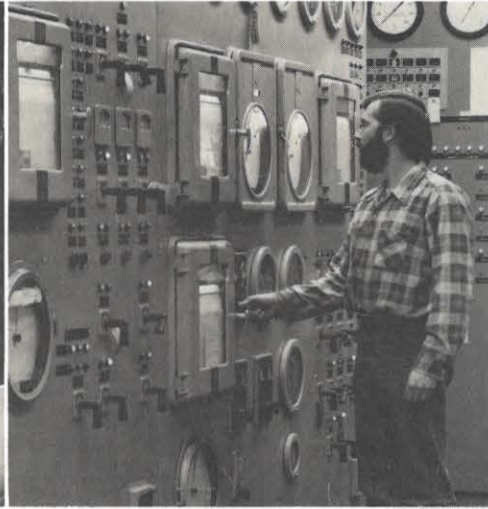


THE ILLUMINATOR

PUBLISHED FOR THE EMPLOYEES OF APPALACHIAN POWER COMPANY • KINGSPORT POWER COMPANY • OF THE AMERICAN ELECTRIC POWER SYSTEM

VOL. XXX No. 4 January 1980



OUR JOB



"Our job is generating electricity and getting it to where it's used. We're in this business because it is concerned with the supply of a fundamental requirement of modern living, because it's an honorable one, because we like it, and because we want to earn a living at it.

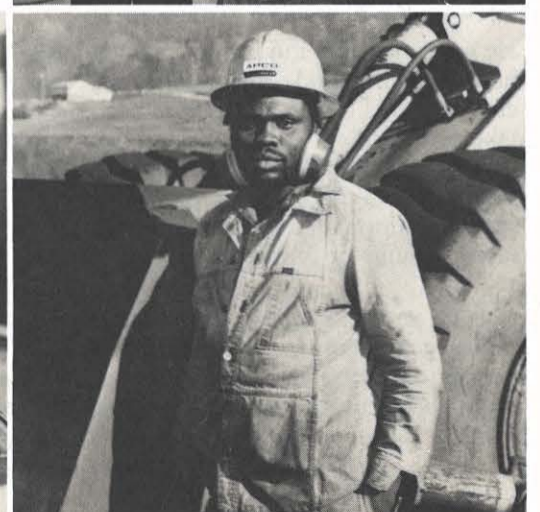
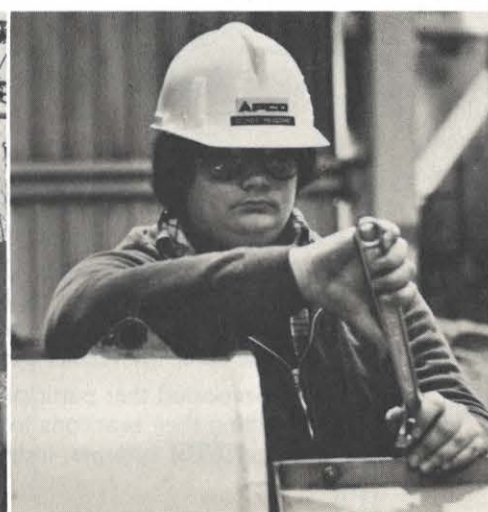
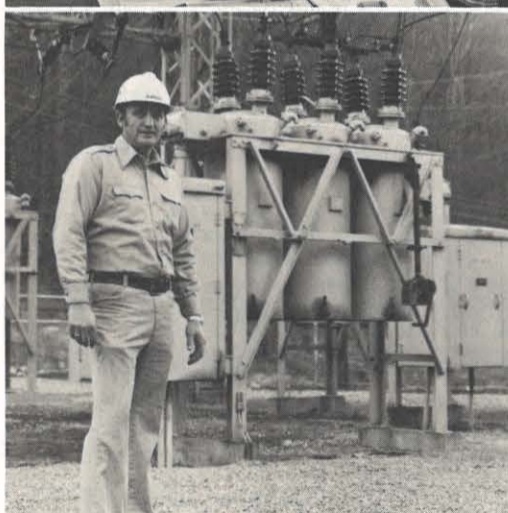
"We aim to give one kind of service to everyone . . . the best that's possible. That means supplying our customers with what they want when they want it. It means being courteous at all times and maintaining attractive, easy-to-do-business-with offices.

"It means doing everything we can to keep complaints from arising, and it means prompt and fair handling of those that do.

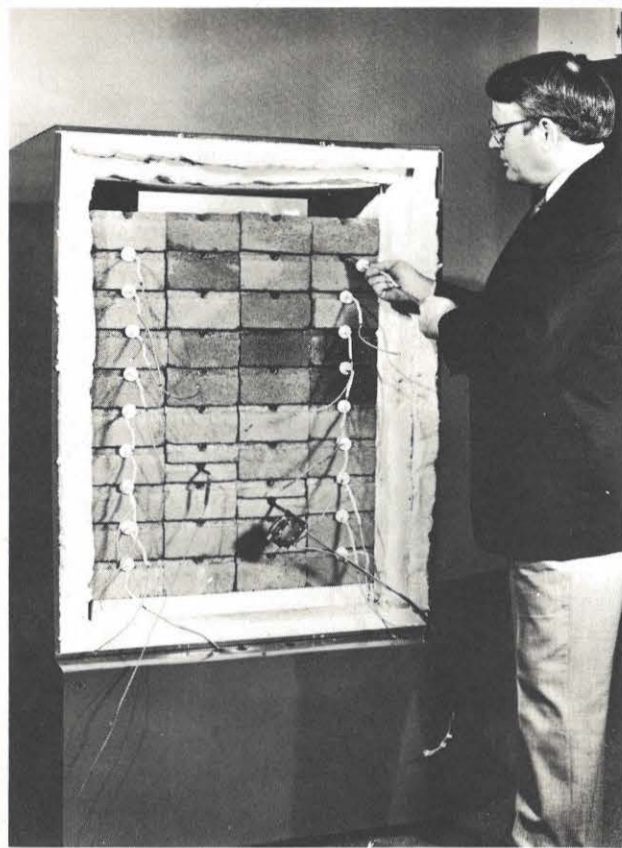
"We are a citizen of each community we serve and take an active part in its affairs. Like any other citizen, we want our neighbors to think well of us. Besides, it makes good business sense. We prosper only as the community prospers; so we help it thrive in every way we can.

"Such is our job as we see it. We are trying to do it well and to do it better all the time."

We give it our best.



APCO APPLIES FOR TOD AND LOAD MANAGEMENT RATES



William R. Coleman, AEP's director of residential and commercial customer services, inspects the interior of an electric-thermal-storage (ETS) furnace. Electric resistance heating elements, energized only from 11 p.m. to 7 a.m., heat the refractory bricks, which hold the heat for distribution within the house throughout the 24-hour day.

Following the December announcement of a new electric load management and conservation program by American Electric Power System Chairman W. S. White, Jr., APCo has applied for two new residential rates in both West Virginia and Virginia.

The program announced by White is a special time-of-day (TOD) rate to encourage customers to install electric-thermal-storage (ETS) warm-air furnaces and water heaters.

ETS equipment uses electricity only at night between 11 p.m. and 7 a.m., storing heat within itself for release throughout the entire 24-hour day at temperatures selected by the customer.

According to Appalachian Power's Executive Vice President John W. Vaughan, in one filing, the company asked for approval of an experimental time-of-day rate which would involve people in each of the two states served by APCo.

In the other, Appalachian proposes a load management rate for residential customers who install and use ETS and other load management devices approved by the company.

The other six companies in the AEP System are also planning experimental time-of-day rates and load management rates.

According to White, the company's decision to proceed with the time-of-day rate requests was the result of a successful three-year field test carried out by the AEP System in 71 homes in five states: Indiana, Michigan, Ohio, West Virginia and Virginia (see accompanying article). The other two states where AEP companies will seek approval of the new rates are Kentucky and Tennessee.

He explained that the use of ETS equipment in the home would provide major benefits to both the customer and the utility because such use would take place during off-peak hours. For the customer, benefits would include a lower monthly electric bill resulting from the off-peak rate, as well as a heating system performance that most field test participants rated as superior to that of conventional equipment. For the utility, benefits would include both a reduction in and a delaying of its need to build new power-generation and transmission facilities, and improved operating costs due to the greater use of high-efficiency generating units in the off-peak hours.

According to Vaughan, the new rates are also part of the company's plan to study the feasibility of rate designs suggested by the Public Utilities Regulatory Policies Act of 1978.

He explained the experimental time-of-day rate this way: "Through random sampling, 120 residential customers in Virginia and 120 residential customers in West Virginia would be chosen to take part in the experiment, which would last for two years following approval.

"Customers in the experiment would be offered a lower rate for the electricity they use during off-peak hours, and their use would be monitored by special metering and magnetic tape recorders. The customers will also be given a one-time incentive payment to cover inconvenience.

"A marketing firm will be employed to recruit participants, test customer acceptance, and survey and evaluate customer attitudes.

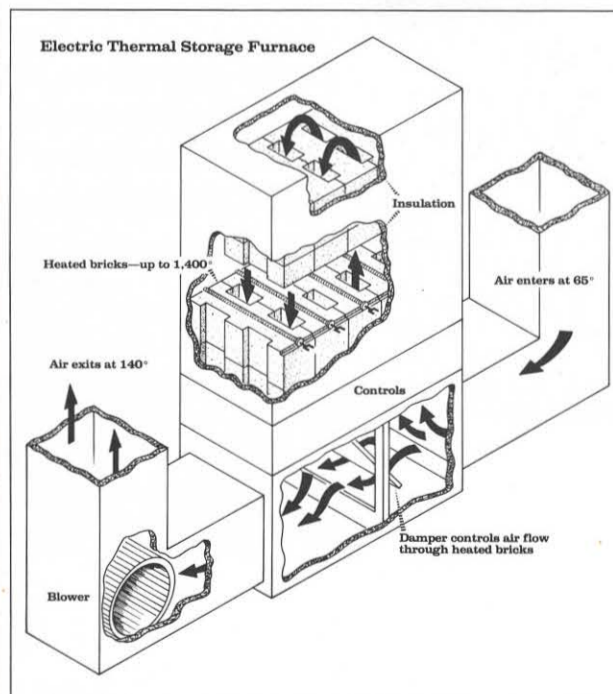
"The experimental time-of-day rates are based on cost-of-service studies and consist of a fixed monthly service charge, a flat energy charge for all kilowatt-hours consumed during on-peak hours, and a flat energy charge for all kilowatt-hours consumed during off-peak hours."

The new rate, when approved, will be available to residential customers who install and use thermal storage furnaces and water heaters or other approved load management devices. All electrical uses in a home on the Load Management rate would be eligible for the special rate. A special energy meter capable of measuring on-peak and off-peak electrical consumption will be installed on qualified homes.

"Built into this rate is the time-of-day rate being offered in the experimental program, as well as an additional credit to offset the higher cost of the electric thermal storage equipment," Vaughan said.

He said that the off-peak hours of 11 p.m. to 7 a.m. and the full 24 hours on Saturday and Sunday were derived after careful studies of electric load patterns on the company system. He pointed out that over 70 time-of-day experiments have been initiated in the United States, "and while in general, results tend to support that TOD rates can induce changes in consumption patterns, they also indicate that it is prudent for each electric system to carry on its own program and evaluation, based on its customers' use of electricity."

