



Confidential Pharmaceutical Client

Manufacturing Facility

Location

West Coast, USA

Client

Confidential
Pharmaceutical

Market Sector

Science & Technology



PS&S California, Inc. provided mechanical, architectural, structural and electrical engineering services for the design of Product Space upgrades at the CA campus of this major pharmaceutical client. Prior to design efforts, PS&S thoroughly reviewed the previously completed BOD requirements.

The design consisted of four distinct projects intended to help the client meet demand due to changing market requirements. Three of the projects were renovations to the existing production space: New Longitudinally Compressed Tablet Laser (LCT-4) Room, Vision Inspection System for Finished Tablets and Microbiology and Finished Products Laboratories. The final project was a feasibility study for a new Central Cleaning Hot Water Skid required for cleaning granulators and coating pans.

For each of the renovation projects, architectural work included space programming to determine the optimal locations for the major production equipment. New finishes for the spaces were also developed. Mechanical engineering work included schematic design of three new air handling units and five new exhaust fans, all capable of serving GMP spaces. Existing site utility requirements were also studied during the basis of design. Structural engineering included the design of a new bridge providing access between mezzanines in the warehouse area, design of a new 2nd floor room addition and support of rooftop mechanical equipment.

PS&S' expertise in pharmaceutical processes stood out during the Cleaning Hot Water Skid feasibility portion of the project. The Biopharma group was required to determine the capacity of the hot water skid and the facility infrastructure to support its installation. A User Requirements Specification was established and proposed piping layouts and flow diagrams were created to help establish proposed system design parameters. As a result of our investigation, it was determined that the project should be re-evaluated because of potential harm to employees if put into operation.

This project proved to be extremely challenging. Various manufacturing departments compete for limited space. PS&S took control from the start by interviewing key decision makers and identifying production and regulatory issues early on to help visualize a path to successful project completion.

