

People, like pins, are useless when they lose their heads.

The Illuminator

One good thing about silence is that it can't be repeated.

Vol. VIII, No. 6

KENTUCKY POWER COMPANY

APPALACHIAN ELECTRIC POWER COMPANY

KINGSPORT UTILITIES, INC.

March 1957

Over 60½-Million Slated To Be Spent On Construction In 1957 By Three Companies

Our three companies' 1957 construction budgets are above that of last year as rapid expansion of our facilities continues.

The total 1957 construction budget for the three companies exceeds 60½-million, as compared to \$41-million last year. Of this 1957 total, over \$56-million will be spent by Appalachian, over \$3,100,000 by Kentucky and over \$1,600,000 by Kingsport.

Appalachian's budget is \$14-million over last year. A major item in the 1957 budget, \$28,400,000, is allocated for the construction of the new 450,000 kw Clinch River plant. The two-unit plant is estimated to cost a total of \$55-million when it is completed in about two years.

Glen Lyn Share

An additional \$6-million is scheduled to be spent to complete the new 225,000 kw unit at Glen Lyn plant. The unit's total cost is estimated at over \$26-million and is expected to go into service by mid-year.

Appalachian will also spend about \$11,400,000 on additional distribution facilities in its area. This will cover cost of new distribution station and lines.

Another \$7,300,000 will be spent by Appalachian on high voltage transmission facilities. This includes the new lines which will be built from Clinch River plant and major transmission stations scheduled for building in various parts of the system.

In addition to these major items about \$3-million is scheduled to be

spent on various other projects during 1957.

Although not a part of Appalachian's construction budget, a new 450,000 kw generating unit will be built at Philip Sporn plant which is jointly owned by Appalachian and Ohio Power. The \$58-million unit will be 73% larger than any generating unit operating today. Construction is scheduled to begin in April.

Kentucky's Plans

Of the more than \$3,100,000 Kentucky plans to spend on construction during 1957, about \$1,800,000

will go to distribution line and station work. Another \$1,200,000 is planned for transmission line and station work. Included will be work on Kentucky's transmission facilities to be served from Clinch River plant.

Kentucky also plans to spend another \$24,000 on other projects during the year.

Kingsport Budget

Kingsport, in making a construction budget of over \$1,600,000, plans to spend \$850,000 on high voltage transmission projects. This will include continued work on the 132,000-volt double circuit transmission loop around Kingsport.

Another \$789,000 will go to distribution line and station work, including money for modernization of Kingsport's street lighting system. The company also plans to spend about \$19,000 on other projects during the year.

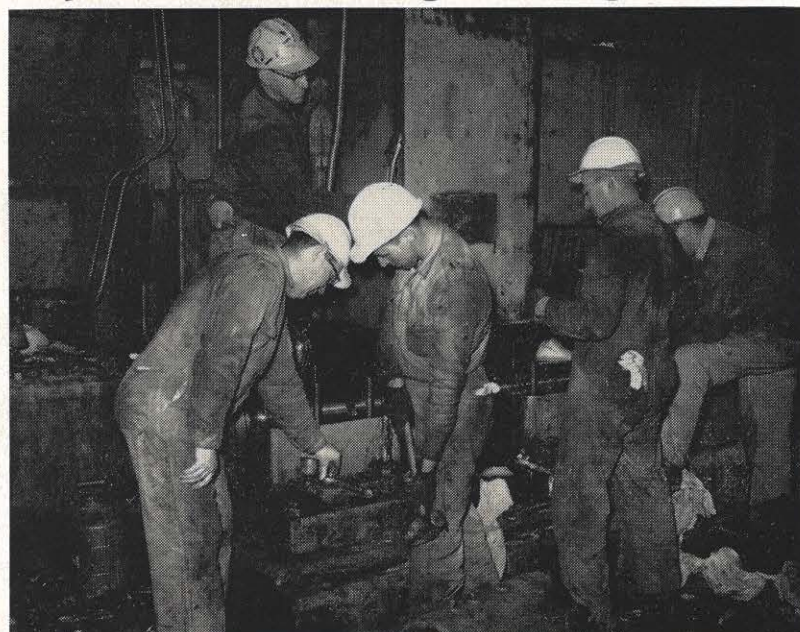
Record Budget Set For AGE

The largest construction budget in its 51 years has been slated for 1957 by the AGE Company System.

Over \$170-million will be spent during the year for plant, transmission, distribution and other construction on the System. This exceeds the previous high year of 1953 by over \$32-million.

The money spent this year is part of the \$700-million AGE has slated for construction during its five-year building program of 1956-60. This five-year program is the largest such effort ever undertaken by an electric utility company.

Repair Flood Damage At Logan Plant



Logan plant maintenance men and operators inspect a coal pulverizer for damage. Logan plant has been out of service during the past month as all employees have been working to repair flood damage. The plant is expected back on the line by March 11. From the left above are Elias Adams, D. F. Brumfield, W. J. Dingess, Dallas Hayner and Allie Stamper. See Page 6 for the story on Operation Clean-Up in Kentucky, West Virginia and Virginia.

'Detour' For Debris Is Being Built In River Near Kanawha River Plant

A "detour" is being built in the river near Kanawha River plant. Work has started on a new diversion wall which will deflect heavy submerged debris usually prevalent during high water stages.

The plant has had difficulty several times when logs, tires, silt and other matter clogged up the water intake. That's the reason for the diversion wall.

The "detour" will take about three

months to complete at an estimated cost of about \$110,000. The wall will consist of eight circular cells of sheet metal piling. Each cell will be filled with sand and gravel and capped with concrete.

Then sheet metal piling will connect the cells. These will be at various levels from four feet above to ten feet below normal river stage.

The diversion wall design originated from studies made of several models at Cornell University. Plant Manager H. C. Skaggs, Jr. and specialists of the AGE Service Corporation spent some time at Cornell during the study of the problem.

A two-mile stretch of the Kanawha River was set up in miniature at the university to find ways of keeping the debris out of the plant's water system. The study helped determine the size and location of the diversion wall.

AGE And OVEC Named Finalists For Coffin Award

American Gas and Electric Company is one of five electric utility companies nominated for the 1956 Charles A. Coffin Award—the industry's highest honor.

Also selected as one of the five finalists for the Coffin Award is the Ohio Valley Electric Corporation.

The review committee of the sponsoring Edison Electric Institute, in naming AGE as a finalist, cited the following reasons: "For pioneering advanced engineering concepts and electrical system design and for employee and management training and load-building programs. Specifically these include: (1) planning and installation of low cost and highly efficient generating facilities; (2) development, installation and satisfactory operation of the first 345,000 volt transmission system in the U.S.; (3) employee and management training programs resulting in over-all operating and financial results of the highest caliber; and (4) successful load-building programs, particularly in the field of heavy appliances and house heating and cooling."

In citing OVEC, the committee stated: "For accomplishing the monumental task of providing facilities for the largest single block of electricity in industrial history; for accomplishing this task substantially ahead of schedule in spite of its immensity; for the excellence of its engineering of the world's two most efficient steam-electric power plants with resultant savings to its customer, the Atomic Energy Commission; and for furnishing the evidence that investor-owned electric companies are capable of handling any job of power supply, no matter how large."

The other finalists for the 1956 award are: Cleveland Electric Illuminating Company, Consolidated Edison Company of New York, Inc., and the Idaho Power Company.

AGE was the winner of the 1953 Coffin Award, and OVEC was one of the five finalists in the 1955 competition.

Smith Mt. Dam Construction Starts In Year

Construction on Smith Mountain Dam is expected to start by Appalachian in the spring of 1958 and completion may be sometime in 1960.

This was announced by G. L. Furr, Appalachian vice president and general manager, in a recent talk before the annual meeting of the Roanoke River Basin Association in Gretna. Invited to speak to the group, Mr. Furr pointed out that "many factors are involved which may require some changes in these plans, but I am hopeful they will be met or improved."

The site of the estimated \$20-million dam in Pittsylvania and Bedford counties is about 40 miles downstream from Roanoke.

Mr. Furr referred to the preliminary permit issued the company in January by the Federal Power Commission. He said, "This preliminary permit is granted for the purpose of maintaining priority of application for license to construct the project. It was granted for a period of two years. However, we have every reason to believe that construction will be under way before the end of that time."

He then went on to list some of the work that has been done and other phases of the work that will take time to complete. There are 41 locations where water in the reservoir will affect existing roads and bridges. Proper disposition of these must be made.

An estimated total of 20,000 acres will be covered with water when the dam is filled. The company has ac-

counted for the ownership, location and assessed value of 431 parcels of land, involving more than 40,000 acres. Of course, only parts of these parcels will be required in the project. A total of more than 600 parcels will be affected.

Core drilling and underground in-

vestigation are now going on at the site to locate the most favorable place for the dam and to find the most suitable source of rock for the dam construction. Mr. Furr said it cannot be determined how much more must be done before final determination on the dam can be made.

1956 Plaques Awarded Our 3 Companies



Awards for sales efforts during 1956 have been received by our companies. LEFT: G. A. Weatheron, Kentucky general commercial manager, is shown being congratulated by F. M. Baker, Kentucky vice president and general manager, at right, for that company's award-winning efforts. The two are holding Philip Sporn Awards. RIGHT: Shown in New York are from left:

J. E. Wright, Kingsport vice president and general manager, with his company's Philip Sporn Award; Philip Sporn, president of AGE and of our companies; Harold Turner, AGE executive vice president of operations, holding Appalachian's Philip Sporn Award; and R. E. Hodges, assistant Appalachian general manager, with his company's Harold Turner Award.

Golden Anniversary Sales Campaign plaques have been received by our three companies for 1956 efforts, and quotas have been announced for 1957.

Working under the slogan "1957—the year to beat 1956", the AGE System Companies will compete in the Ten-Star Sales Campaign during

1957. The campaign itself is divided into two parts, residential sales and commercial-industrial sales. In turn, each of these is broken into five sections.

The plaques were given company representatives recently. Appalachian earned the Philip Sporn Award for first place in over-all residential sales

and the Harold Turner Award for residential resistance heating. Kentucky won the Philip Sporn Award for first place in over-all commercial-industrial sales, and the Philip Sporn Award for first in C-I Space Heating. Kingsport's first place finish in heat pumps earned that company the Philip Sporn Award.

The Illuminator

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Devotion To Duty

Suffering, misery and dejection are not pleasant to witness. The shock of the floods in our areas left many residents almost numb.

But after the shock of destruction wore off, people started looking around. Others had lost more, suffered more. They needed help. Those in the flood area set about to lend neighbors a hand with food, clothing, shelter. People outside the stricken area sent truckloads of items.

Relief agencies, both national and local, rushed aid. Military and civilian defense groups were on the job helping local government officials.

Now the clean-up operations are drawing to a close in many communities. Looking back on this time of trouble, our customers have not been unmindful of the devotion to duty by power company employees. Many grateful customers gave words of praise while others wrote letters of appreciation.