CUSTOMERS GIVE ETS GOOD MARKS FOLLOWING TEST



Dorman Miller, AEP's vice president-customer services, has described the 71-customer, five-state, three-year time-of-day (TOD) test as the largest of its type yet conducted in the U.S. He said that extensive data has been collected and analyzed, including experience during two particularly severe winters and, he said, the results were "gratifying."

Miller reported that participants in the field test, in submitting their reactions to the electric-thermal-storage (ETS) systems, indicated a high degree of

satisfaction with the operation and performance of their space-heating and water-heating equipment and with the lower electric bills they experienced. Among the findings were these:

- 91% of the customers rated their ETS home-heating system "very satisfactory to good";
- 99% rated it as "very clean to average";
- 92% made favorable comments about the furnace operation;
- 91% stated that it was not necessary to change normal living habits or lifestyles with the ETS operation;
- 94% said they were satisfied with the operating costs;
- 98% felt that storage heating was practical;
- 92% said they would recommend it to others; and
- 91% rated their hot-water supply as acceptable.

"Aside from the fact that our findings exceeded our high hopes for the ETS tests," Miller commented, "we learned that the great majority of the customers found that their home heating, which they generally described as 'cozy' and 'comfortable', had stayed at a uniform level throughout the day." He also cited their frequent mention of the fact that they could "set and forget" their thermostat.

From the AEP System's standpoint, Miller continued, the tests proved that large-scale customer acceptance of ETS systems energized during off-peak hours could represent a major step in the conservation of its generating capacity.

"With the proposed new lower rates we hope to gain this kind of acceptance for residential energy storage and thus conserve our existing energy supply capability," he said. "This cannot be done by rate innovation alone because, without the accompaniment of energy storage, a time-of-day rate by itself would simply dictate substantial changes in the customer's lifestyle — and in most cases, this is something he won't accept."

The ETS furnace is a combination electric furnace and heat-storage unit. At night, heating elements in the storage furnace raise its interior temperatures up to 1,400° F. This heat is stored in refractory-type bricks until it is needed. Then a blower pulls in cool air, which is directed through the layers of heated bricks. The air, now heated, then is recirculated back through the home's duct system. A thermostat controls a damper that regulates the amount of air to be introduced into the heat chamber and thus controls the temperature of the warm air that exits the ETS device.

ETS units are in common use in Europe. To make them available in this country, TPI Corporation, Johnson City, Tenn., developed an "Americanized" off-peak version of an electric furnace manufactured by Creda International, Ltd., of London.

The energy-efficient ETS water heater is similar to conventional water heaters, except that it is more heavily insulated to retain heat longer and, at 120 gallons, is larger than most. The water heaters used in the field test were developed and manufactured by A. O. Smith Company, Kankakee, Ill.

FIRE DAMAGES SMITH MT. UNIT 2

Unit 2 at the Smith Mountain Dam powerhouse will be out of service until mid-March as the result of insulation failure and a resulting fire.

No one was injured in the December 3 incident. Fire protection equipment at the plant automatically extinguished the blaze from an electrical arc in the coils of the generator winding. Several coils and the stator core iron were damaged, and the generator stator will have to be rewound (a stator is the stationary part of the machine around which the rotor revolves).

The 150,000-kilowatt machine is one of two conventional hydro generating units at Smith Mountain Dam. The other three are reversible pump-turbines.

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AEP SYSTEM NEWS BRIEFS

Ohio Power To Redeem Shares

Ohio Power Company will redeem 25,000 of the 300,000 outstanding shares of its 14% cumulative preferred stock, \$100 par value, March 1 at \$100 per share. The accrued quarterly dividend of \$3.50 per share payable March 1 will be mailed to shareholders.

Three Subs Elect Officers

Two AEP subsidiaries elected new officers effective December 1, 1979.

Indiana & Michigan Electric Company elected Robert S. Hunter a vice president. He will continue as senior vice president — construction of the AEP Service Corporation.

Southern Ohio Coal Company elected Harry Lester a vice president. He was also appointed general manager of the company's Meigs Division, having served since 1976 as the division's general superintendent. Price River Coal Company elected Gordon Cook vice president — general manager. He will direct mining operations at AEP's coal reserves in the Helper, Utah, area. Prior to assuming his new position, he was general superintendent of the Southern Ohio Coal Company's Martinka Division at Fairmont, West Virginia.

I&M To Sell Mortgage Bonds

Indiana & Michigan Electric Company has announced plans to sell up to \$55 million of first mortgage bonds at competitive bidding on or about January 30. Proceeds will be used to repay outstanding short-term debt.

I&M Loses One Sub, Gains Another

The corporate structure of the American Electric Power System has undergone two changes. One new company was formed, and two companies were merged.

The new company is Price River Coal Company, a subsidiary of Indiana & Michigan Electric Company, which on December 1 assumed the responsibility for mining the latter's coal reserves in the area of Helper, Utah. The two deep mines there previously had been mined by Braztah Corporation, a division of McCulloch Oil Corporation, under contract to I&M.

The AEP System gained approximately 530 new employees with transfer of the Braztah mining personnel to Price River Coal. The Helper operation has an annual production capability of more than 1-million tons. Its coal, low in sulfur and high in Btus, is shipped to I&M's Tanners Creek Plant.

In the other move, Indiana & Michigan Power Company, its generating subsidiary, was merged into I&M Electric. I&M Power, owner-operator of the Donald C. Cook Nuclear Plant, had been formed in 1971 to facilitate the financing for the plant's construction. With that job now completed, the merger was consummated to simplify I&M's corporate structure.

Similarly, Ohio Power Company is planning to merge its generating subsidiary, Ohio Electric Company, into it in the near future. Ohio Electric owns and operates the General James M. Gavin Plant.

Kurtzmann Retires From AEP

Doris Kurtzmann, executive secretary to Frank N. Bien, vice chairman — operations of the AEP Service Corporation, retired January 1 after 20 years with AEP.

She joined the company in 1959 as secretary to Harold Turner, executive vice president — operations. In 1961, she became executive secretary to George V. Patterson, then vice president — operations. After he retired in 1977 as president of the Service Corporation and American Electric Power Company, she became Vice Chairman Bien's executive secretary.

Ms. Kurtzmann, who lives with her sister and brother-in-law in Short Hills, New Jersey, intends to spend much of her leisure time redecorating a restored Victorian house she owns near the seashore in East Hampton, Long Island.

Mountaineer Construction Worker Killed

Steve Rainey, 19, of Rio Grande, Ohio, an employee of the Union Boiler Company, was killed December 12 when he fell an estimated 120 feet from a scaffold at Appalachian Power Company's Mountaineer Plant, under construction at New Haven, West Virginia. The Occupational Safety and Health Administration is investigating.

Cook Honored

Donald C. Cook, retired chairman of American Electric Power Company and president of Appalachian and Kingsport Power Companies, last month was presented the Humanitarian Award of United Cerebral Palsy of New York City at its annual dinner.

Cook is a general partner in the investment house of Lazard Freres & Company.

SECOND PHASE OF COLUMBUS MOVE ANNOUNCED

Jobs slated to move in the summer of 1981 during the second phase of the AEP Service Corporation's three-phase relocation to Columbus, Ohio were announced last month by AEP Chairman W. S. White, Jr. In addition, he outlined a specific timetable for those groups already selected to move next summer during the first phase of relocation.

Included in the second phase are:

- The Electrical Station Projects and System Protection Sections of Electrical Engineering;
- Approximately 100 positions in Civil Engineering, Electrical Engineering, Materials Handling, Mechanical Engineering, Design and Project Management — a cross-section of the skills required to develop power plant engineering and design capability;
- Approximately 15 positions in the Purchasing Department to assist in the support of the engineering and design function in Columbus;
- The remaining segment of the Legal Department not previously relocated in 1980, except for the support staff to be retained for the New York Engineering, Design and Construction groups.

Upon completion of this second phase of relocation, White said, the Columbus office will contain at least the nucleus of the engineering and design personnel required for maintenance and completion of the present series of 1.3-million-kilowatt power plants, including the Rockport Plant in Indiana. The engineering and design function remaining in New York will be directed to the development of a new series of generating units, starting with the proposed plant to be built in Lewis County, Kentucky, and engineering support for the Donald C. Cook Nuclear Plant units.

Of those groups involved in the first phase of relocation this summer, Financial and Regulatory Reporting, Tax, System Personnel and Customer Services will be the first to go to Columbus, White said.

These groups will move during the last two weeks of June. Scheduled to relocate during the first two weeks of July are: Treasury Staff, Finance, Controlling and Rates. Scheduled for the last two weeks of July are: Electrical Research, System Measurements, Transmission Line Engineering, Transmission Structure Engineering, Distribution Engineering, and Transmission and Distribution Construction and Scheduling. System Planning will move during the first two weeks of August, while Legal and Public Affairs are slated to go during the last two weeks of that month.

White noted that, although this timetable seems fairly certain at this time, some changes may become necessary to accommodate the workflow of a specific department or to meet the physical limitations of the company's temporary office space.

Jobs to be relocated in the third phase of the move, upon completion of the Service Corporation's new office building in Columbus in late 1982 or 1983, will be identified as soon as plans are finalized, he said.

THE COVER

Top row, l. to r., Darrell Taylor, line mechanic D, Pulaski; Alzelia Johnson, T&D clerk C, Huntington; D. G. Smith, auxiliary equipment operator, Glen Lyn; and Larry Darnell, stores attendant, Beckley. Second row, l. to r., John Woyan, maintenance mechanic B, Centralized Plant Maintenance; Jerry Walton, meter reader, Lynchburg. Third row, l. to r., Bonnie Ferrell, public affairs clerk A, GO Public Affairs, Roanoke; Sandra Bower, key entry supervisor, GO Accounting, Roanoke. Fourth row, l. to r., Larry Stiltner, Grundy line crew supervisor, Bluefield Division; Ben Jackson, power equipment mechanic trainee, and Roger Williams, power equipment mechanic A, Central Machine Shop. Bottom row, l. to r., Betty Seals, junior clerk, Charleston; Debbie Belisle, engineering technologist, and John Morefield, engineer B, Abingdon; Cindy Meadows, maintenance mechanic D, John Amos; Tom Cooper, conveyor operator, Kanawha River.

SAVINGS PLAN INTEREST RATE INCREASED AGAIN

The guaranteed interest rate on contributions made to the fixed income fund of the AEP System Employees Savings Plan has been increased for the second time in four months and for the third time since the plan became effective on January 1, 1978. On September 1, 1979, the rate jumped from 8.35 percent to 8.90 percent. Now a new 10-year contract with Equitable Life Assurance Society provides that contributions made between January 1 and December 31, 1980 will earn 10.6 percent interest during 1980 and 10.1 percent thereafter. Contributions made after January 1, 1981 will earn interest at the 10.1 percent rate.

