AGE—Fifty Years Of Progress In Electric Power. The Illuminator

Let's Make Our 50th Year Our Safest Year.

Vol. VII No. 12

KENTUCKY POWER COMPANY

KINGSPORT UTILITIES, INC. APPALACHIAN ELECTRIC POWER COMPANY

September 1956

Roanoke Reaches Million Manhours For Third Time



W. P. Booker, Roanoke district manager, at left, and T. A. Kirby, district safety supervisor, point to the spot where the district's third EEI Safety Merit Award will go. District employees became eligible for the award when they recently completed a million manhours without a disabling injury.

Roanoke district employees have worked a million consecutive manhours without a disabling injury for the third time in the past 15 years. Roanoke is the only Appalachian district to reach this coveted mark a third time.

The latest million manhour mark was reached August 8 by the 337 district employees, who are continuing into the second million. The last disabling injury in Roanoke was on December 17, 1954. Employees are now eligible for their third Edison Electric Institute Safety Merit Award and national recognition.

Booker Praises Employees

W. P. Booker, district manager, in praising the employees, said: "We are greatly pleased with this record. It is not so much that we have established a new record, but the fact that we have all escaped injury during the past million manhours of work that is vitally important.

"This is convincing proof that our employees are all aware of the very important part that safety plays in each of their lives. We are hopeful that we can continue this record and I am sure that all of the employees will continue to work safely."

Previous Records

The two previous million manhour records extended from October 10, 1940 to December 31, 1942 when the employees worked 1,275,735 nanhours without a disabling injury, and from November 27, 1943 to December 31, 1945, when the record was 1,008,831 manhours.

Appalachian as a company has passed the million manhour mark twice this year, and Lynchburg for the first time in its history completed meaning to the anniversary slogan "Let's Make Our 50th Year Our Safest Year."

Cabin Creek Man Named Manager Of Sporn Plant



Mr. Mehlman

Alfred G. Mehlman, assistant Cabin Creek plant manager, was promoted last month to manager of the Philip Sporn plant.

G. L. Furr, Appalachian vice president and general manager who made the announcement, said, "Mr. Mehlman succeeds Howard Andrews who has been assigned other duties in connection with the power plant expansion program of our American Gas and Electric Company system."

Mr. Mehlman, 43, joined the power company as a Cabin Creek plant maintenance man in 1940 after five years with Pure Oil Company at Cabin Creek as laboratory tester. In 1941 he moved up to assistant results engineer. The next year he became boiler room maintenance engineer, and was moved to assistant master mechanic in 1944.

New I & M Plant To House First Of Two Largest Units In World

A new \$58-million electric power plant, to house the world's largest generating unit, will be built by the Indiana & Michigan Electric Company on the Wabash River south of Terre Haute, Indiana.

The unit, which also will be the most efficient power producer in the world, will have a generating capacity of 450,000 kilowatts. It will be 73% larger than any unit operating today.

First of Two Planned

The huge unit is the first of two planned on our seven-state American Gas and Electric Company System. Location of the second unit elsewhere on the AGE System is still under study and is expected to be announced later in the year.

Philip Sporn, AGE president who made the announcement August 29, said that construction of the power plant would be started in the very near future and that completion is scheduled for late 1958. Provision has been made in its design for eventual expansion to 900,000 kw.

Mine Serves Plant

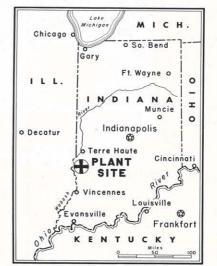
The power plant will be served by a new coal mine to be developed nearby by Ayrshire Collieries Corporation, of Indianapolis. The mine and power station will be connected by a private six-mile railroad to be built, owned and operated by Ayrshire. It is estimated that the cost of the new mine and railroad will be in excess of \$4-million.

The power plant site is a tract of

Why Unit So Big?

Explaining why the AGE System decided to construct units of such considerable size, President Sporn said: "The relative size of these new units must be judged in reference to the AGE System's size as a whole.

"The tremendously rapid growth in our System load in the last few years has been such that our largest unit being built today will be too small a percentage of tomorrow's total load. This decision to go to a larger unit is another move in the constant efforts to keep the cost of power to our customers as low as modern technology will permit."



about 875 acres with a river frontage of about $1\frac{1}{2}$ miles opposite the Illinois bank. It is in Fairbanks Township, Sullivan County, Indiana. The plant will be tied in to the I & M system via a new 330,000-volt transmission line.

Reasons for Site

In commenting on the selection of the Wabash River site, Mr. Sporn cited two principal reasons for the location: the need for greater generating capacity in the growing Indiana-Michigan area, and the plant's proximity to its two basic requirements: an abundant reserve of low-cost coal and an abundant water supply. He pointed out that the new plant is the third major power station to be announced for the AGE System this year and all three are located at sites adjacent to new major coal mining developments.

Mr. Sporn said that Ayrshire will supply the plant's full fuel requirement of 1,300,000 tons of coal per year under terms of a 15-year contract with I. & M. The contract also calls for an additional 15-year extension and for doubling the coal supply in the event of the construction of a second unit at the power plant.

"A New Plateau"

Mr. Sporn described the new generating plant as "a new plateau in power generation technology." Some idea of the size of the first unit lies in the fact that theoretically it will be capable of supplying all the residential electric requirements of a city with a population of 4,000,000.

The new generating unit and its sister unit destined for another

000 kw of new power production facilities in the AGE System's recently-announced \$700-million, fiveyear expansion program. Extending through 1960, the program will include the addition of 2,600,000 kw of new capacity and will raise the AGE System's total capacity to 6,600,000 kw by that time.

Bigger and Better

The plant is expected to show an improvement of 5% in thermal efficiency over the world's best to date. It also will show an improvement of $7\frac{1}{2}$ % in capital cost per kilowatt of generating capacity, brought about by economies due to larger size of unit, higher speed of the turbine, space reduction, elimination of boiler house, and many other factors. While capable of producing exactly twice as much electric power as the largest-sized units now under construction on the AGE System, the 450,000-kw unit will occupy a cubic space only about one-third larger.

Babcock & Wilcox Company will build the boiler for the new unit. It will be of outdoor design, as tall as a 23-story building, and will exhaust to a stack of about 500 feet above ground level.

The turbine-generator will be built by General Electric Company. The turbine will be cross-compound in design, with both the high and lowpressure elements operating at 3,600 r.p.m., arranged to obtain maximum economy with the load being equally divided between the two generators.

In discussing the technical aspects

(See New Unit, Page 9)

Special Section

"Fifty Years of Progress in Electric Power" is the theme of this year's 50th anniversary of the American Gas and Electric System.

And the story of some of this progress is told in a special anniversary section of THE ILLU-MINATOR. On pages 6-7 the background and events of the AGE System and our three companies are traced. Evolving from the words and pictures is the story of one of the world's largest power systems and how it got that way.

a million manhours without a disabling injury in July.

These records come during AGE's 50th Anniversary Year, and add

Late Bulletin — Logan Hits Mark

Logan district employees have completed a million manhours without a disabling injury.

This announcement was made as *The Illuminator* was going to press. The record was reached August 28 by employees of the district for the first time. Logan becomes the third Appalachian district this year to pass the million manhour mark. The company as a whole has reached the coveted mark twice this year. In 1950 he became supervising nucchanical engineer and then acting assistant plant superintendent. Promotion to assistant plant manager at Cabin Creek came in 1951.

Married and the father of a 22month-old son, he is a past president of the Cabin Creek Rotary Club. A native of Bridgeport, Ohio, where he attended schools, he received his BS degree in chemical engineering from Wheeling's Linsly Institute of Technology in 1934.

Flat Top Power Is Now Part Of Welch

Welch district added over 600 customers on August 1 when Appalachian acquired the facilities of the Flat Top Power Company. A local office will continue to be maintained in Northfork for customer convenience.

Appalachian is now supplying electric service to the Northfork and Kyle areas. The Flat Top Power Company was purchased in 1954 by the American Gas and Electric Company and has been operated as an AGE subsidiary since that time.

System site represent the final 900,-

Pearisburg Office Is Nearing Completion



Completion is near on the new Pearisburg office building of the Bluefield district. The brick work is finished, the roof is complete and the interior job has begun. Four heat pumps will heat and cool the building, which will be completed in October.

The Illuminator

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Contributions Of Past Pave Way For Future

Some developments that lead to our present observance of "Fifty Years of Progress in Electric Power" are evident in the story on pages 6-7 of this issue. The amazing growth of our American Gas and Electric Company System becomes apparent as the story unfolds.

Another indication of our System's position in the electric utility industry appears on the front page. Announcement of the record-shattering 450,000 kw unit—first of two to be installed on the AGE System—again puts us in a position of national leadership. Our records of biggest power producer among public utilities, tops in generating efficiency, highest voltage network in the nation, operating methods, contributions to equipment design—all these have added to the fact that our customers get the best in modern electric service. And our expansion plans assure them this will continue to be true.

Much of the progress that each of our companies has enjoyed can be traced directly to our being part of the AGE System. Only through being a coordinated part of an integrated power system could we have met all the challenges that were so common during those years.

We are mindful of those advantages and also grateful that our companies shared in that progress, helping make it possible. A real debt of gratitude also is acknowledged to our veteran employees whose contributions join the pattern of constantly-improving electric service.

A real picture of old work conditions is evident in the answers to the question on this page. These veterans saw the tremendous changes taking place. In fact, they helped make those changes.

Today we are providing more power to more customers using more electricity for more things. AGE in its truest sense is people helping people live better. That, in itself, is a testimonial to "Fifty Years of Progress in Electric Power" for our companies in the AGE System.



What were conditions like when you went to work for the Power Company?

R. G. AMOS, Retired Line Foreman, Roanoke



R. G. Amos shows his grandchildren a scrapbook depicting the old days of the company.

I went to work for the power company in June 1911. The working facilities were very poor. There were 10 men in the line department. All these men worked in the same crew and did all trolley, line and service work. We had one wagon and two mules to take care of the street car tracks, trolley and line departments. When the company purchased the Niagara hydro property, a buggy and horse were purchased.

All company employees had free street car passes and wore identification badges about twice the size of a silver dollar. I worked 10 hours a day, six days a week at $12\frac{1}{2}$ cents per hour with payday on Saturday afternoon at 4 p. m., if funds were available. Several times it was necessary to wait a few days until street car collections provided enough money to pay off.

The company was unable to purchase meters, so they were removed from employees' homes and employees were given a flat rate of \$1 a month. The only transportation for installation of services was for the employee to board a trolley with a coil of wire, meter, house brackets, etc., ride the trolley to the nearest point and walk the rest of the way.

L. M. JORDAN, Retired Line Foreman, Charleston



When I first began with the Virginian Power Company in 1913 they had offices in the Union Trust Building. At that time company employees did all the work—no contractors back then. One crew cut right of way, another dug holes, another set footers—then came

the steel erectors and then the men who strung the wire. These men lived in construction camps unless they hit a coal mining town and could rent an empty house. The company only had transmission lines then. They sold power to coal camps and other communities, who furnished distribution lines of their own.

JOHN H. SHOWALTER, Retired System Station Operator, Kingsport

Conditions were entirely different from today when I went to work for the company back in 1914 at the steam plant. I worked 12 hours a day, seven days a week. One month I would have the day shift and the next month the night shift. Every two months I would get a day off.

We were constantly

having breakdowns and accidents. I remember one time the plant was down for three or four months due to not being able to purchase parts for the generators. There were no safety meetings or instructions; it was every man for himself.

There were no vacations, holidays or other employee benefits. It was tough in those days, but in thinking back, I enjoyed every minute of working with the company.

L. H. SAUNDERS, Retired Bluefield Division Personnel Supervisor



When I started working for Appalachian Power Company in 1915, its power generating facilities consisted of the small Byllesby and Buck hydro plants and a 2,000 kw steam plant leased from Pocahontas Fuel Co. at Switchback.

The company's business was chiefly sale of power to coal mines, small industries in the towns served and lighting. There was no service in the smaller towns and villages or rural areas.

It was a struggle to meet the payroll and pay bond interest. Twice members of the board of directors had to endorse notes to borrow money to pay bond interest.

Line, substation and outside workers worked 10 hours a day, six days a week and almost every Sunday. Top rate for linemen and electricians was \$75 a month, helpers 15 to 18 cents an hour. Foremen were paid \$85 to \$100 a month. Hourly paid employees received no pay for unworked holiday or vacations. There was no group insurance, sick leave pay or other employee benefits, except discount on electric service bills and free rides on the street cars in Bluefield.

IN THE SPOTLIGHT

The modern equipment and devices used today allow more work to be done in much less time. In those early days, safety was practically unheard of—today it is a major part of every job.

Yes, there have been many changes in conditions during my 38 years with the company; and they have all been for the better.

R. E. WILLIAMS, Retired Shift Supervisor, Cabin Creek Plant



I first started working for the power company July 1, 1912, while the plant was still under construction by the Virginian Power Company. In 1915 when I went in the operating department our peak load was 8,000 kw and on the midnight shift we carried from 1,000 to 1,500 kw load. Our peak load then would be sufficient to supply only half of the auxiliary power we now use.

In those days we had no benefits such as vacations, holidays, hospitalization, retirement, insurances, and company sick pay. There was no such thing as overtime pay—we worked seven days per week and we had no relief operators to take care of absences.

There was no safety program and no protective equipment. We took all kinds of chances that men today would not think of taking. Automatic controls did not exist and our plant was isolated from all others. In case of failure at the plant, we used a steam submerged pump to get our equipment back on the line.

In spite of all the troubles we had, we must have done a pretty good job for the longest period this plant has been off the line was 27 minutes when a rat got in some of the bus structures.

E. C. FUNK, Retired Substation Foreman, Williamson



Nearing The Goal

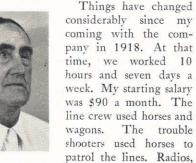
As part of the AGE Anniversary activity, all our companies are striving to do their best toward making our fiftieth year our safest year. Recent Million-Manhour Awards have gone to Appalachian twice as a company and to several districts. Lynchburg and Roanoke districts are the most recent to reach the safety pinnacle that brings national recognition from Edison Electric Institute.

The latest issue of Facts & Figures had an article by D. C. Duncan, system We worked six days a week and moved our equipment with wagons, horses and ox teams. We often rode the train as far as possible and walked six or eight miles to and from work. There were no employee fringe benefits and safety was never mentioned.

