

CASE STUDY

Hygienic Process System Design and Fabrication for Fluor/ Novo Nordisk Pharmaceuticals

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JOB OVERVIEW

Key Features

- Hygienic process systems built in EPIC's isolated sanitary fabrication shop
- Modular design and offsite fabrication of 10 skids
- 2-skid solvent recovery system
- 8 mixing systems with schedule 10 piping and BPE welding

Challenges

- True hygienic design and fabrication
- Stringent traceability requirements required strict adherence to procedures
- Tight space requirements combined with GMP practices required detailed review of all 3D models before assembly began

Impact

- Fully validated system achieved smooth startup
- Modular design build compressed project schedule for faster delivery with offsite FAT testing
- Plant operations were doubled

THE EPIC SOLUTION



EPIC designed and fabricated ten sanitary process systems for a multinational pharmaceutical company that recently announced a \$2-billion expansion of their medicine-manufacturing operations. EPIC provided design-build services for two solvent recovery hygienic process systems and eight mixing sanitary process systems.

All sanitary and hygienic process systems were designed at EPIC and subsequently fabricated, inspected and Factory Acceptance Tested (FAT) in EPIC's isolated sanitary fabrication shop.



Project management was simplified by designating a single point of contact for the customer. EPIC's project management team had industry-specific experience that allowed them to oversee EPIC's in-house design, fabrication and quality assurance teams. This was important to ensure the process was kept sanitary and on schedule.