The actual yield earned by the total fixed income fund will be a weighted average annual rate between 7.85 percent (the rate in effect when the plan was established) and 10.1 percent, and will constitute a composite of the interest rates on the following segments of the fund:

Contributions Made

From	To	Will Earn	Until
1/1/78	6/30/78	7.85%	12/31/87
7/1/78	8/31/79	8.35%	6/30/88
9/1/79	12/31/79	8.90%	8/31/89
1/1/80	12/31/89	10.10%	12/31/89
		(10.60% during 1980 only)	

As the portion of the fixed income fund earning interest at 10.1 percent (and the higher rate during 1980) grows larger in relation to the portions earning interest at the lower rates, the average yield will approach, but probably will never exactly equal, 10.1 percent. This change in the interest rate simply means that investments in the fixed income fund will grow at a faster rate over the next 10 years.

SAVINGS PLAN UNIT VALUES

Date	Value Per Unit	Units Credited Per Dollar
Fixed Income Fund		
1/31/79	1.0846	.9219
2/28/79	1.0912	.9164
3/31/79	1.0987	.9102
4/30/79	1.1060	.9042
5/31/79	1.1136	.8980
6/30/79	1.1209	.8921
7/31/79	1.1286	.8861
8/31/79	1.1363	.8800
9/30/79	1.1439	.8742
10/31/79	1.1518	.8682
11/30/79	1.1594	.8625
Equity Fund		
1/31/79	1.1920	.8389
2/28/79	1.1582	.8634
3/31/79	1.2241	.8169
4/30/79	1.2278	.8145
5/31/79	1.2066	.8288
6/30/79	1.2577	.7951
7/31/79	1.2705	.7871
8/31/79	1.3494	.7411
9/30/79	1.3513	.7400
10/31/79	1.2638	.7913
11/30/79	1.3298	.7520
AEP Stock Fund		
1/31/79	1.0355	.9657
2/28/79	1.0153	.9849
3/31/79	1.0167	.9836
4/30/79	1.0108	.9893
5/31/79	0.9784	1.0221
6/30/79	1.0267	.9740
7/31/79	1.0383	.9631
8/31/79	1.0105	.9896
9/30/79	.9544	1.0478
10/31/79	.9363	1.0680
11/30/79	.9656	1.0356

EMPLOYEES, RAIN CREDITED FOR RECORD-SETTING PERFORMANCE

Three Appalachian Power Company hydro plants on the New River in Virginia have generated more electricity in 1979 than in any previous year in their history.

On December 5, the Byllesby and Buck plants in Carroll County exceeded their generation record of 139,157,000 kilowatthours set in 1974, and were expected to generate more than 150,000,000 kwh by year's end. The two plants are 67 years old.

Claytor hydro plant, near Radford, on December 10 surpassed its all-time generating record of 311,016,000 kwh. The previous record was established in 1949. Claytor is 40 years old.

C. K. Kirkland, manager of the Pulaski Division, in which the hydros are located, cited 1979 as "an excellent year for generation, since rainfall was spread out fairly evenly over the 12-month period."

Kirkland said that along with the rainfall, "credit should be given to our employees, who have kept the plants in excellent operating condition so that the favorable rainfall could be used to the best advantage."

PRESIDENT CARTER URGED TO RESTORE NUCLEAR PROGRAM

AEP Chairman W. S. White, Jr. has written to President Carter urging him to "move with all possible speed in deciding the requirements for restoring a viable and much-needed nuclear energy program."

In his letter, he cited the "positive, professional effort" of the Kemeny Commission to determine objectively the causes of the incident at Three Mile Island and to suggest policy and procedural changes that would diminish or hopefully preclude such incidents in the future.

He also noted that the commission had placed in realistic perspective the health effects of the accident, concluding that such effects have been and will be minimal. "We believe such findings merit public attention and consideration," he wrote.

Commenting on the Nuclear Regulatory Commission's extended freeze on issuance of operating licenses and construction permits for nuclear plants, White called the NRC's action "disheartening." "The NRC chose this action although the Kemeny Commission did not come to the same conclusion," he said. "The NRC action creates the threat of an open-ended delay in nuclear licensing, a prospect the Kemeny Commission apparently considered and feared in rejecting such proposals."

White added that what is needed now is a "calm assessment" of the Kemeny Commission proposals and appropriate guidance on actions that need to be taken by the President and Congress. "We hope that the action and support needed from your office provides the necessary impetus in pushing the decisions needed to overcome the current confusion, uncertainty and stalemate on the nuclear issue," he concluded.

EMPLOYEE HONORED FOR RESCUE WORK IN RUSSELL CO.



From left, Maxine, Bryant and Johnney Skeen.

Johnney S. Skeen, Sr., coal equipment operator at Clinch River Plant, has been named Russell County's Outstanding Rescue Squad Man of the Year for 1979. He is sergeant of the Cleveland unit of the squad and, as such, is ably assisted by his wife, Maxine, an experienced Certified Emergency Medical Technician.

Johnney has been a member of the Russell County Rescue Squad for 18 years. He is an EMT, advanced first aid instructor, and has been certified as a CPR instructor.

Shortly after qualifying in CPR skills, an emergency call sent him to the home of an employee of Appalachian's GO Operations Department. Thus the CPR training given him by Archie Riner of Beckley Division resulted in helping to save the life of a fellow Appalachian employee in his first endeavor at CPR rescue procedure.

Maxine is a quiet, quick person with a ready smile and big desire to help others. She says, "Being Johnney's wife, I just naturally took an interest in squad work. So did our son Swaine, an EMT and junior at Clinch Valley College, and our daughter, Melanie Adkins, who holds an advanced first aid card and lives in Blacksburg now. Son Bryant is very much interested in the squad and its equipment." Johnney just says modestly, "We all seem to like rescue work."

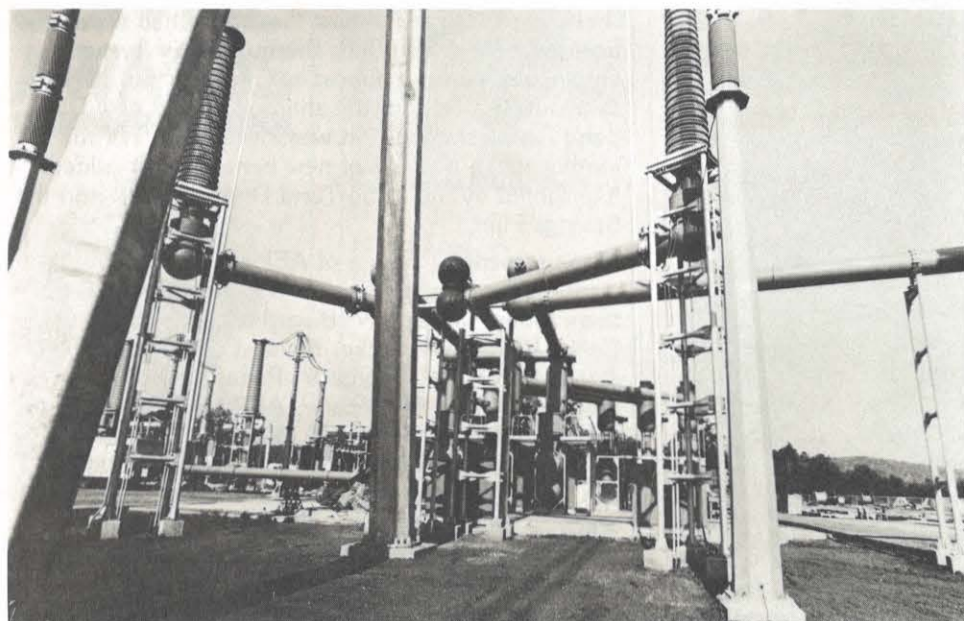
One of their neighbors in the Cleveland area says, "We couldn't get along without Maxine and Johnney. You know we have no doctor or clinic in Cleveland. They help keep our fine unit alive. Johnney's a good rescue man, but Maxine is just about as good and in some respects better — maybe."

Eighteen years of service to a large area of Russell County and several thousand persons is quite an achievement. But all the Skeens are achievers with a capital "A".



Scouting's highest rank, that of Eagle Scout, is presented to Mark Lee Landreth by his mother, Shirley, as his father, Don Landreth, stands nearby during a special ceremony at Abingdon United Methodist Church. Don, an engineering technologist in Abingdon, is also district chairman of the Pellissippi District of the Boy Scout's Sequoyah Council. Shirley is a former APCo Commercial Department employee.

WORLD'S FIRST 765 KV SF₆ STATION IN OPERATION



The world's first 765,000-volt station to use gas as an insulating medium and requiring less than 15% of the land area of a conventional substation is in operation near Lynchburg, Va.

Owned and operated by Appalachian Power Company, the Joshua Falls substation is the eastern terminus of the American Electric Power System's six-state 765,000-volt transmission network, the highest-voltage and highest-capacity electric power-delivery system in operation in the United States.

The new station is connected to the AEP System's backbone transmission grid via a new 57-mile, 765,000-volt line from Appalachian's Cloverdale substation near Roanoke. It provides the growing Lynchburg and eastern Appalachian service area with a new electric power source. From Joshua Falls, two 138,000-volt lines are carrying energy throughout the area, and a third is scheduled for service next June.

John W. Vaughan, executive vice president of Appalachian, said that while conventional substations use air as their insulating medium, Joshua Falls employs the gas sulfur hexafluoride (SF₆). "This reduces the electrical clearances required between transmission conductors and between the conductors and ground, making possible a highly compact, low-profile station structure with minimal impact on the surrounding environment. The smaller station retains the performance and capability of the larger conventional station.

"The 765,000-volt portion of the station occupies an area only 160 feet by 90 feet, less than 15% of the land area needed for a conventional station."

He went on: "In addition, the Joshua Falls site was chosen with both the environment and power needs of the area in mind. Because of the station's size, more of the existing natural site features have been preserved, and the facility itself was constructed in an open area surrounded by trees so that it is barely visible beyond the natural foliage cover."

The AEP System had already successfully applied SF₆ technology at a lower voltage before the Joshua Falls station was built, at two 138,000 stations in Indiana. The technology and equipment needed for extra high voltage took five additional years to develop. It was a joint effort on the part of AEP electrical engineers and the equipment manufacturer, Cogenel, Inc., the U.S. representative of Delle-Alsthon of France.