The weather was a bad factor too. I remember one time in '17 when it snowed on Christmas and didn't thaw off until March.

safety director, who summed up what such records demand iu teamwork' He wrote: "It takes all the employees to make a perfect safety record, but it takes only one to break it. A million manhour record is no accident."

NEWTON MOONEY, Retired Station Man, Hazard



cars and trucks were unheard of in those days. They would have been of little use anyway as there were no roads.

It is hard to realize the working conditions in those days as compared with those of today. When I started to work for the company (in 1919) the total generating capacity here at Sprigg was 3,300 kva. Six coal companies and about 30 domestic customers were being served. Plant, line and office employees numbered 18. The only means of transportation was by train, by foot and by mule team.

Poles and anchors were cut in the mountains when they were installed. Cross arms were cut as needed from angle iron in stock. All lines were single pole construction and insulators were all pin type.

The only safety program then was the individual's instinct of self-preservation. The average pay was \$2.50 for a 10-hour day and room and board when away from home.

These were known as the "good old days" but who wants them?



Mr. Furr

G. L. Furr, Appalachian vice president and general manager, has completed 40 years' service with the company.

Mr. Furr joined the company as an operating engineer in the Bluefield division on September 1, 1916, shortly after graduation from VPI with a B.S. degree in electrical engineering. He continued there until 1946, except for 21 months in the Army during World War I and about a year with General Electric Company on an exchange basis. He moved up in the company until in 1943 he became Bluefield division manager.

He became assistant general manager of Appalachian in October 1946 when he moved to Roanoke. He was named vice president and general manager of Appalachian on November 1, 1952.

He is a member of the board of directors of Appalachian, Kingsport Utilities, Central Operating Company, Central Coal Company, Central Appalachian Coal Company, Radford Limestone Company, Kanawha Valley Power Company, American Gas and Electric Service Corporation and Ohio Valley Electric Corporation.

He is also a member of the Board of Visitors of VPI, a member of the executive committee and the board of directors and past president of the Public Utilities Association of the Virginias, a director of the Southeastern Electric Exchange, a director of the Roanoke Area Council of the Boy Scouts of America, and director of S. H. Heironimus Company, Inc. He is a member of the Roanoke Rotary Club, the Shenandoah Club and the Roanoke Country Club. He is also past president of both the Roanoke and Bluefield Chambers of Commerce. Last year he was named "Boss of the Year" by the Roanoke Junior Chamber of Commerce.

Mr. Furr is married and has two children. He is a member of St. John's Episcopal Church.

Furr Named Rector Of Board Of Visitors



Appalachian Electric Power Company

Abingdon District

RALPH L. PUCKETT from groundman to truck driver-groundman.

Beckley District

SHIRLEY RAE BRYANT, home economist, from Beckley to Rainelle; KYLE ELLISON from lineman A to electrical engineer; WILLIAM F. EPLING, senior contract entry and final bill clerk, from Beckley to Rainelle; IRVEN J. JONES, lineman A, from Rainelle to Oak Hill; FRANCES JONES, senior cashier, from Rainelle to Oak Hill; K. K. KEATLEY, lineman A, from Oak Hill to Beckley; D. E. McGINNIS from apppliance serviceman B to appliance serviceman A; E. C. ROBERTSON from lineman B, Beckley, to lineman A, Oak Hill.

Charleston District

WOODROW CHAMPE from lineman A to general serviceman; GAIL LOVELL from clerk-typist to cash poster; CURTIS C. WILLIS from lineman B to lineman A.

Huntington District

R. T. BEATTY from meter service helper to meter serviceman A; CHAPMAN RUTLEDGE, JR., from meter serviceman C to meter serviceman B; JANE SWANN from junior billing machine operator to senior billing machine operator.

Logan District

JUANITA PRICE from junior cashier clerk to senior cashier clerk.

Logan Plant

N. T. DIAL from laborer to utility man.

Roanoke District

D. E. TROUT from private secretary, junior, to senior personnel assistant; MARGARET ANN SMITH, clerk-stenographer, from residential and rural sales to power sales.

Philip Sporn Plant

FARIE MAE COLE from clerk-stenographer to stenographer, accounting; MARY M. FOWLER from junior clerk to clerk-stenographer, accounting; VIRGINIA E. HOYT from junior clerk to clerk-stenographer, accounting; SHIRLEY G. KARR from clerk-typist to clerk-stenographer, accounting; MARTHA F. NASH from junior clerk to clerk-typist, accounting; DOROTHY J. RUSSELL from junior bookkeeper to senior bookkeeper; MARJORIE E. WALDE from senior bookkeeper to secretarial stenographer.

Kentucky Power Company

Ashland District

MIRIAM J. SHOPE from junior final bill and contract entry clerk, accounting, to junior power billing clerk, commercial.

Kingsport Utilities, Inc.

HOWARD G. BROOKS from groundman to lineman C.

Kincaids Are Honored By Ashland Employees

Mr. and Mrs. H. H. Kincaid were the guests of honor at a farewell party in Ashland recently.

Mr. Kincaid, who left Ashland to become Pikeville district manager, was presented a watch by employees. Mrs. Kincaid was given a suede purse. Refreshments were served.

'Electrical World' Has Article By System Man

E. C. Rankin, system supervising station engineer, wrote an article for the August 6 issue of Electrical World.

Entitled "In-Stock Tests Weed Out Bad Insulators", it also appeared in the May 1956 issue of Monthly Operating Notes.

Supervisors Train In Schools

Jack Lloyd Honored By Chamber, Council **Of Montgomery**

Resolutions of appreciation from the City Council and the Chamber of Commerce were given Jack Lloyd when he left Montgomery recently.

Jack was promoted from Montgomery area supervisor to division area development representative. When he left the city 70 persons honored him at a banquet where he was given many gifts and the two resolutions were read. The Montgomery City Council recognized him for his activities as "a public-spirited citizen" and thanked him for his many activities on behalf of the city and the Upper Kanawha Valley.

The Chamber of Commerce board of directors' resolution pointed out that Jack had twice served as president and had served many years with the board. The resolution congratulated Jack on his promotion and expressed regret at his leaving. It also expressed "lasting gratitude" for his service.

The grateful people of Montgomcry presented Jack these going-away gifts: A set of golf irons, a set of golf woods with covers, a putter, a pair of golf shoes, two dozen golf balls, a golf bag, a spinning rod and a spinning reel. With the gifts was a card reading "Good luck, Jack Lloyd--our community is better because you helped make it so."

Charleston Vet Has 35 Years' Service

T. J. O'Connor, Charleston division station engineer, completed 35 years' service August 1.

He joined the company in 1921 as a draftsman and in July 1937 became an engineer. In January 1950 he was promoted to design engineer and rose to his present position in September 1953. A native of

Baltimore, Md., Mr. O'Connor is a graduate of the Maryland Institute of Design, where he majored in mechanical engineering. Before joining Appalachian he worked for the Poole Engineering Company and the U.S. Navy Department as a draftsman.

Mr. O'Connor is married. He has a home workshop where he devotes a lot of time to gadgets and inventions.



U. S. Steel Corporation at Gary is constructing an additional coal preparation plant. Demand of the huge new cleaning plant in the Welch district will be about 6,000 kva.

Bassett Furniture Industries has announced plans for a \$2million expansion. The new plant in the Fieldale district to make dining and occasional tables will mean adding 500 employees to the industry that is one of the nation's largest furniture manufacturers.

Recent industrial and commercial expansion in the Roanoke area is indicated by the modern new buildings of Hajoca Corp., wholesale plumbing supplies; Mechanical Development Company, Inc., tool and die making; Miller Container Corp., producers of corrugated paper boxes; and Shackelford-Cox Company, distribution outlet for farm machinery and allied equipment.

A 33 kv line and substation were recently completed to serve the Celanese Corporation of America at their Gallipolis Ferry plant in the Point Pleasant district. Main products at the plant that has a 500 kva load are plasticizer and fireproof hydraulic fluid for use by seagoing vessels.

Hazard district extended service last month to Finley Coal Company and Mary Gail Coal Company for a total load of 350 kw.

The new Trailways Bus Terminal in Bluefield boasts three 7½-ton air conditioning units.

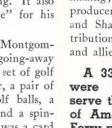
Beckley citizens last month voted to spend \$145,000 for recreational facilities over a three-year period. Largest part of the total, about \$100,000, will go for development of the 28-acre New River Park area in the northern section of the city.

One of the oldest continuously operating coal mines in West Virginia before it shut down in 1954 for modernizing after 50 years has reopened. The Norfolk and Chesapeake Coal Company's Wilson mine near Logan now boasts a new tipple and washer and is completely mechanized. The mine is expected to produce about 700 tons a day with the new equipment.

Some 120 houses in Nellis, Charleston district, are being renovated and new shopping and recreation facilities built. Electric water heaters are slated for the homes being sold by the Byron Corp. of Brookline, Mass.

A radio astronomy center is slated for Pocahontas County.







G. L. Furr, Appalachian vice president and general manager, has been elected rector of the VPI Board of Visitors.

Mr. Furr's election to the VPI post came at the Board's annual meeting at the school in mid-August.

Pikeville Student Gets College Scholarship

A scholarship to Pikeville College has been awarded Joella Fay Craft.

The daughter of Lewis Craft, Pikeville district area sales representative in Whitesburg, she was chosen the outstanding student in Letcher County. Valedictorian of her class, she won the outstanding mathematics and English awards.

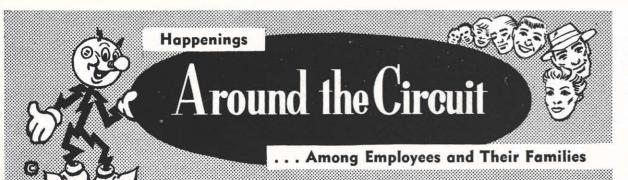


Supervisors went to school for one day recently in the Beckley and Bluefield districts, but studied different subjects. LEFT: W. E. Mitchell, Paul Pauley and R. F. Cooke of Beckley were among the supervisors who took a course called "Post Appraisal-Employee Development Interview" These three are conducting an employee interview (Mitchell, left, conducting the interview; Cooke, right, taking the part of the employee and Pauley, center, tape recording the interview). After the interview was taped it was played back and discussed by the group. Each supervisor made an interview during the afternoon session. A discussion period was held in the morning. Pauley, district record supervisor; O. C. Hall, Oak Hill area supervisor; John Hammer, district personnel supervisor; and John

Frazier, Charleston district safety supervisor, conducted the class. RIGHT: Area supervisors and foremen met in Bluefield for a course designed to familiarize them with the various activities carried on in the district. L. B. Lee, district superintendent, standing, is shown as he discussed the area supervisor job description and cooperation between the supervisor and foremen. W. J. Gillespie, Jr., district manager, opened the meeting and L. F. McPherson, Jr., assistant district manager, talked on organization charts, time progressions, etc. C. L. Shockey, district personnel supervisor, described several job classifications and C. M. Fletcher, general foreman, led a panel discussion. These two meetings are part of a company-wide supervisory training program.

The National Science Foundation has options on 6,000 acres of land and Congress has earmarked \$31/2 million for a start on the center the Foundation hopes will eventually have three radio telescopes. Immediate plans are limited to building the smallest of the three which would be taller than a 10-story building.

A bulletin from West Virginia University reveals that in the Huntington area a larger number of new industries were established during 1945-55 than any of the other eight major economic regions of the state. Thirteen new industries were reported in this area during this period.





Page 4

Glen Lyn Plant

Clyde Davis and Donald Thompson represented the town of Glen Lyn at Williamsburg at the Municipal Fire Fighting School for the state.

Sympathy is extended Ira Wiley, retired employee, on the death of his daughter.

New employees include E. C. Thornton, C. D. Wiley, M. L. Lester and Sidney Freeman.

R. H. Walton, Jr., has returned to the plant after 18 months in the New York office.

Among the 400 employees and members of their families attending the annual picnic were 16 retired cmployees: J. G. White, H. G. Holdren, A. E. Cecil, G. W. Johnson, A. P. Whitt, M. H. Wilkinson, R. N. Wilkinson, H. E. Davis, Samuel Hill, R. E. Hare, George C. Johnston, J. O. Smith, Lon J. Whitlow, R. W. Wilkinson, F. D. Spangler and John A. Thornton.

G. A. Thwaites won the beard growing contest at the annual company picnic. His beard was grown in connection with Giles County's 150th anniversary.

Abingdon District

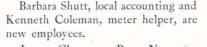
James Moore, Jr., bookkeeper, was recently elected adjutant of the American Legion post at Gate City.

Claud Kirkland, district manager, and James White, commercial manager, were elected to the board of directors of the Industrial Development Corporation of Abingdon at an organizational meeting.

Larrie Bucklen, commercial, and Sylvia Nye, T&D record section, are new employees.

Geraldine Countiss, T&D record section, has resigned.

Employees and members of their families contributed to the success of the eighth annual Virginia Highlands Festival. Paul S. Dunn, administrative assistant, was space chairman. James B. White discussed electricity on a panel covering the resources of Southwest Virginia and his wife worked on the art committee.



Jerry Clement, Ray Nunnery, R. H. Ruff and W. C. Groseclose helped with the statewide American Legion sponsored Junior League Baseball Tournament in Welch.

Bluefield District

Robert D. Lamb is a new stores employee.

Raleigh K. Bailey, meter service helper, has resigned.

I. P. Gills, division manager, spoke before the Bluefield Rotary Club recently on "Appalachian's Tie-In With This Area's Growth."

Pulaski District

Paul L. Sowers, Hillsville lineman, attended the Lions Club International convention in Miami and Miami Beach, Fla., as a representative of his club, where he holds the rank of tail twister.

Elizabeth Anne Jones is a new Christiansburg office accounting employee.

Sympathy is extended Zelle Phipps, Galax local accounting, on the death of her father.



Pikeville District

Ed Marrs, retired employee and his wife, who just recovered from an illness, visited the office recently.

Robert Weddle, distribution engineer, and Leon Huffman, R/w agent, were participants in the Sand Green Golf Tournament at the old Country Club near Pikeville.

Hester Ellison, home economist, has resigned.

Ashland District

The commercial department held its annual picnic at Carter Caves. Serving on the picnic committee were Nancie Stone, Mrs. Helen Eaton, Mr. and Mrs. Harry Miller, Mr. and Mrs. Dick Nash, Mr. and Mrs. Bill Schweitzer and Mr. and Mrs. Roscoe



Cabin Creek Plant

Approximately 300 active and retired employees and members of their families attended the annual plant picnic at Beckwith 4-H Camp. Prizes were awarded to: L. E. Farley for oldest retired employee and the longest marriage, A. R. Hoffman for the most years' service, and Hardia Ellis for the newest baby. S. H. Pickens, retired employee who now lives in Florida, was present at the picnic.

