

Wakefield Circle Holds Sept. Session

Circle No. 1 of the Woman's Missionary Society met in the home of Mrs. Emily Mitchell on Monday night, September 12th, with 17 members present.

Meeting opened with a song, followed by the devotional given by Mrs. W. J. Perry. She used the 71st Psalm as her scripture reading.

A very inspiring program was rendered by Mrs. Lida P. Bridges. After which a short business session was held during which time reports from various committees were given.

The meeting adjourned after being served delicious refreshments by the hostess.

The Society will meet in October with Mrs. Kermit Combs, in the parsonage.

New Power Plant To Open Sept. 30th

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bine pedestal — a massive table— weighs around 12,500 tons. There's almost as much stuff underground as there is in sight.

The plant is located on a 1,000-acre tract lying along the river. The river channel itself underwent a change to supply the enormous quantity of water needed for condensing spent steam back into water. A dam, its top only three feet below the surface of the normal level of the steam, guarantees a basin of condensing water, but all the water taken from the river is returned to it.

How coal, water, machinery and ingenuity are combined to pump

EXECUTOR'S NOTICE

Having qualified as Executor of the estate of Martha G. Watkins, deceased, late of Wake County, North Carolina, this is to notify all persons having claims against the estate of said deceased to exhibit them to the undersigned 19th day of August, 1950, or this notice will be pleaded in bar of their recovery. All persons indebted to said estate will please make immediate payment.

This 30th day of July, 1949.

Woodrow W. Watkins, Executor of the Will of Martha G. Watkins.

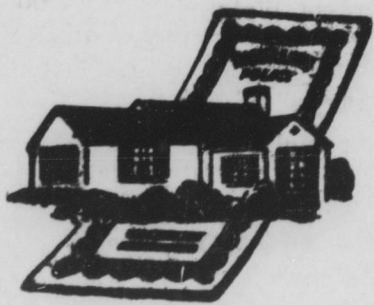
NOTICE

Having qualified as Administrator of the estate of H. S. King, deceased, late of Wake County, North Carolina, this is to notify all persons having claims against the estate of said deceased to exhibit them to the undersigned, at Youngsville, North Carolina, on or before the 28th day of August, 1950, or this notice will be pleaded in bar of their recovery. All persons indebted to said estate will please make immediate payment.

This 28 day of August A.D. 1949.

Leonard Gay, Administrator of H. S. King, deceased.

Insurance



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Against your worst enemies
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D. D. Chamblee

The Insurance Man

electricity into the homes, stores and factories of the Carolinas will be graphically demonstrated at the opening of this new plant.

Coal, brought over spurlines of two railways (950 tons per day at full load on two units) is carried by endless belts to a crusher. From here it goes to pulverizers, which reduce it to the consistency of talcum powder, and it is then blown through six jets in the huge boilers, where it burns in suspension, much as gas or oil would do.

The boilers are composed of miles of pipes made of special alloy steel, surrounding this fire nine stories high. Heat-resistant cement backs up the network of pipes, and behind it is still another maze of pipes through which water circulates to all points of the boiler to keep the pipes next to the fire from burning up.

Water, derived not from the river, but from deep wells nearby, circulates in the pipes exposed to the heat, and is transformed into steam at a pressure of 1350 pounds per square inch at a tem-

perature of 955 degrees Fahrenheit, at which temperature the pipes are red hot.

For the sake of economy, the heat from the huge fire is not released entirely through the smokestack, but is blown back into the maelstrom by fans to add its temperature.

Little is left of the coal, but ashes are collected at the bottom of the furnace, ground to fine particles, and taken away in sluices to disposal grounds some distance from the plant.

The steam is rushed to the turbines and thrown against the cone-like flanges, which turn the turbines at a speed of 3600 revolutions per minute, much as water turns a waterwheel, and this energy is transformed into electricity in the generator.

It is at this point that the Lumber River enters the picture. As the steam is released from its narrow confines, and hits the revolving metal wings of the turbine, it loses its force because of expansion. Presence of the spent steam

in the far end of the chamber blocks the entry of working steam at the entry end. To get exhausted steam out of the way, a condensing system, using the cooling waters from the river, quickly reduces it to water, which is returned to the boilers for reheating into steam. The 100,000 gallons circulating each hour in the boiler pipes is thus used over and over again.

From the river comes 125,000,000 gallons per day for condensing, after being chlorinated at the intake. It is pumped to the condensers through four 36-inch pumps. city of a million population. That is enough water to supply a

The power thus generated is stepped up to 22,000 volts and transmitted to the Lumberton substation, and stepped up to 110,000 volts to go to other points for distribution over the Carolina Power and Light Company's network.

The plant was designed and its construction supervised by Ebasco Services of New York. G. E. Chamberlin succeeded C. K. Kelsey as construction superintendent. By the Brothers of Charlotte and many other sub-contractors did most of the work.

Resident Superintendent of the plant is J. S. Newbold. Approximately 60 persons will be required to operate the station.

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Note book paper	pkg.	3c
Bread	loaf	13c
April Shower Garden Peas	can	16c
Red Cross Corn	can	18c

We have a complete line of fresh vegetables and fruits in the new Self Service Refrigerated Vegetable Counter — just installed.

Phillips Market & Grocery

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... and the
AMERICAN HERITAGE

The American Heritage consists of a combination of influences and ideas — most of them originating in the early days of our history when a people's government was formed. In our nation where the decision of the people is the ultimate authority, it follows that the welfare of the people is the guiding force of our way of life.

Since the day of Benjamin Franklin and his kite and key, ELECTRICITY has had a more and more important influence upon the people's welfare. It has made mass production of goods possible — it has eased burdens of work in industry and agriculture and has made the American standard of living the highest in the world. Electricity has made the American Heritage the envy of the world.

★ **CAROLINA POWER & LIGHT COMPANY**