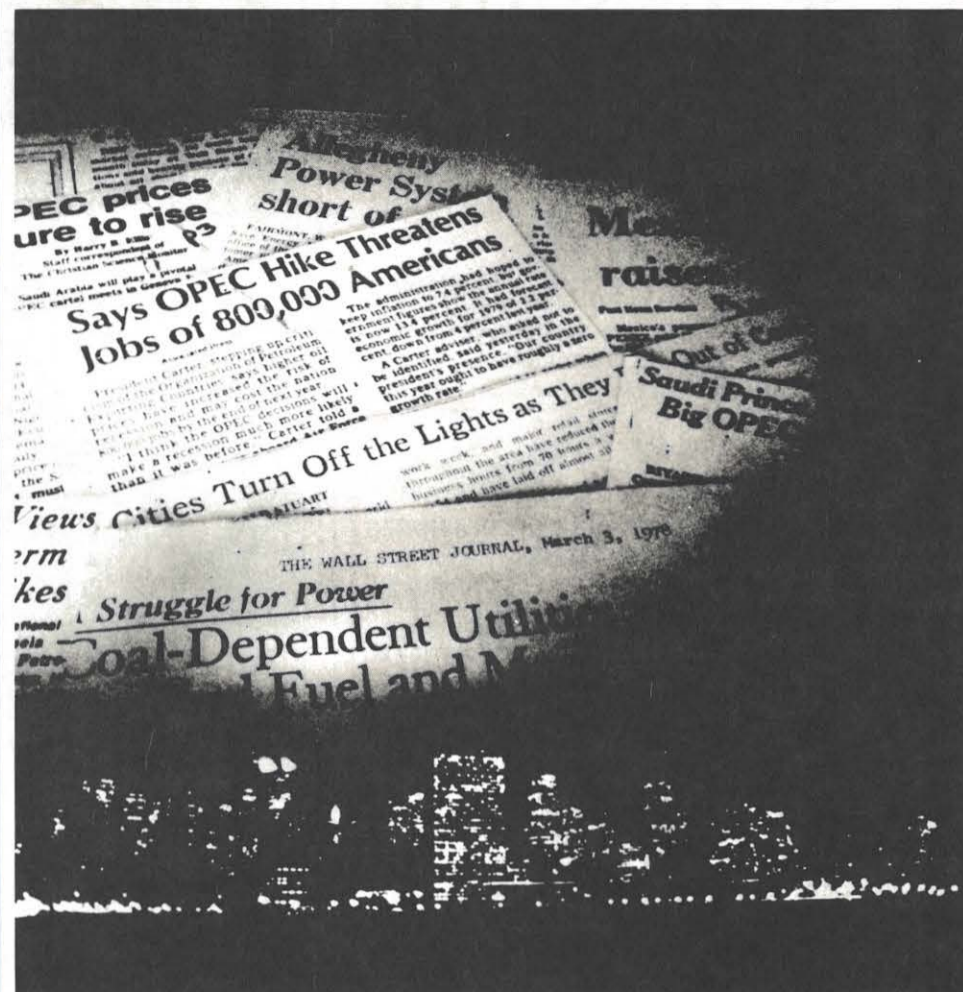
With operation of the Joshua Falls project, reliability of the 138,000-volt transmission system serving the entire Lynchburg-Bedford area has been substantially improved, Vaughan said. "Its completion is another step in a long-range program to satisfy the significantly higher power load levels expected in the area in the next 20-30 years.

"SF₆ technology, while setting the trends in station designs, opens up a variety of site options that we didn't have before. In station design, the Joshua Falls station proves that the growing demand for electricity can be met in an environmentally acceptable way," Vaughan concluded.



Charleston Division employees celebrated Christmas with a million manhours worked without an injury, as indicated above in the special "Christmas card." Representing the 359 employees in the Division are (from left) Robert L. Burnham, T&D clerk A in St. Albans; Norman J. Caldwell, hydro utility operator for Kanawha Valley Power Co.; Bonita F. Harper, meter reader; C. O. Carlini, division manager; W. H. J. Spencer, Sr., line mechanic A; Dale A. Petry, line mechanic D in Montgomery; and Maxine M. Urwin, customer accounts rep A. The record began July 22, 1978.

EI INITIATES NUCLEAR POWER AD CAMPAIGN



Where Is The Energy To Come From?

America needs energy and we all know it. Each year the demand for energy increases. Our electric energy consumption alone is rising at a rate of 4% each year.

Where will our energy come from? Certainly not from oil alone. President Carter has declared that the U.S. will cut by almost half the amount of foreign oil we import. But in order to reach that goal—and meet our electric energy needs this winter and beyond—America must find viable substitutes for the imported oil and gas now being burned as boiler fuels.

Coal:

We can and must use greater amounts of coal—for America's coal supplies are abundant. Coal cannot solve our energy problems alone. There are legal restrictions to burning coal that stem from our desire to have both energy and a clean environment. And past experience has shown us the danger of strikes and transportation problems.

Solar:

Solar energy holds great promise for the future. Through the use of solar collectors, buildings can be heated and cooled. However, scientists have yet to find an economical way to generate electricity from solar power. That technology is not expected to be available until the end of this century.

Even leading advocates of solar energy recognize the reality. As University of Arizona Professors Marjorie and Aden Meinel, pioneers in

solar research, have stated: "It would be folly to cripple any existing energy capability in anticipation of the imminence of solar energy." If oil is not available . . . solar electricity is a long way off . . . and coal cannot do it alone—then nuclear power must be part of the energy answer.

Nuclear: Clean...Safe...Available

Americans have been depending on nuclear power for over twenty years. It currently furnishes 13% of the nation's electricity. In some areas, like Chicago, over 50% of the electricity used comes from nuclear.

Nuclear power costs less than other sources of electrical energy—about 17% cheaper than coal and more than 50% less than oil. In some areas, such as New England, the cost savings from nuclear are even greater.

We have enough uranium reserves in this country alone to fuel all of the nuclear reactors now in existence—as well as those planned for construction between now and the year 2000—for their entire lifetime.

It is a telling fact that most other industrialized nations—from the Soviet Union to Japan—are moving fast towards greater reliance on nuclear energy. Only America has been slow to move toward energy self-sufficiency.

One lesson should be clear to us by now: America cannot afford to be dependent ever again on any one source of energy. That is why nuclear power is so very important.

Nuclear Power. Because America Needs Energy.

America's Electric Energy Companies, Department A-1, Post Office Box 420, Póham Manor, New York 10803

The Edison Electric Institute's Committee on Energy Awareness recently started an advertising campaign supporting the need for nuclear power. The first of five print advertisements, titled "Where Is the Energy To Come From?" appeared in several newspapers as well as the December 10 issue of *U.S. News and World Report*.

Supported by nuclear manufacturers, suppliers, and utilities, the campaign is designed to take the offensive in the nuclear debate. This ad, like the other four in the sequence — "Three Mile Island," "Radiation," "Waste," and "The Opposition" — are factual and direct. They address what has become a political issue (i.e., nuclear power) in a manner designed to achieve maximum political impact for the nuclear industry.



John E. Faust (seated), executive vice president of Kingsport Power, buys a share of stock in ELECTRO from President Cheree Powers. ELECTRO is the Junior Achievement company sponsored by the utility. Looking on are, from left, JA advisors R. E. Ruecroft, electrical engineer; J. D. Nance, electrical engineer; J. S. Jordan, T&D record clerk B; and R. D. Harrison, customer accounting supervisor. ELECTRO, operated by 28 Achievers from seven area high schools, manufactures auto trouble lights.

DECADE OF '70s GONE, BUT NEVER TO BE FORGOTTEN

The Decade of the 1970s is gone, but it will never be forgotten, at least in the electric utility industry.

The 10 years that came to a close on December 31, 1979 were perhaps a period unmatched in the 100 years of electric light. The decade saw a topsy-turvy change in the very roots of our business: from 90 years of decreasing electric rates to 10 years of increasing them; from a philosophy of selling ever cheaper electricity to one of conserving ever more expensive electricity; from an abundance of electric energy to the very real possibility of shortages in the future.

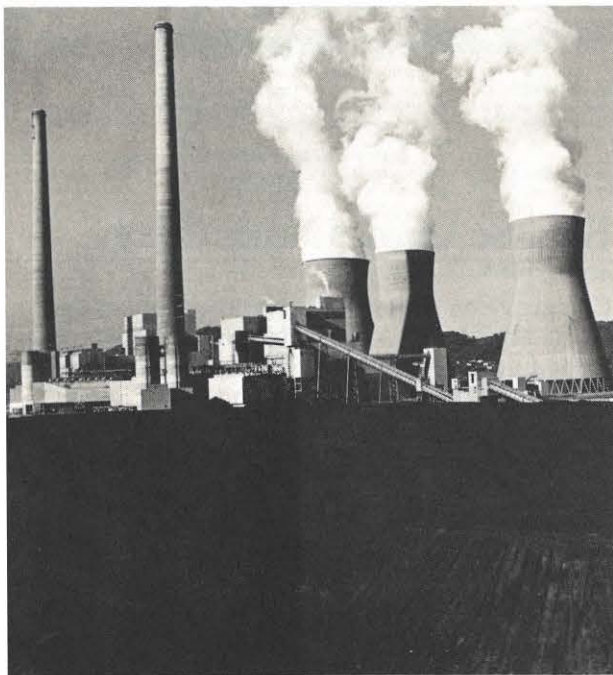
Coal prices doubled, then doubled again. So did interest rates. And the cost of building power plants.

There came along, in quick succession, the environmental movement, the no-growth litany, the anti-nuclear campaign, the put-your-new-power-plant-in-somebody-else's-neighborhood sentiment, the oil crisis, the consumer crusade, the intervenor, the objector, the litigant. Commoner, Nader, Fonda, Metzenbaum, Austin. Coal strikes, tornados, ice storms, nuclear sabotage.

Through it all, America's use of electric energy grew, and the electric power industry was able to meet that growth. Leading the way, in many respects, was the American Electric Power System.

Here are some of the major developments, on the AEP System, that took place in the Decade of the 1970s that will make it one of the most memorable in AEP's 73-year history:

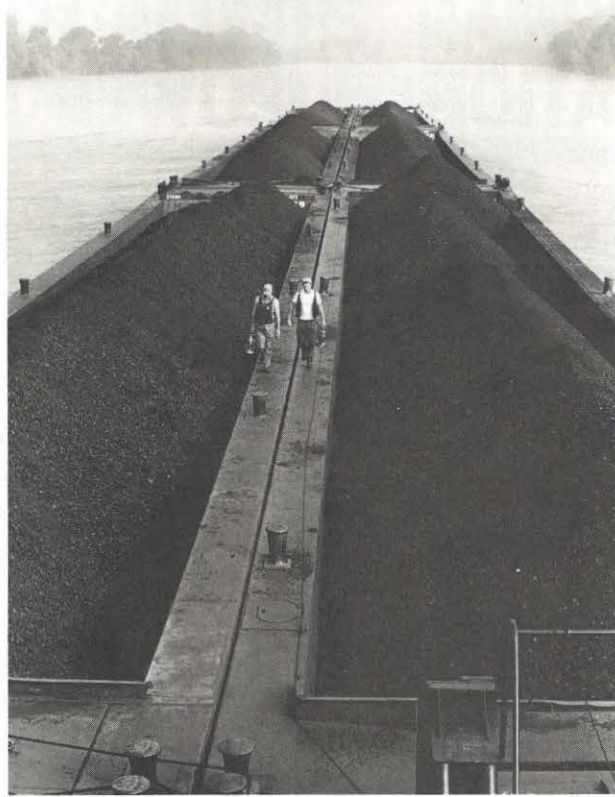
Power Supply — As the 1970s began, the AEP System had a total available power supply of 12-million kilowatts; when it ended, it was up over half, to almost 18.7-million kw. A few months ago, AEP became the first investor-owned utility to generate over 100-billion kilowatt-hours during a 12-month period. The System had 118,000 residential electric heating customers at the beginning of the decade, and today has approximately 392,000 — a gain of some 232 percent. But we won't reach our long-time goal of 500,000 by 1980.