Point Pleasant District

Lois Archer, former employee in accounting, has returned to the Ripley office for a short time to replace Mary L. Walker, recovering from an illness.

Kanawha River Plant

J. L. Johnson, maintenance, and R. L. Bias, coal handling, have returned to work after extended illnesses.

Philip Sporn Plant

Roy M. Ruter, maintenance man, a member of the Big Bend Minstrel, recently sang a solo at the Meigs County Fair Variety Show.

New employees include Mary E. Workman, accounting clerk-typist; Robert L. Dennison, test engineer; and Theadore F. Fisher, temporary laborer.

Farie Mae Cole, stenographer, and Roy L. Franklin, safety supervisor, have resigned.

Charles B. Gordon, maintenance man, returned to work after over four months off due to a back strain. Arthur H. Hart, maintenance helper, returned after a month off with a pulled muscle.

Over 500 employees and members of their families attended the annual picnic at Bailey's Lake. Lew Nicoll was chairman of the refreshment committee, Karl Wiles and Harry Davis were in charge of adult entertainment and Roy L. Franklin was in charge

Employees who have resigned include Paul Skaff, electrical engineer; Elizabeth Daugherty and Shirley Paskey, commercial.

Beckley District

About 350 employees and members of their families attended the annual district picnic at Raleigh County 4-H Camp. A. R. Allen, C. A. Crosier, Ned Hawkins and L. H. Williams, retired employees, also attended.

C. A. Lynch, Jr., husband of Peggy Lynch, accounting stenographer, won portable television set at the Beckley Elks Club.

New employees include Mrs. Joyce Ann Kosnoski and Donald Gene Craddock, Beckley accounting; Emory Wayne McGuffin, Oak Hill accounting; and Howard A. Ccttle, Rainelle line section.

Employees resigning include Kathryn Lam Craft, home economist; Joseph O. Carper, groundman; and Shirley Mae Biggs, records clerk.

Mrs. B. H. White, Jr., wife of the Beckley local office manager, is recovering at home after an illness and operation. During her stay at the hospital several blood transfusions were required, and all blood was donated by district employees.

J. E. Hammer, district personnel supervisor, has been appointed chairman of a special committee set up to study and survey Beckley's traffic problem.



Logan Plant

L. C. Houchins, Jr., plant personnel supervisor, has been appointed coordinator of county-wide first aid training programs by the Logan County American Red Cross Chapter.

J. S. McNeely has returned to work after a two-month recuperation from an operation.

Mrs. Anna Lee O'Briant and Mrs. Edith Hainer are new employees.

Cora Lou Straughan, results clerk, has resigned.

Williamson District

Mr. and Mrs. B. H. Bevins, parents of the wife of C. R. Wilson, Jr., district engineer, recently celebrated their 50th wedding anniversary.

Robert L. Shepherd is a new T&D meter section employee.

Dorothy Riggins, personnel, and Mary Lou Justice, engineering, have resigned.

Huntington District

C. M. Dunn, district residential sales supervisor, recently rural addressed the American Business Club on "Electrical Developments." New employees include Deloris Jones and Sally Jean Marcum, billing, and Barbara J. Leitner, accounting.

P. M. Vannoy, district commercial manager, was re-elected chairman of the Logan County Chapter of the American Red Cross. M. C. Porterfield, district manager, is a member of the executive committee.

Mrs. Justice Foglesong, wife of the electrical engineer, has been appointed 4-H Club agent in Boone County.



Fieldale District

Approximately 165 employees and members of their families attended the district picnic at Fieldale Ball Park. Virginia Hancock, Betty Romero and Alonza Beheler handled picnic arrangements and Derwood Merriman was in charge of games.

Roanoke District

New employees include Connie Strickland, Betty Jean Sweeney and Barbara Hinchee, accounting junior clerks; Shirlee Keffer, T&D engineering clerk-typist; and Joe Gates, janitor.

R. A. Oliver, T&D engineering clerk, recently became a member of the Red Cross Gallon Club.

Sympathy is extended W. S. Shanks, station foreman, on the death of his mother, and J. D. Lawrence, division manager, on the death of his father-in-law.

Sympathy is also extended E. L. Munday, Jr., assistant district manager, on the death of his father-in-

Peggy Ann Layman, division engineering clerk-stenographer, recently resigned.

Approximately 450 attended the annual district and division picnic at Lakeside Amusement Park. R. L. Spencer, Mary Lou Wirt, D. W. Henry, Hope Dalton, T. W. Abshire, G. O. Givens and members of the district personnel department handled arrangements.

J. D. Lawrence, division manager, has been appointed chairman of the space sales and concessions committee and a member of the executive committee of the Roanoke Diamond Jubilee.

Lynchburg District

Employees who have recently become members of the American Red Cross Gallon Club include Herbert M. Figg, Jr., engineering aide; Jack D. Harker, electrical engineer; William L. Booth, Jr., electrical engineer; and Robert D. Curtis, lead draftsman.

Russell M. Franklin is the new

Doris Fleenor, former employee and wife of James E. Fleenor, meterman, arranged and enrolled students in ceramics classes. The Washington County line crew erected banners across the town's main entrances.

Welch District

Grundy employees, with their families, enjoyed a picnic at the substation grill honoring Frances Hardy Clark, who has resigned.

John S. DeBusk, Keystone area serviceman, has returned to work after a month's illness due to chronic laryngitis and gastric ulcers.

Margaret Ann Browning, PBX operator, has resigned.

Norma Jean Parker is a new accounting clerk.

Hazard District

Herbert J. Bonta was the starter and score keeper at the Paintsville Golf Tournament.

Marvin Combs, groundman, who was injured recently, is recovering and has left the hospital.

The commercial department held its annual picnic on Buckhorn Creek. On the program were swimming, motor boating, water skiing, and a picnic lunch.

of children's games.

Charleston District

A picnic at Daniel Boone Park and a swimming-dinner party at the Kanawha Country Club were attended by women employees from Charleston, Cabin Creek plant and Kanawha River plant.

Sympathy is extended Wanda Nelson, accounting, on the death of her father, and Harry R. Miller, maintenance mechanic at Kanawha Valley hydro plants, on the death of his father.

New employees are Jack Coleman, groundman, and Helen Fitzwater, Montgomery home economist.

Logan District

The Logan district and plant picnic was held at the Junior Haddad Recreation Center in Madison with about 400 persons attending.

Ray Tomblin, accounting, and Theodore R. Wilburn, T&D, are new employees.

Earl F. Whitman, groundman, has resigned.

office messenger.

Sympathy is extended Joan P. Smith, personnel clerk, on the death of her grandmother.

System

Mrs. Trennie H. Cole, system commercial, who recently resigned, was honored at two recent parties. Mr. and Mrs. B. D. Painter were host at a dinner party and Mrs. Jeanette Kidd, system personnel, gave a baby shower at her home. Hostesses were June Eller, Mrs. Norma Johnson and Marcia Wright of system commercial.

(See System, Page 9)

Service Emblems Go To 28 Veterans



Twenty-eight veterans of our three companies received pins for 20 or more years' service in recent weeks. They are pictured above. FIRST ROW from left, all 30 years: M. R. Atkinson, Logan; A. F. Horne, Welch; J. A. Randall, Kingsport; James T. Duncan, Kingsport; O. F. Sutphin, Ashland; C. O. Roberson, system; and W. M. Johnson, system. SECOND ROW from left: Mary E. Mills, Roanoke, 30 years; J. G. Harvey, Roanoke, 30 years; D. M. Rusmisell, Roanoke, 30 years; L. C. Peck, Jr., Abingdon, 30 years; Ira Smith, Pikeville, 20 years; C. J. Aders, Pikeville, 20 years; and G. E. Tucker,

Beckley, 20 years. THIRD ROW from left, all 20 years: Keith E. Arnold, Philip Sporn plant; A. R. Martin, Roanoke; R. L. Bias, Kanawha River plant; Samuel F. Bowling, Jr., Abingdon; Calvin M. Jackson, Abingdon; Kyle B. Shelton, Bluefield; and G. E. Hill, Bluefield. FOURTH ROW from left, all 20 years: J. C. Wells, Charleston; Frank O. Adams, system; M. Guineline Mitchell, Welch; Willie F. Kates, Huntington; Paul Adams, Logan; Harold Trussell, Logan; and Q. M. Harless, Pulaski.

Vet Retires After 44 Years' Service



Mr. Adams

John Gurney Adams, Kenova plant control operator, retired last month after 44 years, one of the longest

Baker Named To Board Of Directors

F. M. Baker, assistant general manager of Kentucky Power Company, has been elected to its board of directors.

Mr. Baker rose to assistant general manager in July from Pikeville district manager. He joined the company in 1931 at Pikeville as an engineer and became district manager in 1947. A graduate of the Massachusetts Institute of Technology, he is married and has two daughters.

Two Districts Play Host To Organization's Picnic

The Welch and Bluefield districts were recent hosts to the annual Pocahontas Electrical and Mechanical Institute picnic at Claytor Lake.

J. C. Smith, Jr., Welch district commercial manager, was chairman of all activities and A. E. Lemons, Pulaski dealer sales representative, was master of ceremonies. Other employees took an active part in the proceedings. About 180 members of the organization attended the picnic.

Hazard Man Gives Land To Scouts

Employee Named To **Rotary Presidency**

Alva Shepherd has been elected president of the Hillsville Rotary Club. He is Hillsville area working foreman of the Pulaski district.

> Mr. Shepherd rises to the new position in the club from the vice presidency. He is also a Shriner, member of the Eastern Star, and officer in the VFW, Fire Department, and the Isaac Wal-

ton League. He is a member of the Methodist Church.

Office Being Built For Nitro-St. Albans

Page 5

A new building is being constructed to house company facilities serving St. Albans and Nitro customers in the Charleston district.

The building, at 103 Sixth Avenue in St. Albans, will be completed by November. The present Nitro and St. Albans offices will be combined in the new building and a collection agency will be set up in downtown Nitro.

Modern lighting, the heat pump and radiant ceiling cable heat will be featured in the building. The cable heat will be used mainly for demonstration purposes. There will also be an auditorium for company and civic functions and a modern allelectric kitchen.

All accounting and commercial activities for the area will originate from the new office, while service and line crews will continue to operate from the stores and service center at the substation in Nitro. A twoway radio installation will keep the two centers in constant touch with each other.

Explosion Victims **Improve As Repairs Underway At Sporn**

The two men hospitalized as the result of the July 18 explosion at Philip Sporn plant continue to show improvement. The condition of Kenneth E. Carter, coal handler, and Paul E. Huber, conveyor operator, is considered good.

Sollitt Construction Company has cleaned up the debris left at the plant by the explosion and are sealing off the damaged sections.

The cafeteria went back into operation after the damaged section was sealed off. The laboratory was set up in the filter plant area in the basement of the plant and coal analyses are being made by plant personnel at Kyger Creek plant.

Damaged walls and ceilings are being knocked out and preparation for rebuilding is underway.

Foreman Is Named At Glen Lyn Plant

Leonard E. McKenzie was promoted to maintenance foreman at Glen Lyn plant, replacing R. N. Wilkinson who recently retired.

Mr. McKenzie was employed at the plant in August 1942 and had advanced from a laborer to maintenance mechanic A prior to his promotion. He attended school at



Mr. McKenzie

Oakvale and was employed at Hercules Powder Company prior to coming



Mr. Shepherd

Mr. Shepherd joined the company in 1937 and has been working foreman since 1953. He is married

service records in the Huntington district.

Mr. Adams was 15 years old when he went to work for the Camden Interstate Railway Company, Appalachian predecessor, on January 4, 1912. Since that time he has seen a lot of changes at the plant and in the growth of Appalachian. For 23 years he worked in the boiler room and the past 21 years has been in the control room.

A resident of Catlettsburg, Ky., he was born at Mount Savage, Ky. He served two years in the Navy during World War I and runs a radio and television repair shop as a hobby. He also makes cabinets.

Mr. Adams is married and has four children and four grandchildren.



Adrian Combs of Hazard points out the boundary of the piece of land he recently gave to the Kentucky River District of the Boy Scouts for a camp. The station foreman is showing the land to Sam Garnett, Scout executive, and Jimmy Gabbard, Star Scout. Called Black Pine Camp, the land has a nearby lake with a lodge building located on its bank. The lodge has electric cooking facilities and hot and cold running water. Other employees who are lending a hand in developing the camp are A. R. Barber, Morgan Ozee and Earnest Pennington.

and has two sons and a daughter.

Articles By Appalachian Men Appear In 'World'

Several Appalachian employees had articles printed in the August 20 issue of Electrical World.

R. L. Mills, Roanoke power sales, wrote an article for the "Industrial Briefs" section on the use of infrared heat at the Roanoke-Webster Brick Company of Webster, Va. E. H. Braid and J. F. Melton of Charleston were co-authors of "Pre-Assembling Switches Cuts Outage, Labor." And E. W. Meador, M. M. Bostian and R. C. Cruise of Bluefield wrote "Rebuilding Coupling Capacitors Saves,"

company.

An Army veteran of World War II, he is married and has a son. He spends his spare time gardening and woodworking.

Saltville Youth Gets **Eagle Scout Badge**

Scouting's highest rank was recently awarded William Harold De-Bord, 15-year-old son of Ray De-Bord, Saltville meter serviceman of the Pulaski district. His mother pinned his badge on at ceremonies at the Madam Russell Methodist Church.

The outstanding Scout received the God and Country Award in March.

Becomes Symbol Of Electric Po

This year marks the 50th anniversary of the American Gas and Electric Company. It also brings recognition to that dream of a power system envisioned by a small group of men who formed our parent company in 1906.

Could they but look upon the result of their pioneering, they would see an electric system that would be beyond their wildest dreams. They would be amazed at the 72,000 miles of transmission and distribution lines that serve almost 1,300,000 customers in seven states. And the sight of one of today's modern generating plants would overpower them.

Our AGE System is one of the nation's largest electric utility systems. It generates more power than any other private utility in the world. It holds a postition of leadership in the electric industry.

How did all this come about in those 50 years since AGE was founded?

Factors In Progress

Our progress as a group of six electric utility companies whose operations and facilities have been fully integrated into a single major power system is due to many factors. One of the most important has been the devotion of skilled employees.

Some other progress factors are: 'The increase in population of the territory served; the addition of new property; the growing uses of electricity; the continuous promotional efforts; the high standard of dependable and economical electric service that has been made available to everyone through improvements in every phase of power technology.

