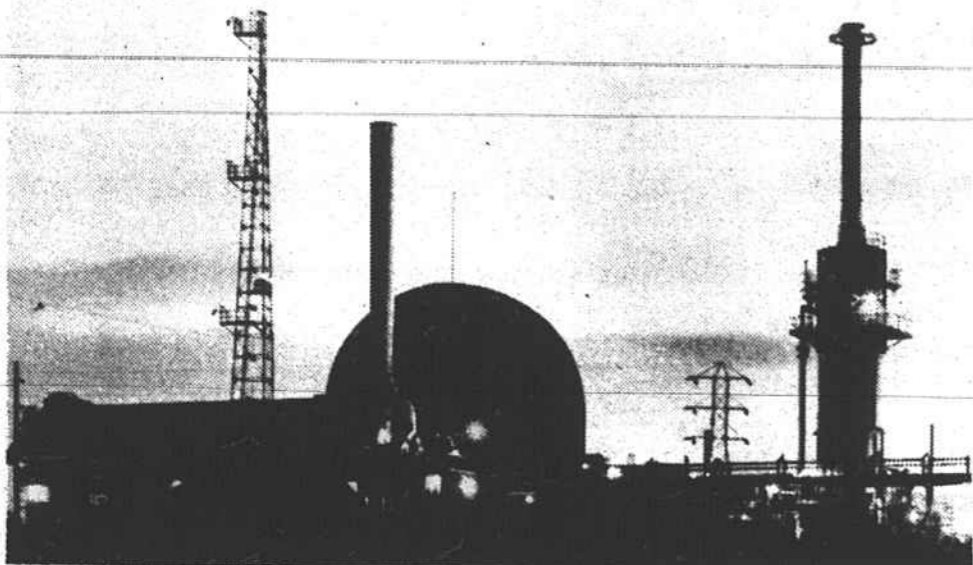


NUCLEAR CONTROL—A vast array of control, gauges and switches is shown in the control room of the first atomic power plant in the Southeast at Parr S. C. The Carolinas Virginia Nuclear Power Associates facility has safely and securely harnessed the atom to produce electricity, and is serving as a research tool for Carolina Power & Light Company, Duke Power Company, South Carolina Electric & Gas Company, Virginia Electric and Power Company, and the Atomic Energy Commission.



ATOMIC SILHOUETTE—The domed structure housing the reactor predominates this dusk scene at the Southeast's first atomic power plant. The Carolinas Virginia Nuclear Power Associates facility at Parr, S. C., has been producing electricity from atomic energy for over a year. It is also serving as a research tool for Carolina Power & Light Company, Duke Power Company, South Carolina Electric & Gas Company, Virginia Electric and Power Company, and the Atomic Energy Commission.

Power Pioneers Unite To Blaze Peaceful Atomic Trails

PARR, S. C.—While world leaders ponder ways to save their planet from nuclear destruction, this tiny community is witnessing a safe and significant step forward in harnessing the atom for peaceful use.

From a knoll overlooking the Broad River, power pioneers are blazing a trail into the nuclear age that may benefit users of electricity everywhere.

For over a year the Southeast's first nuclear power plant, and the only one of its kind in the United States, has been producing electricity from atomic energy. The Carolinas-Virginia Nuclear Power plant, and the only one of its kind in the United States, has been producing electricity from atomic energy. The Carolinas-Virginia Nuclear Power Associates facility has sent atom-produced electricity into a power network with interconnections throughout the Carolinas and Virginia.

Member companies of CVNPA are Carolina Power & Light Company, Duke Power Company, South Carolina Electric & Gas Company and Virginia Electric and Power Company.

The more than 36 million kilowatt-hours of electricity produced in the past year is only a by-product. More important is the knowledge gained from research, which began at the facility in 1961.

- It was operated at full licensed power for the first time in May.

- Sustained operation of the reactor by automatic control was attained during the year.

- Filing has been completed for a permanent Atomic Energy Commission operating license, to replace provisional license under which the plant has operated.

- During the month of October the plant had the highest availability factor - 98 per cent - of any reactor in the United States. The availability factor is the percentage of time the reactor is available for operation.

"We have had an availability factor average of 87 per cent since reaching full power in May, a good record for a research and development reactor," reports CVNPA Manager Harold Babb.

"The plant is proving highly successful as a research and development tool under the joint sponsorship of the four participating power companies and the Atomic Energy Commission."

"In addition to its experimental uses, Parr is proving valuable as a center for the training of operators and technicians," Babb continues.

The Parr facility is a prototype of larger commercial size atomic power plants of the future.

A nuclear explosion at the plant is practically impossible. Should this remote possibility occur the domed concrete and steel structure housing the reactor would contain it to protect the countryside.

The average employee gets less radiation from the plant in a year's time than he could from a single x-ray.

The Parr plant site is the only place in the world where coal, falling water, and atomic energy are used to generate electricity.

UNIQUE RESEARCH

Another unique research aspect of the plant is that in larger sizes it could be developed to use uranium of the quality found in nature, the use of which should reduce the cost of the power generated.

It is the first atomic power plant in the Southeast, and its pressure tube reactor is the only one of its kind in the United States.

The results of operations at the plant are being spread throughout the world. The visitor's log book reads like an international Who's Who in nuclear engineering. Data is also made available to the Atomic Energy Commission as well as the four participating companies.