Amos Plant

System Expansion — The 1970s saw the AEP system generate its first nuclear power from the Donald C. Cook Nuclear Plant in Michigan. The decade also saw our (and the world's) first 3-million-kw generating units in service: one at the John E. Amos Plant in West Virginia and two at the General James M. Gavin Plant in Ohio (with three more under construction). All coal-fired, of course. And the System's 765,000-volt backbone transmission grid — the world's strongest- and highest-capacity power-delivery network — grew from 68 to 1,400 miles in service, with more on its way.

Fuel Supply — Our coal-mining effort grew substantially in the past 10 years. Three new coal-mining companies (Cedar Coal, Southern Appalachian Coal and Southern Ohio Coal) were formed in the East, and another (Price River Coal) in the West, doubling the number of our fuel subsidiaries.



Major new mines (including the Meigs complex in Ohio, Martinka in West Virginia and the Price River operation in Utah) were developed. The System began operating its own major coal-transportation fleet of 3,200 railroad cars, 27 towboats and over 500 barges, and its own rail-to-river coal-transfer facility at Metropolis, Illinois. And the overall goal of our fuel-supply effort shifted from quantity to quality of the coal delivered to our power stations.

Technology — We are today researching the transmission of electricity at voltages in the range of 1-million to 2-million volts. Just last month we began operating the world's first 765,000-volt transmission station using a gas (sulfur hexafluoride) rather than air as an insulating medium, thus saving space (see story in this issue). Just last month, too, we began operating, in Canton, Ohio, what may be the electric power industry's most advanced computer center. And we are heavily involved in research and development work in many other areas, including the gas-cooled fast breeder reactor, magnetohydrodynamics, current limiting, solid-state electronic switching and the use of microprocessors.

Load Management — The 1970s have seen new efforts in load management and energy-conservation. For example, as the decade came to a close, we announced plans to offer an electric-thermal-storage program to our residential customers so that they could store heat built up during off-peak hours for use during on-peak hours, saving money in the process by the use of time-of-day rates, and at the same time helping AEP by lessening our need to build new generation (see story on page 2). For another, we are studying various methods of space heating, as well as insulation and other energy-conservation methods, in a series of test homes across the System. And we are continuing our 40-year interest in the heat pump even while studying other heating means, such as solar energy.

Environment — During the 1970s the AEP System carried out the most massive environmental-protection program in its history, backfitting high-efficiency electrostatic precipitators at most of its coal-fired power plants at a total cost in excess of \$600 million. The job entailed the installation of such equipment on 24 generating units, all but two of which are now completed. As the decade came to a close, we were test operating the world's first coal-cleaning facility, at our Muskingum Mine in Ohio, using the Otsica (without water) process. During the decade, we put in operation our 10th natural-draft cooling tower, to protect river waters, and were building three more. No other utility has as many.

Acquisitions — On January 1, 1970 AEP had already been waiting close to two years for approval by the Securities and Exchange Commission for its proposed acquisition, through an exchange of common stock, of the Columbus and Southern Ohio Electric Company. On December 31, 1979, such approval was imminent. (Meanwhile, AEP announced that it would move its headquarters from New York City to Columbus, beginning next summer, whether or not the SEC approval came through.) In the middle 1970s, Indiana & Michigan Electric acquired a lease of the City Light municipal utility in Fort Wayne, Indiana and, for the first time, began serving the entire city rather than sharing it

with the municipal operation. But, as 1979 ended, some residents there were seeking to cancel the lease and have the operation revert back to the municipality.

Shareowners and Employees — During the decade of the 1970s, the number of AEP common stock shareowners leaped almost two-and-a-half times, from 84,800 to 295,000; the number of System employees went up almost half, from about 14,400 to about 21,000. For the shareowners, a new Dividend Reinvestment Plan was introduced. For the employees, a number of new benefits were added, highlighted by the Long-Term Disability Plan and the Savings Plan.

Management — Seven of AEP's 14 directors who were on the Board when the 1970s began are still there today: William W. Boeschstein, Herbert B. Cohn, Richard M. Dicke, Richard G. Folsom, Gen. James M. Gavin, George V. Patterson and Frank Stanton. During the decade, AEP had two chairmen (Donald C. Cook, 1971-76, and W. S. White, Jr., 1976-), three presidents (Cook, 1961-72; Patterson, 1972-77, and Richard E. Disbrow, 1979-) and one vice chairman (Cohn, 1972-77). Among the seven operating companies, six have executive vice presidents who were elected within the past 10 years. Only one, Michigan Power's Richard W. Sampson, was in that office when the decade began.

'SWEETIE' NOTES RECEIVED MONTHLY FOR ELEVEN YEARS



Alice Johnson, left, and Catherine Swain

Each month for more than 11 years, a "Hi Sweetie" note has been received in the mail by Roanoke Division cashiers. Catherine Swain, cashier-B, and Alice Johnson, cashier-A, watch with interest each month to see if their admirer has remembered them.

"The last note read, 'Hi Sweetie and Merry Christmas and Happy New Year to all AEP Co. employees,'" Alice said. "We know it's a retired employee because of the envelope it comes in. There's just the note, though, and no check or bill," she said.

It's Catherine's guess that he pays the bill at one of the banks and uses the return envelope to mail the note. "It usually just says 'Hi Sweetie'," Catherine remarked. "Wondering who it is is driving both of us crazy," she laughingly added.

"Be sure to tell him that we appreciate the notes — they make our day. And tell him that we wish him a Merry Christmas and a Happy New Year, too", Alice said. "We'd like for him to come and see us," added Catherine.

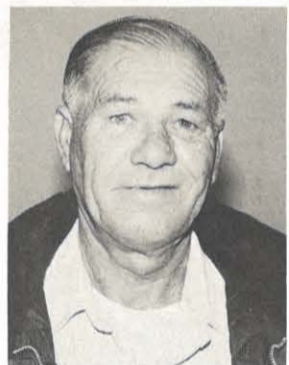
VETS RECEIVE SERVICE AWARDS



R. D. Simmons
Stores Supv.
Bluefield
35 Years



J. L. Osborne
General Line Supv.
Abingdon
35 Years



J. E. Hash, Jr.
Surveyor Asst. — Rod
Bluefield
35 Years



R. L. Hall, Jr.
Comm. Eng., Sr.
GO-Huntington
30 Years



H. L. Buston, III
Meter Elec. A
Bluefield
25 Years

Central Machine Shop

5 Years: **James C. Alford**, machinist 2nd class.

Centralized Plant Maintenance

10 Years: **Clem E. Babcock**, maintenance supervisor.

Charleston

15 Years: **L. R. Bird**, engineering technologist. 10 Years: **D. L. Harris**, line mechanic. **B. E. J. Scott**, engineering technician.

General Office

15 Years: **Joyce A. Cook**, general records accountant, GO-Roanoke. **R. L. Gowl**, work order accounting supervisor, GO-Roanoke. **R. R. Short**, engineering technician, GO-Roanoke. 10 Years: **R. H. Hogan**, electric plant clerk, GO-Roanoke. **P. M. Weaver**, communications supervising engineer, GO-Roanoke.

Kanawha River

10 Years: **Dayton A. Neil**, performance supervising engineer.

Kingsport

10 Years: **R. K. Hess**, material clerk.

Lynchburg

10 Years: **G. R. Blake, Jr.**, stores attendant senior. **D. J. Scott**, general servicer.

Pulaski

5 Years: **C. V. Burnette**, meter reader.

Roanoke

10 Years: **Ralph Stephen Hannah**, line mechanic D.

Philip Sporn

10 Years: **J. A. Gilmore**, maintenance mechanic. **B. R. L. Bragg**, instrument mechanic A. 5 Years: **D. G. Edwards**, performance engineer senior.

KIRKLAND HELPED SELL NEWFANGLED ELECTRIC SERVICE



Claud Kirkland remembers the day when he was sitting in his four-door Willis, fender-deep in the middle of a frozen stream, the water caressing his ankles, and electricity was a new idea.

Kirkland retired January 1 as manager of the Pulaski Division after 43 years with Appalachian. He was in charge of 236 employees and responsible for the needs of the 75,000 customers in the division's eight-county service area.

He came to Appalachian in 1937 after a seven-month stint with Virginia Electric and Power Company in Richmond, where he took a job after graduating from Virginia Tech in 1936.

Kirkland recalls, "At the time I finished college, jobs were very difficult to get, and you just didn't ask any questions as to what was involved. The first offer I got, I took. The people didn't come around and recruit you to take a job. You were really on your own; and, if you happened to hear a rumor, you tried to follow it up. We were just getting out of the depression, and a job was a job."

He continues, "I guess it was just fortunate that I got into the electric business because I don't know any field I would have enjoyed any more than this."

"I heard through the professor of agricultural engineering at VPI that Appalachian was employing agricultural engineers to carry out their rural electrification program, so I came to Pulaski to be interviewed by L. L. 'Skinny' Koontz and was employed practically on the spot as a rural service engineer."

Kirkland goes on, "At that particular time in 1937 the old Bluefield Division, which included Bluefield, Pulaski and Welch Districts, committed itself to serving the entire area with electric service. Appalachian took the position it was going to serve the area entrusted to us and we were not going to have any co-ops in it."

"I was a member of the 'flying squadron', composed of six young agricultural engineers whose job was to see that every nook and cranny of the area we were assigned to had electric service. In order to meet our goal of saying that Appalachian served the area instead of some co-op, it became necessary to pull all of the members of the flying squadron into an area and put on a blitz. In doing so, we would move into a given area, divide up the territory among the various members of the group, and cover it in as short a period of time as possible. We would fan out all over a county, signing up people for electric service. During the evening we would plot out what we had done during the day, the engineering department would design the line before daybreak, and generally a contractor crew was out pretty early the following morning building the line. That is a far cry from the paperwork that is involved in extending facilities today."

"Our job was to work when people wanted us to work. It was hard but it was enjoyable. You knew you were doing a service for someone so time really meant nothing. When we worked, we worked hard. When we played, we played hard."

"It was difficult to convince persons accustomed to the ways of their parents to accept the benefits of the new product. You would go out and knock on peoples' doors. Most of the time they wouldn't come to the door. If they did, they wouldn't talk. We used what we called a 'king bee' to help infiltrate a community. This was a person who knew the people in an area, in most cases had already signed up for the newfangled service, and could convince his neighbors the APCo men were more than city slickers looking to make a fast buck."

"Generally speaking, people accepted electricity because it did a better job. Starting as a small original company, we sold the advantages of one form of energy over other forms of energy that were in use at the time."

After three years of service with the Army Signal Corps in World War II, Kirkland went to work in Abingdon, where he was promoted to assistant district manager in 1951 and manager the following year. He moved to Welch as district manager in 1959 and in 1962 became manager of the Bluefield and Welch Districts. He was promoted to assistant Bluefield Division manager in 1964 and to Pulaski Division manager in 1967.

Married to the former Virginia Riggle in 1936 during his last quarter in college, they have two sons. The oldest, Bill, is a civil engineering graduate of VMI and is with L&N Railroad in Louisville, Kentucky. The youngest, Pat, graduated from East Tennessee State University and is connected with Pulaski Motor Company.