Looking at each factor briefly gives an indication of the part it played in the march of progress, 1906-1956. Through each of these factors is interwoven the roles of many employees whose contributions raised the standard of progress ever higher.

Population Growth

The growth in population in the area served by AGE is, of course, one of the factors contributing to the increase in number of customers served. Fifty years ago Hazard, for example, was just a village of less than 500 people and Kingsport was little more than a wide expanse of meadow land. Hazard in 1906 had no water system, no paved streets or sidewalks, no electric lights. Today it has 7,000 residents. Kingsport during those years has grown so that 20,000 people live in "the planned industrial city" and another 55,000 outside the city are served by it.

These examples are typical of the many communities served today. As late as 1927 AGE served 900 communities and a population of 3,340,000 compared to today's System that serves 2,300 communities and a population in 7 states of 4,750,000.

Additions Of Property

Expansion of the AGE System also is due to consolidation of many scattered utilities serving only local areas into an integrated, interconnected system. Kentucky became a part of AGE in 1922, Kingsport was acquired in 1925, and some of the properties acquired before 1926 were combined in that year to form Appalachian Electric Power Company. The Kingsport, Kentucky and Appalachian companies owe much to those pioneering prede-cessors that have blended into today's companies.

In addition to gaining many customers from coal companies that had owned their own distribution systems

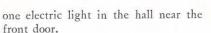


Then and now in plants is vividly illustrated by the Niagara hydro plant at left and Appalachian's newest plant, Kanawha River. Niagara hydro was built 50 years ago, in 1906, by the Roanoke Water Power Company and pur-chased two years later by the Roanoke Railway and Electric Company, an Appalachian predecessor. Kanawha River plant has two 215,000 kw units, one which went into ser-

which they sold to our companies as the uses of electricity grew, recent examples of additions to territory in Appalachian are Ravenswood and Flat Top Power Company. Point Pleasant district gained 500 Ravenswood customers in February of this year when it acquired the town's facilities and Welch district last month added over 600 customers when the Flat Top Power Company, operated as an AGE subsidiary for two years, became a part of Appalachian.

Uses Of Electricity

It's often too easy to overlook the fact that most electric appliances in use today were only developed and perfected in the last 20 years. What were the uses of electricity back in 1906? About the only real home use was for lighting. As electricity was available in most places only at night, many houses had oil lamps and just



And what electric lights! The electric light of that era was rated in candlepower-usually 16 or 32. The 32candlepower lamp gave out about the same amount of light as today's 25watt bulb. The first appliance that made any practical use of electricity in the daylight hours was the electric iron.

An indication of the use of electricity in 1906 comes from a survey conducted in Charleston by the Kanawha Water and Light Company. Their 1906 survey revealed the company was furnishing electricity to 1,759 incandescent lights, 29 motors, 7 electric pianos, 10 elevators, 11 electric signs, 21 arcs and 1 massage machine.

Even as late as 1930 there were only 19 electrical appliances available for domestic purposes. Now the list has climbed to over 75 appliances with some new or novel use of electricity being introduced almost daily.

The uses of electricity also increased in business, on the farm and in industry. Early industrial application of electricity in most cities was primarily for street railway systems, actually the reason why many electric utilities were formed. This transportation and street lighting business in the city was the major business with residential service almost a sideline.

Of course, in much of the territory served by Kentucky and by Appalachian the use of electricity in coal mine operation was the forerunner of development in the area. Extension to homes in the vicinity of the mines gradually followed, many times by the coal companies which had their own distribution systems.

The factories in the first decade after the turn of the century also made little use of electricity. Almost all factory work was done by hand with the aid of only a few power tools driven by steam engines. Compare that with today's factory where electric power does more than 95% of the physical work. Not only has this meant less physical labor, but higher productivity, more and better products, more jobs, higher wages and the highest standard of living ever enjoyed in the world.

one electric light in the hall near the Our step-down rates have helped promote greater use as have the number of rate reductions we have given through the years. So these promotional efforts played their part. .

ay

vice in mid-1953 and the other in late 1953. The plant

was rated the most efficient in operation in the country in

1953 and 1954 and ranked second only to OVEC's Kyger

97 per cent of AGE System generation is coal-fired steam.

Creek plant last year. While in the early days many

little plants used water as a source of generation,

AGE plants use 10-million tons of coal a year.

Making Service Available

Of course, it's obvious that none of these strides could have been made if service had not been available. Our policy of taking electric service to even the remotest areas has brought the full benefits of electric living to thousands and has been most instrumental in bringing about our gains in customers.

Today in the AGE System every home has electric service available. What has made this statement possible? It follows as a result of a mammoth rural line building program that is virtually complete.

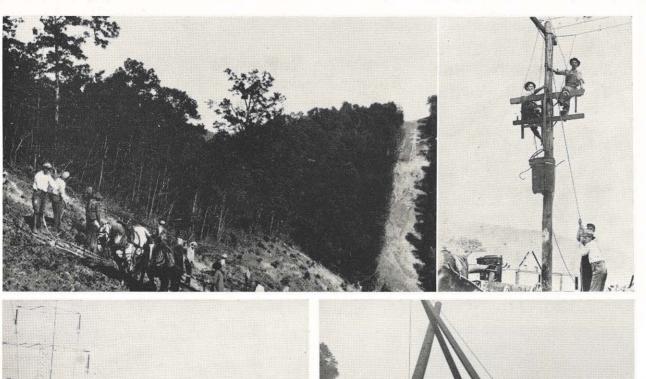
Keeping It Dependable

If all these thousands upon thousands of customers were to get electric service, then our companies had to have the facilities to furnish them. And that service had to be dependable. The efforts to make electricity as dependable as science and human skill can make it have come down through the years as a legacy of modern operations.

What we accept as matter-of-fact in today's power company operations were yesterday's engineering feats. They ranged through the whole field from generation through the customer's meter.

Generation Advances

Going back 50 years in the story of generation in our area brings out such names as Reusens hydro built near Lynchburg and Kenova plant built near Huntington, both in 1904. Poanoke had two plants built in 190 he steam plant and Niagara hydro. Kingsport plant dates from 1911 while the two big hydros of that day went into service in 1912 as Buck and Byllesby plants supplied the power for Appalachian Power Company that was formed the year before.





Constructing lines and providing service that we accept as commonplace today meant real hardship in the old days. At top left a transmission line crew is shown building the Switchback---Logan line around 1926. Right of way had to be cleared by hand and transportation was by mules or horses. Stringing the lines meant hard manual labor. At top right a Kanawha Light and Power Company line crew of Charleston pulls a transformer up a pole arcund 1910. Distribution lines like this one also meant long hours of hard work. Transportation, as shown in the picture, was by horse and wagon. At the bottom, transmission and distribution facilities are being constructed by modern methods with modern machinery. At left a tension machine is used to string the second circuit of the 330 kv Sporn-Kanawha line. At right a Roanoke line crew uses the modern hydraulic pole derrick line truck to set a pole.

Promoting Its Use

So it was that part of the increased use of electricity in all phases of living came with the invention and development of electric appliances and equipment. But along with this went our companies' promotional programs, aimed at showing customers how and why they could benefit from this equipment.

Then, too, rates had to be promotional to expect the customer to use a new piece of electrical equipment.

Then the major plants began to come more rapidly: Cabin Creek, 1914; Logan, 1915; Hazard, 1917; Glen Lyn, 1919. After Claytor hydro was built in 1939 the war came to halt construction. First of the "big moderns" was completed in 1952 as Philip Sporn plant with 600,000 kw capacity overshadowed all other plants in the area. Kanawha River was completed in 1953 with 430,000 kw capacity and the 225,000 kw unit underway at Glen Lyn will raise that plant's capacity to 395,000 kw early next year. Clinch River plant's 450,000 kw capacity will further add to generating facilities when completed in 1958.

These are just a few of the major additions on the AGE System. Similar

wer Progress

generation growth has been common to other AGE companies.

The "Then" And "Now"

Today's power plant technology can be appreciated in light of early power plant capacity. It wasn't unusual for a plant to be built back in those days with 1,500 kw capacity.

Compare that 1,500 kw capacity with the announcement just last month of scheduled construction of the first 450,000 kw unit. In addition to the contribution by manufacturers, our System has been instrumental in developing many power plant features. The developmental Philo plant unit was credited with helping the 450,-000 kw unit design.

ch expansion is related to the steed growth in demand on our system. It is in strong contrast to an unnouncement by an early Appalachian predecessor that said it was building a dam in 1914 that would place "the company in position to furnish all the day current and electric power that Abingdon will need for the next 100 years."

Routine plant maintenance and even inplanned interruptions today don't cause a loss of load that was once so common to our companies. For example, a Kingsport veteran recalls that in 1916 "when we hooked up to the new dye plant we thought we were making lots of electricity at Kingsport plant. We tried to pull the load with the capacity we had and as a result burned out the boiler and the plant was down for three or four weeks."

Along with the construction of new plants and the addition of units at the historical plants like Glen Lyn, Cabin Creek and Logan has gone the retirement of many of the old pioneer plants on our System. Their limited capacity, old equipment and less efficiency relegated them to landmarks.

Efficient Generation

Many of the early steam plants took ilmost $5\frac{1}{2}$ pounds of coal to generate one kilowatthour. Our System's record for efficient generating facilities is well known in the nation. Four of the System's 12 major power plants today are among the top seven most efficient generating stations in the world. For five of the past six years an AGE plant has been first. The best of these plants can produce a kilowatthour from less than $\frac{3}{4}$ of a pound of coal.

Planning Capacity

Is this concern with capacity a recent development? Soon after our three companies in the Southern Properties had become a part of AGE, the ing statement was made in 1927 by George N. Tidd, then AGE president:

"Only by constant vigilance, by constant study, by constant planning, can we always be ready with power at ow cost."

President Philip Sporn's announce-

ing that the total load of Appalachian, Kentucky and Kingsport in 1926 could have been carried by one of our modern plant's big units. In other words, the unit of today could carry the entire load of 30 years ago. That's why planning is so vital to our business.

Power Resources

Another indication of that growth on an AGE System level is noted in the power resources of 1927 and today. The AGE System had power resources, installed or under construction, of 1,541,000 horsepower in 1927. Today the AGE System has a $7\frac{2}{3}$ -million horsepower in service or under construction, representing a total capability of 5,700,000 kilowatts.

All plants and power load centers are tied together by over 9,000 miles of high-voltage transmission lines. Each plant thus supports, and in turn is supported by, the others. Three divisional dispatching points on the System work closely with a central coordinating group and direct the generation of flow of power throughout the network. Power is sent without interruption over the most economical route.

Transmitting Power

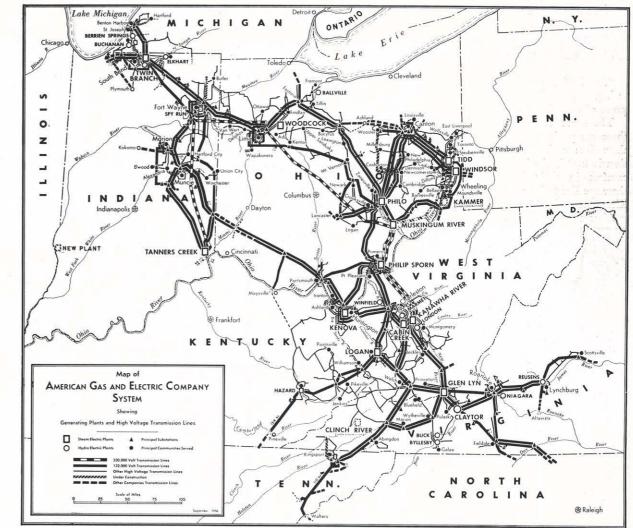
Getting power from the plants to the area of use has always presented a challenge. Consider such typical construction difficulties as those in building the 88,000-volt line between Logan and Sprigg plants in 1920. All traveling was done on horseback and all material was transported by ox teams, which were hooked to wooden sleds. Creek beds were used for roads.

Transmission came a long way in 50 years. From those early efforts the lower voltages gave way to the 132,-000-voltage network which was pioneered in 1916 on the AGE System and became the standard throughout America.

And again as the result of research and development, the nation's highest voltage lines, carrying 330,000 volts, were put in service in 1953 on our System. These lines carry five times the amount of power previously carried and are becoming the backbone of transmission. The first 330,000volt interconnection with another company outside our AGE System was recently announced with the Commonwealth Edison System. And our development of special tools and techniques to work these and other lines "hot" is recognized as a major achievement.

One of the biggest single achievements was to reduce the time of outages at transmission stations. With AGE pioneering carrier-current relaying in 1935 and circuit breakers in the late 30's, line faults were usually cleared in the wink of an eye. This high-speed reclosing of breakers means stations are rarely out of service.

Most of today's stations are automatic, even taking themselves out of service until a line fault is cleared. In the old days the faults often would burn out, the station. The time needed to get a station back in service after a serious outage has been cut 95 per cent through the years.



repairs hard work and lack of transportation and communication facilities like those in service today made repairs slow work.

Today's alternate feeds and interconnections mean the load of a faulty line is often picked up on another line. Engineering achievements like circuit breakers and protective devices like lightning arresters have helped prevent much of the old trouble.

Measuring Electricity

It was not at all uncommon back in the days when AGE was founded to find power companies charging a flat rate for electric service. About 1911 in Pulaski lights were on a flat rate depending upon the number and type of lights. The Wytheville customer could take either the flat rate or the meter rate. At the flat rate one 16 candlepower light cost 65 cents and the meter rate was 10 cents per kilowatthour.

Logan and Welch residents paid about 50 cents per month for each 16 candlepower lamp that usually could burn only from sundown.

So the pattern went. When AGE acquired our companies most meters were 5 ampere, 110 volts two wire, and with a full load of 550 watts. Today's meter is 100 amperes, 240 volts three wires, and with a full load of 24,000 watts.

Meter testing in the old days was done in the shop with banks of lamps and stop watches. Today's meter is checked more accurately with a photo electric cell.

Of course, meters have been improved through the years. Not only do they give a more accurate record but also enable companies to locate the meter outside the house instead of in the attic as was so common in the old days.