Although not seeking any special attention for their efforts, employees who helped must feel a little proud of this public appreciation. It shows how clearly the public recognized outstanding characteristics. Willingness to work long and hard under unpleasant conditions, cheerfulness in spite of strain, awareness of responsibility to the public and to one another—all these traits were evident.

The emergency and its aftermath again furnished dramatic proof that our companies are truly dedicated to serving the public. Such devotion to duty is in the best tradition of our companies as public utilities.

On Job When It Counts

That is the slogan this year of the American National Red Cross, now working in our areas recently devastated by floods. Southwestern Virginia, southern West Virginia and eastern Kentucky suffered heavily under the torrent of water that crushed homes, businesses and lives. But through the Red Cross the road to recovery is now opening.

This is American Red Cross month, when the organization holds its annual fund and membership drive. The drive hits home this year. An additional \$5-million has been included in the national fund appeal, to go directly into relief and rehabilitation of our friends, neighbors and fellow workers in the flood area. This \$5-million is in addition to the \$6-million earmarked for disaster relief which had already been announced as part of the fund drive goal for 1957-58. Rehabilitation is a long and costly

Your Opinion

IN THE SPOTLIGHT

What three applications of electricity in the home have meant the most to you and your family, and why?

JARRETT WOOD, Power Sales Engineer, Pikeville District



Early in the morning of Wednesday, January 30, the community of Pikeville lay crushed under the raging flood waters of the Levisa Fork of the Big Sandy River—53 feet with flood stage at 35 feet.

An estimated 90 per cent of our places of business and 80 per cent of our homes were completely or partially covered with silt-laden water. There was one thing which remained normal—one thing that the people could cling to in the swirling, deadly nightmare that spells flood. The electric light!

Throughout the night hundreds of beacons of a world that hadn't forgotten, shone until submerged—then as the water receded emerged still shining.

These 60-100-150 watt lamps unquestionably averted mass community panic as they provided rescue light and hope to countless hundreds trapped by the unprecedented flood water.

Light to save lives by—light to live by—light to hope by. To what greater use could electricity be put?

RICHARD L. McCOMAS, Time Clerk, Logan Plant



When one stops to ponder all of the wonderful, useful, helpful applications of electricity, it really puts you in a quandry as to which is the biggest blessing. My wife and I utilize everything electrical we can around the house. They are more efficient, cleaner, cheaper and much safer for the youngsters.

I know of nothing to be more thankful for than our wonderful lighting facilities of today. Not only do they save our eyes from undue strain, but make it possible for us to extend our recreational activities with family and friends.

The washer and dryer are the pride and joy of my wife. They save her endless work and worry, leaving her more leisure time.

process, but rehabilitation is the primary job of the Red Cross during a disaster. The money raised will be given flood victims in the form of grants, not loans, to put them back on their feet. Each person will receive on the basis of need, not on what he lost. This \$5-million must come from us, and from big-hearted Americans everywhere.

This year when you give to the American Red Cross, you will be able to see, more than ever, the good work your money does. Give to the American Red Cross—On The Job When It Counts.

We are agreed that our dryer is tops on the list. We believe most couples with two young children will agree. By the way, why isn't there a Benjamin Franklin Day?

PATTY PARKEY, Home Economist, Roanoke District

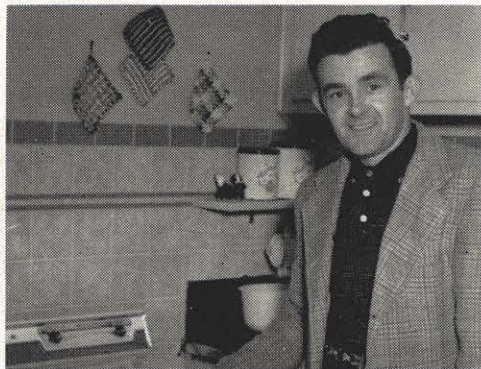


In considering the applications of electricity which mean the most to my husband and me, I often find it's the little things that sometimes give us the most enjoyment. For example, we really enjoy our clock-radio. It's quite nice to awaken to music rather than the loud, horrifying noise of an alarm clock.

I feel that our electric clothes dryer has meant the most to us as far as saving time and energy. It's wonderful to be able to do your laundry anytime you wish, and the ironing is cut in half or less.

Automatic cooking has been most helpful for us. Set the timer and coffee is made when you arise or food is ready to serve when you arrive home.

JESSE H. CARTER, Stores, Kingsport



In my opinion, it is most difficult to pinpoint any three electric appliances as being the most applicable in my home. It is difficult to visualize being deprived of any we possess.

First I suppose would be our automatic washer as it is used almost daily in our home with children. It takes so much less work for my wife and enables her to spend more time with our family and friends.

Second and third would be our range and water heater. These two are taken for granted in most homes but to me they are real work and time savers and it is unbelievable how you can realize so much at such low operating cost.

MRS. JUANITA L. CROUCH, Payroll Clerk, Bluefield Division



The three applications of electricity that have meant the most to my family of three include: lights, electric range and washer-dryer.

Proper lighting is of first and foremost importance, having all rooms well-lighted for reading, sewing, radio or television. Having steps that are properly lighted can eliminate dangerous hazards.

Cooking on an electric range is fast, clean and economical. Foods may be placed in the oven, timed and my dinner is well prepared and ready for serving when I return home in the evening. This is a great timesaver and convenient for the housewife who works.

Without a washer-dryer my little girl could not be kept so clean and sweet, and without electric lights my husband would miss the enjoyment of the newspaper and television. To me, these three applications of electricity are vital and important to my family.

MAXINE URWIN, Contract Clerk, Charleston District



It is difficult to select only three applications of electricity that mean a lot to my family, because there are so many. Since I work and keep house too, the time and work saved by my automatic washer and dryer rate highest with me.

Next, I would say the application of electricity in refrigeration is important. You can make one trip to the grocery a week and keep a variety of foods on hand at all times. With these appliances, I have more leisure time.

Electricity has made possible, too, the development of television, giving us so much enjoyment and pleasure. It's a wonderful feeling to load the washer, press a button and relax to enjoy a good play.

T. J. FLESHMAN, Truck Driver-Groundman, Logan District



1. We think our new electric heating system is best. The reason we like this is the even and consistent heat all over our home. One room is never too cold and another too warm. But they all remain at a moderate and comfortable temperature.

2. We consider our electric range one of the smartest purchases we have ever made. It is so fast cooking electrically. Also it is simple and convenient as well as clean. And most of all, it is economical.

3. Another nice improvement in our home is our electric water heater. We were always running short of hot water before, but now we always have enough for doing all the chores around our house.

Plans Announced

AGE One Of 12 Electric Companies In Proposed Nuclear Research Program

Twelve electric utility companies, including the American Gas and Electric Service Corporation, are formulating plans to undertake a program of nuclear reactor research and development.

The proposed plans of the group were announced February 19 in simultaneous letters to both the United States Atomic Energy Commission and the Joint Congressional Committee On Atomic Energy.

With the hope of making a significant advance in the technology and economics of utilizing nuclear fuel to produce commercial electric power, the group first proposes to intensify discussions with the AEC and manufacturers and make an evaluation to determine which of several reactor types, now under consideration, the group would develop. The evaluation will be completed in the next few months, at which time the group will formulate a proposal to the AEC, and ask the AEC to participate in the project and share its cost and benefits.

Steps In Program

The project would consist of carrying out the necessary preliminary research and then building a small prototype reactor having a heat output of about 50,000 kilowatts. This is equivalent to about 13,000 kw of electric power, although present plans do not include a turbine. The prototype would be completed no later than 1962. The over-all program, including the prototype, would

cost between \$15,000,000 and \$31,000,000, it is estimated.

Although the present plans are limited to research and the development and construction of the prototype, if these steps are carried out satisfactorily, the group then would undertake before 1962 the preparation of plans for the construction and operation of a full-scale reactor of up to 200,000 kw of electric power. Depending on the success of the program, this plant would be completed and placed in operation within the next seven to eight years.

Companies Participating

In addition to the AGE Service Corporation, the following companies are participating:

The Cleveland Electric Illuminating Company, Cleveland, Ohio; Columbus and Southern Ohio Electric Company, Columbus, Ohio; The Dayton Power and Light Company, Dayton, Ohio; Indianapolis Power & Light Company, Indianapolis, Indiana; Louisville Gas and Electric Company, Louisville, Kentucky; Monongahela Power Company, Fairmont, West Virginia; The Potomac Edison Company, Hagerstown, Maryland; West Penn Power Company, Greensburg, Pennsylvania, all three of the West Penn Electric System; Ohio Edison Company, Akron, Ohio; Pennsylvania Power Company, New Castle, Pennsylvania, both of the Ohio Edison System; and Southern Indiana Gas and Electric Company, Evansville, Indiana.

System Operating Employee Promoted

Benjamin Fink has been promoted to system operations statistician. He rises to the position from system operating analyst.



Mr. Fink

He joined the company April 21, 1930 in Bluefield division as a clerk. He transferred to the system operating department in February 1948 as a station operator and came to the Roanoke office in April 1949. He is a graduate of Beaver High School in Bluefield and attended West Virginia University. Mr. Fink is married.

New Beckley Officers



Heading the Beckley Electric Credit Union for 1957 are the employees pictured above. Front row from left: Vera Haynes, assistant secretary and treasurer; and R. E. Presley, vice president. Back row from left: H. F. Thomasson, president; and J. E. Hammer, secretary and treasurer.

Endorse Hoover Committee Proposals



M. C. Funk, Appalachian vice president and member of the Government Economy Committee of the National Association of Manufacturers, is shown third from left with other NAM industrialists in Washington. They were among those attending last month the 3rd National Reorganization Conference sponsored by the Citizens Committee for the Hoover Report. Shown with Mr. Funk from the left are: Henry E. Luhrs, president of the Beistle Company; Charles R. Hook, chairman of the board of Armco Steel Corporation, and Walter Harnischfeger, president of the Harnischfeger Corporation. Speakers at the two-day meeting were former President Hoover, Senator Harry Byrd of Virginia, P. F. Brundage, director of the Bureau of the Budget, and other leading advocates of economy in government. (Photo courtesy 'NAM News')

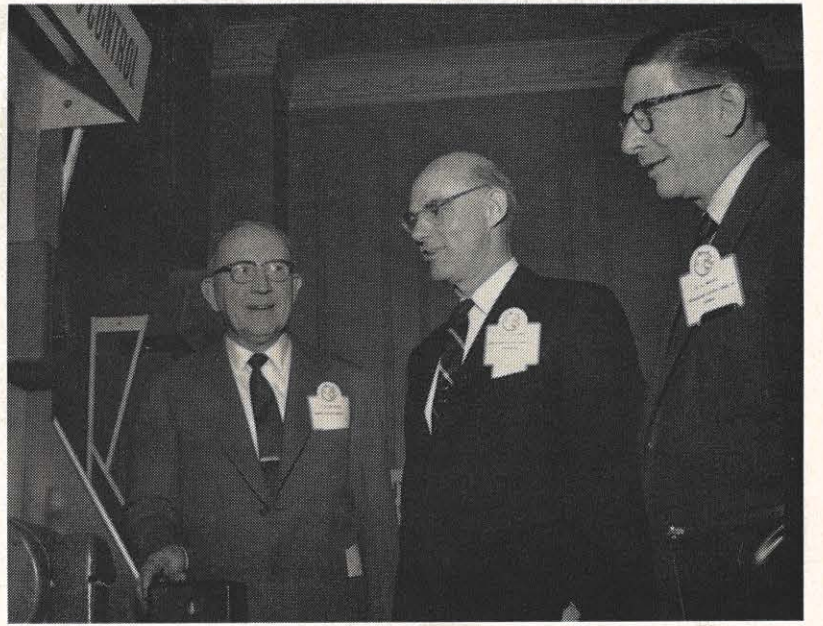
Industrial Productivity Forum Held

Over 200 industrial leaders from Kentucky, West Virginia and Ohio attended the all-day Industrial Productivity Forum February 7 in Huntington.