The Kirklands plan to continue living in Pulaski because "it's a nice area and we are happy here". He notes, "We are going to pretty well take it as it comes. I am positive I am not going to sit down in a rocking chair. Whatever comes up I want to do, I expect pretty well to do it."

He adds, "All my life I have been somewhat mechanically inclined and have enjoyed working on things. I started out working on wagons, then bicycles, motorcycles and automobiles, but when it came to airplanes, I quit. I still do a certain amount of motor and body work restoring cars — not antiques — but working on abused cars and repairing them."

"I have been buying up some older property with the idea of remodeling it and either renting or selling it. That is something I can do when I want to. At the moment I have bought four houses here in Pulaski. I have one of them finished and three to go."

A member of the First United Methodist Church of Pulaski, he serves on its board of trustees; and is a member of the Pulaski Rotary Club, chairman of the Pulaski Public Housing Authority and president-elect of the Pulaski Chamber of Commerce. "I certainly have every intention of staying active in civic affairs and church work and hopefully will continue to be a good ambassador for Appalachian Power Company."



A dream has come true for Mary Jane Tennant, wife of Carl L. "Buck" Tennant, Philip Sporn Plant maintenance supervisor. For 17 years, Mary Jane has been showing English horses and, over the years, has done well. In 1979, however, she topped all her previous records with her horse, Prince of Fashion, winning four championship trophies in the Ohio Valley Horseman Association — English Halter Class, English Three Gaited Class, English Pleasure Class and High Point English Horse of the year.

MOVING UP



C. H. Bryant, former station mechanic A was promoted to station crew supervisor in Kingsport on December 3, 1979. He succeeds R. E. Wells, who retired.



Charles D. Cash, former performance technician senior, was promoted to performance technician supervisor at John Amos Plant on December 1. He attends West Virginia Institute of Technology.



Philip L. Chatting, former performance technician senior, was promoted to performance technician supervisor at John Amos Plant on December 1. He attends West Virginia State College.



Ralph E. Myers, former engineering technologist, was promoted to engineering technologist supervisor in Charleston on January 1. He replaces D. R. Huffman who has also been promoted.



Douglas L. Draper, former engineering technologist, was promoted to maintenance engineer at Philip Sporn Plant on December 1, 1979. He is working toward a bachelor of science degree in mechanical engineering at West Virginia Institute of Technology.



Richard A. Lutz, former performance engineer, was promoted to performance engineer senior at John Amos Plant on December 1. He holds bachelor of science degrees in mechanical and electrical engineering from Virginia Polytechnic Institute and State University.

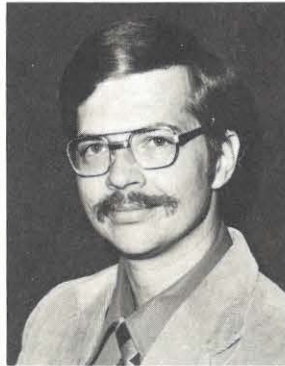


Eddie L. Richards, former engineer B, was promoted to engineering technologist in Charleston on January 1 succeeding Ralph Myers. Richards holds an associate degree in engineering technology from West Virginia Institute of Technology.



Wayne T. Pugh, former public information coordinator-nuclear in General Office Public Affairs, Lynchburg, was named

residential services coordinator in General Office Customer Services, Roanoke, on January 1. He holds a bachelor of science degree in business administration from Virginia Polytechnic Institute and State University.



Bruce W. Shrader, former engineering technologist, was promoted to performance engineer at Philip Sporn Plant on November 1, 1979. He holds an associate in science degree in mechanical engineering from West Virginia Institute of Technology.



Robert W. Staton, former right-of-way agent, was promoted to right-of-way supervisor in GO T&D R/e & R/w, Roanoke, on December 1, 1979. He succeeds W. A. Irvin, Jr., who retired. Staton holds an associate of arts degree in business administration-management from National Business College.

NEW FACES AROUND THE SYSTEM

John Amos Ernest Igo, Charles Shilling, Robert Kauff and Douglas Jones, utility workers. **Jerry Midkiff, Roy Cain, James Dean, Christopher Goodwin, Roger Plymale, Kevin Huff, Guy Null, John Mobley, Jr., Carolyn Fisher, and Mark McLaughlin**, maintenance mechanics D. **Susan Osborne**, junior clerk.

Charleston
Charles S. Trout, meter reader.

General Office
David E. Campbell and Jerry T. Williams, junior clerks, GO Accounting, Roanoke. **Susan W. McClure**, payroll clerk C, GO Accounting, Roanoke. **William R. Booze**, junior clerk, GO General Services, Roanoke. **Mary W. Nelson**, telephone operator, GO General Services, Roanoke. **Lee A. Bryant**, junior clerk, GO Operations, Roanoke. **Jessie R. Shelley**, station mechanic D, GO T&D Station, Bluefield.

Kingsport
J. D. Blankenbeckler, service clerk.

Pulaski
H. T. Grubb, meter reader, Wytheville. **Gail H. Clark**, office messenger.

Roanoke
J. Lynn Gurley, Jr. and Richard L. Calhoon, line mechanics D.

Philip Sporn
Mark Owens, performance engineer. **Mary L. Bannister**, plant clerk C.

OSTROM RETIRES FROM GUARD



William Ostrom, Kanawha River Plant maintenance mechanic B, retires from the Air National Guard early this year as a master sergeant.

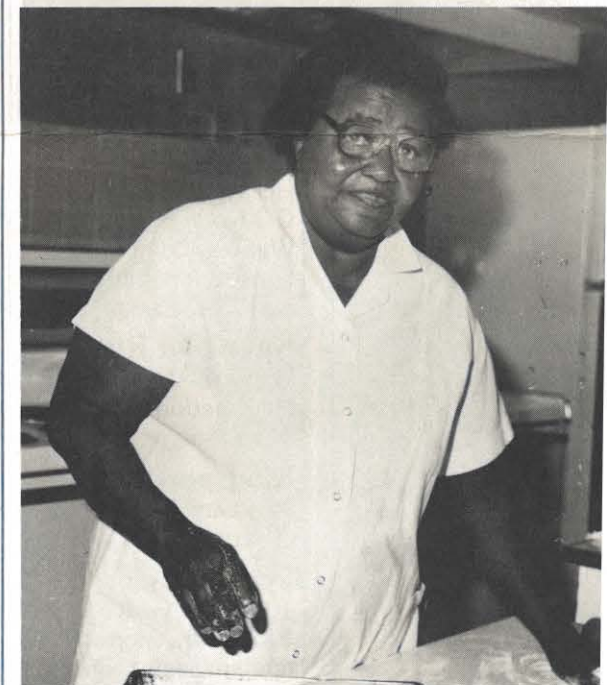
He joined the Guard in March 1957 as a corporal due to prior U.S. Army service. During his National Guard career, Ostrom traveled to Portugal and Alaska and was in Panama right after the revolt in that country.

ACCEPTED OIP PROPOSALS

Abingdon Division	16
Beckley Division	1
Bluefield Division	7
Charleston Division	10
Huntington Division	3
Logan-Williamson Division	3
Lynchburg Division	7
Pulaski Division	29
Roanoke Division	9
John Amos Plant	7
Clinch River Plant	4
Glen Lyn Plant	4
Kanawha River Plant	8
Philip Sporn Plant	4
Central Machine Shop	1
Centralized Plant Maintenance	2
GO Accounting	15
GO Customer Services	2
GO General Services	2
GO Hydro	3
GO Land Management	7
GO Operations	8
GO Personnel/Executive	9
GO Public Affairs	3
GO Purchasing	1
GO Transmission/Distribution	1

Total accepted by General Office for processing as of December 11 160

LOOK FOR HARVEY ON THE RIVERBANK



"I'd like to be right back at Byrd Lodge, but my health will not permit it," says Katherine Harvey. "I cried for two weeks when the doctor told me I couldn't work anymore." Katherine took early disability retirement August 1, 1979, from her job as cook-housekeeper in Pulaski Division.

Any employee who has ever participated in a company training program at Byrd Lodge can tell you about the mouth-watering meals Katherine put on the table, seemingly with almost no effort. She is proud of the fact she has served meals to many of the AEP System's officials, including the late Graham Claytor, G. L. Furr, M. C. Funk, R. E. Hodges and Joe Gills, and Don Cook, Pete White and John Vaughan. "Appalachian is a wonderful company to work for. Everyone has been so nice to me. If I could count the time I worked for Appalachian before actually being put on the payroll, would have worked about 23 years."

Katherine's plans include helping her husband Kin in the garden whenever she is able and also to do some canning. "I will also visit some of my grandbabies I haven't ever seen." "Mother" to 20 children, all of which are stepchildren or adopted, she has 57 grandchildren and 7 great grandchildren. Future visitors to Byrd Lodge, however, may find Katherine at the lake enjoying her real love — fishing. "I am on the river bank every chance I get." She is also active in the Church of God in Christ, Radford.

POWER PEOPLE MAKING NEWS

Abingdon

Linda Phillips, junior stenographer, and **Sharon Gobble**, stenographer, have been installed as members of a new National Secretaries Association (International) chapter in Washington County (Va.).

Betty Fullen, daughter of Fred Fullen, building maintenance, was 4th runner-up in the Miss Patrick Henry High School pageant sponsored by the senior class.

Bluefield



Kelly Crowder, daughter of Princeton area service restorer Bob Crowder, has been selected for inclusion in the 1979-80 edition of "Who's Who Among Students in American Universities and Colleges." Kelly is a student at Concord College. She has also been included in the second annual edition of "The National Dean's List" in recognition of being in the upper 10 percent of her class. Students selected for this honor represent less than one-half of one percent of the eight million college students in the U.S.

Larry Houston, communications engineer technologist, has been selected by the Bluefield, W. Va., Jaycees to appear in the 1980 edition of "Outstanding Young Men in America."

Marilyn W. Lackey, daughter of retired residential sales supervisor Earle Wood, will be listed in the upcoming "International Who's Who in Education." Currently director of college relations at Concord College, Marilyn is a graduate of

Concord with a bachelor's degree in education. She also holds a master's degree in family development from Virginia Polytechnic Institute and State University. Marilyn became an instructor in home economics at Concord in 1963 and remained on the faculty until 1976 when she was named to her present position.



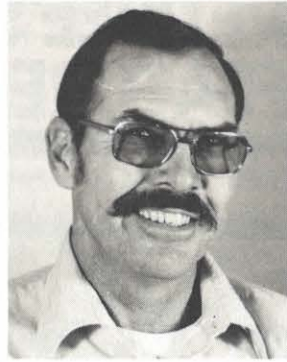
Mary Lou Epperly is the recipient of a \$200 merit award from the Radford University Foundation as an outstanding undergraduate student in the Business Department. The daughter of Personnel Supervisor Lloyd Linkous, she is a senior business accounting major.

Evelyn, wife of Pineville area supervisor Jack Martin and president of the Preceptor Chi Chapter of Beta Sigma Phi sorority, attended the sorority's state convention at Martinsburg, W. Va.

Charleston



Margaret, wife of Robert Isner, engineering technician senior, has been elected West Virginia governor for Quota International, a service organization of professional and business women. In her new position, Margaret will coordinate the service activities of 13 clubs throughout the state. In addition, she has traveled to Washington to represent the organization and, early this year, will do so in Australia.



