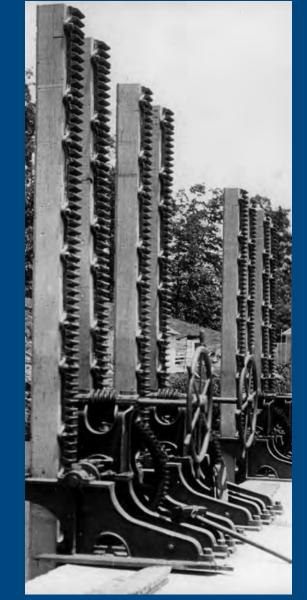
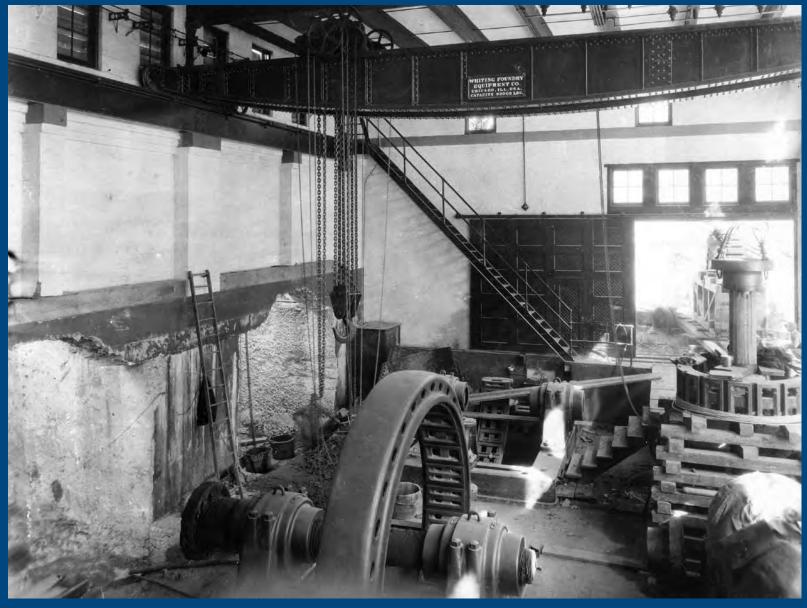
THE POWER OF WATER







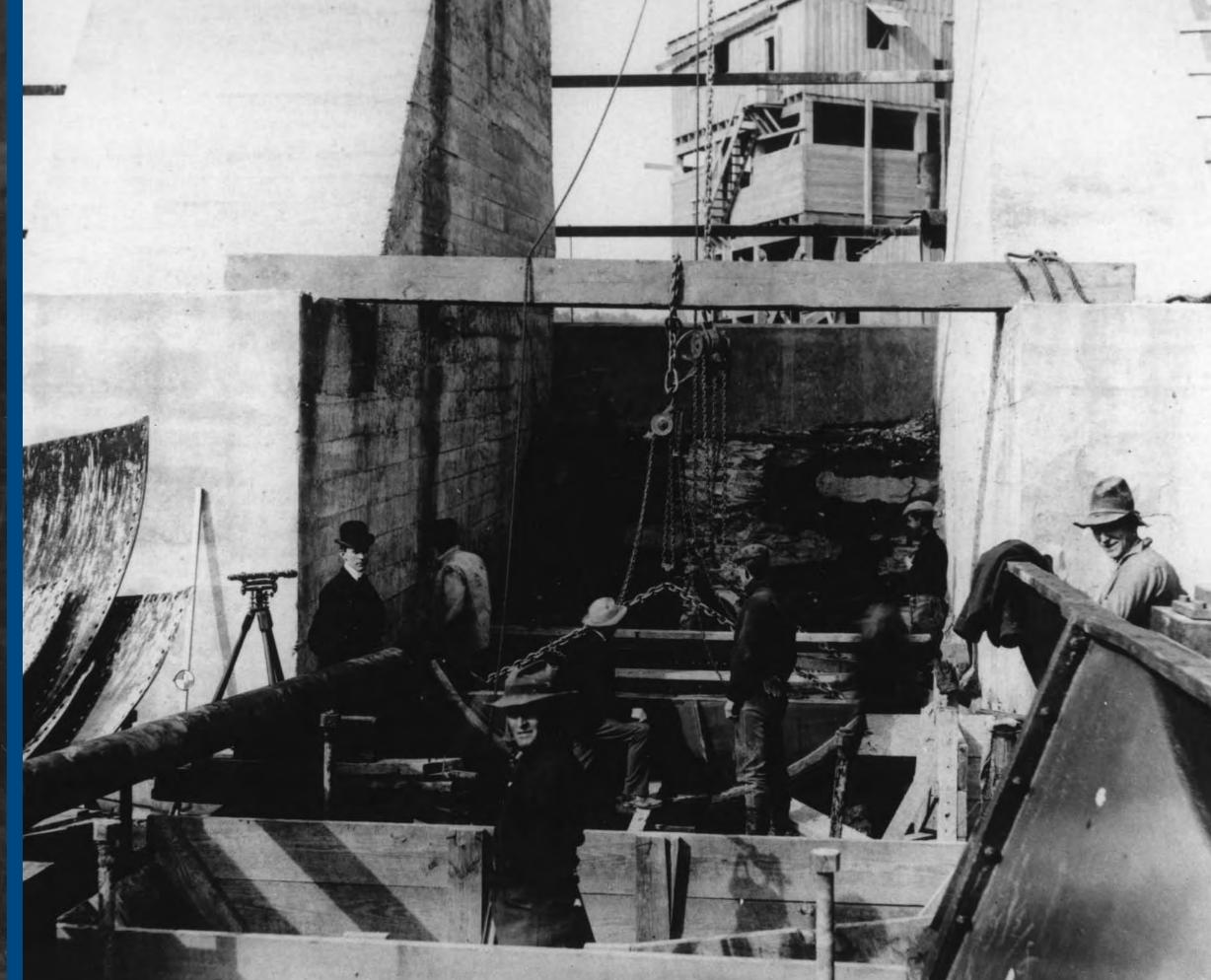
Left: Machinery for Morgan Falls Dam. Right: Morgan Falls Powerhouse construction.

