all over the state took part in the Eastern Kentucky tourney.

## 'World' Prints Article By System Station Man

E. C. Rankin, system supervising station engineer, has an article in the September issue of *Electrical World*.

Called "Pre-Fab Control Buildings Extended Cheaper," the article also appeared in *Monthly Operating Notes* and *THE ILLUMINATOR*.

## Sporn Plant Bowlers Name Season Officers



The bowling season at Philip Sporn plant got underway last month after the 12-team league named officers. They are from left: Karl Wiles, treasurer; Harry Davis, president; Arthur Wehrli, vice president; and George Wright, secretary. Team captains make up the board of directors. Teams and their captains include: Maintenance No. 1, George Wright; Maintenance No. 2, Nelson Roush; Maintenance No. 3, Bob Couch; Maintenance No. 4, Gerald Clark; Pulverizers, Wyllis Dudding; 30-Year Vets, Charlie Carroll; Emmert's Shift, Butch Wehrung; Grimes' Shift, Floyd Capehart; Office, Art Wehrli; Labor, Billy Thomas; Substation, Roy Burgess; and Results, Charles Lester.

## The Magic Touch

Some days you just can't do anything wrong—you have a magic touch.

Such was the case recently with David, 8-year-old son of Florence Murphy, Williamson district personnel employee. David, his father and grandfather went fishing in Florida. While the other two were getting one fish apiece, David landed 51.

The youngster's father had gotten a little tired baiting his son's hook, so he suggested dropping the bare hook and line into the water. David's magic touch was still with him—he landed another fish.

## Charleston Sportsmen Acquire Camp On River

The Appalachian Hunting and Fishing Club of Charleston has a new camp on Coal River.

The building was formerly used by Westinghouse for lightning arrester tests, and was given the company several years ago. It has not been used for a long time, but the Charleston club members plan to fix the building up by next spring. A water pump will be installed as part of the work.

A float is being built on the river and facilities for children, like sand boxes and swings, are being built. The picnic area is being equipped with tables. Facilities will be used by club members, their families and guests.

## Lead Beckley Bowlers



Elizabeth Scott, secretary, and E. F. Eager, chairman, lead the Beckley district bowling league as another season opens. Eight teams will play four quarters during the season, which got underway last month. Eddie Berginnis got things off to a fast start the first night with a 278 game. Teams and their captains are: Reclosers, P. W. Burks; Heaters, J. A. Thompson; Hot Rods, Tom Humphries; Crazy Keglers, Paul Hancock; B.T.U., John Steele; Hot Shots, Jennie Gaziano; Lightning Rods, Sue Wills; and Circuit Breakers, Clyde Marshall.

## Footballer Kept In Top Shape In Summer Work

Leslie B. McClung had no trouble getting into shape when he rejoined the West Virginia University football team this fall.

The first team end weighing 204 pounds didn't have a chance to get out of shape—he worked as a student engineer in the Rainelle area of the Beckley district this summer. He credits his foreman and close friend, J. E. Vines, with not allowing "me to get out of condition while working for Appalachian this summer." A sophomore at the university, Leslie also helped the coach of Rupert High School with his team before trading his hard hat for a football helmet in September.

## Sporn Sportsmen Officers Plan Expansion



New officers of the Philip Sporn plant Sleepy Hollow Sportsman Club are shown above. They are from left: Donnal Duncan, director; John McDaniels, director; Bethel Vance, treasurer; Roy Cooke, vice president; Rome Williamson, president; Charles Hannum, director; Paul Fitzgerald, director; Karl Wiles, secretary; and Paul Schneider, director. Directors Marvin Roush and Freeman Roush were not present when the picture was taken. This group of officers met recently to plan expansion at the club lake, including a road, skeet range and picnic facilities.

## Youth Tells Of 4-H Club Work Before Supervisors

Herman L. Morris, Jr., may well be the youngest person to appear before the Lynchburg Monthly Supervisors' meeting.

The 15-year-old son of H. L. Morris, Lynchburg meter reader, was one of the 4-H club members who was named tops in the west central district at the Virginia 4-H Electrical Congress in Richmond. He appeared before the supervisors to outline his activities in 4-H work leading up to his awards. He won a 17-jewel gold watch for outstanding work in the State 4-H Farm and Home Electrical Program.

## Top TIPster

Ira Conn believes there's Treasure In Points in the Appalachian TIP campaign. The Williamson meter serviceman is one of the leading point-getters.

He has received for his points a complete set of Samsonite luggage, a waffle iron, sheets and pillow cases and a bicycle for his son. He also has another 9,000 merit points to be spent.