In these two New York buildings, known as the Hudson Terminal, are located most of the offices of the AGE Service Corporation, whose 925 employees serve the six operating companies of AGE. The buildings are located at 30 and 50 Church Street, a block from Broadway. At 30 Church AGE offices are located on the 3rd, 4th, 6th and 15th-19th floors. The lobby and executive offices are on the 18th floor. Offices at 50 Church are located on the 4th, 5th and 17th floors. The Service Corporation also has offices in 6 Church and 55 Dey, another part of the Hudson Terminal building. More Service Corporation employees are located in the system production coordination offices in Columbus, Ohio, and at the chemical laboratory at Huntington.

or less than $2\frac{1}{2}$ cents per kilowatthour. Bear in mind that this tremendous reduction was achieved in an era when the cost of practically everythe prime examples of "Fifty Years of Progress in Electric Power."

So in those 50 years since our parent company was founded, elec-

ment early this year of the \$700-million expansion program for AGE during 1956-60 said in part:

"Our new program—larger than nything we have ever undertaken before—underlines in terms of concrete action our confidence in the potential growth of the region in which we operate. All of the studies that we have made indicate that, as a result of natural growth and of continuing efforts in area development, the utilization of electric power on our system will increase four-fold over the next 20 years. This building program, therefore, is but the first step in quadrupling our facilities to meet that demand in time."

Anticipating demand for electric service can be appreciated by consider-

Distribution Advances

An indication of the tremendous use of electric power today is the fact that many of yesteryear's transmission voltages have become today's distribution voltages. For example, conversion is underway today in many districts from 4,000 to 12,000 volts for distribution.

Outages were frequent in the old days because of equipment and faulty lines. Poor testing equipment made

Economy Important

All these operating methods and engineering contributions in all phases of our business have led to making our service dependable. And they have made valuable contributions to making it economical.

That price of 10 cents per kilowatthour in 1906 was common to many cities. Today, the cost to the average residential customer served by the sixcompany AGE System is less than a quarter of what it was 50 years agothing else has skyrocketed.

More efficient methods of producing and delivering electricity, together with its greater use by everyone, has resulted in lowering the cost by more than 75%. This is one of tricity has grown from very limited use by very few people to today's role where it is vital to every phase of living. Those years of progress have brought plentiful, dependable, economical electric service.



THE ILLUMINATOR

Know Any? 136 Employees Enjoy ALL-Electric Comfort

"Proof of the pudding is in the eating." And it follows that the proof of electric heat is in the using.

There are 136 employees in our three companies who are proving to themselves and their families that electric heat is the best way to living comfort in their homes. Four of these are Kentucky employees, 20 are Kingsport and 112 are Appalachian. Almost all of these have installed



W. G. Poole, Jr., Kingsport air conditioning engineer, is one of nine employees in our three companies who have heat pumps in their homes. He has removed the front of his completely automatic heat pump to show how the year-round air conditioning unit works.

Abingdon District Abingaon District Roy Gregory Warren L. Smythers James B. White James M. Cole Lyman C. Valley Eugene Rasnake Isaac G. Coley Thomas G. Brabson **Bluefield District** John B. Kahle Arch Phlegar Troy W. Testerman Samuel E. Porter Jarnes R. Bailey Earl Sprinkle Robert S. Hylton Arnold Crotty Pulaski District Pulaski District Clinton N. Robinson James J. Duncan Ray E. Lester Louis A. Sharpe Charles H. Clayburn James L. Earles G. F. Shrader, Jr. A. D. Clark Marcus M. Stambaugh Christie Hurst Lanzy R. Mabe Robert G. Doss Gleason K. Smythers Clark W. Alley W. S. Johnson Walch District Welch District Frank E. Wells William T. Collins, Jr. Omer L. Robinson **Glen Lyn Plant** Elbert Jennings Dave E. Kettlewell Dale E. Brown System-Bluefield John Scott Leonard Thomas **Beckley District**

A. W. Bonds J. E. Vines John Gates Paul Pauley **Charleston District** Paul Skaff Lyle Heldreth J. E. Bedinger Fred Helm

electric heat in their homes in the last three years-showing the rapidly growing popularity of modern heating for modern living.

Ceiling radiant cable heat has proved the most popular of the six types of electric heat with unit heaters, wall mounted, second. Nine employees have heat pumps.

If you're planning to build or remodel, then these employees can tell you from experience the advantages of electric heat over other types of fuel. Your commercial department wants to help you in any way: planning, estimating costs, advising, and so on.

Remember, employees may now finance resistance home heating with the company. The employee selects terms he desires for any period up to five years. The finance charge will be three percent per year. These items can be financed: cost of electric equipment, cost of installation, cost of necessary insulation, and storm windows and doors if needed. A plan for financing heat pumps is also available to employees.

Employees of our three companies who are Living Better Electrically are listed below:

ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat

unit heaters, wall mounted unit heaters, wall mounted

unit heaters, wall mounted

ceiling radiant cable heat ceiling radiant cable heat unit heaters, wall mounted ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat

ceiling radiant cable heat

ceiling radiant cable heat

celling radiant panels ceiling radiant panels heat pump baseboard heat unit heaters, wall mounted baseboard heat ceiling radiant pagels

radiant glass panel heaters

unit heaters, wall mounted

ceiling radiant cable heat unit heaters, wall mounted baseboard heat

heat pump ceiling radiant cable heat ceiling radiant cable heat

ceiling radiant cable heat

ceiling radiant cable heat

ceiling radiant panels

baseboard heat

baseboard heat

baseboard heat

baseboard heat

ceiling radiant panels

heaters, wall mounted

Bluefield Division

meter serviceman engineeering aide district commercial manager power sales engineer area supervisor groundman area sales representative area sales representative heating & builder sales rep. area sales representative area supervisor instrument man

lineman head meter clerk meter serviceman draftsman heating & builder sales rep. record supervisor area sales representative area supervisor ignitar janito meter reader meter serviceman district superintendent meterman lineman meter reader

working foreman senior T&D clerk meter serviceman retired working foreman local office supervisor

local office manager shift supervisor utility operator

electrical engineer electrical engineer

Charleston Division

truck driver-groundman line foreman commercial sales rep. records supervisor heat pump ceiling radiant cable heat baseboard heat unit heaters, wall mounted

electrical engineer ceiling radiant cable heat ceiling radiant cable heat radiant glass panel heaters ceiling radiant cable heat station foreman div. heating sales engineer power sales engineer

Two of the most popular types of electric heat are shown in these employees' homes. LEFT: R. B. Weddle, Pikeville distribution engineer, adjusts the thermostat for his ceiling radiant cable heat. The cables are hidden in the ceiling -the only part of the heating system that shows is this thermostat. RIGHT: Paul C. Davis, Charleston engineering student at left, listens as Joe Bedinger points out the advantages of radiant glass panel heaters. Mr. Bedinger is Charleston division heating sales engineer.

Point Pleasant District

Charles Jewell Wandell Pancake James L. Darby Cornell Fowler J. R. Hoffman Raleigh Roush Peter Steenbergen, Jr. **Cabin Creek Plant** Carl B. Burner Kanawha River Plant Charles Allinder F. H. Mannon W. W. McColgan Philip Sporn Plant Marshall Fowler Nelson Roush Ira Mulford Elroy Kaylor Clayton Athey Jack Needs Willis Dudding Willis Dudding James Ball

Huntington District Carl Elkins N. B. Kean William Rowley C. M. Dunn Logan District

T. J. Fleshman Paul Gosney Williamson District William Stratton Harold Akers Joe Hatfield

Fieldale District

Alvin T. Hundley James L. Ingram Lawrence Hawks H. Earl Bullard E. Gibson D. Duckworth Ammon Sears

Lynchburg District D. C. Kennedy R. L. Hatch

Roanoke District A. J. Good Troy E. Goad William A. Mills B. Thomas Bryant S. S. Snidow I. B. Peters A. R. Martin A. R. Martin J. M. Peck, Jr. L. M. Absher J. A. Dunham H. P. Laughon James E. Jones

System System Guy F. Cromer Roy F. Howard Benjamin Fink Willa B. Tyree Lois C. Hart J. I. Gilbert Jack A. Palmer W. Stuart Mattox C. L. Robison Guy Pendleton Ed C. Whatley I. E. Conner Doris Wilhelm Virainia Shaver Virginia Shaver W. S. Wood, Jr. R. G. Taylor

heat pump unit heaters, wall mounted ceiling radiant cable heat ceiling radiant cable heat unit heaters, wall mounted unit heaters, wall mounted heat pump area serviceman draftsman agricultural sales engineer lineman area serviceman appliance serviceman district engineer

plant personnel supervisor

plant office supervisor control operator results engineer

master maintenance mar master maintenance man auxiliary equipment operator maintenance man master maintenance man helper control operator

Huntington Division

truck driver-groundman

line and station supervisor

area supervisor

meter serviceman lineman

maintenance man

area sales representative district superintendent AGE chemist dist. res. and rural sales supv. ceiling radiant cable heat baseboard heat unit heaters, wall mounted baseboard heat

baseboard heat

ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat

radiant glass panel heaters unit heaters, wall mounted ceiling radiant cable heat radiant class panel heaters

radiant glass panel heaters unit heaters, wall mounted unit heaters, wall mounted unit heaters, wall mounted unit heaters, wall mounted

baseboard heat baseboard heat

ceiling radiant cable heat unit heaters, wall mounted ceiling radiant cable heat

ceiling radiant cable heat ceiling radiant cable heat radiant glass panel heaters ceiling radiant cable heat

ceiling radiant cable heat

radiant glass panel heaters ceiling radiant cable heat

heat pump ceiling radinat cable heat

radiant glass panel heaters ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat

ceiling radiant cable heat

ceiling radiant cable heat

ceiling radiant cable heat

ceiling radiant cable heat

ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat heat pump

radiant glass panel heaters ceiling radiant cable heat ceiling radiant panels ceiling radiant cable heat radiant glass panel heaters ceiling radiant cable heat ceiling radiant cable heat baseboard heat

ceiling radiant cable heat ceiling radiant cable heat

radiant glass panel heaters ceiling radiant cable heat radiant glass panel heaters ceiling radiant cable heat ceiling radiant cable heat

baseboard heat ceiling radiant cable heat

Roanoke Division

storeroom clerk storeroom clerk meterman lineman surveyor R/w department supervisor meter supervisor area supervisor

district manager hydro superviso

lineman meter serviceman meter service helper auto repairman district personnel supervisor area supervisor area sales representative general serviceman general serviceman div. heating sales engineer div. res.—rural sales superv div. area development rep.

draftsman draftsman draftsman system analyst system analyst secretarial-stenographer system R/w agent editor head retirement section tax & statistical supervisor system meter engineer system meter engineer system control wireman system station man accounting jr. clerk voucher analysis clerk electrical engineer payroll audit and procedures

Kentucky Power Company

Flash! Eight More Go ALL-Electric

In addition to the 136 employees listed at left, eight others were reported after our deadline to have installed electric heat in their homes.

This is a good indication of the way employees and customers of our three companies are switching over to truly ALL-Electric Living. The eight additions are listed below:

Bluefield-F. B. Richmond, division commercial clerk; John Scott, groundman; Robert Simmons, T&D clerk; and J. W. Whitehurst, electrical engineer, all with ceiling radiant cable heat.

Pulaski-K. M. Sharp, station man, baseboard heat.

Welch-Alonza Hardy, Jr., meter serviceman, baseboard heat.

Glen Lyn plant-G. R. Whitt, auxiliary equipment operator, ceiling radiant cable heat.

Ashland-Ray Adkins, ceiling radiant cable heat.

E. E. White Retires At Glen Lyn Plant



Mr. White

Everett Edward White, Glen Lyn plant maintenance man, retired August 31 after 20 years of service. Employees presented him a 23-jewel wrist watch upon retirement.

Mr. White had worked for the company on two previous occasions but began his continuous service in June 1936 as a laborer. He worked in the operating department for six years and in the maintenance department for 14 years.

He lives at Elgood with his wif and enjoys farming. He said, "1can now divide my time between farming and hunting which is my favorite hobby."

Employees Play Part In



These three Roanoke meter department employees pooled their efforts to install electric ceiling cable heat in their new homes. Tommy Bryant, Troy Goad and Billy Mills, left to right, are holding complete heating equipment of thermostats, cables and stapling machine. Each installation was complete in a few hours. All three homes have six rooms.

Ashland District

Mrs. Helen Eaton Roy L. Sallee Clayton Wilburn . Sallee

Pikeville District Robert B. Weddle

William G. Poole, Jr. Arthur W. Stair J. W. Bolton S. H. Chandler, Jr. E. A. Clay Joan Clayman William L. Collins Mae B. Deakins Paul R. Dunn

James E. Ford Clyde E. Green Tipton Hatche Charles E. Holyoke Philip S. Nelson James W. Proffitt John A. Randall Floyd S. Russell M. C. Simpson, Jr.

Rufus É. Wells Mack D. Williams

home service supervisor gen. heating sales eng. meter reader

distribution engineer

Kingsport Utilities, Inc.

air conditioning engineer power sales engineer assistant meter supervisor electrical engineer meterman cashier meter service helper merch. order & billing clk. meterman meterman

general serviceman general serviceman civil engineer groundman district superv. engineer appliance serviceman general serviceman meter supervisor line foreman commercial manager

station man appliance serviceman ceiling radiant cable heat ceiling radiant cable hear ceiling radiant cable heat

ceiling radiant cable heat

heat pump heat pump, baseboard heat unit heaters, wall mounted unit heaters, wall mounted ceiling radiant cable heat unit heaters wall mounted unit heaters, wall mounted ceiling radiant cable heat, ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat portable heaters ceiling radiant cable heat ceiling radiant cable heat ceiling radiant cable heat unit heaters, wall mounted unit heaters, wall mounted unit heaters, wall mounted unit heaters, wall mounted ceiling radiant cable heat, baseboard heat baseboard heat

portable heaters unit heaters, wall mounted

Defense Tes St. Albans

There was a mass evacuation of employees at the St. Albans office recently, but it was only for a short while.

It was all a part of the nationwide "Operation Alert" civil defense tests, and St. Albans of the Charleston district had been chosen for an emergency evacuation of the population. Company employees on the two-way radio system were asked to omit call letters and exact locations as a part of the "Conelrad" test. Volunteer workers in the nerve center of the alert in South Charleston included six employees: Jack Walters, Chester Spradling, T. J. O'Connor, Paul Davis, R. O. Walker and F. R. Frishette.



Appalachian Electric Power Company

Abingdon District—30 YEARS: L. C. PECK, JR., record supervisor; 20 YEARS: S. F. BOWLING, JR., meterman; C. M. JACKSON, area supervisor.

Beckley District—20 YEARS: G. E. TUCKER, truck drivergroundman; 15 YEARS: H. H. WILLS, meter reader; 10 YEARS: W. F. EPLING, contract entry and final bill clerk.