Samuel J. Dunn, line crew supervisor exempt, has been elected president of the Nitro Lions Club.



C. O. Carlini, division manager, will serve as 1980 chairman for the Kanawha and Putnam County United Way campaign. He has also been elected vice chairman of the Charleston Regional Chamber of Commerce and Development for 1980 and chairman-elect for 1981.



Frank Scholl, meter service mechanic A, used his first aid training the day he received it. On the day he completed the training session, his sister fell and broke her arm. Frank placed a splint on her arm to protect her from further injury until the ambulance arrived.

General Office



Evelyn, wife of employee benefits administrator D. H. Crabtree, has been elected an assistant accounting officer by the directors of Dominion Bankshares Corporation. Evelyn, a graduate of New River Community College, manages the

Financial Information and Control Department in the Controller's group. She is currently enrolled in the evening program at Radford University majoring in business management and accounting.



Waverly III, son of Waverly Thornhill, Jr., of GO General Services Department, Roanoke, has graduated from basic training at the U.S. Navy base at Great Lakes, Ill. Seaman Thornhill graduated with honors and was Honorman for his Company. He also served as recruit chief petty officer. He has been promoted to seaman apprentice and assigned to the Norfolk, Va., Navy base pending further training at San Diego, Calif.

R. D. Coffman, right-of-way agent, GO T&D R/e & R/w, Roanoke, has been elected to a third one-year term as chairman of the church board for the Williamson Road Church of the Brethren.



Wendy, daughter of Patsy Smith, secretary, GO Executive, Roanoke, was named to the Cave Spring Homecoming Court. She also won the Youth and Physical Fitness Award in the Roanoke Valley Junior Miss Pageant.

Steven, son of J. W. Hagerman, transmission supervising engineer, GO T&D Transmission Line Section, Bluefield, has been chosen for the All Area football team. Steven, a senior at Graham High School, played the position of offensive tackle.

J. W. Hagerman, transmission supervising engineer, GO T&D Transmission Line Section, Bluefield, has been elected vice

president of the Bluefield, Virginia, Kiwanis Club.

Kanawha River

Jamie, son of J. E. Hoffman, maintenance supervisor, has been inducted into the National Honorary Society of Mechanical Engineering fraternity (PI TAY SIGMA). To be eligible, students must rank in the top 35 percent scholastically, and only 11 students at West Virginia Institute of Technology were selected.

Kingsport

Kimberly, 5-year-old daughter of J. L. McCann, line mechanic B, had the leading part in her kindergarten Thanksgiving play.

Lynchburg

Janice, wife of Doug Fitchett, electrical engineer, will play "Mary" in the Lynchburg Fine Arts Center production of "Vanities" later this month. Janice has directed several shows at E. C. Glass High School, where she is drama director, but this will be her first acting role in Lynchburg.

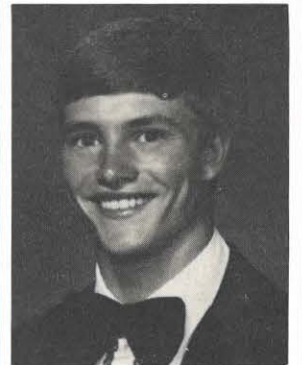
Pulaski



David, son of J. R. Pugh, drafter A, is included in the 13th annual edition of "Who's Who Among American High School Students." Selections are based on academic achievement, as well as leadership in school activities, athletics or community service. David is a senior at Pulaski County School.

Claud K. Kirkland, retired division manager, is president-elect of the Pulaski County Chamber of Commerce. He has also been elected to a three-year term on the Chamber's board of directors.

Roanoke



Stewart, son of L. E. "Rainey" Sadler, stores attendant, is the recipient of several top athletic awards. A 5' 11" 166 lb. senior at Patrick Henry High School, Stewart played defensive end on the football team which finished the '79 season as runner-up in the state triple A football finals. His achievements include 1st Team Defense on: All Roanoke Valley, All Metro, All District, All Timesland; and All Northwest Regional teams. He was also named to All State Second Team Defense. Stewart's plans for the future include service in the U.S. Air Force.

Guy V. Funk, garage supervisor, has been elected chairman of the Mt. Pleasant Baptist board of deacons for 1980.

BABY PARADE

John Amos Sheri Lynn, daughter of **James C. Dabney, II**, maintenance mechanic C, December 2.

Donald Ray, III, son of **Donald R. Anderson, Jr.**, utility worker, December 9.

Beckley Steven P., son of **Ira P. Snodgrass**, engineering technician, November 26.

General Office Sarah Ann, daughter of **Jim L. Fariss**, engineering technologist supervisor, GO Hydro, Roanoke, November 14.

Mary Elizabeth, daughter of **James R. Wertz**, maintenance mechanic B, GO Hydro, Roanoke, November 26.

Kingsport Rachael Michelle, daughter of **D. W. McMurray**, line mechanic C, October 30.

Roanoke Stacy Leigh, daughter of **D. W. Crouch**, T&D clerk B, September 27.

FRIENDS WE'LL MISS



Calvin Cyfers, 74, retired Logan-Williamson lineman C, died November 27. A native of Wayne County, West Virginia, he was employed in 1925 as a groundman and elected early retirement May 1, 1962. Cyfers is survived by one son.



Cecil C. McClellan, 70, retired Kingsport line and service clerk, died November 26. A native of Scott County, Virginia, he joined Kingsport Power in 1937 as a groundman and retired May 1, 1973. McClellan is survived by his widow Anna Lee, 172 Gravelly Road, Kingsport, Tenn., three daughters and four sons.



Reese C. Scarlett, Jr., 73, retired Kingsport station supervisor, died December 18. A native of Knoxville, Tennessee, he began his career in 1927 as a meter tester and retired July 1, 1971. Scarlett is survived by his widow Mildred, 402 West Ravine Road, Kingsport, Tenn.

CLINE TO WORK AROUND HOUSE



"It looks like a man never gets through fixing things up around the house," claims Eli Jackson ('E.J.') Cline.

E.J. will have a lot more time to take care of things at home since his retirement January 1 as an area service restorer in Pulaski. A native of Wythe County, Va., E.J. has selected the early optional retirement.

Joining the company on April 8, 1941, as a groundman, E.J. served in several line positions before being named area serviceman in 1957.

"I'm sort of a jack-of-all trades," E.J. says, "and I enjoy tinkering around with cars." He also lists fishing, hunting and gardening among his hobbies.

E.J. is a member of the Order of Oaks, an honorary fireman (he was active with the fire department for 15 years), and attends the Christian Church.

He married his wife, Helen McAllister, on September 15, 1938. They have one child and three grandchildren.

SYSTEM COUPLES MARRY



Mitzi Ann Whitt to **Raymond Lee Thomas**, son of Ray-

mond E. Thomas, Lynchburg drafter A, October 20, 1979.



Karen Lynne Bolling, Lynchburg junior clerk, to Philip Glen Holbrook, November 23, 1979.



Lu Ann Gibson, daughter of L. Willis Gibson, maintenance mechanic A, John Amos Plant, to F. D. Searls, November 24.



Deborah Lynne Anderson, daughter of Mervyn E. Anderson, Bluefield station crew supervisor, to Shannon Dean Hardwick, November 3, 1979.



Marguerite Bumpus to **Michael Smoot**, machinist 2nd class at Central Machine Shop, on October 19, 1979.

Usha Kohli to **Nand K. Lambha**, Philip Sporn performance engineer, September 29, 1979.

RETIREE'S HANDIWORK FEATURED IN HOME



Eden Roc, the Fort Patrick Henry Lake retirement home of A. W. "Art" and Marjorie Stair, displays many examples of the former Kingsport Power residential services coordinator's handiwork. Few, however, are viewed with more pride than are a western style light fixture and a huge natural limestone fireplace he built.

The light fixture is constructed of discarded 7-foot crossarms and horseshoes. It features four electrified oil lamps that are controlled by a dimmer and two convenience outlets. The total weight of the fixture is 70 lbs. "When the house was under construction, I had a support beam installed in the ceiling to support a heavy fixture," the April 1978 retiree said.

A unique feature is the placement of the horseshoes on the end of the fixture that is not only decorative, but serves as a counter balance to prevent the light from tilting and twisting.

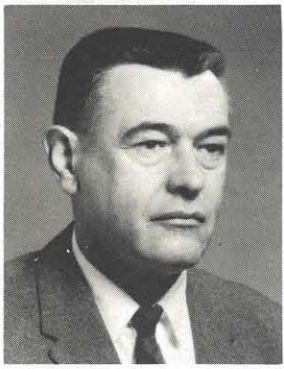
Also, Art has built a 13' x 8' natural limestone fireplace across one end of his basement den. The rock was collected from surrounding fields and moved to his home over a period of several months. The mantel is made of a solid wood roof timber discarded by a local industry. The fireplace features a heatilator equipped with outside air ducts and four heat supply vents.

Art, who has many other projects to keep him busy, says, "I have lots to do around the house, but the fact that I can work at my own pace when I want to makes it very enjoyable."



Serving as officers of the Appalachian Chorus for 1979-80, are: front row, l. to r., Ron Hogan, electric plant clerk A, treasurer; Doris Young, statistical analyst, vice president; Norma Lou Davis, customer accounting clerk, secretary; and Lila Post, civil engineer, librarian. Back row, l. to r., Bernie Coley, engineering technologist supervisor, president; Helen Honaker, secretary-stenographer, director; and Tom Hubbard, electric plant accounting supervisor, business manager. The Chorus is composed of more than 20 General Office and Roanoke Division employees.

MITCHELL VOWS TO KEEP BUSY



William C. "Mitch" Mitchell, T&D clerk A in the Marion area of Abingdon Division, has elected early retirement after 34 years of service.

Mitch claims he's seen a lot of changes since he was hired by the late John Sutphin in 1945. Working first on a crew for the Saltville area, Mitch says, "In those days you didn't receive all the training you receive now. As a matter of fact, I was climbing poles on the second day I came to work; of course, I was only assisting the lineman."

During this period, Mitch relates, all line work was generally done on deenergized equipment. Switching was accomplished by using stopwatches to coordinate the time of opening and closing the switches.

In the early days of the Abingdon District, Mitch helped build lines and develop the area. He recalls helping replace all the poles from Emory, Va., to Edmondson Dam at Damascus, Va., a distance of about eight miles. "There was no bucket truck or auger truck," he remembers. All the holes were dug by a man's strength and a lot of dynamite. All of the poles were set by hand. When we'd finished this project, I never wanted to look at another pole. Generally, when we had a project like this, the crew stayed out all week and came home on Friday evenings."

Mitch also helped construct the first stadium lighting in the Abingdon area at Latture Field. He says this was a "big deal" at the time because it allowed sports to be played at night for the first time. "Today, people just take these facilities for granted."

Mitch served in the U.S. Army artillery during World War II.

He took advantage of every opportunity to get an education and rose to the rank of first sergeant and served as an artillery instructor. He recalls spending time on an island called "Goodenuff." "Never did figure out what it was good for, though," he laughs.