organ Falls is a great example carry the electricity over long. Hydropower reached its peak in IVI of early attempts at harnessing distances to homes, businesses, and the 1940s. Forty percent of the hydroelectric power. Hydroelectric communities. nation's electricity was generated power is created by the force of falling Hydroelectricity was developed through hydropower. Today, the water. Hydropower plants store in 1880 when it was used by the United States gets only about six the needed water in reservoirs. To Grand Rapids Electric Light and percent of its electricity through create electricity, stored water is sent Power Company in Michigan. They hydropower. through powerhouse gates and goes used a water-powered turbine to Hydropower plants are being into pipes. The water then turns provide electricity for arc lighting. explored as a source for clean energy. the blades of a turbine. The turbine In Georgia, many early hydro plants They do not pollute the air because is connected to a generator. The were built to provide power to textile they do not burn fuel. Rainfall generator spins and produces an mills and other industries. Most provides the water needed to operate electrical current. The current is sent of these hydro plants were eventually the plants, so they are durable and to a transformer where the voltage bought by the Georgia Power inexpensive. is increased. Transmission lines then Company.

Aerial of Morgan Falls, circa 1980s.



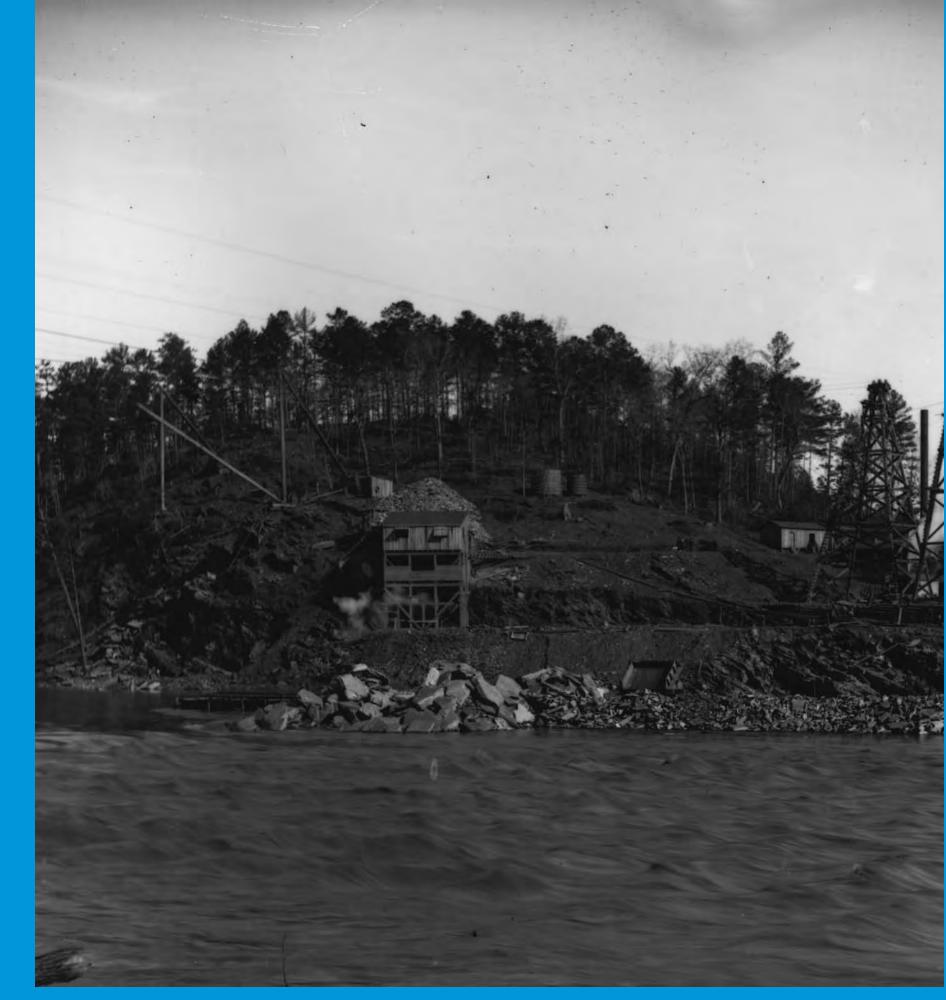
Construction of Morgan Falls.