In past sales campaigns he has won a trip to a Lexington football game, a tour through Charleston plants and a Tennessee fishing trip. He has eight years of service with the company.

## Eagle Scout Ranks Go To Two Youths

Two sons of Pikeville employees have earned Eagle Scout ranks of the Boy Scouts of America.

Butch, son of Jarrett Wood, power sales engineer, and Bruce, son of Robert Weddle, distribution engineer, were accorded the honor in recent ceremonies. Both youths, 16 years old, have been active in Scouting and in high school. Butch has been a scout six years and Bruce five.

Butch is also a member of the Order of the Arrow, while Bruce is junior assistant Scoutmaster of Troop 10 in Pikeville.

## Williamson Names Bowling Officers



A banquet and election of officers officially opened the Williamson district bowling season recently. Elected to offices were from left: C. L. Miller, president; Kermit Epperly, vice president; H. A. Cross, treasurer; and W. R. Peyton, secretary.

## Baseball Benefit



Boys' baseball leagues around East Bank benefited when the circus came to town recently. A local production, the circus featured these six Cabin Creek plant employees. They are front row from the left: Jesse Brown, laboratory attendant; E. S. Kees, boiler maintenance man; and O. A. Hesson, maintenance foreman. Back row from left: C. B. Burner, personnel supervisor; W. H. Rader, boiler maintenance helper; and John Unrue, laborer. These employees were bareback riding beauties and clowns during the two-night performances.

## Sporn Golfers Lose Match

Beech Bottom power plant golfers defeated the Philip Sporn team in a recent links match at Parkersburg. Clarence Tennant, Bob Gilmore, Junie Gibbs and Cricket Searls made up the Sporn team.

## Straight Shooter



E. W. Meador, Bluefield division radio engineer, is shown with the trophies he won at the recent West Virginia State Shoot of the Amateur Trapshooters Association at White Sulphur Springs. Mr. Meador posted a total score of 179 out of a possible 200. He also won several awards in the shoot in 1954.



## Basic Principle Questioned In I & M Plant Site Dispute

Public Service Company of Indiana has petitioned the Securities and Exchange Commission to prevent Indiana & Michigan Electric Company from building a plant south of Terre Haute. The new plant, scheduled to house the world's largest generating unit with a capacity of 450,000 kilowatts, was announced August 29.

However, the Public Service Commission of Indiana has asked the SEC to dismiss the Public Service Company charge that the plans of I&M constitute an expansion beyond the permissible limits of the Public Utility Holding Company Act.

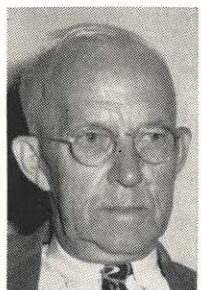
### Points Against Charge

The State Commission sent a resolution to the SEC that made the following points:

1. The "real issue" is the construction by I&M of a \$58-million plant and necessary 330,000 volt transmission lines to tie into the I&M system, in the service territory

## Welch Retired Vet Has Many Activities

Housewiring, painting, carpenter work, and activity in the stock market are just a few of Charles E. Caldwell's activities since his retirement.



Mr. Caldwell

Mr. Caldwell retired from Welch in 1952 after 34 years' service. Since retiring he has been doing all these things and others, like building his own house, gardening and fishing. The

house he helped build is in Salem, Va., where he now lives.

The stockmarket holds a particular fascination for Mr. Caldwell; the retired Jenkinjones station operator goes to Roanoke quite often, where he buys and sells stocks. His interest began 25 years ago and by asking questions he learned something about stocks. The rest came with experience, and today he supplements his income with dividends from stocks he studied for a long time before buying.

Another of Mr. Caldwell's activities, membership in the Masons for 35 years, keeps him busy too. He and his wife are both members of the Eastern Star.

## The Charge Made

In its petition, Public Service Company asked the SEC to determine whether the AGE System, of which I&M is a part, would "constitute an integrated public utility system" under the Holding Company Act if the plant and lines were built. The question was based on the fact that the I&M plant would be located outside the existing service territory of the AGE System, a fact which led the petitioner to charge that AGE would thus be in a position to expand and extend its territory "inimical and prejudicial" to the public interest.

of the Public Service Company.

2. The Indiana Commission feels that questions between two Indiana public utilities relating to their respective facilities and service areas are matters affecting only the state and within its jurisdiction.