Mitch and his wife Peggy — they've been married as long as he's been with APCo — plan to "keep ourselves busy." An avid hunter and sportsman, Mitch says he'll take advantage of this opportunity to "practice" his avocation. He and Peggy will also use their camper to do some traveling as "we have a good many relatives to visit."

A GOOD TIME TO RETIRE



Carol Whittington, Charleston meter service mechanic, retired January 1, after 33 years' service.

Explaining why he retired early, Carol said, "I think it's a good time to retire, while I can still enjoy it. I've planned early retirement for a long time."

The Buffalo, W. Va., native joined Appalachian on June 16, 1947, as a laborer. In December of that year he advanced to groundman B and in 1967 became a meter service helper B. Carol moved in 1977 to the position he held at retirement.

"In the early days, things were all done by hand," he remembers. "We set poles by hand. There was no modern equipment. I've seen a lot of people come and go since I've been here and I've made a lot of friends. I hope I don't have any enemies either with the company or outside the company."

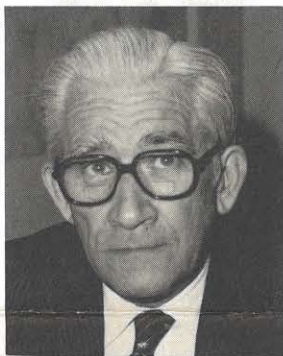
Carol reports that he plans to do a lot of fishing and a lot of farming. He and his wife Ida have two sons in the construction

business, and he plans to help them on a part-time basis. He also plans to spend the winter months in Florida and may do some traveling — one of his three sons lives in Colorado and another in Florida.

"I'll probably spend time with them, but a lot will depend on the gasoline situation. I'll probably do some rabbit and squirrel hunting, as well.

"I've really enjoyed working with the company and if I had it to do over, I'd probably do the same things as I've done."

TRAVEL, CHURCH TO FILL TIME



Travel and more time for church-related activities and programs are among the future plans of William A. "Bill" Irvin, Jr., who retired January 1 following nearly 44 years of service.

Bill, whose last APCo assignment was as a right-of-way supervisor in GO T&D R/e & R/w, Roanoke, began his career on a rather uncertain note.

The year was 1936 when Bill got a call from the late P. T. Smith, then chief draftsman for the Real Estate and Right-of-Way Department. Reporting for an interview the next morning, Bill responded with "now" when asked how soon he could report to work. Told to "hang up your coat," Bill went to work not knowing if the job would last two days or two years. As it turned out, his job lasted 43 years and 8 months before he decided to take early retirement.

Incidentally, a couple of days after Bill came to work, he got around to learning what his salary would be.

Over the years, Bill has served in various drafting and right-of-way agent positions. He has

been a right-of-way supervisor since May 1971.

A member of Greene Memorial Methodist Church in Roanoke, Bill has served on the Board of Stewards, as president of the Boraca Men's Bible Class, on visitation and membership committees and as a member of the Methodist Men's Club. He and his wife Hilda have one child.

TRAVEL, HOBBIES TO FILL AGENDA



With plans for activities ranging from ceramics classes to travel tours throughout the U.S. and Canada, Jewell C. Ramsey, payroll clerk A in GO Accounting, Roanoke, ended her 32½-year career on January 1.

"I started to work in payroll on Campbell Avenue on July 18, 1947," Jewell reminisces. "John Jett was our supervisor and there were only seven of us in payroll. Of course, we serviced just the Roanoke and Fieldale areas."

"Then, all subtraction, addition, multiplication and division functions were done manually. Sometimes I wish it was still this way. Today, when a machine or computer goes on the blink, the work is stopped," she says. "Otherwise, the work today is basically the same as when I first came to work here, there is just a lot more of it."

Jewell's first job was as a clerk junior. She later served as a junior and senior payroll clerk and, since 1951, has been payroll clerk A. Her entire career has been at the General Office in Roanoke.

"I plan to get back into ceramics. I took classes at one time and would like to take it up again," Jewell says.

In addition, she reports that sewing and cooking are two of her

favorite pastimes. "I truly enjoy trying new recipes — and tasting them."

Jewell says she hopes to travel. In addition to more frequent visits to her ill mother in Oak Hill, W. Va., she hopes to take tours which cover both Canada and the U.S. Remembering a 1960 trip to Florida, Jewell adds, "I'd also like to relax at some beach or resort area for a few days."

HUNTERS SCORE

John Amos

J. D. Barton, unit supervisor, 150 lb. 4-point buck. **J. H. Harris**, performance technician, 140 lb. 6-point buck. **Chris Harris**, utility worker (summer), 145 lb. 6-point buck. **Howard Noffsinger**, 145 lb. 6-point buck with bow and arrow. **David Abbott**, maintenance mechanic A, 10-point buck. **Thomas Tucker**, utility operator A, 150 lb. 3-point buck. **Robert L. Clark**, utility operator A, 2-point buck. **Ronald B. Cobb**, utility operator B, 6-point buck.

Beckley

J. C. Barker, personnel supervisor, 175 lb. 10-point buck. **W. L. Walker**, right-of-way agent, 175 lb. 8-point buck. **K. K. Keatley**, area service restorer, 125 lb. spike buck. **A. C. Altizer**, engineering technician, 125 lb. spike buck.

Bluefield

Jack Martin, Pineville area supervisor, spike buck. **Dave Hill**, engineering technician, 7-point buck. **Bill Goode**, line mechanic A, 4-point buck. **J. E. "Snake" Chapman**, line crew supervisor, turkey gobbler and hen. **Jackie Lambert**, meter reader, doe with bow and arrow. **Ted White**, Princeton area supervisor, spike buck. **Dave Mann**, area service restorer, 7-point buck and turkey hen. **Dave Dodson**, communications engineering technologist, 8-point buck. **Jake Kirby**, transmission mechanic A, 8-point buck. **Frank Oresta**, garage supervisor, spike buck. **John Harvey**, line mechanic A, spike buck. **R. R. "Casey" Jones**, construction supervisor, 4-point buck and turkey hen.

Charleston

M. D. King, line mechanic A, 6-point buck.

Clinch River

Norman Elmo Bass, assistant shift operating engineer, 400 lb. bear.

General Office

Kenneth J. Stump, engineering technologist, GO Hydro, Roanoke, 8-point buck and 2-point buck. **Thomas E. Tyree**, transmission mechanic A, GO T&D Transmission, Roanoke, 7-point buck. **Judy M. Caldwell**, secretary-stenographer, GO T&D R/e & R/w, Roanoke, 120 lb. 6-point buck (Judy's husband, Jerry, added a 2-point buck to the family larder). **Roy E. Martin**, right-of-way supervisor, GO T&D R/e & R/w, Roanoke, 3-point buck and 4-point buck. **J. Larry Rakes**, right-of-way agent B, 120 lb. doe. **L. Dean Price**, right-of-way agent, GO T&D R/e & R/w, two turkeys (son Mike added a 2-point buck and two turkeys). **Robert D.**, husband of **Janet H. Maxwell**, personnel clerk, 150 lb. 8-point buck. **David**, husband of **Rhonda T. Carter**, personnel clerk A, 150 lb. 9-point buck. **J. T. Childress**, retired station mechanic A, GO T&D Station, 190 lb. 9-point buck.

Glen Lyn

T. E. Crewey, operations superintendent, 125 lb. spike buck. **D. E. Hall**, assistant shift operating engineer, 150 lb. 6-point buck. **F. J. Long**, instrument maintenance supervisor, 150 lb. 4-point buck. **R. D. Pearson**, chemist, 125 lb. doe. **R. E. Pendleton**, unit supervisor, 150 lb. 6-point mule deer and 100 lb. antelope. **S. K. Pennington**, assistant plant manager, 110 lb. 5-point buck. **D. G. Smith**, auxiliary equipment operator, 170 lb. 8-point buck. **W. C. Smith**, maintenance mechanic A, 200 lb. 9-point buck.

Kanawha River

J. L. Johnson, maintenance mechanic A, 4-point buck with bow and arrow and 8-point buck. **D. W. Wills**, maintenance mechanic D, 7-point buck. **P. W. Martin**, chemist assistant, doe with bow and arrow and 3-point buck. **J. B. Snodgrass**, crane operator, 6-point buck.

HOBBYISTS JOIN TOGETHER TO MAKE DECORATIVE ART



Displaying some of their work are, from left, Mabel F. Fulp, electric plant clerk A; Gayle J. Thomasson, electric plant clerk B; Tim Thomas; Teresa G. Surbaugh, electric plant clerk C; and Sue E. Bonham, electric plant clerk A.

An employee's love of working with wood has blended with interests of other GO Accounting employees in Roanoke to produce decorative art pieces.

"Working with wood has been passed down from father to son in my family," says Tim Thomas, electric plant clerk C. "When my father and grandfather weren't busy cutting and hauling timber to the family sawmill, they were busy in the shop crafting the rough stock into useful items."

Lately, Tim has been combining his woodworking hobby with that of several women employees who enjoy needlepoint, crewel and cross stitching by mounting and framing their work.

"I take a lot of pride in seeing a rough block of wood transformed into a thing of beauty," Tim says. "It also helps me to relax and forget about some of the things around me."

Tim takes the finished pieces and stretches and mounts them on a mat board. He then purchases rough cut frame stock or molds it himself in his workshop. The stock is then cut to size, glued together and finished as needed. He has also framed paintings and photographs.

"Being able to see that finished piece of wood really makes all the time and effort worthwhile," Tim says.

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RESIDENTIAL ADVISORS ASSIST VIRGINIA FARM BUREAU MEETING



Mariam Martindale, Roanoke residential advisor, conducts a microwave cooking class for participants of the Virginia Farm Bureau Federation's 54th annual meeting.

Three Roanoke Division residential advisors participated in the Virginia Farm Bureau Federation's 54th annual meeting held at Hotel Roanoke on November 27, 28, 29, 1979. The bureau is dedicated to improving the quality of life and net farm income of farm families.

Appalachian provided a booth at the meeting, featuring SAVE booklets and slides promoting the conservation of electric energy. Also, hand-out material was available on conservation. T. B. Lawlor, Jr. manned the booth.

Miriam S. Martindale presented four demonstrations on the use of small electric appliances as a way of conserving electric energy in food preparation. These demonstrations were held at various times throughout the three-day period and a total of 75 attended.

The Home Energy Management Mobile Display unit was at the conference for one day and featured energy conservation methods for around the home. L. D. Jackson manned the unit and explained the many features.

Approximately 900 people from all over the state registered for this meeting.



The North Putnam All Stars, managed by CPM Maintenance Mechanic Randy Bordenet, wound up their first season by winning the semi-final game of a seven-day, eight-game tournament. This was the first 13-year-old tournament in the region and the first tournament in which the All Stars participated. In the final game, the All Stars team members doubled as pitchers, assisting the two regular pitchers. Bordenet is pictured at left, back row.



Betty Pearson, Lynchburg residential advisor (far left), was selected by *The News* and *The Daily Advance* to be a judge in the papers' First Annual Holiday Cookbook contest. The 12 finalists presented their dishes in the auditorium of Appalachian's Lynchburg office for final judging. The grand prize winner received \$100; first place, \$25; second place, \$15 and third place, \$10.