THE BUILDING OF MORGAN FALLS









Above pictures: Views before and after constuction in 1904 of same location at Morgan Falls.

Construction of the spillway.

organ Falls is an important 1 V Lhistoric site because it's associated with S. Morgan Smith. S. Morgan Smith is best known as the inventor of "Smith's Success Turbine." Smith was born in Davie County, North Carolina in 1830. He spent his early years on a farm and became interested in machinery. After the Civil War, he became associated with the

grist mills. Ultimately, the S. Morgan plant at Morgan Falls began in 1902. world.

York Manufacturing Company in Atlanta. Smith learned of a good site on the river Pennsylvania. That company failed, called Bull Sluice. He bought the land and water but Smith began building his own rights and formed the Atlanta Water and Electric water-powered turbines for use in local Power Company. Construction of a hydroelectric

Smith Company became one of the To build the dam, a type of building method largest builders of water turbines in the called "Concrete Cyclopean Masonry" was used to construct the facility. In this method, large By the late 1890s, attempts to harness pieces of uncut stone were set far apart and the water power were already underway on gaps were filled with cement. Morgan Falls began the Chattahoochee River, northeast of generating electricity in October 1904.

Towers and cables crossing the Chattahoochee River during construction.



WHY IS MORGAN FALLS IMPORTANT?

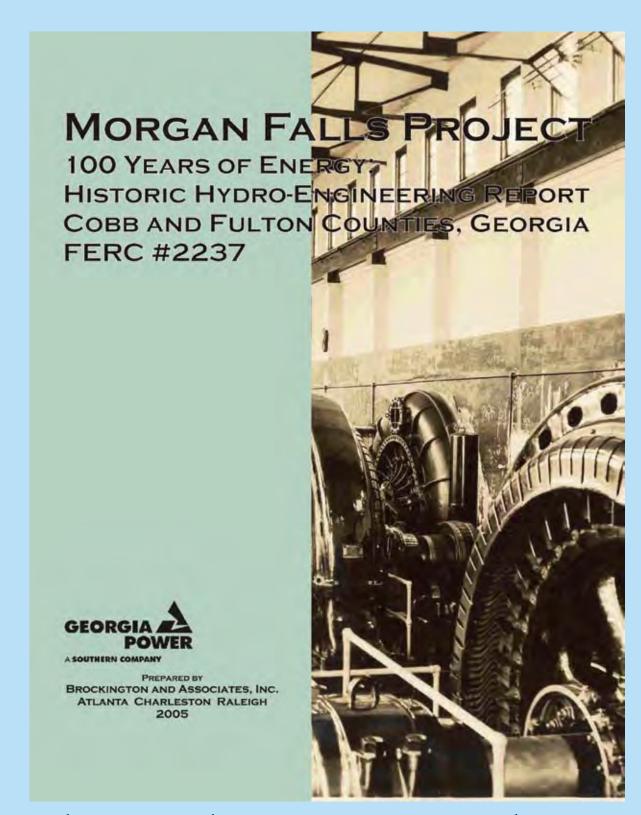




Mayor William B. Hartsfield, in middle, stands outside of Morgan Falls.

Regulatory Commission (FERC) license renewal process, Georgia Power sponsored a history study of the Morgan Falls hydroelectric plant. In cooperation with the Georgia State Historic Preservation Office and FERC, the Georgia Power Company determined that Morgan Falls was a significant historical resource. Morgan Falls is important because of its architecture, its associations with the early development of hydroelectric engineering, and S. Morgan Smith, who is famous for inventing the water turbine.

Morgan Falls was built during a time when hydroelectric power was new and still an experiment. Plants like Morgan Falls helped with the invention and experimentation of long electrical transmission systems, dam construction, and the creation of efficient power generation. Morgan Falls was one of the first hydroelectric plants in the state of Georgia. It provided the first hydroelectric power for the City of Atlanta. With the opening date of 1904, Morgan Falls is the oldest hydro-engineering facility still operating in Georgia.



The 2005 historic resources evaluation of Morgan Falls.

The new bridge completed over the spillway, circa 1960.

LOOKING TO THE FUTURE

The Georgia Power Company is committed to protecting Morgan Falls. In 2006, the company developed guidelines for the preservation of the facility's engineering features. The company also developed a shoreline management plan, which provides guidance for protection of natural features around Bull Sluice Lake. The protection of places like Morgan Falls creates recreational opportunities, such as fishing and boating. It also preserves natural habitats for many plant and animal species.

Present-day photograph of the spillway.