R. E. Hodges, Appalachian assistant general manager, delivered the keynote address, "Productivity: New Plateaus Ahead." Also speaking was P. W. Emler, AGE Service Corporation director of industrial sales. H. D. Stillman, Huntington division manager, was general chairman of the forum.

Designed to help industry meet today's production demands, the forum indicated the latest techniques, trends and developments in automated machinery and methods. It was co-sponsored by Appalachian, Kentucky Power, Ohio Power and General Electric.

While other speakers told how goals of increased productivity can be reached, Mr. Hodges in his keynote address told why we can reach these goals. He listed as "whys" these five factors: 1. A national habit to make improvements born of a tradition of work. 2. The desire to make a profit. 3. A growing population which has the wherewithal to buy the goods



Pausing before one of the exhibits at the Industrial Productivity Forum in Huntington are from left: F. W. McChesney, General Electric; Hugh D. Stillman, Huntington division manager and chairman of the forum; and R. E. Hodges, Appalachian assistant general manager and keynote speaker.

and services it wants, and which makes its demand known. 4. An increasing awareness of the need for planned research and technology, and a growing recognition for their fruits. 5. The continued impetus of a vigorous competition.

To explain the role of electric utilities in automation, Mr. Emler spoke on "What Your Power Company Is Doing." He described some of the problems involved in providing power for vastly enlarged and modernized manufacturing facilities, as well as how these were being success-

fully overcome by the power companies.

W. E. Irving Joins System Personnel

William E. Irving has joined Appalachian as system personnel assistant in Roanoke.



Mr. Irving

In his new job, which he began February 11, he will work with J. A. Mundy, system employee relations supervisor. Born at Endicott, N. Y., Mr. Irving is a graduate of Union Endicott High School. He has a BS degree in business administration from Harpur College, State University of New York and a Master's degree in industrial and labor relations from Cornell University.

Before joining Appalachian he was material control supervisor for the Kroehler Manufacturing Company in Charlotte, N. C. He was in the Army from 1945 to 1947.

Mr. Irving is married and attends St. Andrew's Catholic Church of Roanoke.

Williamson Officers



Shown after the annual meeting of the Williamson Employee's Federal Credit Union are the new officers. They are, front row from left: Virginia Stafford, clerk; and G. B. Trent, president; back row from left: H. W. Cerrato, treasurer; and H. S. Kiser, Jr., vice president. L. W. Justice was named to the board. The credit committee consists of Ernest Bevins, Hazel Farris and Jack Riddle. The supervisory committee includes Moir Nowlin, Alberta Shelton and Clyde Runyon. Going into its eighth year the credit union has 117 members and assets of \$29,094. A six per cent dividend on shares was voted to be paid.

Engineers Move Up In Charleston



Mr. Newman Mr. McGinnis

Two men have been promoted in Charleston district engineering.

Donald P. Newman, assistant district engineer, has been promoted to district engineer. He is succeeded by J. R. McGinnis, electrical engineer.

Mr. Newman joined the company in June 1939 after graduating from West Virginia University with a degree in electrical engineering. He was on military leave with the Navy from July 1942 to January 1946, rising to the rank of Lt. Commander.

In 1953 he became electrical engineer and in November 1956 he was promoted to assistant district engineer. Married, he has one son and one daughter.

Mr. McGinnis, new assistant district engineer, is also a Navy veteran. He graduated from West Virginia University with a degree in electrical engineering, and joined Appalachian as an engineer trainee in February 1951. In August of that year he became a junior district engineer and moved to electrical engineer in September 1953.

A member of the American Institute of Electrical Engineers, he is married and has a daughter.

AGE Director Named To EEI Nuclear Task Force

Harry A. Winne, an AGE director and retired vice president, General Electric Company, has been appointed to Edison Electric Institute's Technical Appraisal Task Force on Nuclear Power.

The objective of this group, organized last September, is to evaluate the various reactor types and recommend to EEI member companies which ones offer the greatest promise in the development of nuclear power. Philip Sporn, president of AGE and of our companies, also is a member of the Task Force.



Drill Carrier Corporation has announced that it will build a new industrial plant in Roanoke County to assemble drills used for heavy rock drilling. The plant near the GE Industry Control plant will have about 10,000 square feet of manufacturing space plus 2,000 square feet of office space. When in full production, the plant will employ about 25 people.

Construction has started on a 50-unit hotel and 15 cottages at Virginia Baptist Summer Assembly at Eagle's Eyrie in the Lynchburg district. Completion is expected by June.

Construction on Pulaski's new \$225,000 courthouse building got underway recently.

The new branch bank on Melrose Avenue in Roanoke of the Colonial-American National Bank has been opened. The modern building with a heat pump is the second branch to be opened by Colonial-American in Roanoke.

The Huntington Water Corporation has announced a \$250,000 expansion project involving the construction of two 2.4 million gallon filters and settling basins adjacent to their pumping plant.

A 400 kva transformer vault has been placed in service at Lynchburg's new \$1,200,000 water filtration plant. The plant is part of the city's \$1,492,000 water expansion program. The new plant's capacity of 7 million gallons of water daily will almost double the city's present capacity.

The C&P Telephone Company has announced that the Huntington Metropolitan Area telephone system will go into operation on July 21, representing the completion of a \$3-million improvement program.

Ortho-Vent Shoe Company recently opened its new shoe distribution plant on US 460 between Roanoke and Salem.

Operation Clean-Up Follows Floods In Tri-State Area

Operation Clean-Up is following the recent floods along the bordering triangle of Kentucky, West Virginia and Virginia. But wrecked homes, mud and muck show the severity of the January 29-30 floods.

Thirteen were dead in the tri-state area after the worst flood in the area's history. Thousands were left homeless.

A total of 23 counties in the three states were designated as "disaster areas." Damages ran into millions and millions of dollars.

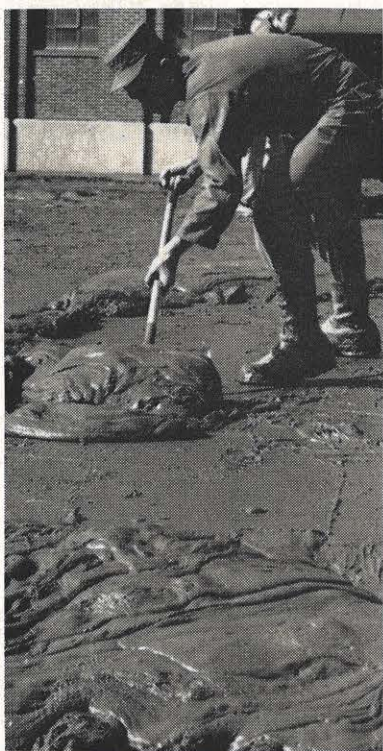
Food, water, medical supplies, clothing and thousands of other items were sent into the stricken areas by relief agencies and neighboring communities. Men and material from our three companies were rushed into the area to repair damaged electrical facilities. Ohio Power and Indiana & Michigan also sent equipment that aided in the speedy restoration of service.

Most of the work on electrical facilities has been pushed to completion, but clean-up operations and repairs of some damaged equipment will take weeks. Helping restore service and making repairs were 60 employees of the system station department. System transmission line department at Bluefield had nine men working to restore service at Hazard station. System meter also helped in Kentucky. Crews from the Bluefield and Charleston divisions along with crews from Kingsport, Ashland and Huntington helped during the emergency.

Hazard Troubles

Hard-hit Hazard was left without any utilities after the January 29 flood. The substation was flooded that afternoon and service was restored the next night. Two new breakers from I&M were installed at the station. The 132/33 kv railway mobile unit is in service. Shipped by special routing from Glen Lyn, the mobile unit was installed by members of the system T&D department and Hazard employees in less than 24 hours—record time.

Also flooded were the lower parts of Hazard plant where 50 motors were damaged. About 1,100 meters in the Hazard district were covered by flood waters. Meters were repaired with help from Ashland and



Shoveling out the mud was one of the first jobs to be tackled after the floods. This Pikeville scene was repeated thousands of times. (Photo Courtesy Huntington Herald-Dispatch)

the mobile lab from Charleston. About 25 employees' homes were damaged. Some poles were washed out and distribution transformers damaged.

Pikeville Damage

Five substations in the Pikeville district were flooded to varying degrees, but there was only one case of transmission line trouble for a short time. About 2,800 meters were under water in the district. They have been replaced with new meters.

Distribution system losses included 26 river crossings, 21 of which were replaced. The other five were not replaced because the houses were washed away or damaged beyond repair. Thirty-one damaged transformers were replaced.

A drying oven was built in the Pikeville garage. Appliances in stock were reconditioned where possible. Five cars had to get a complete overhaul while 29 others were reconditioned. Strip heaters are being used in the Pikeville office since the heat pump in the basement was damaged.

Logan and Williamson

Logan and Williamson were hard hit. Logan plant went out of service as record flood water filled the basement. Employees have been working to get the plant back in service by March 11. About 80 motors were submerged.

Over 300 meters in Logan district were under water. Nine employees' homes were damaged. The retaining wall at the service building caved in and street lighting poles along the flooded boulevard were seriously undermined.

Two Logan meter employees, Richard Kuhn and Holmes Cassady, had more than their share of flood trouble. Trying to rescue a man from his house, a difficult enough task, they found the man unwilling to leave. He was intoxicated. A rope and inner tube had to be used to bring him to safety.

Williamson streets were under water which reached to the second floors of some buildings. Sprigg station was damaged with some 22 motors under water.

About 500 meters in Williamson district were under water. The garage and substation shop were completely flooded. However, no major circuits were lost.

The UMW Hospital with 70 patients was damaged extensively as

water flooded out electrical facilities in the basement. E. E. King, Ernest Bailey and Kermit Epperly took material by boat to the hospital while Lat Bevins, J. B. Harris, Bobby Pinson and L. H. Cather walked over the mountain. Temporary power cables then were strung by the crew from the hospital's remaining transformers.