Bluefield District—20 YEARS: G. E. HILL, auto repairman; KYLE B. SHELTON, engineering aide; 10 YEARS: ROBERT JESSE GIL-PIN, draftsman.

Cabin Creek Plant—15 YEARS: W. R. BROOKS, coal and ash equipment operator; 5 YEARS: C. B. BURNER, plant personnel supervisor.

Charleston District — 35 YEARS: T. J. O'CONNOR, division station engineer; 20 YEARS: JOSEPH C. WELLS, line inspector; 10 YEARS: CLAUDE B. SMITH, lineman; 5 YEARS: MARK E. YOUNG, station man helper; CLARENCE H. ELSWICK, auto repairman helper; ADDIE JO SNYDER, cashier clerk, Clendenin; JAMES C. KING, groundman; J. A. DUFFIELD, JR., division radio engineer.

Fieldale District — 10 YEARS: JAMES DAVID PUCKETT, PBX operator; 5 YEARS: VIRGINIA D. MULLINS, clerk-stenographer.

Glen Lyn Plant—15 YEARS: E. W. GANOE, auxiliary equipment operator; H. O. BROOK-MAN, maintenance man.

Huntington District — 20 YEARS: WILLIE F. KATES, head j a n i tor; 15 YEARS: L. A. MEADOR, head meter reader; CARL M. DUNN, district residential and rural sales supervisor; 10 YEARS: MARGARET F. DIAL, addressograph operator; 5 YEARS: CHAPMAN RUTLEDGE, JR., meter serviceman.

Kanawha River Plant — 20 YEARS: R. L. BIAS, tractor operator; 15 YEARS: A. R. SCHLAE-GEL, maintenance man.

Logan District — 30 YEARS: M. R. ATKINSON, administrative assistant; 20 YEARS: HAROLD TRUSSELL, instrument man; PAUL ADAMS, station man; 10 YEARS: T. J. HANLEY, head meter clerk.

Lynchburg District — 15 YEARS: W. L. BOOTH, JR., elecJ. G. HARVEY, division personnel supervisor; 20 YEARS: A. R. MAR-TIN, area supervisor, Rocky Mount; 10 YEARS: K. D. COX, engineering aide; H. F. CARTER, lineman; 5 YEARS: S. E. SMITH, groundman; DOROTHY B. MASON, contract clerk; MARY ANN GRISSO, clerk-stenographer, personnel.

Philip Sporn Plant--20 YEARS: KEITH E. ARNOLD, first assistant shift operating engineer; 5 YEARS: ELROY E. KAYLOR, maintenance man; GEORGE A. BURNS, maintenance man.

System-40 YEARS: G. L. FURR, vice president and general manager; 30 YEARS: W. M. JOHNSON, supervisor of property valuation; C. O. ROBERSON, administrative assistant; 20 YEARS: F. O. ADAMS, system station operator, Danville; 10 YEARS: DORIS E. CARTER, peg bar calculating machine operator clerk; H. A. HOWELL, classification clerk; R. L. OVERBAY, system station operator, Saltville; 5 YEARS: CHARLOTTE KEY, accounting machine operator clerk; JEWELL E. WOOLRIDGE, stenographer; J. A. GAKING, maintenance foreman, Radford Arsenal; J. E. CAIN, boiler operator, Radford Arsenal.

Welch District—30 YEARS: A. F. HORNE, district manager; 20 YEARS: M. GUINELINE MITCHELL, general clerk; 10 YEARS: W. C. SEXTON, station man; PERRY HATMAKER, dealer sales representative.

Williamson District — 5 YEARS: ROLAND STATEN, groundman.

Kentucky Power Company

Ashland District — 30 YEARS: O. F. SUTPHIN; 15 YEARS: HELEN D. DAVIS; 10 YEARS: CHARLES D. BROUGHTON; 5 YEARS: MARTHA HANKINS; WILLIAM T. McKINNEY.

Hazard District — 15 YEARS: GRAYSON VANOVER, station man; HARGIS CAUDILL, R/w agent; 10 YEARS: WESLEY YONTS, lineman; WALLACE CORNETT, engineering aide; H. F. CHARLES, record supervisor.

Pikeville District — 20 YEARS: IRA SMITH, lineman; C. J. ADERS, station man; 15 YEARS: L. M. NEWSOM, records supervisor; 10 YEARS: JARRETT WOOD, power sales engineer; 5 YEARS: W. W. ZOELLERS, distribution engineer.

Kingsport Utilities, Inc.

Two Write Articles For Operating Notes



Mr. McDermott Mr. Bailey

A Virginian and a West Virginian contributed articles to the August issue of AGE's *Monthly Operating Notes*.

J. P. McDermott, Lynchburg working foreman in the garage, wrote "Tools Made Readily Accessible For Use Or Inspection." He describes cabinets built last year for storage of tools used in the garage. He said these cabinets have made keeping track of the tools easy—none have been lost since installation of the cabinets—and the tools are easily accessible for use or for repair checks.

"An Aid To Servicing Anti-Friction Bearings" was written by O. S. Bailey, hydro maintenance man of the Kanawha Valley Power Company in the Charleston district. He describes a portable stand developed to hold anti-friction bearings for cleaning and repacking with lubricant.

New Unit . . .

(Continued from Page 1)

of the 450,000-kw unit, Mr. Sporn said, "This unit is the result of design and construction experience obtained from the world's first supercritical pressure unit now nearing completion at Ohio Power's Philo plant, which is scheduled for operation in the fall. The developmental Philo unit will operate at the extreme end of the possible combination of steam pressures and temperatures, that is at 4,500 pounds per square inch and a temperature of 1,100 degrees F.

"These extremes in pressure and temperature have been carried out successfully in the design of the Philo unit, but they have been reduced to a more commerciallyacceptable basis on the new unit. Because of the difficulties in obtaining economically the necessary alloys for extremely high temperatures, the temperature for the new unit has been reduced to 1,050 degrees F. And, since pressure and temperature go hand-in-hand for maximum economy in power generation, the pressure of the new unit has been established at 3,500 p.s.i.-well above the critical level which starts at 3,206 p.s.i."

Easy To Remember

They'll remember the company picnic in Williamson for a long time.

Just as the July 28 picnic was hitting its peak, high winds and rain broke things up. While the rest of the employees and guests hurried to a nearby shelter, line crewmen and metermen rushed to the service building. Before they could get there 35 trouble calls had come in. Later the trouble was termed "one of the worst storms Williamson has ever seen," and employees worked 24 hours restoring service.

Thirteen trees had fallen into lines, including one transmission line. There were 16 broken services. Replaced were 19 transformer fuses, 10 sectionalizing fuses, four spans of broken secondary, 4 kv line conductors, three sectionalizing cutouts and two spans of threephase.

Retired Ashland Veteran Dies



Mr. Bousman

Silas T. Bousman, 69, retired Ashland district distribution records clerk, died July 22 in an Ashland hospital after a short illness.

Mr. Bousman was employed by the company in January 1939 and served as clerk, special clerk and distribution records clerk until his retirement in December 1951. After his retirement he did accounting work for several small local firms.

Mr. Bousman is survived by his wife, Nanie, and his daughter, Nancie. Funeral services were held in Ashland July 24.

Julius Hall, Jr. Of System Retires



Mr. Hall

Julius Hall, Jr., retired September 1 after 31 years' service. Commercial manager of Appalachian until September 1, 1955, he has been serving the company in an advisory capacity the past year.

A native of Annapolis, Md., Mr. Hall is a graduate of the U. S. Naval Academy. He was employed in Bluefield as an engineer in 1925. In 1927 he was assigned to the commercial department.

He was power sales engineer and district commercial manager before being promoted in 1935 to Bluefield division commercial manager. He transferred to Roanoke in 1947 as Appalachian commercial manager.

Looking back on his years of service, he recalls that one of his early jobs was making a study of water heaters that led to the first water heater provision in the tariff in 1930. He pointed out that today's all-electric home that includes electric heating and cooling is a far cry from the all-electric home of 1925.

all-electric home of 1925. "Back then," he said, "a modern home would have lights, washing machine, iron, percolator and toaster. The range was still not perfected and the refrigerator was just starting. A few people were experimenting with side-arm water heaters, but the water heater as we know it today didn't exist. Neither the water heater equipment nor the rate promised any inducement for the customer to buy one."

Mr. Hall is married and has two children. A member of Christ Episcopal Church, he will make his home in Roanoke. Saying he had "no long range plans," he plans this month to attend the 45th reunion of the Class of 1911 at Annapolis and visit his brother-in-law, Vice Adm. Harry W. Hill, Ret., who is former superintendent of the Naval Academy.

Grading Half Complete For Clinch River

trical engineer; E. R. DRISKILL, dealer sales representative; 10 YEARS: JANE D. ARMISTEAD, merchandise order and billing clerk; 5 YEARS: J. N. BELL, JR., car washer.

Pulaski District — 20 YEARS: Q. M. HARLESS, R/w agent; 15 YEARS: BILLIE G. FRAZIER, cashier; HELEN L. VAUGHT, contract entry and final bill clerk; ZELLE PHIPPS, contract entry and final bill clerk; 10 YEARS: R. H. CORNETT, T&D clerk.

Roanoke District— 30 YEARS: D. M. RUSMISELL, heating and builder sales representative; MARY *E.* MILLS, utility clerk, accounting; 30 YEARS: J. T. DUNCAN, local office manager; J. A. RAN-

DALL, meter supervisor; 15 YEARS. ANDY SKELTON, groundman; 5 YEARS: T. C. DORTON, lineman; W. L. COLLINS, meter service helper.

System . . .

(Continued from Page 4)

Donna M. Young has resigned and Jo Ann McNeer is a new employee of system accounting.

Sympathy is extended H. C. Williams, Charleston section of system station, on the death of his mother, and A. B. Purdy, Charleston section of system station, on the death of his father.



About half of the initial grading for Appalachian's new 450,000 kw Clinch River plant has been completed. Shown in the picture is the plant site, where 314,150 cubic yards of dirt and 1,700 cubic yards of rock have been excavated. Cleared and grubbed have been 30 acres of land, while an area for cinder disposal is now being cleared and grubbed. The Norfolk and Western Railway has built a railroad siding and footings are being dug for construction buildings. At present there are 83 men on the job, most of them employees of Green Construction Company, doing the excavating, and Sollitt Construction Company, building the plant.

Sixteen Couples Married In Recent Weeks



Brides and grooms among employees and their families married in recent weeks are pictured above. TOP ROW from left: Mrs. Richard Scott Haskins, system; Mrs. William G. Conley III, Charleston; Mrs. Frank Martin, Char-

Barker-Spraker

Page 10

Doris Marie Barker and Cloyd E. Spraker were united in marriage July 11. Mr. Spraker is a Grundy groundman in the Welch district.

Cooke-Weller

Peggy Irene Cooke and Joseph Weller, Jr., were married July 9 in a double ring ceremony at the Raleigh Court Methodist Church in Roanoke. Mr. Weller is an engineering student at Grundy of the Welch district.

Bell-Campbell

Ellen Kent Bell was married August 18 to Joseph Campbell in the New Dublin Presbyterian Church of Dublin. She is a former Marion home economist of the Pulaski district.

Wood-Leslie

Virginia Elaine Wood and Charles Eugene Leslie were married August 4 at the Thrasher Memorial Methodist Church. Mrs. Leslie is a former Roanoke distribution clerk-stenographer.

Trail-Segraves

Sue Ann Trail was married July 23 to Curtis Segraves at the Baptist Temple at Charleston. She is the daughter of R. W. Trail, Kanawha River plant control operator.

Wilburn-Durham

The Christian Church of Grayson was the scene August 18 of the marriage of Shelby Francis Wilburn and Clarence Durham. Mrs. Durham is a former Ashland home economist.

Reynolds-Childers

Terrell Crain Reynolds and Edgar A. Childers, Jr., were united in marriage in a double ring ceremony August 10. Mr. Childers is a temporary laborer at Philip Sporn plant.

Vipperman-Groseclose

Joyce Vipperman became the bride of Walter Jack Groseclose, Jr., on July 21 in a ceremony performed at the First Christian Church in Beckley. Mr. Groseclose is in the Beckley T&D line section.

Waldron-Scott

Mary Jo Waldron and Lt. Richard Gordon Scott were united in marriage at the First Methodist Church July 14. Lt. Scott, of the U. S. Marines, is the son of H. S. Scott, Kentucky assistant general manager.

Daugherty-Conley

Elizabeth Ann Daugherty and William G. Conley III were married August 25 in a double ring ceremony at the First Presbyterian Church of Charleston. Mrs. Conley is a Charleston home economist.

Connelly-Groseclose

Barbara Ann Connelly and John Kelly Groseclose II were married August 4 at the Blacksburg Presbyterian Church. She is a former Abingdon district home economist.

Deamon-Martin

The Emmanuel Baptist Church in Charleston was the scene July 31 of the double ring wedding of Betty Marie Deamon and Frank Martin. Hc is a Charleston stores employee.

Lawrence-Briles

leston; and Mrs. John Kelly Groseclose II, Abingdon.

BOTTOM ROW from left: Lt. and Mrs. Richard Gordon Scott, Ashland; Mrs. Joseph Campbell, Pulaski; and Mr.

and Mrs. Walter Jack Groseclose, Jr., Beckley.

Pearl Naomi Lawrence and D. T. Briles were united in marriage July 29 at the residence of the Rev. Arch Williams in South Charleston. Mr. Briles is employed in the coal handling department of Cabin Creek plant.

Rogan-Cushing

Mrs. Barbara Hoge Rogan and H. L. Cushing were united in marriage July 20 at the Second Presbyterian Church of Roanoke. Mr. Cushing is system commercial manager.

Holbrook-Ratcliff

Joyce Holbrook and Robert E. Ratcliff were united in marriage August 18 at the Athens, W. Va., Methodist Church. Mr. Ratcliff, a summer employee in the Roanoke district storeroom, has worked for the company the past three summers.

Vest-Haskins

Loretta Vest and Richard Scott Haskins were united in marriage July 21 at the Huntington Court Methodist Church of Roanoke. Mrs. Haskins is a clerk-stenographer in system personnel and Mr. Haskins is a tracer in Roanoke division engineering.



MR. AND MRS. HOWARD A. COTTLE, a son, Raymond Prescott, August 7. Mr. Cottle is a lineman. Bluefield

Beckley

MR. AND MRS. B. C. ARTRIP, a son, Michael Robert, July 9. Mrs. Artrip is a former clerk-stenographer in the personnel department

Cabin Creek Plant

MR. AND MRS. J. K. DANIELS, a son, James David, July 21. Mr. Daniels is an assistant control operator.