There have been no unexpected "breakthroughs" at the plant. "Operating results have been very close to advance calculations. In other words the plant is doing what it was expected to do and proving itself everyday," Babb concludes.

Employee: "May I have the day off to go Christmas shopping with my wife?"

Employer: "Certainly not."

Employee: "Thanks very much."

Gen. Bowers Says Racial Line Erased

RALEIGH—Adj. Gen. Claude Bowers says President Johnson wasn't talking about North Carolina when he urged an improvement of racial equality in National Guard units in southern states.

Integration of the state's guard has been peaceful and voluntary since the 1963 General Assembly dropped the racial barriers, Gen. Bowers said Monday.

Ten or 20 units of the 92-unit North Carolina Guard have Negro members, he said, and 50 of the 10,500 men in the state guard are Negroes.

"We've had no problem at all since the law was repealed," Gen. Bowers said. "If they (Negroes) want to join, they take the test. If they pass, we take 'em."

President Johnson, in a letter to Secretary of Defense Robert McNamara, said he wanted every aspect of racial discrimination eliminated in the armed forces.

He referred to a report by the President's Committee on Equal Opportunity in the armed forces which said a number of southern states have allowed Negroes to join guard units in recent years.

Dasher, Dancer, Prancer and Rudolph would cause no excitement in the Netherlands, where children believe that a horse pulls St. Nicholas' sleigh. The great horse is named Sleipner, and the Dutch children fill their wooden shoes with hay for him. This gives him energy to get St. Nick to every house.

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Volume Of New Construction Shows Big Gain Over Last Year

CHARLOTTE—The volume of new construction in North and South Carolina during 1964 showed a staggering increase over the preceding year, according to figures released Saturday.

Henry J. Pierce, managing director of Carolinas Branch, the Associated General Contractors of America, said that statistics for the first 10 months of 1964 showed a new construction volume in the two states of \$1.3 billion, a gain of almost 30 per cent over the \$1.03 billion for the same period in 1963.

Additional increases can be expected in 1965, Pierce said, although the percentage of gain is not expected to be as large. "Nationally," Mr. Pierce said, "the construction industry saw the best year in its history in 1964 with a total volume of work put in place of \$88 billion. The predicted volume for 1965 is more than \$91 billion."

"New plant and equipment expenditures are continuing to rise. The national rate of investment in new plants and equipment during the first half of 1965 is expected to be more than 8 per cent above the average for 1964. The percentage increase is expected to be much greater in North and South Carolina as both states expand their programs to attract new industry."

"The effect of the federal tax reduction early in 1964 will be felt more strongly in 1965 than it was last year. This will be helpful particularly in maintaining the volume of residential construction."

"And in general, the contin-

uing advance of all segments of the Carolinas economy give no indication that construction volumes will fall below current levels."

Building construction by categories in the two states showed the following increases during the first 10 months of 1964, according to figures furnished by the F. W. Dodge Corp.

—Residential construction in North Carolina gained \$55 million, from \$355 million to \$410 million. Residential construction in South Carolina gained \$23 million, from \$139 million to \$162 million.

—Non-residential building construction in North Carolina gained \$46 million, from \$229 million to \$275 million. Non-residential building construction in South Carolina gained \$42 million, from \$127 million to \$169 million.

Increases also were recorded in "non-building" construction, according to statistics compiled by S. C. Austin of Raleigh, manager of the Carolinas Branch, AGC Highway-Heavy Division. Figures follow:

—Highway construction contracts awarded by the N. C. State Highway Commission during Calendar 1964 set a record of \$83.9 million, an increase of 41.4 per cent over the \$59.4 million awarded the previous year.

—The S. C. Highway Department awarded contracts totaling \$63.1 million, an increase of 7.1 per cent over the \$58.9 million awarded in 1963.

—Public works construction in the two states for the fiscal year ending Sept. 30 totaled \$66.2 million, an increase of 9.4 per cent over the \$60.5

million awarded the previous year. This category includes public utilities, municipal streets, city and county airports, telephone and power lines, state ports construction, dams and drainage canals.

Contracts awarded for federal construction in the two states increased more than 24 per cent, from \$18.1 million to \$24.3 million. These awards included construction on military bases, the Blue Ridge Parkway and similar federal government facilities in the area.

Federal And State Tax Forms Received

Federal and State forms for use in preparing 1965 income tax returns are being received here, and will be available for filing of reports. For individuals, April 15 is the deadline for filing returns on 1964 earnings. Corporations must turn in their reports by March 15.

To all intents and purposes, the record for 1964 has been written and summaries will be

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begun after January 1 for calculating payments that will be required to both Federal and State agencies.

Annual audits will be started soon after the first of the year. Business concerns that operate on a calendar basis, and that means most of them, will complete inventories and set up records on which tax returns will be made.

Many firms will show record volume of sales and some record earnings also. That means in most instances that tax obligations will be heavier for remittances early in the coming year.

Student

Canton, Ohio—Rt. Rev. Msgr. Vladimir Pelich, pastor of the Ukrainian Catholic Church here, at the age of 78 commutes to classes at Akron's Evening College.

Although holder of a doctor's degree in Slavic languages from the University of Vienna and a Ukrainian himself, he is taking a course in the History of Ukrainian Civilization. "I want to learn more from an authority," he explains.

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