Bluefield Division

Bluefield division at one time had about 3,500 customers out of service. Most damage was along the state line. Towns suffering extensive damage included Grundy, Pound, Haysi, Bland, Welch, Richlands and Bluefield, Virginia.

At Bland a flash flood, caused by a private dam giving way, knocked out service to three-fourths of the county for about three hours. The break of the dam caught E. V. Dunn, area serviceman, in the path of the water. He had to climb atop the power wagon that was almost submerged. His lineman son, Jack, was caught up a pole when the wall of water swept down the creek bed.

Although Princeton station had water up 4½ feet on the transformer, service was kept by by-passing the station. Meters and a few poles were the main damage items



Clyde E. Wysor, meter serviceman, disconnects service to a church ahead of the rising flood waters in Bluefield, Virginia. This and other preventive measures were undertaken throughout the area in the short time before the floods.

Lights Kept Burning Says Grateful Man

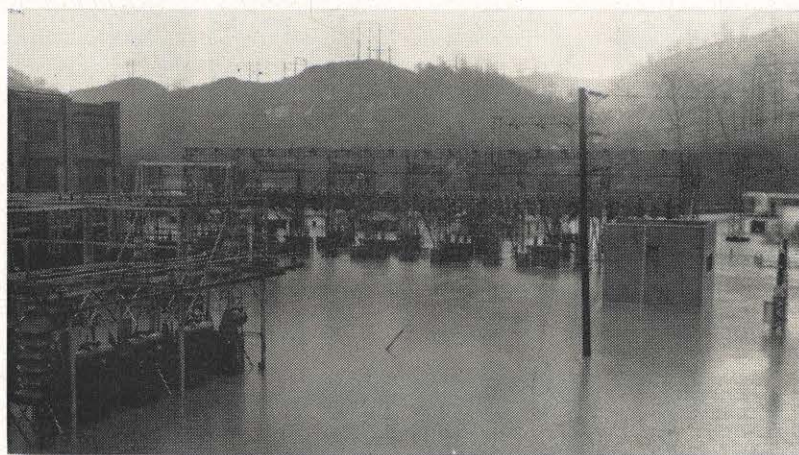
(Editor's Note: The following appeared on the editorial page of the *Louisville Courier-Journal* of February 6.)

The people of Eastern Kentucky that were momentarily stunned at the magnitude of the recent flood disaster are all to be commended as they are rolling up their sleeves and diving into the mud and cleaning up the debris. They are beginning to rebuild their homes, shops and industrial installations.

Among the many fine groups who deserve special mention are the people of Kentucky Power Company. Although many of them suffered great personal damages to their homes, by some miracle that can only be explained by hard work under hardships and long hours they managed to keep the magic lamps burning.

I know that the moral value of being able to turn on a lamp seems to erase the darkness of this disaster. When I realize the vast complete nature of their installation, I can only say I don't see how you did it—but I am glad you did.

A. E. Hayes
Hi Hat, Ky.
(Pikeville District)



This shows part of the Hazard switchyard at 2 p.m. on January 29. The water continued to rise until the transformers were completely submerged.



Boats were the only means of getting around in hard-hit communities like Welch which was suffering under its worst flood since 1912. That is the Welch hospital in the background. (Photo Courtesy Welch Daily News)

in Bluefield district.

Pulaski's 88 kv station was flooded but crews kept water out of the control building. Damage was minor and service was not interrupted.

Flood damage to Welch was extensive but only a part of the town lost electric service. Damaged meters on buildings on McDowell Street had to be replaced. Some washed out poles were replaced.

Grundy in the Welch district was cut off by high waters. The store-room was damaged and equipment in the basement washed away. Twenty poles above the previous high water line washed away. A three-hour interruption in Grundy was caused by the line from the station going out. Water entered the Grundy office.

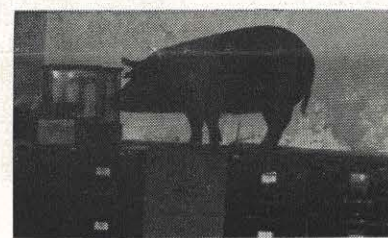
Plant Site Flooded

The Clinch River plant site was flooded. Damage to the plant construction has been loss of time and loss of access bridges to the site. A swinging bridge has been built for workers who have been cleaning out mud from the holes dug for the foundation.

Earle Snodgrass, supervising engineer, said the flood had a bright side. He pointed out that this worst flood in the history of the Clinch River would be of value in final plant design. Certain elevations and layouts are being revised to avoid costly damages that might have come from another such flood.

And so the work continues on

Operation Clean-Up. As far as the public was concerned, electric service was speedily returned to normal. Other than employees, few had any idea of the amount of work yet to be completed by the power company after the emergency. The lights were back on, the clean-up begun.



Left high but not quite dry was this pig that floated in with the flood at the Lothair station foreman's office. The pig was stranded atop the filing cabinets when the water went down.



Williamson employees responded to the needs of flood victims. This type scene was typical throughout the area. Gathering food and clothing which was turned over to the Salvation Army were, from the left, George Hairston, Mrs. Alberta Shelton and Jay Runyon.



H. M. "Slim" Bailey, Charleston district lineman, gets a typhoid shot from Dr. R. B. Price after returning to Charleston from the Pikeville flood area. He and other Charleston crew members who helped were given the first in a series of three shots in Pikeville.

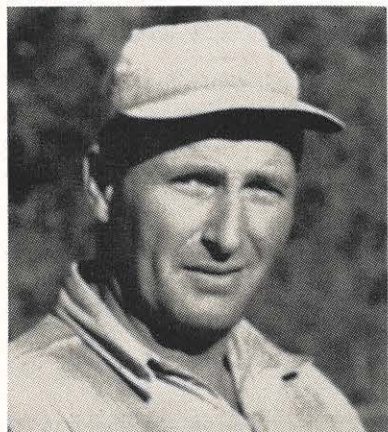
System Hitchhiker Speeds To Hazard

E. C. "Dutch" Rankin, system substation department, did some fancy "hitchhiking" to get to the Hazard flood on January 30. He was able to get a ride from the Roanoke airport on an Army helicopter destined for London, Kentucky. He got aboard just as the big blades started to spin.

He arrived in London at 3 p.m. and was promised a ride to Hazard by a small helicopter belonging to the Kentucky State Safety Director. Then the weather closed in. He next learned that an Army convoy had gotten through to Hazard and noticed two cars loading up. Someone said it was Governor Chandler's official party.

Dutch walked up to the Governor, told him who he was and asked for a ride. He got it. They arrived in Hazard at dark. Dutch thanked the Governor who replied: "That's O.K. Let's get that power back on." And they did.

Pikeville Lineman Is Electrocuted



Mr. Williamson

Hylton Williamson, 44, Pikeville district lineman, was electrocuted February 2 while on a pole repairing a distribution line torn down by the recent flood.

A native of Pike County, he was born April 5, 1912 on John's Creek near Meta. He was employed as a laborer October 10, 1939 following a short time with the Atlantic Seaboard Company. He was promoted to lineman September 1, 1943 and moved up to lineman A November 1, 1947.

He had spent his entire 17 years in the T&D department at Pikeville and had never lost a day because of injury.

He attended the Baptist Church at Meta and was active in school and community affairs. He is survived by his wife, four children, one brother and one sister.

Funeral services were held at the Meta Baptist Church and burial was in the family cemetery on John's Creek.

Welch Employee To Lead Rotary Club

Richard J. Wood has been elected president of the Welch Rotary Club. He is assistant Welch district manager.

A member of the club for three years, he rises to the new position from vice president. He has also been on the board and served as program chairman for two years.

Mr. Wood was employed by the company June 8, 1938 as a groundman in the Pulaski district and transferred to Bluefield May 1, 1941 as a carrier current engineer. He went to Welch as power sales engineer August 1, 1951 and has also served as district commercial manager. He became assistant district manager February 1, 1954.

He was chairman of the United Appeal last year and is an active member of the First Presbyterian Church. He is married and has a son and a daughter.



Mr. Wood

Familiar Faces IN NEW PLACES

Appalachian Electric Power Company

Bluefield District

WILLIAM A. PERDUE from junior contract clerk to axman.

Charleston District

VERNON COSTELLO from draftsman, senior, to engineering aide; ELLEN McCLUNG from clerk-typist to clerk-stenographer, T&D record; HAROLD MONK from groundman to meter service helper; CLAYTON STARCHER from meter service helper to meterman C.

Huntington District

BYRON W. HUNT, JR., from senior general clerk to utility clerk; WILLIE M. HUNT from prepare clerk to head prepare clerk; PHYLLIS P. REEDER from senior contract entry and final bill clerk to senior general clerk; W. E. SANSFIELD from meterman C to meterman B; C. J. WOODS from meter service helper to meterman C.

Kanawha River Plant

D. A. MATHEWS from test engineer, Kanawha River Plant, to power sales engineer, Charleston.

Logan Plant

W. E. FORTUNE from instrument maintenance mechanic B to instrument maintenance mechanic A.

Lynchburg District

K. R. HIGGINBOTHAM from lineman C to lineman B; W. B. SPENCER from hydro maintenance helper to assistant hydro operator B; D. J. THOMPSON, JR., from engineering aide to area sales representative.

Roanoke District

R. H. CALDWELL from Roanoke district junior T&D clerk to system utility helper, system operating; G. O. GIVENS from local accounting office messenger to junior clerk, T&D engineering; R. E. SLAYDON from engineering aide to area sales representative.

Philip Sporn Plant

RICHARD G. ASH from helper to junior maintenance man; LEO C. HILL from helper to junior maintenance man; JOHN T. REITMORE from maintenance man to master maintenance man.

Williamson District

MARY L. KESSINGER from home economist to senior home economist.

Kentucky Power Company

Ashland District

WILLIAM T. McKINNEY from lineman C to lineman B.

Kingsport Utilities, Inc.

TIPTON HATCHER from groundman to junior T&D clerk; JAMES W. JOHNSON from lineman B to lineman A.

Two Named To AGE Service Corp. Board

Lee L. Davis, area development manager of the AGE Service Corporation, and William S. Welday, Eastern division manager of Ohio Power, have been elected to the board of directors of the AGE Service Corporation.

Mr. Davis, who heads the area development program for the AGE System, has been a member of the Service Corporation since 1939. Mr. Welday, who is a veteran of more than 27 years' service with Ohio Power, succeeds D. M. Conn, manager of Ohio Power's Western division.

Radio Aids Victims In Point Pleasant

The two-way radio on our company vehicles has proved its worth once again. This time J. R. Pugh, Point Pleasant meter serviceman, made use of it to aid victims of an auto accident.

Mr. Pugh was going to Ravenswood about noon one day recently when he came upon a truck-car accident about two minutes after it happened.

There were no telephones in the vicinity so Mr. Pugh used his radio to call J. L. Twitty, meter superintendent, and ask him to contact Kaiser plant so they could send their ambulance and fire truck to the scene. The car was on fire and both occupants had been killed.

