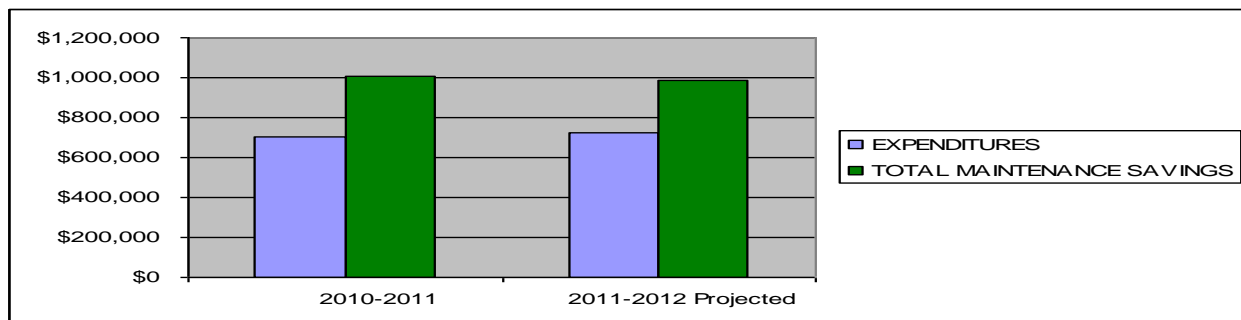
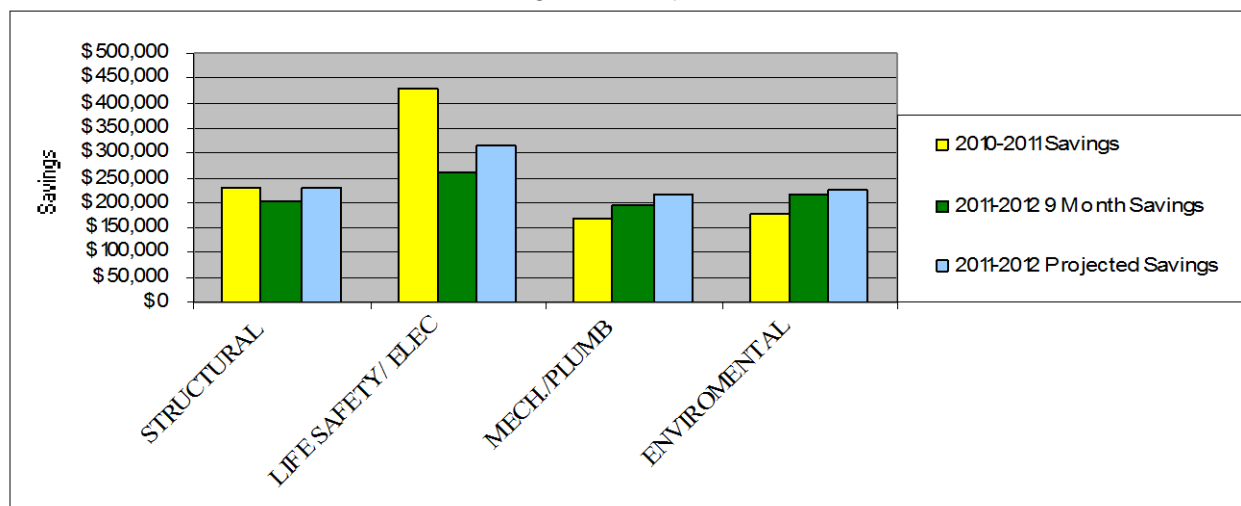


Each day North Carolina's Public School personnel struggle with maintaining an acceptable teaching environment as the state's school buildings continue to age, student populations grow, and technology needs change. Given the current economic conditions, most school districts are faced with maintaining older (but still useful) facilities. Schools across the state turn to the Department of Public Instruction's Plant Operation Section to provide experienced professional engineering for cost effective solutions to their facility related issues. Plant Operation streamlines facility maintenance by providing technical consulting and professional design solutions uniquely tailored for the public schools. These services are available to all of the schools of North Carolina and are especially invaluable in areas where engineering services are scarce or unaffordable. The technical assistance provided by this section is vital to the majority of counties in North Carolina, especially since more than half of North Carolina's school districts are identified as low wealth and may be unable to afford private consulting services. The use of Plant Operation results in cost savings in design fees, maintenance/construction costs, utility/operations costs, and protection of current school assets and the learning environment.