MR. AND MRS. W. E. LANHAM, a son, Danny, July 14. Mr. Lanhem is a janitor. MR. AND MRS. J. D. POORE, a son, James Joseph, July 26. Mr. Poore is a relief operator.

MR. AND MRS. R. E. STONE, a son, Dean Webster, July 15. Mr. Stone is a mechanical maintenance helper.

MR. AND MRS. O. E. WILLIS, twins, Charles Mead and Virginia Banks, August 6. Mr. Willis is a test engineer.

Charleston

MR. AND MRS. CHARLES L. CONNER, son, Mark Stewart, August 9. Mr. Conner is a groundman.

MR. AND MRS. LEWIS DUFF, a daughter, Patricia Anne, August 22. Mr, Duff is a meter service helper.

MR. AND MRS. R. E. SMITH, a son Richard Allen, August 21. Mr. Smith is a meter service helper.

Fieldale

MR. AND MRS. DOUGLAS W. COOPER, son, Michael Blake, July 27. Mr. Cooper is a groundman.

Huntington

MR. AND MRS. JAMES W. SWANN, a son, John Michael, July 20. Mr. Swann is employed in the Huntington district.

Kingsport

MR. AND MRS. HOWARD G. BROOKS, a son, Jesse Willard, August 5. Mr. Brooks is employed in the line department.

Logan

MR. AND MRS. GLEN BALL, a son, Nicholas Lynn, July 13. Mr. Ball is a meter reader.

MR. AND MRS. DALLAS A. KINSER, a daughter, Melody Shawn, July 26. Mr. Kinser is a station man.

Point Pleasant

MR. AND MRS. PAUL R. SOMERVILLE, JR., a son, Tyrone R., July 24. Mrs. Somer-ville is a former employee in the accounting department.

Radford Arsenal

MR. AND MRS. IRVIN W. WRENN, a daughter, Karen Leigh, August 7. Mr. Wrenn is a boiler operator.

Roanoke

MR. AND MRS. W. C. REYNOLDS, a daughter, Ann French, August 20. Mr. Reynolds is a meterman.

Philip Sporn Plant

MR. AND MRS. GERALD E. CLARK, a daughter, Patricia Dawn, August 1. Mr. Clark is a maintenance man.

MR. AND MRS. JOHN T. FERGUSON, a son, John Taylor, August 8. Mr. Ferguson is employed in the labor department.

MR. AND MRS. JAMES E. HAGGERTY, a daughter, Carla Sue, July 25. Mr. Haggerty is a maintenance man.

System

MR. AND MRS. WILLIE M. CONNOR, a daughter, Vickie Lynne, July 17. Mr. Connor is employed in the system station department, Roanoke section

MR. AND MRS. BOBBY LEE SAUL, a daughter, Nancy Leigh, August 16. Mr. Saul is employed in system accounting.

Glen Lyn, Beckley Win Softball Titles As Other Teams And Players Stand Out

league titles or tournaments in which they were entered this season while others came close.

The Glen Lyn plant team compiled a 20-3 record to take title onors in the Giles County Softball League. J. M. White, team manager, was one of the leading hitters, and L. K. Johnston, Jr., with a 12-0 record, J. B. Witt, with a 4-0 record and D. E. Hall, with a 4-3 record, were the pitchers.

Several Appalachian teams won 2 held the lead in the plant league with only one loss.

> After winning the first half of the Charleston Softball League, the Charleston district squad dropped two of three to the second half winners play-off for the championship.

MR. AND MRS. PAUL CLOWER, a daugh-ter, Rebecca Ann, August 7. Mr. Clower is employed in system accounting.

MR. AND MRS. W. W. FISHER, a son, William Jeffrey, July 4. Mrs. Fisher was formerly employed in system operating.

MR. AND MRS. EDSEL E. JOHNSON, a daughter, Karen Sue, July 31. Mr. Johnson is employed in system operating, Switchback Station.

MR. AND MRS. C. RICHARD LOVE-GROVE, a son, David Andrew, August 27. Mr. Lovegrove is in system public relations.

Welch

MR. AND MRS. MILLARD GIBSON, a daughter, Carolyn Marie, July 22. Mr. Gibson is a lineman.

MR. AND MRS. JOHN HAIRSTON, a son, Jeffrey Lyn, July 31. Mr. Hairston is a janitor.

Williamson

MR. AND MRS. CLAUDE WARD, a daughter, Mary Alice, July 29. Mr. Ward is dealer sales representative.

They're Engaged

SHIRLEY M. GRAHAM to Charles Cook. Miss Graham is a clerk in the Bluefield com-mercial department.

CLAUDINE RILEY to Charles W. Ferrell. Miss Riley is a clerk in Roanoke accounting.

MARTHA ANN WOOLWINE to Alvin C. Rose. Miss Woolwine is a clerk in Roanoke accounting.

EILEEN LOIS JOHNSON to Walter G. Cartwright. Mr. Cartwright is a master mainte-nance man at Philip Sporn plant.

PEGGY JOYCE FRANCIS to Jack Strange. Miss Francis is a clerk in Williamson accounting.

FADWA AMMAR to Joe Hartzog, Jr. A summer employee in Williamson accounting, he is the son of J. R. Hartzog, Williamson district meter superintendent.

NANNIE FAYE HAMBLIN to Carl Ray Ierd. Miss Hamblin is a clerk in Hazard Herd. Miss accounting.

SUE ANN PORTER to James H. Reynolds. Miss Porter is a clerk-stenographer in Logan district accounting.

Lots Of Troubles

You think you've got troubles? Just listen to this tale of woe from Glen Stafford, son of Virginia of the Williamson district accounting department.

In about a year, Glen broke his right arm in a fall, broke out two front teeth while wrestling, broke his left elbow in the school yard, suffered with a strep throat and mashed his fingers in a door.

But not all his luck was bad. While on a hike recently, he helped capture a snake and put it in a box. The children put it in the road and killed it when they got home. Later it was discovered Glen had brought home a poisonous copperhead.

Named All-Stars

1906 Costumes In Modern Office



Dressed in clothes of 50 years ago and working in modern surroundings are these employees of the Galax office in the Pulaski district. They are wearing the costumes in honor of Galax's recent 50th Anniversary. They are from left: Hazel L. Hawkins, contract clerk; Lorene H. Patton, bookkeeper; and Zelle Phipps, contract entry and final bill clerk. The man is Henry Morehead, engineering aide of the Pulaski office.

Beckley won the Inter-City Softball Tournament after regular play had ended in their league. Maxie Dwornick was team manager.

Philip Sporn plant, contender for the Ohio Valley League title with a 21-1 record, finished with two losses in the Bend Tournament. The plant's number 2 team also lost out in the Bend Tournament and made plans to enter the Wood County Tournament the last of August. The team record is 5-2. Maintenance No.

Paul Parsons was team manager and vice president of the league.

Sterling performances by two West Virginians highlighted recent softball action. A broken bat single prevented Lionel Ellis, Logan district-plant team pitcher, from hurling a no-hitter recently in the Logan Businessmen's Softball League. Logan won the game 10-0. Ellis also pitched three scoreless and hitless innings in the league All-Star game.

Ralph Holmes of Charleston, playing for West Virginia Black Rock in a tournament there, hit the longest home run ever recorded in local softball play. The ball landed on top of a 100-foot high building which stands 225 feet from home plate.



Members of the Pikeville Little League All-Stars are these sons of Pikeville employees. Lynn, left, son of Hylton Williamson, lineman, was a pitcher and utility outfielder with both his team and the All-Stars. His team was champion of the Pikeville league. Billie, son of James Burke, groundman, was pitcher, catcher and third baseman on his team which finished third during the season. This is Lynn's second year on the All-Stars and Billie's fourth. The All-Stars advanced to the regional play-offs where they were defeated. They had won four other play-off games before losing.

Charleston Repeats As Appalachian Softball Champ

Sporn Loses In Finals Of 15th Annual Tourney; Beckley Takes Consolation

Charleston successfully defended its Appalachian softball crown by defeating the Philip Sporn plant team 8 to 4 in the 15th annual tourney held at Ballard Stadium in Beckley on August 25.

Beckley won the consolation title by defeating Glen Lyn plant 10 to 1 in the wind-up contest of five games in the losers' bracket.

Eight teams were entered in the tourney which began Friday afternoon and ended Saturday night. In all there were 12 games played during the two days.

Plenty of Excitement

The tourney was marked by many exciting moments. Included was a last ditch rally by the runnerup Sporn team in the second game of the tournament. Sporn was behind to an underdog Welch team 6 to 0 with two men out in the fifth inning when the plant men came to life to tally ix runs in the fifth inning and then go on to win the game with two runs in the sixth.

In a preliminary consolation contest Saturday morning, Glen Lyn defeated Lynchburg 8 to 5 in an eightinning game which furnished the tournament's most dramatic moment. It was an unassisted triple play.

Once In A Lifetime

Glen Lyn had scored 3 runs in the top of the eighth to take what looked like a safe lead. Lynchburg came right back to load the bases with none out in the bottom half of the eighth and threaten to break the game wide open.

The rally ended suddenly. Jim Dorman, Lynchburg left fielder, bunted a pop-fly into the hands of Sam Elliott, Glen Lyn third sacker, who stepped on third to double off Bill Lemar and then tagged Richard Cash who was sliding into third to complete the triple play unassisted.

Holmes Leading Hitter

Power-hitting honors in the tournament go to Ralph "Red" Holmes, Charleston's shortstop. He tagged two home runs, two triples, a double and a single in eleven times at bat. Other home runs were hit by Maxie Dwornick, Beckley; Sonny Haggerty, Sporn; Ralph Cook, Welch; Jack Smithers, Charleston; Lionel Ellis, Logan; Jim White, Glen Lyn; and Bryon Smithers, Charleston.

The Glen Lyn team, which was appearing in the tourney for the first time in several years, played a total of 31 innings in four games. Besides the single extra inning affair with Lynchburg, the Glen Lynners defeated Welch 8 to 7 in 9 innings in the semi-finals of the consolation round.

Mundy Expresses Thanks

J. A. Mundy, tournament director, after completion of the tourney said: "The fine work of the umpires and official scorer and the All-Star committee helped make this tournament a success. The many hours of hard work put in by the management

Championship Contest Charleston 8—Sporn 4

The Charleston team sparked by the power hitting of Ralph "Red" Holmes scored three runs in the first inning and added one more in every inning to beat the Philip Sporn aggregation 8 to 4 in the title contest. Holmes cracked two home runs,

one to the centerfield scoreboard with a mate aboard in the first inning and one over the left-field fence in the third inning.

Sporn Plant's nine staged two-run splurges in the sixth and seventh innings but it wasn't enough as Frankie Martin notched his third victory of the tournament. Bill Payne had a triple and two singles for Charleston while Buck Tennant slammed a triple and single for the Spornsmen.

Friday Games Beckley 4-Glen Lyn 0

A home run by Maxie Dwornick clinched Beckley's 4 to 0 victory over the Glen Lyn plant team in the opening game of the tourney Friday afternoon.

Beckley pitcher "Horse" Martin held the plant nine in check by giving them only four hits, two by Junior Whittaker. Carl Smith led Beckley with two hits in two times at bat.

Sporn 8—Welch 6

Sporn plant's seasoned veterans came from behind in the fifth inning to tally six runs to even up their contest with Welch and then added two runs in the sixth to win 8 to 6.

Welch's Paul Hall had checkmated the powerful Sporn hitters for the first four innnings, but the plantsmen unleashed their big bats in the fifth inning after two men were out to score the six runs.

The big blows were singles by Gilmore, Gibbs, Haggerty and Wright and a double by Tennant. Haggerty came back in the sixth with a mate aboard to hit a home run.

Welch had parlayed a single by Hall, a double by Gibson, two bases on balls and a sacrifice by Green into 4 runs in the third inning. They tallied two more in the fifth on Ralph Cook's homer after Tiller had singled.

Tiller led Welch at bat with two hits in three trips, while Wright and Haggerty each had 2 for 4 for Sporn.

Charleston 9



This Charleston District softball team won its second straight Appalachian title in the 15th annual softball tournament at Beckley, August 24 and 25. Front row from left: Manager Parsons, Coffman, Hanson, Martin, J. Smithers, Payne and Moss. Second row from left: Holmes, Carruthers, Selbe, Coiner, B. Smithers, Hemmings and Baughan. Bat boy is Charles Coffman.

the three-hit pitching of Frankie Martin in Friday's third game.

Cam Coffman, Jack Smithers and Ralph "Red" Holmes each with three hits, led the 15-hit attack of the champions. Smithers hit a home run, double and single; Holmes, two triples and a single, and Coffman three singles as Charleston scored in every inning but the fourth.

Bill Robertson, George Pace and Tom Witt hit successive singles in the first inning but Lynchburg was unable to score. Martin bore down after that and held Lynchburg hitless for the remainder of the game.

Logan 6—Kingsport 5

In one of the tourney's most closely contested games, Logan snuffed out a seventh-inning rally to defeat Kingsport 6 to 5.

Logan took a 2 to 0 lead in the second inning on a home run by Lionel Ellis and a double by Caleb White. Kingsport battled back to a 3 to 2 lead in their half of the third on singles by Jesse Carter and Lewis Safriet, a base on balls and an error.

Logan came right back in the bottom of the third to take the lead 4 to 3 on two bases on balls, a single by Curtis Jeffrey and an error. They stretched the lead by adding a run in the fifth on singles by Jim Brady and Orville Napier.

The scrappy Kingsporters battled back with a run in the sixth on J. G. Rayfield's double and a base on balls to make it 5 to 4. Logan added its final run in the sixth on an outfield error and a long fly to right.

Kingsport rallied for a run in the seventh when Gordon Warrick singled to score Lewis Safriet.

Sporn 5-Beckley 1

Pitcher Cricket Searls led off with a triple in the top of the fifth inning to give Sporn plant a new lease on life that resulted in Sporn's 5 to 1 victory over Beckley.

The Beckleyans had taken a one run lead in the fourth inning on Don Thompson and Tom Dent slam-Keith Evans' triple and a single by Bob Thomas.

until the fifth inning. Searls tagged one of McGinnis' pitches for a triple. That blow coupled with three errors; two bases on balls and a single by Gerald Clark resulted in five runs and victory for Sporn plant.

Charleston 8—Logan 2

Ralph Baughan drove in two runs with a triple and a single to pace Charleston to an 8 to 2 victory over Logan.

