

# Engineering Department Provides

Clinton Mills began its Engineering Department in 1960 with the modernization of Plant No. 1. The value of coordination among manufacturing management, contractors and the maintenance department was proven. Twenty-four years and seven plants later, the department has grown to five engineers who share responsibility for operation, maintenance, design, construction and other project-work related to the production of quality textile products at competitive costs. The department was started and is headed by Bailey Dixon, Vice President.

As Corporate Mechanical Engineer, Harry Sullivan is responsible to see that the plants' compressed air, boiler, air conditioning and refrigeration systems are properly designed and maintained for efficient operation. Sullivan is currently heading up the engineering responsibilities of the Bailey Plant modernization, working with manufacturing personnel on all levels to insure a smooth transition with the least possible surprises and inconveniences.

Frankie Harmon, Project Engineer, is an engineering graduate of Clemson University. Reporting to Harry Sullivan, he is currently involved in coordinating various contractors for roofing, piping and building modifications, especially at the Bailey Plant. Harmon works with Bob Wilkie to see that the company's watershed and forest land are maintained and productive. He is also responsible for insuring that the filter plant water quality and testing are maintained and that the company's sanitary landfill is operated within state guidelines.

Jim Barton, Corporate Electrical Engineer, is a registered Professional Engineer. He is responsible for seeing that all plant electrical systems are properly loaded and coordinated and that all systems are installed and maintained in full compliance with the National Electric Code. Barton is also the Engineering Department's leading edge in electronics and computer applications. He designed the company's first microprocessor controlled fire protection system for the Lydia opening and card rooms, and he is in charge of maintaining and updating the computerized preventive maintenance programs.

Paul Fallaw has been Data Processing's chief liaison with engineering, working closely with Barton to develop programs for monitoring energy consumption and costs at all plants and to see that the department's IBM XT personal computer is properly linked with Data Processing's main frame.

One of Barton's present projects is using a Trane Sentinel DEC PDP 11 / 23 Computer and programs to monitor and control the efficiency of the company's two 1250 ton refrigeration machines serving carding and spinning in Plant No. 2. Working with Sullivan and Campbell, Barton hopes to expand the system to control and monitor refrigeration, electrical demand and other areas where energy cost savings are possible at Lydia and Bailey Plants as well as Plant No. 1 and No. 2. The Trane system will also be used to replace the T-6000 air conditioning monitoring system at the Bailey Plant.

Silas Campbell is Director of Plant Engineering at the Clinton Plants. Included in Campbell's recent projects are a microprocessor controlled material handling lift in Plant No. 1 and a work order system for the maintenance departments to help insure prompt action and adequate follow-up. Several areas covered on the work order system are also computerized to help evaluate costs

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**WEEKLY PROGRESS MEETING**—Each week numbers of the Engineering and Manufacturing staffs review the progress of the Bailey Plant modernization in order to make various moves, installations, and structural changes in the most efficient manner. Left to right, Plant Engineer Robert Cobb, Assistant to VP of Manufacturing Jim Coleman, Carding Superintendent Don Wilkins, Corporate Mechanical Engineer Harry Sullivan, Plant Manager Gregg Link, and Corporate Electrical Engineer Jim Barton review next week's scheduled moves.



**PLEASE ROUTE TO ALL CONCERNED**—Vice President Dixon instructs Maria Reid to route a series of reports to members who needed them regarding installation of Plant equipment. Maria is a substitute secretary in the engineering department while Pat Owens is on leave.



**BAILEY DIXON**—"Our goal is to assist Clinton Mills in making a better product at a lower cost."



**REVIEWING TRANE CONTROLS**—Gerald Satterfield, Toland Snelgrove and Plants 1 and 2 Engineer Arthur Sanders review the new Trane Sentinel refrigeration controls.



**MICROPROCESSOR FOR NO. 1**—Assistant Plant No. 1 and 2 Engineer Johnny Price, Director of Plant Engineering Silas Campbell and Marshall Vaughan, note the computer technology that has been brought to the No. 1 plant as this device greatly improves the handling of stock between the various departments.



**DISCUSSING COMPUTER APPLICATIONS**—relates the many applications of the personal computer with Corporate Electrical Engineer Jim Barton.