The truck driver was injured and needed immediate attention. Another call was placed to the West Virginia State Police and State Road Commission. Because Mr. Pugh acted promptly an ambulance was on the scene shortly.



Mr. Pugh

House Raising Revived As Sporn Employees Prove Good Neighbors



TOP: Gail Buck stands in front of his new house, which several Sporn plant employees helped him build. BOTTOM: These men spent a Saturday working on the prefabricated house, reviving the old house raising custom. They are from left: Lou Karschnik, Harlan Wehrung, Bob Parsons, Marvin Roush, Mr. Buck, Gail Buck and Raymond Smith.

The old-fashioned custom of house raising was revived recently by members of Philip Sporn plant's D shift.

Gail P. Buck, electrical maintenance man, had ordered a prefabricated home. One day he wondered out loud if he would have time to construct it as he had planned to do all the work himself.

He was overheard by the D shift workers, and they decided to help out. So at 8 o'clock one Saturday morning they gathered at the site of the house with their tools and started working. By 6 that night the house was up. All that was left were finishing touches and landscaping.

Mrs. Buck made the house raising

complete when she served a picnic lunch at noon. Other employees had helped Gail get the site ready for the house. James Gibson had brought his tractor over and helped dig the basement, while Bob Daily helped unload the material for the house.

Clarence Jordan had helped with the joists and subflooring.

The house is all-electric, with cable ray heating. It has five rooms and a bath, a full basement and plans for a carport on one side. Mr. and Mrs. Buck have a young son and daughter, and all four are looking forward to moving in.

And you can almost bet that the first guests will be members of Sporn plant's D shift.

Four Money And Time-Saving Ideas Outlined By Employees In AGE 'Notes'

A third of the articles appearing in the February issue of AGE's *Monthly Operating Notes* were written by Appalachian and Kentucky employees.

Gene Moore, Ashland general foreman, described a system for keeping track of tools in "Tool Losses Can Be Prevented." He tells how a line truck carries 343 tools used in normal maintenance and construction. To prevent loss of these tools, which sometimes happens when one person is responsible for their whereabouts, Mr. Moore divided the truck into five sections. An employee is in charge of each section, making sure at the end of each job that all tools belonging in his section are in their proper place. He also makes sure they are in good repair. The results? Only one tool has been lost in the last seven years.

"Operation And Training Improved By 'Operating Orders'" was written by T. W. Abolin, Kanawha River assistant plant manager. He describes a booklet handed out to all operators which informs them when, how and by whom the many routine operational checks are to be performed. The booklet has proved successful in making operation consistent on all shifts and also in training new operators. When a change in procedure is warranted, a new sheet is sent out to be inserted in the booklet.

J. J. Armstrong, system operating supervisor, was the author of "Weather Shield For 'Hold Cards'". He describes a plastic shield to pro-



Mr. Moore

Mr. Abolin

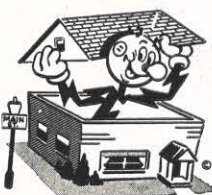


Mr. Armstrong

Mr. Carpenter

tect from weather "hold" cards used on the operating handles of outdoor switches involved in deadline clearance.

"3-Bolt Clamp Mounting For Transformers" was written by R. L. Carpenter, Williamson district groundman. The article tells how two 3-bolt clamps are used to mount small line transformers on poles, using hanger-conversion straps. Besides being cheaper than the brackets customarily used, the bolts save stocking a special item, and are normally carried in truck stock and readily available.



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	140	792	932
Kentucky	17	53	70
Kingsport	22	1576	1598
Total	179	2421	2600

Abingdon Veteran Employee Retires



Mr. Coley

I. G. Coley, Abingdon district area sales representative, retired February 1 after 20 years with the company.

Mr. Coley was employed January 11, 1937 by Kingsport and transferred to Appalachian as local superintendent in Scott County in 1942. In 1948 Scott County became part of the Abingdon district and he was named rural sales representative. In 1954 he was promoted to area sales representative.

Mr. Coley lives at Gate City with his wife and granddaughter. He is active in political and civic life.

Employees honored Mr. Coley with a dinner and gave him luggage as a present.

Record Total Of 97 Will Vie For Education Awards

A record total of 97 sons and daughters of AGE System employees entered competition for this year's eight \$500 AGE Education Awards.

All entrants will take the standard College Entrance Board Scholastic Aptitude Test on Saturday, March 16. Results will aid in the selection of the 1957 winners.

Ohio Power, with 37 boys and girls, led the AGE System companies in total entries. Appalachian and I&M tied for second with 23 each. The number of entries from other AGE System companies are: AGE Service Corporation, 8; Kentucky and Kingsport, 2 each and one each from Central Operating (Philip Sporn plant) and Beech Bottom Power (Windsor plant).

Awards will go to the two top-ranking entrants from each of the three major operating companies, Appalachian, I&M and Ohio Power. An award will be given to the top-ranked entrant from the AGE Service Corporation and to the winner among entrants from Kentucky, Kingsport, Central Operating, Beech Bottom and Wheeling Electric.

Last year 73 sons and daughters entered the competition for five awards. Winners of this year's awards will be announced around May 1.



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

Wide Open: Of the 50 or more electric appliances on the market, only three (radio, refrigerator and the iron) are in 90 per cent of wired homes. Only six others (clock, washer, TV, toaster, vacuum cleaner and shaver) are in 50 per cent. To be truthful, the appliance market hasn't been more than scratched.

Growing Pains: Electric companies will have to raise about \$2-billion from new securities to finance this year's \$2.8-billion expansion program.

Fabulous '56: Last year was another good one for the electric utility industry. Here are the increases over 1955: Assets from \$31.08-billion to \$33.34-billion; customers from 52,558,601 to 54,000,000; energy sales from 480,921,000,000 to 529-trillion kw/hr; revenues from \$8,020,439,000 to \$8,720,000,000; average residential use from 2,751 to 2,980 kw/hr; capacity from 114,472,000 to 120,250,000 kw.

Civilization Advances: Of the 59 nuclear reactor units under construction or under contract in this country, 29 are power-type reactors. Of these reactors 14 are for naval vessels, six are for land-based non-federal demonstration installations, four are AEC units, four are for export and one is for propulsion of a merchant vessel.

Gold For Old Gold: A new factory of P. Lorillard Co. at Greensboro, N. C., can produce 100-million cigarettes in an eight-hour shift. The tobacco moves from the hogshead through the manufacturing process to the finished package without being touched by human hands.

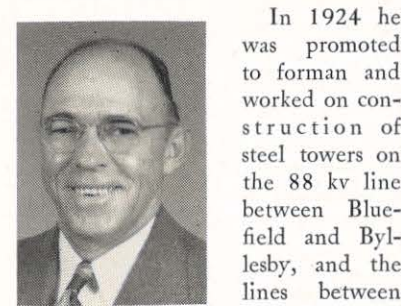
High Efficiency: The industry's coal rate is 0.94 lb. per kw/hr, lowest in history.

Historic First: The street light arc was first demonstrated in the United States at Newark, N. J. in 1877.

Marion Vet Receives Seven-Diamond Pin

J. S. Sutphin has completed 35 years with the company. He is Marion area supervisor of the Pulaski district.

Mr. Sutphin joined the company in 1922 as a groundman on maintenance of 88 kv wood pole lines. He helped replace the old wood pole line between Bluefield and Switchback with steel towers.



Mr. Sutphin

In 1924 he was promoted to foreman and worked on construction of steel towers on the 88 kv line between Bluefield and Byllesby, and the lines between Byllesby and Pulaski. In November 1925 all high line construction was placed under the supervision of E. A. Turner in Roanoke and Mr. Sutphin remained as foreman, working in all four of our states.

In 1931 he came to Pulaski with the extra gang, building distribution lines, and in 1935 took charge of this gang. In 1938 he became line foreman at Marion. Upon the retirement of W. S. "Uncle Bill" Johnson in 1947, Mr. Sutphin became area supervisor.

Mr. Sutphin is a deacon in the Baptist Church, married, and a member of the Marion Lions Club.

Meeting A Need

First Aid Is Hobby Of Roanoker Who Spends Much Time Instructing Others



Gordon Brown checks the progress of three student nurses in one of his first aid classes at Roanoke Memorial Hospital. The nurses are, from left: Anne Eanes, Norma Kelly and Bettie Stubbs.

Gordon Brown is a man who believes in the value of first aid training.

And the Roanoke meter serviceman has been increasingly active in first aid work since 1932 when he was employed as a first aid attendant and instructor for a CCC Camp. Today he is teaching a succession of first aid classes to student nurses at Roanoke Memorial Hospital. The students must have the course before they can get state nurses certificates, and Gordon has already taught two classes of 35 each and has scheduled a third for April.

The CCC Camp work was just a start—from 1936 to 1938 he was water safety instructor at Douthat

State Park. From 1933 to 1942 he was a member of the Salem Life Saving and First Aid Crew and is now a member of the Williamson Road Life Saving Crew in Roanoke.

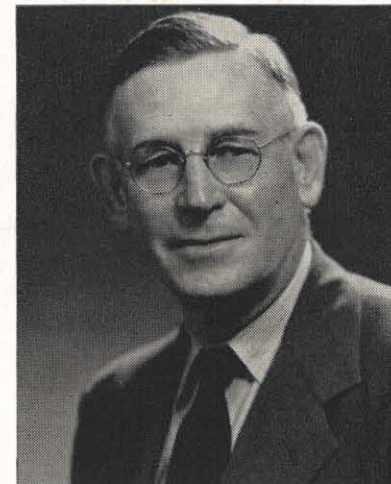
He became an American Red Cross First Aid instructor in 1936 and, except for two stints in the Armed Services, has been teaching continually. But his lifesaving and training didn't stop when he entered service. He served in the Medical Corps in the Pacific Theatre in World War II from 1943 to 1946 and in Korea from 1950 to 1952.

His battalion executive officer in Korea was R. A. Armistead, Roanoke district line and station supervisor. Also in the same battalion were H. E. Guilliams, meter serviceman, and C. L. Fulp, system accounting general bookkeeper.

In his work with the lifesaving crew he is spending every Tuesday night administering polio vaccine shots to the public. He has taught six employee first aid classes and 20 first aid classes all together.

While all this would be work to most, Mr. Brown looks on it as a hobby. He feels everyone should be qualified to administer first aid because one never knows when he might have an opportunity to save a life using this knowledge.

Pulaski Vet Has 40 Years' Service



Mr. Ryan

Thomas Ryan, assistant Pulaski district manager, completed 40 years with the company February 19.

He first came to work for the Appalachian Power Company as an operator at the West Gurdon station near Pocahontas in 1913. He stayed there until 1916 when he left the company.

In February 1917 he returned to Appalachian as substation operator at Jenkinjones and later was transferred to Switchback, where he became substation foreman. In 1923 he transferred to the Bluefield construction department working on substation construction.