Savings and Projections*



*Based upon design fee $\approx 0.1 \times$ project construction costs and/or project savings costs

"This is to thank you for being so helpful and efficient with the engineering services provided by your department to Bladen County Schools. It is especially so, during this time of budget cuts and shortages."
Bladen County Schools

"With budgets as tight as they are and are expected to get tighter, I don't see how schools can afford to operate without the services the Plant Operation Section offers."
Elkin City Schools

"The staff at Plant Operation has been instrumental in helping Roanoke Rapids Graded School districts to keep our facilities in a safe and orderly fashion. Plant Operation is an asset to districts like mine."
Roanoke Rapids City Schools

"As Superintendent of Madison County Schools, I highly support the Facility and Planning Department at DPI. They have provided valuable help and assistance with our facility improvements"
Madison County Schools

Current Sample Case Histories

Person County Schools

Plant Operation Engineers have ongoing projects with Person County Schools including providing ADA access ramps and canopies at the Person County High School, water and wastewater treatment projects at the Woodland Elementary School, and structural repair and reroofing projects at the maintenance facilities.

Perquimans County Schools

Various services were provided at the Perquimans County schools. Sample services dealt with design for the electrical service at the Perquimans Middle School, as well as the lighting for the facility's parking area. Emergency power needs and roof leaks were also addressed at Perquimans High School as well as the maintenance facility area. Traffic circulation and drainage improvements were also designed for Central School.

Surry County Schools

Plant Operation personnel provided consulting for a large underground storage tank system.

Randolph County Schools

Projects with Randolph County Schools include structural review and repair for damaged concrete beams at the Liberty Elementary School and electrical design for the Seagrove Elementary School Lift Station.

Roanoke Rapids City Schools

Provided design of a hot water heater system for the Belmont Elementary School. Also dealt with various electrically related systems in the Roanoke Rapids High School Auditorium. Various ongoing services include life safety system efforts in various schools and support facilities.

Scotland County Schools

A wide variety of services were provided to the Scotland County schools. Sample services dealt with electrical consulting for the North Laurinburg Elementary School, drainage design for the Sycamore Lane Middle School and Scotland High School, solid waste bid development and award services (for the entire system) and structural evaluation of cracks at the Scotland High School facility.

Northampton County Schools

Emergency services related to storm damage and impact on school facilities for Gaston Elementary School and the Northampton High West School. Other efforts included aiding in generating bid documents for the painting of Northampton High East School as well as indoor air quality issues at this school.

Various LEAs Schools Boiler / HVAC Projects

Provided design related services, construction administration services, and/or consulting troubleshooting efforts on Boiler and / or HVAC systems. Sample clients include Watauga County, Clinton City, Tyrrell County, Nash County, Currituck County and other ongoing efforts.

Various LEAs Roofing Projects

Plant Operation provided new and ongoing roofing design, troubleshooting, and construction liaison services on various emergency and scheduled maintenance roofing projects. Projects included both flat and sloped roofing systems. Emphasis was placed on saving construction dollars, maintenance dollars, and providing energy efficient roof systems saving energy dollars. School systems included Asheboro City Schools, Scotland County Schools, McDowell County Schools, Perquimans County Schools and others.

Various LEAs Energy Star Certification

Personnel from Plant Operation provided Energy Star Certification related services to numerous schools (such as Yadkin Co., Rowan Co. and Montgomery Co.).

Various LEAs – Training

In addition to furnishing design services, the Plant Operation Section also provides valuable training in a variety of different fields such as facility related asbestos remediation and school maintenance electrician review (exam and certification related.)