Doubles by Bryon Smithers and Red Holmes and a single by Bill Payne gave Charleston a four-run lead in the first inning which the Logan nine was unable to overcome.

Logan got its only runs in the game in the fourth inning on singles by Orville Napier and Lionel Ellis and an error.

Charleston added two in the third on Baughan's triple and Jack Smithers' single.

Consolation Rounds Saturday

Glen Lyn 8—Lynchburg 5

In the tournament's first extrainning game Glen Lyn plant's softballers tallied three runs in the top of the eighth inning and then closed the door on a game-ending unassisted triple play to defeat Lynchburg 8 to 5.

Glen Lyn had scored a run in the first inning on Tom Dent's single and Jim White's double. Lynchburg erased the advantage by tallying two runs in the second on Jim Dorman's double, an error and two bases on balls.

Singles by Dan Hall, Don Thompson, Bob Johnson, Corky Buckland and an error in the top of the fifth put Glen Lyn ahead 5 to 2. But Lynchburg battled back to tie it on a walk, a single by Tom Witt and two men hit by pitched balls. That's the way it stood until the top of the eighth.

George Thwaites, Bob Johnson, med out singles which resulted in three runs for the Glen Lyn boys in the eighth.

load the bases in the bottom of the eighth. But the unassisted triple play by Sam Elliott snuffed out the rally and ended the game.

Welch 10—Kingsport 2

Welch scored 10 runs in the first three innings to defeat Kingsport 10 to 2 in a game halted at the end of five innings by the eight-run lead rule.

The winning Welch nine tallied two runs in the first on doubles by Ralph Cook and Millard Gibson. Three walks, Martin Tiller's triple and Mike Clayton's single added four runs in the second. The four runs in the third came on singles by Paul Hall and Hobart White, three walks and Ralph Cook's double.

Kingsport got its runs in the second inning on singles by J. G. Rayfield and Wilson Trumbo and in the fourth on Trumbo's double.

Beckley 4—Logan 2

Beckley bunched five of its six hits in the fourth inning for three runs to beat Logan 4 to 2 in the semifinals of the consolation round.

Logan had taken a one-run lead in the second inning on singles by Trigger Jimison and Cantley. An error enabled Beckley to tie it up in the third inning after two were out. Then the Beckleyans unleashed their guns in the top of the fourth. Chester Pate led off with a single, Gene O'Neal was safe on an error and Jim Farmer, Jim Morgan, Eddie Zopp, and "Horse" Martin singled in succession to tally three runs.

Logan fought back gamely with one run in the fifth on Lionel Ellis' single and a double by J. Ellis.

Glen Lyn 8-Welch 7

Playing its second extra-inning game in less than eight hours, Glen Lyn took an early lead only to have it tied and then beat Welch 8 to 7 to go into the consolation finals.

Welch tallied a run their first time at bat when Jack Green doubled and came home on a long fly. The Glen Lyn nine jumped on the offerings of Paul Hall and sent eleven men to bat in the first inning to tally six runs.

Welch added two runs on singles by Hall and Walter Thomas and a triple by Jack Green in the second. Gilbert Smith's triple with singles by Jim White and Sam Elliott made it 7 to 3 for Glen Lyn in the second. Welch knotted the score at 7, all in their half of the third.

Glen Lyn iced the contest in the bottom of the ninth when Tom Dent was walked, sacrificed to second and scored on Gilbert Smith's gamewinning single.

Consolation Finals Beckley 10-Glen Lyn 1 Beckley's well-rounded nine pecked

and employees of the Beckley district to make this a smooth-running tournament is also greatly appreciated.

"I would especially like to thank George W. Ballard for the use of the facilities at Pinecrest Sanitarium and his invaluable personal interest in helping to make this tournament one of the best.

"I think I can speak for the tournament committee and the players in thanking these people for their part in the 15th annual tourney.'

Umpires were Stover, Henderson and Moody. L. McManus was official scorer and Harless Stover, George W. Ballard and Eddie Pence chose the All-Stars. C. W. Lovell, assistant Charleston division manager, presented the trophies.

Lynchburg 0

Charleston's defending champions shut out Lynchburg 9 to 0 behind

Searls and Eddie McGinnis were hooked up in a tight pitching duel

Lynchburg came fighting back to



The 1956 edition of the Appalachian Softball Tournament All-Star team is pictured above. Front row from left: R. W. Martin, Beckley, utility pitcher; Jim Farmer, Beckley, third base; Bob Thomas, Beckley, catcher; Cam Coffman, Charleston, center field; Frank Martin, Charleston, pitcher; and Gerald Clarke, Philip Sporn plant, first base. Second row from left: H. S. Jimison, Logan, utility outfielder; Maxie Dwornick, Beckley, manager; Sonny Haggerty, Philip Sporn plant, right field; C. Buckland, Glen Lyn plant, left field; Red Holmes, Charleston, short stop; and Ralph Baughan, Charleston, second base. Not pictured is Millard Gibson, Welch, utility infielder.

away at the offerings of Glen Lyn's Bill Johnston to tally two runs in the first four innings and take a 2 to 0 lead in the consolation finals.

The roof caved in on Johnston, who was pitching in his fourth game in two days, in the fifth inning. Beckley scored five runs in that inning on a triple by Jim Morgan, a double by Bob Thomas, a single by Jim Farmer and three Glen Lyn errors. The Beckley team added three more runs in the sixth on Morgan's second triple, Thomas' second double and a single by Gene O'Neal.

The tired Glen Lynners notched their only run in the sixth when Jim White drove one out of the park for a home run.

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Appalachian Network Goes On Air After Ham Radio Operators Meet

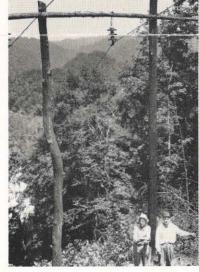


Graham Claytor, seated in the center rear, was host recently to amateur radio operators and other interested employees of Appelachian and Kentucky at his Claytor Lake home. Standing from the left are T. L. Bailey, Bramwell; Roy Hawkins, Bluefield; B. W. Middaugh, Roanoke; R. L. Hall, St. Albans; P. E. Hilliard, Bluefield; W. W. Fugate, Hazard; M. R. Creedle, Roanoke; and Jack McCallister, St. Albans. Seated are J. D. Lawrence, Roanoke; J. T. Baxter, Lynchburg; E. K. Chambers, Bluefield; G. M. Guill, Roanoke; Richard Wood, Welch; W. F. Giles, Williamson; F. R. Frishette, Charleston; Marvin Bostian, Bluefield; and E. H. Graham, Princeton.

Thirteen employees who are amateur radio operators have formed an "Appalachian Net," a radio network for employees.

These employees met recently at Graham Claytor's Claytor Lake home for an informal session and decided on the net. They have extended an

Pole Problem In Welch Solved In Unusual Manner



Service was restored at this Christian Mountain spot in the Welch district when an oak tree became a temporary part of this H-structure. A fallen tree had broken off the old pole. Shown after inspecting the new installation are from left: J. D. Dalton, general line foreman, and R. J. Wood, assistant district manager.

Never was the saying "Necessity is the mother of invention" more true than in Welch recently.

A tree had fallen across a line strung on a H-structure (two poles joined by a crossarm) and had broken one span of wire, broken off one of the poles and badly twisted the crossarm. The structure was on Christian Mountain, above Bartley. It's a steep 11/2-hour climb to the structure, and the problem was how to get the line back up right away. Getting a new pole up the mountain quickly was next to impossible with the equipment at hand. Someone in the line crew suggested cutting down a tree and using it as a temporary measure. An oak tree was selected for the pole and a hickory sapling for a new crossarm. The wire was spliced and service restored in short order.

invitation to all ham operators in the companies to join, and plans call for a network meeting, on the air, every Sunday at 3 p. m. on 3900 kilocycles. The net will also provide communication in emergencies for the companies and the general public.

Mr. Claytor, retired AGE vice president, showed his radio equipment to the employees, who came from Appalachian and Kentucky. Most of them operated his amateur radio station, contacting stations in this country and Canada. Operation of a teletype machine was demonstrated and a teletype radio transmission was received and printed by the machine.

R. L. Hall of St. Albans showed the group a compact, band-switching, 1000-watt linear amplifier which he designed and constructed. It is about half the size of any comparable commercial unit.

P. E. Hilliard of Bluefield was named acting net control station of the Appalachian Net. After the meeting a picnic lunch was held at Byrd Lodge and the group took a ride on Claytor Lake aboard the "Mary Ingels II." This meeting was the first in what is hoped to be an annual event.

System Article Gets Big Play In 'World'

The front cover and two inside pages of the July 30 issue of *Electrical World* were devoted to an article written by H. E. McCormack, superintendent of system operations.

The article, called "Utility Gives 'Perpetual' Training," covered two pages of the Management-Industrial Relations section of the issue. The front cover had a picture of several employees at a station and a headline reading "For System Operation Employees Of Appalachian Electric Power Training Is Perpetual."

Sporn Plant Tests To Benefit Plants, Navy And Industry

A three-year test which will benefit electric power plants, the United States Navy and industry as a whole is being conducted at Philip Sporn plant.

Selected alloy steels in tubular form are being subjected to high-pressure steam at temperatures of 1,100 to 1,500 F. for periods of time up to 36 months to determine the steel's resistance to internal corrosion, the effects of oxide films on thermal conductivity, metallurgical stability and resistance to repetitive thermal shock.

The test is the result of a previous study which showed that a substantial reduction in fuel cost could be realized by use of higher steam temperatures. This test is being run by the American Society of Mechanical Engineers Research Committee On High Temperature Steam Generation, with the cooperation of the Navy and Sporn plant.

Equipment Built By Navy

The test actually started when testing equipment was built at the Naval Engineering Experiment Station at Annapolis. Now the equipment, consisting of five test racks, five electric superheaters and three heat exchangers, weighing about 40 tons in all, has been assembled at Sporn and

Three Sporn Men Get Promotions



Mr. Chadwell Mr. Gilmore

Three Philip Sporn plant employees were recently promoted to new positions at the plant.

James L. Hart, crane operator, was promoted to labor-janitor foreman. Wyatt F. Chadwell, master maintenance man, and Robert G. Gilmore, master maintenance man, were promoted to maintenance foremen.

Mr. Hart joined the company



April 11, 1949 as a tractor operator and became a conveyor operator January 1, 1951. He moved up to clane operator May 7, 1952. A graduate of Wahama H ig h School, he at-

tended Oklahoma A&M. He is a member of the American Legion and the Junior Order of United American Mechanics. He is married and



Checking on the progress of a three-year test being conducted at Philip Sporn plant are from left: Calvin A. Weitzel, U. S. Naval Engineering Station; Russell Senter, Sporn plant engineer; Joseph A. Hopkins, Jr., U. S. Naval Engineering Station; and Wilson F. Erskine, project manager.

connected to Unit No. 4. There are 30 test tubes in each test rack. The electric superheaters increase the temperature of the steam in controlled stages from the plant's operating temperature. The heat exchangers are used to conserve the heat and reduce the electric power required.

Over \$1/2 Million Cost

Sporn was selected for the test because of its steady load and other conditions which make it ideal. After the three-year test, which will cost more than a half a million dollars, another year will be spent in analysis of specimens and preparation of reports.

Russell Senter, Sporn plant engineer, is assisting in the tests. Wilson F. Erskine, U. S. Naval Reserve Inactive, is the fulltime project manager. The equipment was assembled by the results and maintenance department of the plant and Navy men are assisting in the tests.

Battle Nominated For U. S. President

A director of the American Gas and Electric Company was nominated as a candidate for President of the United States at the recent Democratic National Convention in Chicago.

He is John S. Battle, former governor of Virginia and an AGE director since 1954. Nominated as a "favorite son" candidate, he received $32\frac{1}{2}$ votes in the balloting. He also was a member of the convention's platform committee.

He is a resident of Charlottesville and a member of the law firm of Perkins, Battle & Minor of that city.

Sports Car With Modern Look Came From Talk About Using Hand Tools



Checking over the sports car they built in seven months are Steve Hodges and Henry Altieri. The car with Plymouth lines is powered by a lawn mower motor in the rear and has a top speed of 12 miles per hour.

Talk between two employees led to a miniature sports car that increased its teen-age owner's appreciation of knowing how to use tools.

Last fall Henry Altieri, Roanoke district general utility man, was talking to R. E. Hodges, assistant general

Work began in November. Steve worked with Henry who taught him how to use the various tools in Henry's basement workshop. The entire car with the exception of the motor and wheels was made by Henry and Steve.

A contractor's crew was to go to the spot later on to put in a more permanent installation. Mr. McCormack won last year's *Monthly Operating Notes* second place award for the same article. A synopsis also appeared in THE IL-LUMINATOR.

Logan Slugger Signs Pro Contract With Detroit

Joe Gore, lefthanded slugger, has signed a professional baseball contract with the Detroit Tigers.

The 18-year-old high school star is the brother of C. E. Gore, Logan district dealer sales representative. He signed after a tryout camp at Charleston. has three children.

Mr. Chadwell joined the company November 15, 1949 as a maintenance man and became master maintenance man June 12, 1950. A graduate of Philo High School, he attended Ohio University. He is married and has three children.

Mr. Gilmore was employed November 28, 1949 as a helper in the maintenance department at the plant. He became a maintenance man May 16, 1950 and a master maintenance man October 9, 1951. Also a graduate of Philo High School, he attended Ohio State University and Coyne Electrical School. A member of the Masonic Lodge and the Moose, he is married and has one child. manager. The subject of teaching boys how to use hand tools came up.

Mr. Hodges was very much interestd because his son, Steve, liked to make things with his hands. In the discussion that followed Mr. Altieri agreed to help teach Steve some of the fundamentals.

They started working together in Henry's spare time on Saturdays and in the evenings without any special project. Then Steve got the idea of building a small sports car.

They had a copy of *Popular Mechanics* Magazine which gave some ideas about building a sports car of plywood. However, Henry and Steve decided to build a metal one and give it the lines of a 1956 Plymouth. Taking seven months to complete, the car boasts a $2\frac{1}{2}$ horsepower Reo motor that came from a power lawn mower. The motor is in the rear of the car.

Speed at full throttle is about 12 miles per hour. Although it has only one forward gear, it has plenty of power and can carry two adults weighing a total of 300 pounds up a hill.

Henry says he really enjoyed working with Steve on the project. As for 13-year-old Steve, he's the envy of the neighborhood youngsters. He also has the satisfaction of knowing all about his car in case of trouble "on the road."