3. Construction of the plant and lines, and development of coal resources to supply the plant, will "contribute substantially" to the economic and public welfare of the

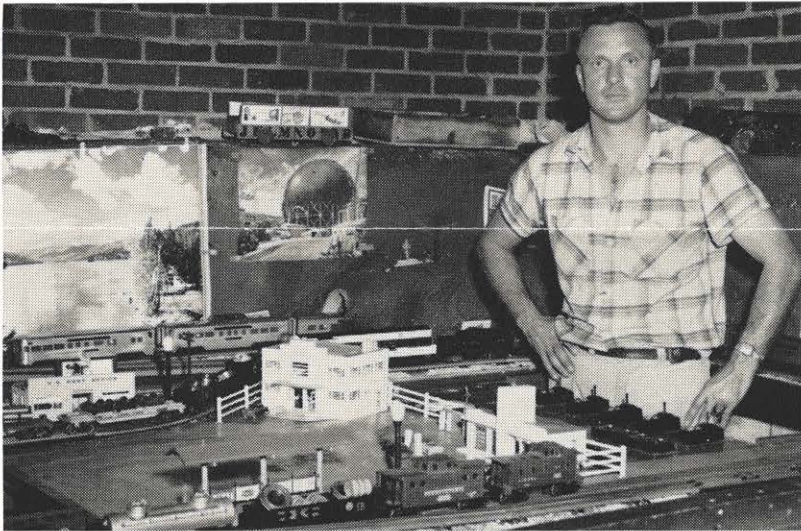
entire state and are in the "best interests" of the consumer, the investor, and the public in general.

### President Sporn's Statement

President Sporn in a statement said: "I am completely surprised at the news of this petition and I can see no justification for it. It seems to me to be based on a complete misinterpretation of the plans and the program being carried out by I&M. Specifically, this program does not involve or contemplate, either in the present or in the future, any expansion of the service area of I&M.

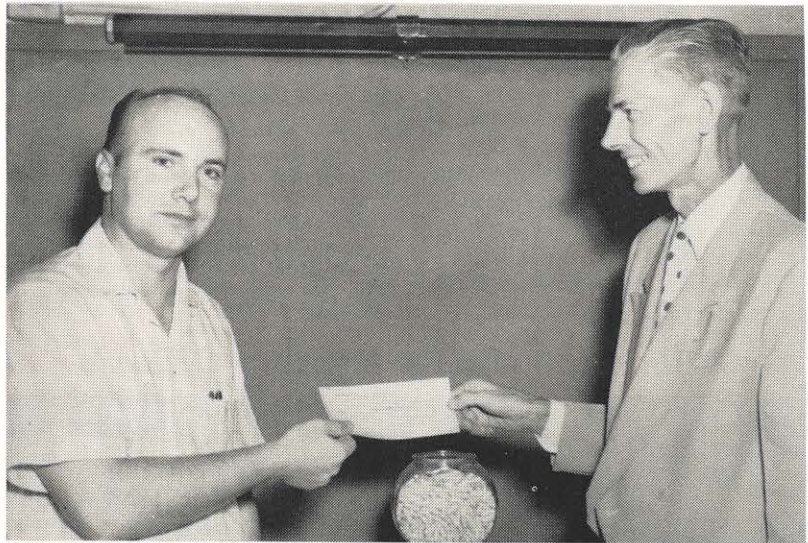
"Our primary job is to provide our customers and the area we serve with the most economical and efficient electric service possible. What we are doing here is no different from what we have done elsewhere on the AGE System and what has been done by all progressive utility organizations to accomplish this objective—develop a plant site having combined in it, in an optimum manner, the over-all factors of site location, particularly the availability of water for condensing purposes and an economical, long-term fuel supply. The location has been selected for the sole purpose of enabling us to take care of the continuing load growth in the I&M territory in the most efficient and economical manner."

## Been Working On Railroad Four Years



At the control panel of his extensive miniature railroad layout is Cecil Ball, Williamson district station operator. This picture shows half of the layout—at the other end is a small village, two tunnels and accessories. The layout is the result of four years of work. Mr. Ball and his late wife worked hard on the detailed construction of the railroad, using scrap pieces of screen wire, scrap metal, plywood and five Lionel trains with 250 feet of track and 400 feet of wire. The railroad has become the center of attraction for Mr. Ball's seven children and other neighborhood youngsters.

## First Safety Slogan Winner Gets Check



S. H. Martin at left receives a \$5 check from T. K. Shepherd for knowing Roanoke's first "Safety Slogan of the Month." Mr. Martin, Rocky Mount cashier-clerk, knew the slogan when T. A. Kirby, safety supervisor, called him recently. Mr. Shepherd, system personnel assistant, is chairman of the Roanoke office safety subject committee which sponsors the monthly contest. This is the way it works: names of all Roanoke area employees are placed in the fish bowl shown at bottom of picture. A safety bulletin will be sent out monthly for a year, each time carrying a safety slogan. Each month a name is drawn from the fish bowl and the employee's home called. If the person answering the phone can give the slogan, he will be awarded \$5. If there is no answer or an incorrect answer, calls will be made until the money is awarded. A personal call will be made to the home of the employee without a telephone.