From 1925 to 1927 he was construction foreman at Glen Lyn, supervising installation of the first 132 kv station equipment for the plant. In 1927 he became inspector and in 1931 was moved to Byllesby as plant superintendent of both the Byllesby and Buck hydros. He became Pulaski distribution superintendent in 1937, district superintendent in 1944 and assistant district manager in 1947.

Mr. Ryan is married and a member of the Masonic Lodge. He and his wife are members of the Christian Church.

Huntington Service Club Names Officers

J. Maxey Scites has been elected president of the Huntington division Employees Service Club.

Re-elected to offices were L. A. Meador, vice president; R. T. Hibner, treasurer; Laura E. Gouldman, secretary; C. E. Hoschar, Jr., general service; all of Huntington, and M. R. Atkinson, local office, and J. A. Kovich, service building, of Logan.

Newly elected directors and the areas they represent are Vernon Gal- loway, station and Kenova; Roy E. Preston, line; Virginia Stark, office building; R. D. Booker, Logan plant.

At the annual meeting a drawing was held and prizes awarded to Frank Lake, turkey; J. W. Evans, ham, Jennings Jarrell, W. A. Joseph and K. R. Kerns, box of candy each; and G. W. Akers, fruit cake.

D. Floyd Johnson resigned as director after many years' service. He retired from the company recently, and at the Club meeting was presented with a gift certificate in appreciation of his service.

AGE CORNER

(EDITOR'S NOTE: This is another in a series of facts and figures about the American Gas and Electric Company System.)

AGE System

Electric Generating Station Net Capability

(Key: A—Appalachian; I—Indiana & Michigan; O—Ohio Power)

Major Steam Stations	KW Capability
Kanawha River (A)—Glasgow, W. Va.....	430,000
Cabin Creek (A)—Cabin Creek, W. Va.....	315,000
Glen Lyn (A)—Glen Lyn, Va.....	170,000a
Logan (A)—Logan, W. Va.....	88,000
Philip Sporn (A-O)—Graham Sta., W. Va.....	600,000b
Tanners Creek (I)—Lawrenceburg, Ind.....	525,000
Twin Branch (I)—Mishawaka, Ind.....	390,000
Muskingum River (O)—Beverly, O.....	430,000c
Philo (O)—Philo, O.....	390,000d
Tidd (O)—Brilliant, O.....	220,000
Windsor (O)—Power, W. Va.....	150,000e
Total	3,708,000
Small Steam Stations	
Five miscellaneous (including one internal combustion).....	103,000
Total steam.....	3,811,000
Hydro Stations	
Claytor (A)—Radford, Va.....	75,000
Sixteen miscellaneous.....	87,000
Total hydro	162,000
Total steam and hydro.....	3,973,000
Other	
Firm from Philpott Hydro (Va.)—U.S. Govt.....	12,000
AGE System portion of OVEC capability in access of AEC requirements.....	39,000
Total	51,000
TOTAL NET CAPABILITY.....	4,024,000

New Plants Under Construction

- Clinch River Plant (A)—Carbo, Va.—to be completed in 1958 with capability of 450,000 kw.
- Breed Plant (I)—Sullivan County, Ind.—to be completed in 1959 with capability of 450,000 kw.
- Kammer Plant (O)—Captina, W. Va.—to be completed in 1958 with capability of 675,000 kw, of which 450,000 kw of total to be owned by Olin Revere Generating Corporation, subsidiary of Olin Revere Metals Corporation.

Notes

- a—an additional 225,000 kw to go on line in 1957.
- b—an additional 450,000 kw to go on line in 1959.
- c—an additional 450,000 kw to go on line in 1957.
- d—an additional 120,000 kw to go on line in 1957.
- e—Ohio Power's portion; station's remaining 150,000 kw owned by West Penn Power Company, a non-affiliated company.

Couples Make Recent Marriage Vows



Employees or members of their families who were married in recent weeks are pictured above. TOP ROW from left: Mrs. William Thomas Carter, system; Mrs. Frank Janson, Point Pleasant; and Mrs. John Routa, Logan. BOTTOM ROW from left: Mrs. Robert L. Brown, Roanoke; Mrs. Richard A. Macomb III, Ashland; and Mrs. Larry L. Bucklen, Abingdon.

Assaid-Bucklen

Sarah Jane Assaid and Larry L. Bucklen were united in marriage February 9 at the Methodist Church of Cedar Bluff, Va. Mr. Bucklen is area sales representative (agricultural engineer) in Scott County of the Abingdon district.

Vinyard-Carter

The Peters Creek Church of the Brethren was the scene February 9 of the double ring ceremony of Betty Lou Vinyard and William Thomas Carter. Mrs. Carter is clerk-stenographer in system public relations.

Bryant-Brown

Nancy Bryant and Robert L. Brown were married February 16 at the Trinity Methodist Church of Roanoke. Mrs. Brown is the daughter of J. R. Bryant, Roanoke district working foreman.

L. W. Selfs Observe Golden Anniversary

Fifty years of marriage were recently celebrated by Mr. and Mrs. Leslie W. Self. Mr. Self is a retired Huntington employee.

An open house was held for the couple by Mr. and Mrs. Gene M. Elliott of Huntington and Mr. and Mrs. Charles A. Elliott of Kansas City. Mr. and Mrs. Self—she is the former Mabel Ruth Stevers—met in 1905 and were married January 16, 1907.

The Selfs made this comment on their party: "Gene and Charles Elliott and their wives surprised us with our Golden Wedding Anniversary celebration. Fifty years has not seemed very long and we thank our many friends for their kindness to us in celebrating our Golden Wedding Anniversary."

Mr. Self was employed April 1, 1904 by the Camden Interstate Railway Company, an Appalachian predecessor. He retired November 1, 1944.

Stover-Saunders

Isobelle Elizabeth Stover and Samuel E. Saunders were united in marriage recently at the Nazarene Church of Point Pleasant. Mr. Saunders is a Point Pleasant district lineman.

Walker-Janson

Mary L. Walker was married February 2 to Frank Janson at the United Brethren Church of Ripley. Mrs. Janson was a Point Pleasant district cashier-clerk.

Reynolds-Macomb

Ruth Reynolds and Richard A. Macomb III were united in marriage January 26 at the First Presbyterian Church of Ashland. He is the son of Richard A. Macomb II, Ashland district commercial manager.

Valley-Routa

Ann Valley and John Routa were married February 16 in the Holy Trinity Episcopal Church in Logan. Mrs. Routa is the daughter of T. F. Valley, Logan local office manager.

New Arrivals

Abingdon

MR. AND MRS. C. E. FIELDS, a son, George Dennis, January 14. Mr. Fields is a lineman at Gate City.

MR. AND MRS. ROY B. REDWINE, a daughter, Lesa Lynn, January 17. Mr. Redwine is a concrete engineer at Clinch River Plant.

Beckley

MR. AND MRS. W. E. ZOPP, a daughter, Donna Jo, February 7. Mr. Zopp is personnel assistant.

Cabin Creek Plant

MR. AND MRS. RAYMOND N. JOHNSON, a daughter, Connie Ranita, January 24. Mr. Johnson is a laboratory attendant.

MR. AND MRS. CLIFFORD H. STONE, a son, Clifford Eugene, born recently. Mr. Stone is a janitor.

Charleston

MR. AND MRS. ROBERT H. WELLS, a son, Richard Henry, February 11. Mr. Wells is a business administration trainee, coal procurement office.

Huntington

MR. AND MRS. LLOYD JOHNSON, a son, Chad Michael, January 23. Mrs. Johnson is a former system billing office employee.

MR. AND MRS. MASON NIDA, a daughter, Glenda Dianne, January 24. Mrs. Nida is a former system billing office employee.

Kanawha River Plant

MR. AND MRS. T. W. ABOLIN, a daughter, Velma Celeste, February 1. Mr. Abolin is assistant plant manager.

MR. AND MRS. W. J. MARTIN, a son, William Randall, February 1. Mr. Martin is employed in the labor department.

Logan

MR. AND MRS. W. M. HILL, a daughter, Sandra Lynn, January 26. Mr. Hill is the Man area representative.

Logan Plant

MR. AND MRS. C. F. HERBERT, a daughter, Peggy Lynn, February 16. Mr. Herbert is a utility operator.

Lynchburg

MR. AND MRS. RICHARD O. CASH, a son, Richard O., Jr., February 3. Mr. Cash is a groundman.

Point Pleasant

MR. AND MRS. J. L. DARBY, a son, David Dean, January 27. Mr. Darby is an agricultural engineer.

MR. AND MRS. CHARLES A. SIMMONS, a son, Glen Allen, January 31. Mr. Simmons is an electrical engineer.

Pulaski

MR. AND MRS. JOSEPH CECIL BUCKNER, a son, John Marshall, February 13. Mr. Buckner is a meter reader.

Roanoke

MR. AND MRS. S. M. MUSSELMAN, a daughter, Katherine Lynn, born recently. Mr. Musselman is a groundman.

MR. AND MRS. J. W. THOMAS, a son, Jeffrey Hunter, February 17. Mr. Thomas is an engineering aide.

Philip Sporn Plant

MR. AND MRS. WALTER R. COUCH, a son, Richard Alan, January 23. Mr. Couch is a maintenance man.

MR. AND MRS. ROBERT E. DAILEY, a son, Richard Kevin, February 2. Mr. Dailey is a maintenance man.

MR. AND MRS. RALPH S. FINK, a son, Ralph Samuel, Jr., February 13. Mr. Fink is a material clerk.

MR. AND MRS. WILLIAM R. JOHNSTON, a daughter, Barbara Jo, January 19. Mr. Johnston is a test engineer.

System

MR. AND MRS. M. J. HARTLEY, a son, William Carl, born recently. Mr. Hartley is system meter superintendent.

Welch

MR. AND MRS. CLINTON CATON, a son, Byron Lee, February 15. Mrs. Caton is a former meter department employee.

MR. AND MRS. HOWARD LINKOUS, a son, Mark Andrew, January 30. Mrs. Linkous is a former accounting employee.

Williamson

MR. AND MRS. ROLAND STATEN, a son, James Gregory, February 5. Mr. Staten is employed in the T&D line section.

Making Milady's Chapeau, Hobby And Future Business Of Charleston Maid

It's a hobby now, but Charlie Cooper hopes to turn her hat-making into a business later.

The Charleston maid attended nine weeks of night millinery classes in the Charleston adult education commercial school to learn how to make ladies' hats. Making one looks easy at first glance, but to be truly creative takes hard work. Charlie enjoys it though.

To begin making a hat, she takes regular millinery crinoline, wets it and shapes it to a form. After it dries, she lines it and binds the edges. Here the work begins. She must decide what design she wants, choose her pieces of decoration and finish the hat. For decoration she uses linen, wool, straw, net, braid,

buckles, buttons, bows, flowers, feathers and ribbons.

Charlie hopes someday to have her own millinery shop. Meanwhile she is preparing herself for this year's Easter Parade.



Charlie Cooper, seated, tries on a partially finished hat she is making. Mary K. Hanley, Charleston home economist, assists by helping shape the hat while it is on Charlie's head. This creation is made of pink straw.

