



engineered systems

# CASE STUDY

## Project: Pilot Plant Overhaul



### Customer:

A global, diversified health care company specializing in:

- The discovery, development, manufacturing and marketing of innovative products and services in pharmaceuticals, nutritionals, and diagnostics.
- Advancing medical science and the practice of health care - from prevention and diagnosis to treatment and cure.
- Providing total, integrated solutions across the health care spectrum.

### Process Issue:

The customer was in need of a complete overhaul of their 20-year-old pilot plant in order to comply with cGMP standards. Much of their equipment was worn or outdated.

### Customer Specifications:

- Time constraint to minimize product disruption (needed short lead time for new equipment)
- Entire project needed to be performed during building renovations
- Reliable equipment that meets FDA requisites
- New arrangement to improve the ergonomics, workflow, and functionality of the installation

### DDPS Solutions:

Over a four month period, DDPS removed all of the process equipment, redesigned the equipment layouts to meet the operations and maintenance requirements, replaced worn/damaged components, upgraded the agitation systems and sheathing on the glass-lined reactors, and then reassembled the skids with new structures and support equipment in our facility. Some existing glass equipment was cleaned and used in the new installation to save costs. New P&IDs, mechanical drawings and manuals were created to help with the validation process, and FAT's (Factory Acceptance Tests) were performed on the systems as part of the validation support. Finally, DDPS re-installed all of the equipment back in the newly-renovated building on schedule.

### Competitive Advantage:

After getting a full background of the customer's unique requirements, DDPS was able to offer a customized refurbishment solution that met all the important specifications, including a comprehensive spare parts inventory (for a reduced lead time), local engineering and assembly, on-site service, flexibility and speed, validation support, and documentation.



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