

Food Client

# New Aseptic Filling Line



A production increase at a client's existing facility required a new aseptic line addition to the existing production process. This capacity increase required process, packaging, and palletizing equipment installation, as well as a 1,000 SF process area expansion and 1,600 SF truck dock expansion. Given SSOE's strong relationship with the client, as well as our experience providing mechanical utilities and HVAC controls for a previous aseptic expansion at this facility, the firm was the obvious choice to provide engineering services necessary to successfully deliver this project.

SSOE provided preliminary and detailed design to prepare the site, building, infrastructure, process piping, fire protection, electrical power, and controls systems for the project. The design of all mechanical, electrical, HVAC, and utilities required for all third-party "turn-key" systems, such as sterilization, refrigeration, filling, packaging, and palletizing, to be integrated into the overall production system was also provided. Plumbing and HVAC systems were expanded to facilitate the larger facility's needs. A new electrical transformer was integrated to serve the new production equipment, high bay fluorescent fixtures, and electrical distribution systems.

Process systems included three tanks, three pumps, a drum dumper, two filters, two platforms, and associated solenoid and electrical panels. SSOE provided the relocation design for the existing CIP skid to blending areas, including a new layout, extension of utility headers, electrical services, chemical supply piping, and CIP fluid delivery piping.

This complex project involved numerous entities. SSOE's project management bridged the gaps between vendors and other engineering suppliers. The project was executed as a whole and incorporated multiple "turn-key" systems into an integrated solution. Work was coordinated with scheduled plant shutdowns to minimize operational disruptions.

## value promise

SSOE recommended the installation of a relocated fire riser in the Aseptic Room and supply air be distributed from the ceiling, thus eliminating the need for bump-out / chase of the addition's north side. This, coupled with the reuse of various existing equipment and several design modifications ultimately saved the client \$73,000.

**location** South, USA

## highlights

Bridged the gap between vendors and engineering suppliers

Multiple "turn-key" systems into one integrated solution

Coordinated with scheduling to minimize disruption of existing operations