They're Engaged

ELIZABETH ANN BOWMAN to William Humbert. Miss Bowman is the daughter of F. E. Bowman, assistant Roanoke district residential and rural sales supervisor.

WILMA JEAN FRAZIER to Robert E. Sullivan. Miss Frazier is an Ashland local office contract clerk.

Essay Contest Won By Pikeville Youth

Mary Hamilton finished first among 638 Pike County students in the annual Soil Essay Contest.

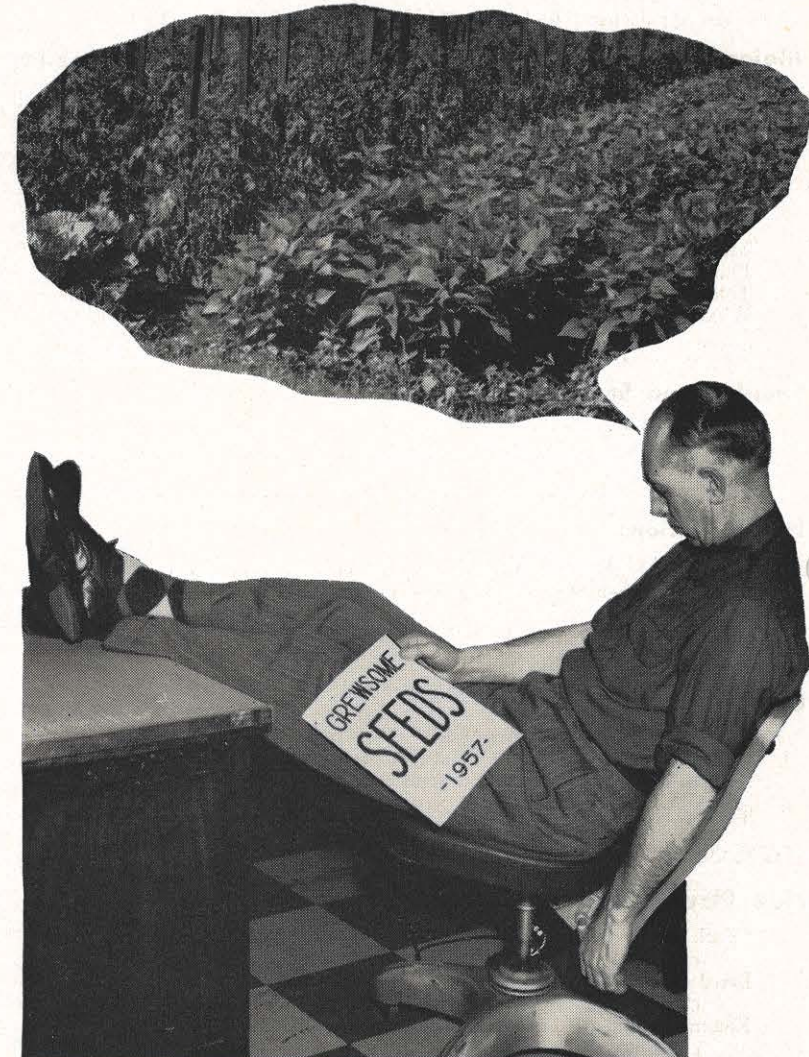
The daughter of Oscar Hamilton, Pikeville line foreman, she won a \$25 Savings Bond. The topic this year was "How Fish And Wildlife Conservation Can Benefit My Community." This is the first time the eleventh-grade student at Mullins High School had entered the contest and it is the first time an employee's child has won.

Beckley Employees And Families Attend Party

Almost 70 people attended a bingo party sponsored recently by Beckley's employee organization, the Appaleisure Club.

A room was set up in the basement with games and refreshments for the 12 young children who attended. The 56 adults played bingo upstairs in the auditorium. An electric hair dryer was won as a door prize by Mrs. W. E. Mitchell, wife of the district line supervisor.

Dream Time—Spring Is Almost Sprung



Spring officially arrives March 20 at 4:17 p. m., and with it comes all the blisters and sore muscles of a garden. But right now, Paul Shawver, Bluefield division power billing supervisor, can dream only of the bright green leaves and colorful products of a healthy and fruitful garden. Paul, a backyard gardener, fell asleep over the 1957 Grewsome Seed Catalog, which says tomatoes are red, squashes are blue, the strawberries are sweet and the flowers are too. The "blue" squash refers to Blue Hubbard squashes. Paul still has a few weeks to dream and when he awakes there will be plenty of time to think about the blights, sprays, spades, stakes, backaches, corns and blisters. Making sure Paul dreamed only of the garden in this photo was Ira Henderson, Bluefield administrative assistant.

Court Wizard



Going high into the air for two points is John Strong, ace basketballer for Princeton High School. The junior is the son of H. M. Strong, Jr., Princeton local office manager in the Bluefield district. John is averaging over 10 points a game and is one of the stars on the team which has a 14-2 record. The six-footer played Jayvee basketball and was on the undefeated freshman team two years ago. He is center and defensive line backer on the school's football team and is also a member of the track squad.

Employee Is President Of Triangle Sportsmen

Warren D. Pearson, Bluefield power sales engineer, has been elected president of the Triangle Sportsmen's Club.



Mr. Pearson

Ian F. Houston, working foreman, was named vice president of the club which has about 150 members from Mercer, Tazewell and Bland

Counties. They have built their own clubhouse on their 85-acre tract of land on the Tazewell Road, and also own a trap shooting range.

Two Teams Still In Hot Fight For Roanoke Lead

The two teams which battled for first place during the first half are fighting it out for second half honors in the Roanoke Bowling League.

Stores, which finished second the first half, leads now with a mark of 16-8. And Accounting, first half champs, are second with a 15-9 record. Leroy Gregory, Line and Station, continues with high average of 112 and high single game of 163. Tommy Mitchell, Accounting, has high set of 395 and Accounting has high team game of 612. Local Office has high team set of 1727.

Cycles Win Williamson Roll-Off



The Cycles won the first half bowling title in Williamson, but only after defeating two other teams in a roll-off. The three teams, the Cycles, Hot Sticks and Watts, had tied for first during regular play. Cycle team members shown above are, front row from left: Virginia Stafford and Kermit Epperly; second row from left: Moir Nowlin, Fred Varney and Bobby Pinson. Jay "Sonny" Runyon has high average of 151 and C. L. Miller has high three game series of 533. Jack Maynard rolled 224 for high game. The Cycles have team high single game and the Bugs have high series. The League recently received new Reddy Kilowatt shirts like those being worn by the Cycles.

Never Too Cold For These Anglers

It never gets too cold to fish. At least it never does in the opinion of Williamson meter employees, who recently got rods and reels out of winter storage to compete for a sport shirt. The prize was set up after the men got the yearning to go fishing while discussing what springtime would hold for anglers, who was the best fisherman and what each man had caught the past summer.

Harold Akers won the sport shirt with a 18 1/4-inch catch. Several of the employees want to dispute his title this spring, but right now Harold says, "That sport shirt is mighty nice."

Plant Teams Tied For Logan Court Lead



Two teams each from Logan plant and Logan district make up a basketball league which opened play in January. Players pictured above are, front row from left: M. A. White, J. B. Bell, B. J. George, P. M. Hefner, A. G. White, Holmes Cassidy, Richard Kuhn, Elba Samson and Richard Blevins. Second row from left: Wetzel Lee, Emil Hall, J. R. Ellis, D. F. Woolcock, R. L. Goff and Harold Jimison. Back row from left: J. R. Blankenship, Coonie Hager, Howard Foglesong, Frank Queen, Sheffey Massey,

L. H. McDonald and R. L. McComas. Not pictured: A. J. Conley, C. D. Jeffrey, Lionel Ellis, R. H. Phillips and D. F. Brumfield. Plant Operators and Plant Office are tied for first with 4-1 marks and District T&D stands at 2-3. Meter has failed to win in five outings. Johnny Bell, Operators, is averaging 22 points a game, while J. R. Ellis, Plant Office, has 13.8. Wayne Warren is the official scorer and timer for the league.

Charleston Has Commanding Lead In First Match With Beckley For Trophy



Top stars for Beckley and Charleston in the recent inter-district match are pictured above. Front row from left: Elmer Hutchinson, high game and high series for Beckley; Elizabeth Scott, high game and high series for Beckley girls; Eugene O'Neal, high game for Beckley No. 2 team; and Regina Slayton, second high game for Beckley girls. Back row from left, all Charleston: Paul Parsons, high series for match; Judy Powers, high series for match for girls; Pauline Lanham, tie for high game for girls with Judy Powers, and Bob Selbe, high game for day.

Charleston has successfully completed the first leg of its way to winning the annual inter-district trophy in bowling matches with Beckley.

Charleston bowlers won three recent matches with a 613-pin margin, and another match later will decide the trophy winner. The Charleston No. 1 team defeated Beckley's first team by 251 pins in the three games. All five Charleston bowlers hit over 500 series.

The Charleston No. 2 team lost the first game but came back to top Beckley by 169 pins in a three-game series. And the Charleston girls' team won by 193 pins.

The match took place in Charleston, and was followed by a buffet

supper in the banquet room of the Boulevard Recreation Center. The next match takes place in Beckley in March or April.

Madison Man Will Manage Baseballers

Donald R. Coffey has been named manager of the Indians Little League baseball team at Madison.



Mr. Coffey

The Logan district truck driver-groundman is one of six managers picked for the loop, which is beginning its first year of operation. Don was employed February 5, 1953 as a laborer at Logan plant. He transferred to Logan district as a groundman June 4, 1954 and was promoted to truck driver-groundman June 14, 1954. He is active in Scouting and was recently commander of the American Legion Post.

Cabin Creek Basketball Team Has Won 8, Lost 2

Employees of Cabin Creek plant fielded their first basketball team this year, and its debut has been a successful one.

The team has an 8-2 record so far. Players are W. H. Rader, R. N. Johnson, J. E. Brown, J. L. Ellis, D. R. Burger, C. L. Crawford, A. W. Rookstool, B. R. Seabolt, J. B. Britt, J. K. Daniels, J. L. Estep, Harry Searls, Ray Lane and B. L. Burroughs.

Rookie Bowler Rolls 311 Game

Charlie Caruthers had only rolled 36 games in his life. From those 36, he had established an average of 121.

But the 37th game was the turning point—pins fell all over the alleys. When the Charleston meter service helper had finished, he had chalked up a 248 score. The Charleston league works on a handicap basis, and Charlie's average entitled him to a 63-pin handicap. Adding this to his actual pins for the game, he came up with a 311 score. A perfect game is 300.

Chris Tardy, league secretary, doesn't know what the odds are on this happening, but her records for the past two and a half years show this hasn't occurred before in 14,040 games.

Creepers Are First Half Champs At Cabin Creek

The Creepers broke a first place tie with the Pulverizers to win the first half bowling championship at Cabin Creek plant.