## Sporn Plant Test Program Completed

The two-month summer test program at Philip Sporn plant by student engineers has been completed.

A banquet for the 12 undergraduates and C. Hardy Long, associate professor of mechanical engineering at VPI, was held when work was complete. Professor Long directed the tests, which included seven heat rate tests on Unit No. 3, eight boiler tests, two evaporator tests, two gland seal leak off tests and an auxiliary power study. The group also visited Philo plant and AGE offices at Columbus, O.

Objective of the program was to provide a type of summer employment for undergraduate engineering students, to interest them in seeking permanent employment with the company after graduation and to provide information and data on plant operation.

T. T. Frankenberg, AGE Service Corporation mechanical engineer, spoke on the importance of engineering at the banquet. Professor Long discussed the work done at the plant this summer.

## Cooking Big Meal In Few Minutes Is Feature Of Cool, Safe Electronic Oven



The newest thing in cooking, an electronic oven, was demonstrated recently by Ray Heldreth, left, and J. S. Dodd, both of the Bluefield district commercial department. This oven has been purchased by a Bluefield customer.

Bacon and eggs fried within seconds . . . cooking utensils cool to the touch while food is cooking . . . cooking by time and not by temperature.

Sounds impossible? Not when these operations are performed in an electronic oven, the newest appliance to make the housewife's lot an easier one. Two Bluefield employees recently demonstrated an electronic oven before the monthly supervisor's meeting, pointing out how food is cooked by radio energy which produces heat within the food, insuring cool, fast cooking and simplicity and safety of operation. Ray Heldreth, dealer sales representative, and J. S. Dodd, residential and rural sales supervisor, handled the demonstration.

An electronic oven was also part of Kingsport's display at the East Tennessee District Fair recently. Home economists Louise McAlpine and Clydetta Long and student home economist Evelyn Ireson helped with the demonstration.

The cooking method is cool because of the very nature of the microwave energy, which may be reflected by the oven lining, transmitted by the food container, or absorbed by the food itself. When these microwaves are absorbed heat is created, leaving everything, even down to the utensils, cool while the food is cooking.

Paper, glass and china transmit the microwaves and are ideal for electronic cooking. Metal or foil retard the cooking process and may even harm the high frequency magnetron unit in the range.

### Cooks Inside Out

The absorption of heat by the food itself sets up a molecular action within the food and causes it to cook

extremely fast. Bacon and eggs are one example—they take only a few seconds. A medium size potato will bake in four minutes, four potatoes take eight minutes and a six-pound beef roast is cooked to perfection in 30 minutes.

Sounds like the electronic oven would be a complicated appliance to operate. But actually it is easier than the present range because it has only two switches, one to turn it off and on and one to regulate the heat to high or low. Most foods are cooked on "high," except for large items, like a turkey or a roast.

Here's where automation takes over. After the cook has turned the oven on, there is a brief standby period. Then a light flashes on indicating the oven is ready to cook. A timer rings a bell and cuts off the microwaves when the food is cooked.

A browning unit has been installed in the oven since microwave doesn't brown the food as it cooks. Recipes must be followed to the letter in an electronic oven for best results. Cooking is done by time—different items cook different lengths of time—rather than by temperature, as in an electric range.

### Safety Featured

Safety, an important feature in any appliance, is a highlight of the electronic oven. The door must be closed and the timer switch turned on before the range begins to operate. When the door is opened the timer stops and the microwaves are turned off. And because the range lining and the cooking utensils remain cool throughout the cooking operation there's no danger of burned fingers.

With electronic cooking, tomorrow's kitchen has been brought a step closer to today.

## Beckley Gets New Meter Test Board



No other commodity is measured as accurately as electricity. And to further insure the truth in that statement Beckley is one of three locations which have gotten new meter testing boards in recent months. Metermen James A. Barker and R. R. Smith are shown testing meters while meter supervisor C. L. Honaker looks on. Actually Beckley got three new boards. One board tests thermal demand meters used on commercial customers and another tests meters used by large power customers. The third board tests residential meters. The residential meter is plugged into a socket on the test table. Its registration is compared with a standard watt-hour meter on the board which has been calibrated by the system meter department in Roanoke. The number of revolutions of the standard meter compared to the number of revolutions of the meter under test is the measure of accuracy. Photo electric equipment counts the revolutions. Logan and Charleston also have new meter test boards.