The two finished the first half in a tie and the Creepers won the roll-off by 32 pins, 2,744-2,712. High single for the first half of 234 was rolled by Bobby Slack and Eddie McConihay has high series of 543. Phil Murray's 158 is high average. For the women, Hannah Coleman has high single of 158 and Margaret Fields has high series of 404 and high average of 122.

School Pays Tribute To Kanawha Musician

The *Stonewall Jackson Journal*, monthly magazine of the Stonewall Jackson High School in Charleston, recently devoted half a page to Jerry Burnette's activities.

The son of J. C. Burnette, Kanawha River plant safety supervisor, Jerry is well-known in the area for his musical talents. The article recognized the many contributions he has made to school activities and traced his rapid climb in the musical world.

In listing Jerry's activities the article pointed out he plays the organ and piano for civic clubs, shows, church groups and many other organizations. He has appeared often on radio and television and has received many awards. He is an all-around athlete, excelling in golf, and plans to study medicine next year when he enters college.

Sporn Bowlers Finish High In Pomeroy Tourney

Philip Sporn plant bowling teams captured second and third places in the recent Pomeroy Bowling Tournament.

A team consisting of Doug Miller, Bob Gilmore, Charles Carroll, Clayton Athey and Clarence Tennant took second. And another team consisting of Floyd Capehart, James Haggerty, Gene Athey, Wyllis Dudding and Gerald Kelley finished third.

Title Captured By Maintenance No. 3



Recording 35 wins against 16 losses, Maintenance No. 3 took first half honors in the Philip Sporn Plant Bowling League. Team members, shown above, include front row from left: Bub Stivers, Bob Couch and Cricket Searls; back row from left: Buck Tennant, John Reitmore, Whitey Russell and Junie Gibbs. The Pulverizers finished second and Maintenance No. 2 and No. 1 tied for third. June Gibbs has high average of 181 and Wyllis Davis has high game of 258 and high series of 638. Maintenance No. 2 has high team game of 943 and high team series of 2,663.

New Pearisburg Office Is Officially Opened

Over 700 people attended the two-day open house that heralded the official opening of the new Pearisburg office building of the Bluefield District.

The open house began the morning of February 14 when Bluefield district supervisors previewed the building at their regular monthly luncheon meeting. J. P. Gills, division manager, opened the preview and he was followed by L. F. McPherson, assistant district manager, who made a short talk. L. E. Turner, Glen Lyn plant manager, showed color slides tracing the development of Giles County.

Following lunch a tour of the building was taken. That afternoon employees and members of their families viewed the building facilities, which include a 150-seat auditorium, an all-electric demonstration and commercial kitchen, and headquarters for all local office operations in Giles and Monroe Counties. A heat pump heats and cools the office.

The next day the public was invited to see the office. At 10:30 that



Two displays at the Pearisburg open house received attention of guests. At far left Lewis C. Thomas explains the commercial cooking display to a man while Leonard Robinette, third from left, explains the heating display.

morning Radio Station WNRV broadcast proceedings for half an hour. W. J. Gillespie, Jr., district manager, made a short talk to open the program and he was followed by Clarence J. Taylor, mayor of Pearisburg. J. R. Boulton, area sales representative, who acted as master of ceremonies, took

over the mike and interviewed hosts at each exhibit in the building. District specialists, stationed at the 14 displays, explained to the listening audience what his display contained. Coffee, punch and cookies were served throughout the day and souvenirs were given to those attending.



An open house February 14-15 marked the opening of this new office for Pearisburg of the Bluefield district.

Seeding Program Of Electric Heat For Homes To Be Offered To Customers

Appalachian and electric heating equipment manufacturers, distributors and dealers will kick off April 1 a new three-month Electrically Heated Home Seeding Program.

The purpose of the program is to demonstrate to the public that electric heat can be readily and satisfactorily installed in existing homes, replacing other heating methods. The program is also designed to speed up general public acceptance of this fact.

Appalachian has been divided into about 800 sections, and the four co-operating groups will work to sell one customer in each section on changing his home to electric heat. This "selected" customer will get all costs of equipment, insulation and installation at an appreciable savings from retail prices. Only one customer in each section will get this savings. The plan works on the theory that when one successful installation is made in an existing home, others in the same area may follow.

Chance For Employees

While the program will not be introduced to the public until April, Appalachian employees who are interested in changing their present home to electric heat from other heating methods (becoming the "selected" customer for a particular section) should contact their commercial department immediately.

Appalachian's plan of employees financing an electric heating system through the company will be in effect for the seeding program also. Under this plan, terms can be arranged for up to five years at a 3

per cent finance charge. Employees can finance these things through Appalachian: cost of electric equipment, cost of installation, cost of necessary insulation and cost of storm doors and windows if needed.

How Plan Works

The seeding program will operate in April, May and June only. Here is how it works:

Appalachian will work with the other interested groups, and will make customer contacts to line up prospects. Manufacturers and distributors will work to establish Local Electric Home Heating Dealers in each of the 800 sections, and are to make available to these dealers electrical heating equipment at a greatly reduced price.

The dealer then will pass this saving along to the "selected" customer, and will work to see that the installation is made in time for the fall heating season.

The "selected" customer earns his discount on cost of equipment, installation and insulation by agreeing to two things: (1) he agrees that for a period of one year after installation Appalachian and/or the local dealer may, by appointment, bring other interested prospects to his home to show them how electric heat can be readily and satisfactorily installed in an existing home, converting from another type heating system; and (2) agrees to work with Appalachian and the dealer in holding at least three open houses during the year, where friends and neighbors will be invited to see and hear the electric heating story.

Glen Lyn Man Stationed In Wyoming In Air Force

William C. Smith of Glen Lyn plant has entered the Air Force and has been stationed at the Francis E. Warren Air Force base in Wyoming.



Mr. Smith

The maintenance helper is an airplane mechanic. He was employed at the plant in June 1955 and is the son of C. M. Smith, labor-janitor foreman at the plant. He is also the brother of G. L. Smith, Glen Lyn maintenance helper. Mr. Smith is married.

Happy Motorist



A happy motorist is Ernest A. Clay, Kingsport meterman. He is driving the miniature auto his wife recently won at a local store. The best things about the auto, according to Mr. Clay, are the ease with which it can be parked and the fact it doesn't use gas. A 12-volt battery powers the auto to a maximum speed of 15 miles per hour. It also has lights, a horn and a reverse gear.

'Hot Line Work' By Thieves Is Puzzling To Employees, Police And Public

Some unusual "hot line work" has been going on in the Williamson district lately. Thieves have been stealing copper neutral conductors, primaries and even transformers from rural lines in the Kermit-Marrowbone Creek area.

State and county police and power company personnel have been working on the case, but so far no hot tips have led to a conviction. The lines and transformers have been cut from 7,200-volt rural lines for their copper content.

It all started when a pole was cut down and two spans of wire were taken and a transformer broken up for its copper. One customer was out of service overnight because he had no telephone and couldn't contact the company.

Later another pole was chopped down, causing a span of primary to fall and interrupting service to 25 customers for several hours. Two spans were stolen in this case.

Evidently the thieves then figured out how they could remove the copper neutral conductor without service interruption to customers, who might in turn send in an alarm. One night they successfully removed without circuit interruption over one mile of neutral line near Marrowbone Creek. The theft was not discovered until the next day. A ladder had been fashioned by the thieves from saplings from a nearby wood. Every other pole was climbed and the neutral cut loose.

Investigation on the case continues, with the additional aid of coal companies who have been suffering similar losses recently. Justice, however, can be quick . . . and even deadly in this case. The dangerous forays



by thieves may lead to a case where a culprit or culprits are electrocuted for stealing.

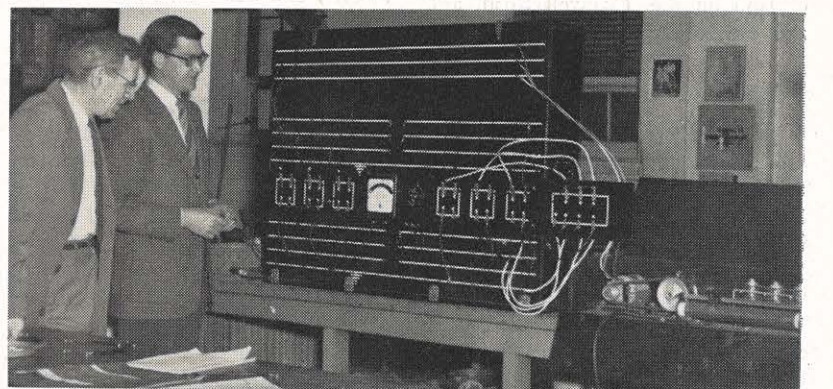
Thirty Finish 'Aid' Course In Huntington

Thirty Huntington employees have received certificates for completing a recent standard first aid course.

C. J. Akers, district safety supervisor, taught the course. Receiving certificates were G. W. Akers, Richard Baumgardner, Jack Butler, H. L. Back, Nathaniel Bowen, J. B. Browning, Clarence Copley, Stonewall Fannin, Walter Harris, W. W. Hodges, E. C. Hughes, Jr., Harry Irons, M. J. Johnson, W. H. Jackson, F. C. Leap and W. T. Locke.

Also F. E. LeMaster, H. V. Mayo, C. F. Mooney, H. A. McGowan, J. A. Massie, T. J. McComas, L. E. Perkey, C. E. Porter, R. E. Preston, D. W. Ritchie, C. L. Slusher, Boyd Thompson, Sr., Boyd Thompson, Jr. and Edward Stump.

Transformer Phasing Headaches Cured By Test Board Constructed In Pulaski



A. D. Clark, left, and Robert Carson examine the test board they built for solving transformer phasing problems.

Connecting three-phase transformers so that they work together properly can be a headache.

But two Pulaski employees have come up with a test board that takes much of the pain out of the operation. A. D. Clark, district superintendent, and Robert Carson, electrical engineer, had mulled over the problem since discussing it with Thomas Ryan, assistant district manager.

Six months ago they built the board, which can be energized with three-phase current and on which various problems of transformer phasing can be set up and worked out. After a solution is reached on the test board, it is easily adapted to the situation in the field.

Solution of a typical problem recently points out the value of the board. Two three-phase transformers were to be paralleled in a station but considerable work was involved in what leads of one transformer were to be connected to those of another. The problem was set up on the board, the solution found and repeated at the station. If the board

hadn't been used, the chances were good that the leads would have had to be switched after the structure was completed at the station.

The main problem the men overcame in building the board was converting a single phase 120-volt Selsyn motor to a three-phase generator. Then six small one to one ratio transformers were mounted behind the board with their leads brought out to simulated transformers painted on the board face. A phase rotator indicator and volt meter are also part of the equipment.

Another definite advantage of the board is that it and the power supply are enclosed in units so that the whole set-up can be packed and carried to any point in the district for instruction classes on transformer connections.

By using available materials and instruments the men kept construction cost of the board at a minimum. Six months of use has proved the board not only a valuable training aid but also a cure for transformer phasing "headaches."